

ARABIC GRAMMARS OF TURKIC

# STUDIES IN SEMITIC LANGUAGES AND LINGUISTICS

EDITED BY

T. MURAOKA AND C.H.M. VERSTEEGH

VOLUME XXVIII

ARABIC GRAMMARS OF TURKIC



# ARABIC GRAMMARS OF TURKIC

*The Arabic Linguistic Model Applied to Foreign Languages & Translation  
of 'Abū Ḥayyān al-'Andalusī's  
Kitāb al-'Idrāk li-Lisān al-'Atrāk*

BY

ROBERT ERMERS



BRILL  
LEIDEN · BOSTON · KÖLN  
1999

This book is printed on acid-free paper.

### Library of Congress Cataloging-in-Publication Data

Ermers, Robert (Robert J.)

Arabic grammars of Turkic : the Arabic linguistic model applied to foreign languages & translation of 'Abū Ḥayyān al-'Andalusī's Kitāb al-'idrāk li-lisān al-'Atrāk / by Robert Ermers.

p. cm. — (Studies in Semitic languages and linguistics, ISSN 0081-8461 ; v. 28)

Based in part on author's Ph.D. dissertation—Univ. of Nijmegen, 1995.

Includes bibliographical references (p. ) and index

ISBN 9004113061 (cloth : alk. paper)

1. Turkish language—Grammar—Theory, etc.—History. 2. Abū Ḥayyān Muḥammad ibn Yūsuf, 1256-1344. Idrāk li-lisān al-Atrāk. 3. Turkish language—Grammar, Comparative—Arabic. 4. Arabic language—Grammar, Comparative—Turkish. 5. Turkish language—Grammar—Study and Teaching—Ismalic Empire—History. 6. Linguistics—Methodology. I. Abū Ḥayyān Muḥammad ibn Yūsuf, 1256-1344. Idrāk li-lisān al-Atrāk. English. II. Title.

III. Series: Studies in Semitic languages and linguistics : 28.

PL29.E67 1999

494'.3—dc21

98-49994

CIP

### Die Deutsche Bibliothek-CIP-Einheitsaufnahme

#### Ermers, Robert:

Arabic grammars of Turkic : the Arabic linguistic model applied to foreign languages & translation of Hebrew Abū Ḥayyān al-'Andalusī's Kitāb al-'idrāk li-lisān al-'atrāk / by Robert Ermers. - Leiden ; Boston ; Köln :

Brill, 1999

(Studies in Semitic languages and linguistics ; Vol. 28)

ISBN 90-04-11306-1

ISSN 0081-8461

ISBN 90 04 11306 1

© Copyright 1999 by Koninklijke Brill NV, Leiden, The Netherlands

*All rights reserved. No part of this publication may be reproduced, translated, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission from the publisher.*

*Authorization to photocopy items for internal or personal use is granted by Brill provided that the appropriate fees are paid directly to The Copyright Clearance Center, 222 Rosewood Drive, Suite 910 Danvers MA 01923, USA.  
Fees are subject to change.*

PRINTED IN THE NETHERLANDS

*Voor mijn ouders  
Jan en Julia Ermers*



## CONTENTS

Preface .....	XIII
---------------	------

### PART ONE

Arabic grammars of Turkic

The Arabic linguistic model applied to foreign languages.....	XVII
---	------

#### I. Subject and outline

Introduction .....	1
1. General observations in regard to the subject of this study .....	1
2. The subject of this study .....	4
3. Relation to other disciplines.....	5
3.1 Relation to Arabic linguistics.....	5
3.2 The contribution of turcological studies.....	6
3.3 General Linguistics .....	8
3.3.1 Phonology and phonetics .....	8
3.3.2 Syntax: A functional or a formal approach? .....	9
4. Translation of terminology.....	12
5. Notes on transcription.....	13

#### II. The sources

Introduction .....	15
1. The sources .....	15
1.1 <i>Dīwān luġāt at-turk</i> .....	16
1.2 <i>Kitāb ḥilya al-insān wa-ḥalaba al-lisān</i> .....	20
1.3 <i>Kitāb al-ʿidrāk li-lisān al-ʿatrāk</i> .....	24
1.4 <i>Kitāb at-tuḥfa az-zakiyya fī l-luġa at-turkiyya</i> .....	28
1.5 <i>al-Qawānīn al-kulliyya li-dabṭ al-luġa at-turkiyya</i> .....	30
1.6 <i>Kitāb tarġumān turkī wa-ʿarabī wa-muġalī</i> .....	32
1.7 <i>aš-Šuḍūr ad-ḍahabiyya</i> .....	33
1.8 <i>Kitāb bulġa al-muštāq fī luġa at-turk wa-l-qifṣāq</i> .....	39
1.9 <i>ad-Durra al-muḍīʿa fī l-luġa at-turkiyya</i> .....	40
1.10 An anonymous work in Veli ed-Dīn 2896 .....	41
2. The sources and their primary material.....	43
2.1 Direct evidence: references.....	43
2.1.1 Turkic primary material.....	44
2.1.2 Arabic primary sources.....	46

2.2 Indirect evidence: internal structure .....	47
2.2.1 <i>ʿIdrāk</i> and <i>Tuhfa</i> .....	48
2.2.2 <i>Ḥilya</i> , <i>Qawānīn</i> , <i>Tarğumān</i> , MG and <i>Šudūr</i> .....	49
2.2.3 <i>Dīwān luğāt at-turk</i> .....	50
3. Conclusions .....	51
Appendix to Chapter II.....	55
III. Perceptions of phonological and phonetic features of Turkic	
Introduction .....	67
1. Arabic thinking on phonetics and morphonology .....	68
1.1 The Arabic consonant system .....	69
1.1.1 Classification: velarisation and palatalisation .....	71
1.1.2 The ‘covered consonants’ .....	72
1.1.3 Effects on other consonants.....	73
1.1.4 <i>r</i> and <i>l</i> .....	73
1.2 Allophones .....	76
1.2.1 Basic and secondary consonants.....	76
1.2.2 Descriptive terminology used for allophones.....	78
1.3 Substitution, transformation and assimilation .....	80
1.3.1 Substitution ( <i>ʿibdāl</i> ).....	80
1.3.2 Transformation ( <i>qalb</i> ).....	80
1.3.3 Assimilation ( <i>ʿidğām</i> ) .....	81
1.3.4 Orthographical representation of changes .....	82
1.4 The description of vowels.....	82
1.4.1 Basic vowels .....	82
1.4.2 Allophonical realisations of vowels.....	83
1.5 Long and short vowels.....	84
1.5.1 Lengthening and reduction: the status of the glides .....	85
1.5.2 A concept of vowel harmony.....	87
2. Turkic phonemes .....	88
2.1 The consonants.....	89
2.2 The vowel system .....	90
2.2.1 Front and back vowels.....	90
2.2.3 Labial harmony.....	91
3. Turkic phonemes as described by the sources.....	92
3.1 Vowels: front and back .....	93
3.1.1 The opposition front vs. back.....	93
3.1.2 Indicating velarisation and palatalisation .....	95
3.1.3 Labelling of neutral consonants .....	98
3.1.4 Velarised consonants vs. their unlabelled counterparts ....	99
3.1.5 Velarisation in <i>Ḥilya</i> and <i>Dīwān</i> .....	101



3.1.6 Palatality and palatalisation.....	105
3.1.7 Summary .....	109
3.2 Vowel harmony.....	110
3.2.1 Twofold vowel harmony.....	111
3.2.2 Fourfold vowel harmony.....	112
3.2.3 Terms for indicating vowel harmony .....	114
3.2.4 Summary .....	115
3.3 The distribution of velar and palatal suffixes as a phenomenon .....	115
3.3.1 Palatal and velar suffixes.....	116
3.3.2 <i>Dīwān</i> .....	117
3.3.3 <i>Tarğumān</i> .....	118
3.3.4 <i>Ḥilya</i> .....	119
3.3.5 Summary .....	121
3.4 Phonetic descriptions of rounded vowels.....	121
3.4.1 [o] .....	121
3.4.2 [ö] .....	122
3.4.3 Excursus: confusing labels—the case of <i>z</i> .....	123
3.4.4 Ibn al-Muhannā on rounded vowels .....	125
3.4.5 Summary .....	127
3.5 The status of the glides .....	128
3.5.1 Glides indicate prosodic lengthening.....	129
3.5.2 <i>Tuḥfa</i> : plene spelling as default.....	130
3.5.3 The use of glides in <i>Dīwān</i> .....	130
3.5.4 The functions of the glides in <i>Ḥilya</i> .....	132
3.6 Consonants.....	134
3.6.1 The number and status of consonantal phonemes.....	135
3.6.2 Descriptions of non-Arabic phonemes.....	141
3.6.3 Consonant assimilation.....	150
4. Conclusions .....	158
Appendix to Chapter III .....	160
IV. Cases and markers	
Introduction .....	163
Part A 1. <i>ʿalāma</i> and <i>ʔiʿrāb</i> .....	163
1.1 Markers without a governor .....	164
1.2 Markers with a governor: <i>ʔiʿrāb</i> .....	166
1.2.1 The assignment of declensional endings .....	166
1.2.2 Governance.....	169
1.2.3 <i>ʔiʿrāb</i> as an abstract notion .....	170
2. The functions of <i>ʔiʿrāb</i> .....	172

2.1	<sup>ʔ</sup> <i>rāb</i> and the markers of syntactic position .....	173
2.2	Redundancy of <sup>ʔ</sup> <i>rāb</i> ? .....	178
2.3	Summary .....	179
3.	Turkic case endings .....	180
3.1	Turkic case endings and their functions.....	180
3.2	Typological characteristics of Turkic case .....	181
3.3	Exception to the rule.....	185
3.4	Case markers in front and back words.....	185
4.	Typological differences and similarities.....	186
4.1	Semantic typology: semantic versus syntactic case.....	186
4.2	Morphological typology: segmentability.....	187
4.3	Predictions as to the Arab grammarians' interpretation of Turkic case .....	188
Part B 5.	General terms for Turkic words and morphemes .....	189
5.1	<i>Kalima</i> .....	189
5.2	<i>Lafza</i> .....	190
5.3	Summary .....	191
6.	Synonymy between Arabic and Turkic: <i>fī</i> and <i>ḏā</i> .....	194
V.	The genitive case ( <i>ḡarr</i> ) .....	199
Introduction	.....	199
1.	Annexation and particles in Arabic.....	200
1.1	Annexation.....	200
1.2	The locative .....	201
2.	Turkic equivalents of Arabic particles .....	203
2.1	The case of <i>fī</i> .....	204
2.2	The case of <i>bi</i> .....	206
2.3	The case of <sup>ʔ</sup> <i>ilā</i> .....	210
2.3.1	<sup>ʔ</sup> <i>Ilā</i> meaning 'to' .....	210
2.3.2	<sup>ʔ</sup> <i>Ilā</i> meaning 'until' .....	211
2.3.3	Ibn al-Muḥannā on 'until' .....	212
2.3.4	Summary .....	214
2.4.	The possessive construction .....	214
2.4.1	<i>Li</i> and the possessive construction.....	215
2.4.2	The possessive construction.....	215
2.4.3	The possessive ending .....	217
2.4.4	The intermediate <i>s</i> : various opinions .....	220
2.4.5	The word sequence of the possessive construction .....	223
2.4.6	Various interpretations of <i>nij</i> .....	224
2.4.7	Summary .....	225
2.5	The locative .....	227

2.5.1 Two types of locatives.....	227
2.5.2 Later innovations in the concept.....	229
2.5.3 Summary .....	233
3. Conclusions .....	234
VI. The accusative case ( <i>naṣb</i> )	
Introduction .....	237
1. Arab grammarians on transitivity vs. intransitivity.....	237
1.1 Different types of government and direct objects.....	239
1.1.1 Two types of objects .....	241
1.1.2 The strengthening particle <i>li</i> .....	242
1.2 Adding transitivity to the verbal stem.....	242
1.3 Three types of bitransitive verbs .....	244
2. Objects and transitivity in Turkic .....	249
2.1 The accusative case .....	249
2.2 The dative case .....	250
2.3 Verbal forms: Konverbs.....	251
2.4 Denominal and causative verbs.....	253
2.5 Causative verbs in syntax .....	254
3. Arab grammarians on Turkic object constructions.....	256
3.1 The status of the Turkic marker of the accusative .....	256
3.1.1 Morphological analyses of <i>nī</i> .....	258
3.1.2 Attachment of the accusative to the possessive ending...	261
3.2 Transitivity by means of a <i>ḥarf ḡarr</i> .....	262
3.2.1 The status of <i>ḡā/kā</i> .....	263
3.2.2 Two analyses of the verb and its object.....	264
3.2.3 The object of reason .....	266
3.2.4 Structurally deleted particles.....	267
3.3 Transitivity via internal change, and bitransitive verbs .....	268
3.3.1 Opinions on the denominal suffix <i>lā</i> .....	268
3.3.2 The first category of bitransitive verbs .....	274
3.3.3 The second category of bitransitive verbs.....	277
3.3.4 Objects without apparent marker .....	278
3.3.5 Tritransitive verbs .....	280
4. Conclusions .....	282
4.1 Analyses of different types of objects.....	282
4.2 Innovations in terminology .....	283
VII. Conclusions	
Introduction .....	285
1. Turkic and Arabic .....	286

1.1 Case and segmentability.....	286
1.2 Syntactic case and $\text{ʔi}^{\text{ʕrāb}}$ .....	287
1.3 Syntactic case as the base of the concept of $\text{ʔi}^{\text{ʕrāb}}$ .....	287
1.4 Syntactic case and underlying structure .....	288
1.5 Semantic case and governance.....	290
2. Concepts.....	290
2.1 Adoption of other concepts .....	291
2.2 Development of new concepts .....	291
2.3 A transferred concept of language varieties .....	292
3. The compilation of Turkic grammars .....	293
3.1 The readership .....	293
3.2 The interest in Turkic.....	294
PART TWO	
Translation of <i>Kitāb al-ʔidrāk li-Lisān al-ʔAtrāk</i> .....	297
Introduction .....	299
Translation	
Introduction by ʔAbū Ḥayyān.....	305
Morphology.....	307
Syntax .....	328
Appendix one: verbal paradigms and suffixes.....	383
Appendix two: Turkic word list .....	391
Abbreviations.....	407
Bibliography .....	408
Indices.....	419

## PREFACE

This study discusses the way Arabic grammarians analyse Turkic languages, or the application of the Arabic linguistic model and concepts to a foreign language. The first part is a thorough revision of my Ph.D. dissertation, which was financed with a four-year's grant from the Netherlands' Organisation for Scientific Research (NWO), and which I defended at the University of Nijmegen in 1995. Part Two contains a translation of one of the most important sources, i.e. 'Abū Ḥayyān al-'Andalusī's *Kitāb al-'Idrāk li-Lisān al-'Atrāk*.

The subject and the outline of the present study are discussed in Chapter One. Chapter Two contains a sketch of the sources, their contents and internal arrangement and references to the most important relevant publications. In this chapter statements are made about the author and the Turkic language which is the subject of the description, and presents my assumptions in regard to mutual relations of the sources, and the way they are related to their basic material.

Chapter Three gives an account of the way morpho(no)logical features of Turkic are discussed. Most of the sources contain a short section with indications regarding the 'correct' pronunciation of Turkic. It shall be seen how these descriptions are related to Arabic phonetic and phonologic terminology. Moreover, it will be shown that in many cases the remarks and labels that are usually understood as referring to the phonetic qualities of Turkic words are intended as instruments to determine which type of suffixes the verbal stem takes, i.e., suffixes with either 'velar' or 'palatal' consonants.

Chapter Four, Cases and Markers, is intended as an introductory chapter to Chapters Five and Six. It discusses the Arabic concept of case and declension (*'i'ṣrāb*) and the possible consequences of the application of this concept to Turkic languages. My assumption is that the Arabic analytical method of dividing speech into separate elements could, to some extent, be suitable for a segmentable language like Turkic. The application of the concept of *'i'ṣrāb* to Turkic is the main theme of Chapters Five and Six.

Chapter Four gives a preliminary study of the ways to express synonymy between Arabic and Turkic on different levels. Chapter Five discusses how various Arabic constructions that involve a genitive case

(*ğarr*) were translated and analysed into Turkic; it deals with the Turkic equivalents of Arabic prepositional and possessive constructions.

Chapter Six treats instances in which in Arabic the accusative case is used. Unlike Arabic, objects in Turkic may be marked with several types of markers. In some instances there is no marker at all, in others it is not the accusative case but the dative case that is used. This chapter analyses how Arabic grammarians dealt with these features of Turkic. Finally, Chapter Seven summarises the findings of the research.

It is impossible to write a study like this all by oneself, especially if one is still in the process of forming one's own scholarly concepts and opinions, and apart from the scholarly feedback one also needs moral support. Em. Prof. Dr Barbara Flemming, Dr Everhard Ditters and Prof. Dr Erik-Jan Zürcher were involved in this study when it was still a Ph. D. project; Dr James Kelly kindly sent me copies of microfilms in his possession that were very important for my research. I am very much indebted to Mr Ane Nauta, Mr Hans Nugteren and Ms Marti Roos who provided much of the turcological feedback which was necessary for this book. I felt inspired by discussions with Michel Limpens on Arabic linguistics, and the fine atmosphere among the colleagues at TCMO, Nijmegen.

Prof. Dr Kees Versteegh's enthusiasm for, and thorough knowledge of the Arabic linguistic tradition induced me in the first place to engage in this fascinating subject. Later on, as a very inspiring supervisor and mentor, he carefully guided my research activities which culminated in the completion of my Ph. D. dissertation. I am very grateful to him for all the time and energy he has invested in my formation as a scholar. A special word of gratitude is due to Prof. Dr Rafael Talmon, who not only most cordially hosted me as a post-doc researcher at the Department of Arabic of the University of Haifa, but also gave me ample opportunity to work on the present book, for which I feel much indebted. I wish to thank the anonymous reader for his elaborate and constructive comments to an earlier version of the manuscript, and publishing house Brill for accepting it in their series of *Studies in Semitic Languages and Linguistics*.

In the period I was preparing my Ph.D. dissertation, my friends Nanneke, Turan & Zöhre, Karin, Mark & Madeleine were always there when I most needed them. My brothers and uncles and aunts supported me morally when we all went through very difficult days, thus giving extra dimensions to our family ties.

As fate wants it, I found myself separated from my beloved wife Zifa and our daughters Janel and Rianne both while working on my Ph.D. dissertation and the present revision. Despite the distance that separated us I felt a magic inspiration radiate from them which has never ceased to reach me.





# PART ONE

ARABIC GRAMMARS OF TURKIC  
THE ARABIC LINGUISTIC MODEL  
APPLIED TO FOREIGN LANGUAGES



CHAPTER ONE  
SUBJECT AND OUTLINE

INTRODUCTION

The subject of the present study is the method used by Arab grammarians to describe Turkic languages. I shall use concepts from traditional Western grammar to describe how Arabic grammarians applied their grammatical system to a language other than Arabic. Here I outline the subject of this study and the way I intend to deal with it.

1. GENERAL OBSERVATIONS IN REGARD TO  
THE SUBJECT OF THIS STUDY

This study deals with the application of a foreign linguistic model to the description of language. In the course of history, many languages have been described with a linguistic model that had been developed on the base of another, even a typologically very different language. In this way, the Greek model formed the basis for a description of Latin, which, in its turn, served as the base for the description of many languages. With some major adaptations and alterations this model is still used as the main descriptive linguistic tool for people in the Western world. As examples one may refer to so-called missionaries' grammars of the languages of African and American peoples, set up according to the rules and concepts that their compilers knew from Greek and Latin grammar (cf. Auroux and Queixalos 1984). Notions and concepts originally inherent in the descriptive model were taken over and applied to the language in question in order to clarify its rules with the use of a familiar model. Similarly, the grammatical principles of the Greek/Latin tradition were, with some adaptations, applied by early orientalists to both Arabic and Turkish/Ottoman in order to elucidate the rules of these languages to learners and students in the West. As a result, even the oldest Western grammars of Arabic and Turkish / Ottoman do not differ significantly from modern manuals.

There cannot be such a thing as one ultimate descriptive model for all languages. Apart from advantages, each model will have its short-

comings. Ideally, the advantages and shortcomings of several descriptive models should be analysed objectively. In practice, however, such a comparison is not an easy task. One has to understand fully the notions and concepts of all models involved, in addition to having a thorough knowledge of the language that is the subject of description. In this respect, it is obviously wide of the mark to assume that certain concepts of the model one is most familiar with are universal or basically obvious to anyone confronted with a certain language. It seems equally wrong to consider a certain categorisation of phonemes or elements as, objectively speaking, the most suitable.

Of course, there are many examples of this. If, for instance, the verbal form *ḍaraba* 'he hit' according to the Arabic model contains a hidden (*mustatir*) agent, this does not mean that it does so *objectively speaking*. In the Arabic model this is only assumed in order to facilitate the analysis of certain features related to word order in Arabic. According to the Greek/Latin model, for example, there is no implication of an agent included in this form whatsoever. Similarly, the interpretation of the Turkic ending *-dan* as an ablative is no better or worse than regarding it as a particle or a postposition.

To give yet another example, in Russian manuals Turkic languages usually have seven cases. This seventh case, the instrumental, consists of various versions of the word *bilā* 'with' (see for example Kazakh: SKJa 1962: 176ff). In Western grammatical practice, however, all Turkic languages have six cases only, and here one finds *bilā* ranged among the category of 'postpositions'. One could argue that the Russian analysis is 'wrong', because *bilā* is *not* a case ending. On the other hand, this analysis very well serves the needs of Russian students of Turkic languages, who are accustomed to the concept of an instrumental case. In all instances, thus, each explanation is satisfying for those who can place it in an overall linguistic concept, and the result of any analysis depends on the extent to which one is familiar with this type of analysis.<sup>1</sup>

Many traps lie in wait when giving a survey of a description of a language one is familiar with by means of an unfamiliar model. This is especially true if the model that is the object of analysis has not been

<sup>1</sup> The same holds for the application of the Arabic system of verbal patterns along with their associated meanings to modern Arabic languages, e.g. Egyptian. Although the patterns may show a resemblance, the meanings associated with them may differ (the Vth verbal pattern, /tafa<sup>cc</sup>ala/, for example, frequently used to denote a reflexive action in Classical grammar, often denotes a passive in modern Arabic languages). Furthermore, new patterns have developed in these modern Arabic languages, which do not exist in Classical grammar.

fully adapted to the language that is being described. In such a case one would compare his own fully developed method with a partially undeveloped system; one that is as yet incapable of giving a satisfying analysis of the new language's features. In this respect one could also compare a modern description of Turkish by, e.g., Lewis (1984 [1967]), with one of the ancient eighteenth century Western grammars of Ottoman.

Although both descriptions are based on the same principles, modern turcology has developed an innovative terminology derived from existing concepts (e.g., the terms 'aorist' and 'gerund' stand in original Greek/Latin terminology for similar, but different notions, and in the *Fundamenta* the new term 'Konverb' is proposed to replace 'gerund') in order to match certain features of Turkish. In the study of linguistic concepts the terminology is only one aspect.

If one were to base a study of the feasibility of describing Turkic with the Western model solely on ancient grammars of Ottoman, the conclusion would be obvious: the model is not particularly adequate for such a description. But, in doing so, one would disregard the possibility that at a later stage the same model could yield a more adequate description. In this sense, it is important to note that in regard to the descriptions of Turkic with the Arabic model, the grammarians, too, probably stood at the beginning of a tradition in which certain unfamiliar concepts had not yet been thoroughly worked out.<sup>2</sup>

Another trap is the possibility that one could find concepts that are apparently similar to concepts in his own system, and attribute them in this way to the second descriptive model. An example of this is the attribution of the concept of, for example, 'preposition' to Arabic grammatical theory, although the mere fact that Arabic linguistics recognises a group of elements that resemble in their syntactical posi-

<sup>2</sup> In this respect it is perhaps interesting to refer to Kerslake's (1994) analysis of two 19th century Ottoman grammars of Turkish. In her article Kerslake takes Western concepts of case, mood, and certain specific verbal endings like gerunds in their special context for Turkic linguistics as starting points for her analysis. Although she recognises the fact that both grammars were in essence set up according to the principles of Arabic linguistic theory, her article reflects a feeling of dissatisfaction with the way the grammar of Turkish is elucidated. Typical of this attitude is the following passage: "The corresponding discussion in the *Mikyās* is much more ambitious, but basically misguided. In one of the most tortuous, opaque passages of the book, Fevzi Efendi struggles desperately to force Turkish sentence structure into an Arabic straitjacket" (158). In this context the expression 'basically misguided' is especially striking, for it seems to convey the opinion that, whatever the efforts of the grammarians, it is *per se* impossible to give an accurate description of Ottoman using the Arabic linguistic model.

tions and effects the class of prepositions in the sense of Western grammar does not mean that the two concepts are essentially the same in all aspects.

A different issue is whether it is legitimate to call those elements prepositions, or to consider certain verbs, such as *kāna*, copula. I think that it is legitimate to do so, if it helps understanding aspects of Arabic, but one should of course not argue that Arabic theory had the same concept of preposition or copula.<sup>3</sup>

## 2. THE SUBJECT OF THIS STUDY

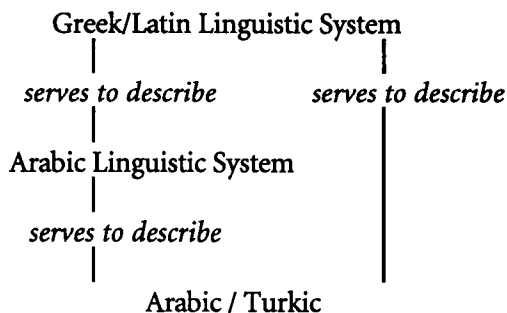
Usually studies of the Arabic linguistic system concern themselves — quite legitimately, of course — with the description of the Arabic language by the Arabic grammarians. The metalanguage used in these studies is based on the traditional Greek/Latin linguistic system. In this sense they deal with two descriptive models and one language that is subject of both descriptions.

The subject of the present study is to give an insight into the way Arabic grammarians applied their model to Turkic. In order to accomplish this task, two steps are required. First, some aspects of Arabic and Arabic terminology must be described within the frame of the traditional Western grammatical system. Second, it is necessary to explain in 'Western' terms the grammatical features of the language that is described by the Arabic grammarians. Only then is it possible to give a description of the way Arabic grammarians approached Turkic languages.

Schematically the subject of the present study can be reflected as follows:

---

<sup>3</sup> Here we may refer to the translation of the Arabic term *istiqbāl* (e.g. MS 366,16) with 'aorist' instead of 'future tense' in Dankoff and Kelly's translation (1982-5) of *Dīwān Luġāt at-Turk*. The term 'aorist' is a turcological term for the verbal ending -Ir, and therefore a direct interpretation of the Turkic material rather than a translation of the term *istiqbāl* (or its synonym *ġābir*) (This is recognised by Dankoff and Kelly 1985 III: 313). The term *istiqbāl* in *Dīwān* alternates with *ġābir* (MS 18,14) — Dankoff and Kelly's emendation for 'ābir 'past tense' is probably correct; cf. Versteegh 1993:24; also Biesterfeldt 1990; Talmon 1997]).



It follows from the discussion in the previous section that the fact that I have chosen the Western grammatical system as an instrument to describe Arabic grammatical theory, Arabic, and Turkic languages does not imply that I consider it the best or most suitable model for such a description. The reason for this choice is merely the fact that the meta-language and the concepts of the Greek/Latin system are familiar both to the reader and myself. As a matter of fact, a similar study could be carried out by putting another linguistic system in the place of the Greek/Latin model.

### 3. RELATION TO OTHER DISCIPLINES

Two disciplines are directly involved in the present study — i.e. the study of the Arabic grammatical theory and, to some extent, Turkic linguistics. Furthermore, its results may be also be of interest from the perspective of general linguistics. I propose to sketch out below the importance of these disciplines in regard to this study.

#### 3.1 *Relation to Arabic linguistics*

The relationship of the present study and Arabic linguistics is obvious. The descriptions of Turkic are based on Arabic linguistics and stand firmly in this tradition. However, since this study is an analysis of the application of Arabic concepts to Turkic languages, there will be relatively little possibility for a discussion of details. Moreover, the sources themselves seem to stand quite isolated within Arabic linguistics and there are no traces of discussion of certain topics related to Turkic grammar between the authors. Therefore, the aim of the study cannot be to give surveys of different opposing opinions: instead, it will be limited to general sketches of the theoretical background of certain

ideas, in order to understand the analyses the authors of our sources give of the Turkic data.

Since most of the sources — the exceptions being *Dīwān Luġāt at-Turk* (469/1077) and *Šudūr* (1028/1619) — were compiled in or about the 14th century, the discussion of subjects related to Arabic linguistics will be limited to the opinion of so-called ‘late grammarians’ in the Arabic linguistic tradition, with special interest in the views of ʿAbū Ḥayyān al-ʿAndalusī, the author of *Kitāb al-ʿIdrāk li-Lisān al-ʿAtrāk*, which will be one of the major sources for this study.

The study will point out how flexible the Arabic system is for a description of Turkic. In some instances the grammarians seem to get confused<sup>4</sup> by some unfamiliar aspects of Turkic, whereas in others they find apparent agreements with Arabic which they do not fail to interpret in a similar way. In Chapters Five and Six I intend to give an account of this based on the statements the Arabic grammarians make on declensional endings in Arabic and Turkic.

In his studies on Arabic linguistics, Owens (1988 and 1990) argues that Arabic grammatical theory is a type of dependency grammar. In a dependency grammar the elements of speech are hierarchically structured within a sentence and can govern each other. According to Arabic grammar the governed elements show by means of a set of markers (*ʿiʿrāb*) both the fact that they are governed and, further, by which type of governor. The results of this study will give more evidence for the assumption that the Arabic grammatical theory is a dependency grammar based on characteristics of Arabic itself. (Further discussion in Section 3.3.)

### 3.2 *The contribution of turcological studies*

As I have pointed out above, this study relates in the first place to Arabic linguistics. In view of the fact that it deals with Turkic as well, it is related to turcological research.

The interest of turcologists in regard to the sources used in this study has been concentrated on the compilation of the language material and the reconstruction of the languages described in the sources, rather than on their methodological context and the model with which the

<sup>4</sup> This ‘confusion’ is illustrated in Chapters Five and Six, in which I point out that, for example, the dative case ending *kā/ġā* is analysed in two ways. In the first place it is regarded as an equivalent to the Arabic particle (*ḥarf*) *ʿilā* ‘to’, and in the second place it is a ‘marker of the object’ (*ʿalāma al-mafʿūl*). To my opinion, this ‘confusion’ is not the result of being ‘basically misguided’ (see quotation from Kerslake [1994] in note 2 above).



language in question is described. This may be illustrated by statements of Telegdi, who, in his article on *Qawānīn* (1938:282), criticises the anonymous author for his erroneous categorisation of the material:

An einer... Stelle erfahren wir, dass ähnliche Werke schon vor dem seinen vorhanden waren... In diesen älteren Schriften mögen die irrigen Regeln und Beobachtungen über türkische Grammatik gestanden haben, die im *Qawānīn* mehrmals erwähnt und berichtet werden.

Although a generation later Dankoff and Kelly display quite a different approach in their thorough and valuable studies on Kāšgari's *Dīwān*, they, too, limit themselves to occasional references to Western studies on Arabic grammar.

In this study the analysis of the Turkic language material will be of secondary importance. Instead, the starting point is to consider the sources in the first place as documents of Arabic linguistic thinking, written by specialists, who had a profound insight into the rules of the Arabic language and Arabic linguistic theory. In spite of possible mistakes and, perhaps, an occasional case of imperfect knowledge of Turkic, there is no reason to doubt their scientific accuracy or their good intentions. They depended, like every scholar, on the reliability of their sources and their own intellectual capacities.

Within this framework I shall not attempt to verify all statements of the grammarians in regard to the features of the Turkic languages they describe in contemporary studies on Turkic languages, nor elaborate on questions concerning the type of language (Qipčaq-Oğuz),<sup>5</sup> the possible Turkic provenance of the authors, or engage in a discussion on specific features such as vowel length in Turkic. Likewise, apart from occasional references in Chapter Two, the historical context of this type of sources included in this study can only in a very general sense be the subject of our discussion. In regard to the Turkic language material, our principle is that it is basically sound, leaving the historical reconstruction to others.

In each chapter of this study the relevant aspects of Turkic languages will be analysed in a general sense, but based specifically on data provided by the sources. These analyses are meant to give non-turcologists an insight into the morphological and syntactic structure of the Turkic data. In this respect, all Turkic and Arabic examples alike will be followed by a word-by-word analysis. I shall concentrate on the descriptions of Turkic rather than on the Turkic data itself. In Chapter Three,

<sup>5</sup> For a discussion and a bibliography of Qipčaq and Oğuz manuscripts see Flemming (1977a and 1977b).

for example, I make some suggestions as to the interpretation of the labels for velarisation and palatalisation. The distribution of these labels can be explained with the aid of principles that were elaborated in Arabic linguistics. Chapter Three also deals with the question of why the Arabic grammarians regarded it as necessary to label Turkic words for either velarisation or palatalisation, and shows that the markers are put in in the first place for morphological and semantic reasons, rather than for purely phonetic purposes, and my interpretations are indications rather than attempts to give an exact phonetic reflection in each instance

I have opted for a rather basic transcription/transliteration of Turkic, which is sufficient for the description of morphological and syntactic features. This transcription system is based on the information given in the sources themselves, and remains close to the way the consonants and vowels are reflected in Arabic script. For example, the sources use the same grapheme for both [g] and [k]; they are occasionally distinguished with three diacritical dots.<sup>6</sup> In the basic transcription used in this study [k] is represented by **k**, and [g] by **ḡ**, respectively.

The limited scope of this study does not allow for discussions in regard to the respective places of the sources and the data they contain in other studies. References to philological works will be made as indications for further study to the reader, and will only occasionally be included in discussions in the present framework.

### 3.3 *General Linguistics*

Since two languages and two descriptive systems are involved in our study, it may also yields some results in regard to general linguistics. My main hypothesis is that some concepts of the Arabic linguistic theory are based on the perception of some features of Arabic itself, in particular their conception of case and declension. Furthermore, this study discusses the distinction between semantic and syntactic case which was formulated earlier for Russian and its results for Arabic and Turkic.

#### 3.3.1 Phonology and phonetics

Chapter Three deals with phonological and phonetic descriptions of Turkic as perceived by the Arab grammarians. It consists of two main parts, the first part discusses the vowels, the second deals with the con-

<sup>6</sup> This approach is similar to that of Devereux in his articles on Nawā'ī's *Muḥākama al-luġatayni* (1964 and 1965).

sonants. The discussion of the vowels is quite complicated, since in Arabic theory the quality of the vowel is to a large extent made dependent of the neighbouring consonants.

The main subject in the first part of this chapter is how the Arab grammarians distinguished between back and front vowels, and why they did so. The latter of these questions is of interest too, for what seem reasonable or obvious points, such as, e.g., vowel harmony, in modern western linguistic thinking might not have been so in the framework of Arabic theory.

In general my conclusion is that the Arab grammarians apply the phonetic and phonological concepts they had elaborated for Arabic, which in itself is not surprising. The range of 'standard' phonemes the Arab grammarians posit for Turkic include, apart from the regular Arabic consonantal phonemes, some allophones they find in non-standard pronunciations of Arabic. To this range they add a number of phonemes that they produced by elaborating on notions — such as velarisation — which they for Arabic applied in a very limited phonological context. Chapter Two further gives an interpretation of labels the Arab grammarians use for indicating velarisation and palatalisation of consonants. The Arab grammarians applied these labels in the same way they were used for Arabic, which has consequences for the phonetic interpretation of Turkic words that contain *r*, *l* — and, possibly, *z* — written in Arabic script. The principles the Arab grammarians give with regard to the pronunciation of words, in particular the distinction between front and back words, were probably not meant as an accurate describe Turkic phonemes, but rather intended as a set of criteria for the morphological problem of selecting the right verbal and nominal suffixes whose shape differs according to the phonological context.

Topics that relate to vowels, such as vowel harmony, are only marginally touched upon. The phonetic descriptions of vowels, such as [ö] and [o] are mainly given in terms of the consonantal context.

### 3.3.2 Syntax: A functional or a formal approach?

The Chapters Four, Five and Six deal with the question why five of the seven endings of Turkic case are not incorporated in the Arabic concept of case, whereas two others seem to fit their criteria. In order to give an impression of the direction which my argumentation takes in those chapters, I shall summarise the main hypotheses here.

It shall be seen that the Arab grammarians treat Turkic case endings in two ways. In the first place, the accusative is dealt with in more or less the same way as Arabic case. The Turkic accusative suffix is consid-

ered to have the same or a very similar function as its Arabic equivalent, i.e. a 'marker'. Second, Turkic genitive, dative, locative and ablative are interpreted as particles, i.e. governing elements. The only case that is not explicitly described is the nominative (which in Turkic takes zero ending and in Arabic *-u*; my hypothesis is that it is treated similar to Arabic nominative).

One could conceive of this approach as a functional one. This point of departure correlates quite naturally with the respective functions of the Turkic case endings, and appears to elude any association with Arabic case. One could assume, therefore, that the Arab grammarians took in account only the superficial functional resemblances between Turkic case and Arabic particles, considering the Arabic model merely partly applicable to Turkic.

The choice for a functional approach rather than a formal one, however, presupposes three conditions which, I believe, are not pertinent here. In the first place, it demands the availability of different approaches, paired to an awareness that it is at all possible to choose or shift between them. Secondly, it presupposes the possibility to see the formal aspects of grammar, i.e. the hierarchical relationships between the syntactic elements, detached from their functions. In the third place, and related to the former two conditions, it presupposes that certain key concepts, such as that of underlying structure and governance, which dominate Arabic linguistic thinking, for some reason should not apply to Turkic.

It is my contention that the approach of the Arab grammarians is not based on a free scholarly choice between a formal or a functional approach, but the consequence of their perception of certain features of the Arabic language which inevitably are incorporated in their concept of how a language should be analysed. In this respect I intend to show that the Arab grammarians considered their concepts basically universally applicable. In concrete terms this means that on theoretical level they posited the same hierarchical relationships of governance for the Turkic phrases as the ones they had worked out for Arabic.

An important lead in my hypothesis is the distinction between semantic and syntactic case and the typology of Turkic and Arabic case. In Western theory case covers both types of case. This broad concept not surprisingly matches the typological characteristics of Greek and Latin which have a mixture of semantic and syntactic case. From these two, semantic case contributes to the sentence's semantic load, whereas syntactic case only serves to indicate the function of a word in a sentence. More specifically, syntactic case only occurs if the appropriate

governor is also present in the phrase. Syntactic case may drop out due to prosodic or morphological reasons; it even can be posited on a theoretical level for languages that normally do not have case in surface structure, such as English. Semantic case, on the other hand, does not need a governor in order to appear. It only occurs in languages with case in surface structure and cannot be omitted without an inevitable distortion in the meaning of the sentence.

It makes therefore sense to assume that the traditional western theory does not distinguish between the two types of case because Greek and Latin case is of both types. Western theory, therefore, developed a rather broad concept of case.

Let us suppose that a given language only, or basically possesses syntactic case and other declensional endings that can be accounted for in a similar way. If scholars would develop a theory of case solely based on that language, their concept of case is likely to cover syntactic case only. If such a theory subsequently is applied to a language with semantic case, it would not recognise that as 'case'.

In this way many features of Arabic theory can be accounted for. As their theory is built upon the syntactic cases of Arabic, the Arab grammarians' concept only admits syntactic case. Arabic case is basically syntactic, and the most suitable way to account for syntactic case is by means of a theory in which governance plays a role. The Arabic theory of case (and verbal inflection) explains all occurrences of case, including the nominative, in terms of hierarchical relationships of governing elements, and case endings are basically conceived of as markers of governance. In essence, *ʾiʿrāb* is set up around a concept of declensional endings as a sort of syntactic case.

Quite naturally, the five semantic cases of Turkic (GEN, DAT, LOC and ABL) hardly match this particular concept of case. In most instances, though, their functions neatly agree with those of the Arabic 'particles', and they are assigned similar governing functions.

For these reasons, I do not think that the Arab grammarians had a functional rather than formal approach toward Turkic. This does not mean, though, that they never had to adapt their describing system when they applied it to Turkic. There is a number of instances in which they do, and three of them are discussed in this book. We shall see, for example, that issues such as whether a the Turkic equivalent of 'with' (*maʿa*) should be regarded as a noun or a particle, Turkic case + postposition, and the indirect object cannot entirely be solved within the Arabic concept. In these instances one could, perhaps, speak of an innovating and, in some respects, a functional approach.

## 4. TRANSLATION OF TERMINOLOGY

The translation of Arabic linguistic terminology should, like any translation, follow the original as closely as possible. In practice this is not always possible. There are two basic options. First, one may use terms already existing in Western grammar. The use of an existing term as a translation for notions and concepts from Arabic linguistics carries with it the danger, apart from being imprecise, of identifying the translation with the translated term, which may lead to confusion and misinterpretations (I have already touched upon this above). The advantage of this approach is that the translation immediately engenders a desired association with an existing concept. As long as the translating term is incorporated in an analytic context, the advantages will outweigh the disadvantages.

The other option, the introduction of new terms (such as, for example, 'operates on' for *ya'malu* [cf. Carter 1981]), has the advantage of being closer to the text, but the disadvantage of being more opaque. There is also a third option, i.e. refraining from a translation, giving a description instead. This option, however, is possible in a few instances only, e.g., a-inf for 'a-inflection', i.e. accusative or subjunctive mood, both of which end in *a* (Owens 1990).

In this study I have chosen the former option and adopt existing terms to express Arabic notions. In this way, I translate the Arabic term *ya'malu* as 'governs' and *zarf* as 'locative'. Further, I have chosen to translate *taqdīr* as 'underlying level', by which I mean to express similarity to, rather than equivalence with the term 'deep structure' in Generative Linguistics. I am, on the other hand, reluctant to use the Western term 'preposition' as a translation for *ḥarf ḡarr*, because this might entail the inclusion of *zurūf* 'locatives'. The terms *rafʿ*, *naṣb* and *ḡarr* are translated as 'nominative case', 'accusative case' and 'genitive case', respectively, as far as they are applied to nouns.

In this book the term 'Turkic' will be used frequently as an indiscriminate reference to the languages described in our sources. In this study it translates the term *turkiyya*, the term used in the sources for their particular variant of Turkic. As a term, Turkic comprises all Turkic languages, old and modern alike, covering both a long period in time and a large geographical area. The languages range from the eighth century Runic inscriptions, to modern languages such as, for example, Turkish, Saryġ Yuġur and Tuva. In regard to the sources used for this study, the term *turkiyya*, covers 11th century Ḥaqānī-Turkic, variants of Qipčaq and Oġuz, and also early 17th century Ottoman. (One could

assert that the modern term 'Turkic' comprises all Turkic languages and none in particular, and that as such 'Turkic' cannot be described.) In this sense the application of the term *turkiyya* in the sources is much like that of *'arabiyya*. This term refers to an ideal, in some ways perhaps an artificial language, i.e. Arabic or Classical Arabic, but nevertheless one single language which can be described and for which rules have been elaborated.

## 5. NOTES ON TRANSCRIPTION

For both Arabic and Turkic the following transcription is used:

ء	<i>hamza</i>	ʾ	ض	<i>dād</i>	ḍ	Non-standard
ب	<i>bāʾ</i>	b	ط	<i>ṭāʾ</i>	ṭ	consonants:
ت	<i>tāʾ</i>	t	ظ	<i>ẓāʾ</i>	ẓ	چ ğ
ث	<i>ṭāʾ</i>	ṭ	ع	<i>ʿayn</i>	ʿ	پ p
ج	<i>ǧīm</i>	ǧ	غ	<i>ǧayn</i>	ǧ	
ح	<i>ḥāʾ</i>	ḥ	ف	<i>fāʾ</i>	f	
خ	<i>ḫāʾ</i>	ḫ	ق	<i>qāf</i>	q	
د	<i>dāl</i>	d	ك	<i>kāf</i>	k	
ذ	<i>ḏāl</i>	ḏ	ل	<i>lām</i>	l	
ر	<i>rāʾ</i>	r	م	<i>mīm</i>	m	
ز	<i>zāy</i>	z	ن	<i>nūn</i>	n	
س	<i>sīn</i>	s	ه	<i>hāʾ</i>	h	
ش	<i>šīn</i>	š	و	<i>wāw</i>	w	
ص	<i>ṣād</i>	ṣ	ي	<i>yāʾ</i>	y	
			ا	<i>ʾalif</i>	"	

Vowels:

َ	<i>fatha</i>	a
ُ	<i>ḏamma</i>	u
ِ	<i>kasra</i>	i

The Arabic *hamza al-qaṭʿ* is reflected in the transcription, e.g., ʾiʿrāb; whereas the phonological *hamza (hamza al-waṣl)* is not, e.g., *al*, and

*ism*. The Arabic article *al-* assimilates in transcription with the so-called *ḥurūf šamsiyya* in both nouns and proper names, e.g., *az-Zamaḥṣārī*.

The sequence /uw/ is transcribed as *ū*, /iy/ as *ī*, and /a"/ as *ā*, respectively.

In Chapter Three Turkic words from the sources are always in bold-face, Arabic in italics. Other Turkic items are plain. Phonetic transcriptions are put between square brackets [ ]. Phonetic vowel length is occasionally indicated with a semicolon [:]. Morpho(no)logical reconstructions are put between slashes //. Capitals refer to (archi)phonemes with different phonetic realisations. For example, in Turkic languages the (archi)phoneme G can be realised as [ḡ] or [g], respectively.

For further details on transcription and the interpretation of the Arabic alphabet for Turkic, the reader is referred to Chapter Three.



## CHAPTER TWO

### THE SOURCES

#### INTRODUCTION

This chapter presents the ten sources upon which this study is based. In the first section I attempt to shed some light upon such matters as the date of compilation, author, size, content, the edition used in this study, other editions of the text, primary sources and the Turkic language that is described. In the second section I develop the data on the works that served as primary material for the sources. In this respect, I distinguish between a. direct evidence, i.e. references to both primary Turkic material and primary Arabic material, and b. indirect evidence, i.e. the internal structure of the sources. Finally, in the third section, I evaluate the findings of the preceding sections and decide which of the sources fit best within the framework of the present research. In this respect I point out that it is important to determine the tradition to which each source belongs, i.e. the Arabic grammatical or the lexicographical tradition. In order to be able to study the way Arabic grammarians described Turkic languages, it is essential that the works on which I have based this study belong to the same tradition.

#### 1. THE SOURCES

Arabic linguistic treatises on Turkic languages have long been the subject of Turcological studies. This type of study, however, is often associated with grammars and glossaries of Qipčaq-Turkic that date from *Mamlūk* times. Here I wish to approach the subject from a different angle: I intend to analyse the way grammarians who were educated in the Arabic linguistic tradition described Turkic languages. For this study I have examined ten treatises compiled at different times and under different circumstances, ranging from a large lexicon compiled in 11th century Bağdād down to a word list compiled in the Ottoman Empire at the beginning of the 17th century. The ten works which form the core of this study are:

- 1 *Dīwān Luġāt at-Turk*
  - 2 *Kitāb Ḥilya al-Insān wa-Ḥalaba al-Lisān*
  - 3 *Kitāb al-ʿIdrāk li-Lisān al-ʿAtrāk*
  - 4 *Kitāb at-Tuḥfa az-Zakiyya fi l-Luġa at-Turkiyya*
  - 5 *al-Qawānīn al-Kulliyya li-Dabṭ al-Luġa at-Turkiyya*
  - 6 *Kitāb Tarġumān Turki wa-ʿArabi wa-Muġalī*
  - 7 *aš-Šuḍūr ad-Dahabiyya wa-l-Qiṭaʿ al-ʿAḥmadiyya fi l-Luġa at-Turkiyya*
  - 8 *Kitāb Bulġa al-Muštāq fi Luġa at-Turk wa-l-Qifġāq*
  - 9 *ad-Durra al-Muḍīʿa fi l-Luġa at-Turkiyya*
  - 10 The Margin Grammar.
- The sources are described in greater detail below.

### 1.1 *Dīwān luġāt at-turk*

*Dīwān Luġāt at-Turk*, compiled by Maḥmūd bn al-Ḥusayn bn Muḥammad al-Kāšġarī between 464/1072 and 469/1077, is the oldest known and most famous dictionary of Turkic. The unique manuscript of *Dīwān*, a copy made from the autograph by Muḥammad bn ʿAbī Bakr (Damascus 664-5/1266), is kept in Istanbul in the Millet Genel Kütüphanesi (Fatih - Ali Emiri No. 4189). Apart from numerous lexical entries, it contains much ethnological and geographical information about the world as Kašġarī knew it and, moreover, it contains the oldest map known of Central Asia.

Of the numerous publications on *Dīwān* I mention only a few. *Dīwān* was first edited in print by Kilisli Muʿallim Rifʿat (Bilge) (1917-1919). Brockelmann based his *Mitteltürkischer Wortschatz* (1928) on this edition. In 1939-1941 Atalay published a translation into Turkish which was followed in 1942 by a barely legible facsimile edition of the MS. In the Soviet Union, Mutallibov published a translation into Uzbek (1960-1963). Clauson's *Etymological Dictionary of Pre-Thirteenth-Century Turkish* (1972; hereafter EDT) depends to a large extent on Rifʿat's edition of *Dīwān*. Between 1982 and 1985, Dankoff and Kelly edited an elaborate translation of the manuscript into English. Finally, in 1990 the Turkish Ministry of Culture published a new, full colour facsimile edition of the MS, which has contributed very much to the accessibility of the work. All references to *Dīwān* in the present study are based on this edition.

Kāšgarī was of Qaraḥānid descent, the ruling class in Central Asia and Transoxania at the time.<sup>1</sup> He was born in Barsġān<sup>2</sup>, near Issik-kul, but lived in Baġdād. Pritsak (1953), who attempted to reconstruct Kāšgarī's genealogy, concludes that the year of his birth would have been some time between 420/1029 and 429/1038. With regard to Kāšgarī's position between his Islamic education and Turkic roots we cite Dankoff and Kelly (1982 I:4):

Being a Turk of noble stock and a Muslim deeply educated in the Arabic humanities, he was able to understand both the native tribal tradition and the court Islamic tradition; his aim, indeed, was to interpret the former in terms of the latter... Since *Diwan* is dedicated to the caliph al-Muqtadī ([467-487 AH] 1075-94) [cf. *Dīwān* 3,10-17], its immediate purpose was perhaps to explain to the Abbasid court at Baghdad the language and customs of their Seljuk overlords.

In *Dīwān* (18,10) Kāšgarī refers to a work he wrote on Turkic grammar, entitled *Ġawāhir an-Naḥw fī luġāt at-Turk* which, unfortunately, has not been preserved. He tells us that before compiling *Dīwān* he had already treated morphological subjects like the plural (*ġam*<sup>3</sup>), the elative form (*tafđil*), and diminution (*tašġir*) in this work.

Kāšgarī's aim in writing *Dīwān* is clear enough; he intends to show that the Turkic languages deserve to be studied properly. He even compares Turkic and Arabic metaphorically to two racehorses that try to keep up with each other (cf. *Dīwān* 595).

Further Kāšgarī tells us he travelled among the Turkic peoples and learned their languages and dialects (*Dīwān* 3,2-3). *Dīwān*'s immense vocabulary has inspired the language reformers of the thirties and forties of the present century in the Turkish Republic in their search for new Turkish equivalents for Arabic and Persian loan-words.<sup>3</sup>

*Dīwān*'s internal structure resembles the structure of an Arabic lexicon rather than a grammar. Kāšgarī mentions al-Ḥalīl's famous dictionary *Kitāb al-ʿAyn*:<sup>4</sup>

<sup>1</sup> Cf. Hazai "Kāšgarī" in *EF*<sup>2</sup>.

<sup>2</sup> An indication for this may be the fact that he situated Barsġān and not Kāšgar in the middle of the famous map in *Dīwān* (22-23). At the same time Kāšgarī depicts the Turks of Barsġān in quite negative terms (cf. Dankoff 1972: 26).

<sup>3</sup> The respect for *Dīwān* has led many scholars, especially in Turkey, to suppose that *Dīwān* has been the basis for later Arabic grammars of Turkic languages (Cf. Ülkütaşır 1946: 28; Tomanov 1965). In fact, there is no evidence to sustain this assumption. I shall discuss this topic in Section 2 of this chapter.

<sup>4</sup> Al-Ḥalīl or Ibn 'Aḥmad ʿAbd ar-Raḥmān al-Ḥalīl al-Farāhīdī (d. 175/791) who is said to have compiled the first dictionary of Arabic (cf. Wild 1965; Talmon 1997). The entries in *Kitāb al-ʿAyn* are arranged according to the respective places of articulation of

“It was in my mind to arrange my book like al-Ḥalīl arranged *Kitāb al-‘Ayn...*”. (*wa-laqaḍ taḥālaḡa fī ṣadri ‘an ‘abniya l-kitāb kamā banā l-ḥalīl Kitāb al-‘Ayn...*, *Dīwān* 4,17).

Nevertheless, there is no doubt that Kāšġarī based the structure of his work on the Arabic lexicon *Dīwān al-‘Adab fī Bayān Luġa al-‘Arab* compiled by ‘Abū ‘Ibrāhīm ‘Ishāq bn ‘Ibrāhīm al-Fārābī (d. 350/961).<sup>5</sup> The influence of *Dīwān al-‘Adab* on *Dīwān Luġāt at-Turk* is so overwhelming that the impact of *Kitāb al-‘Ayn*, if any, must be considered as secondary. We discuss this point in the second section of this chapter.

*Dīwān Luġāt at-Turk* consists of eight parts, each of which bears the title ‘book’ (*kitāb*), the first six bear the same titles as their equivalent parts in Fārābī’s work. The titles of the eight ‘books’ are as follows: 1. *Kitāb al-hamz* (MS 29-91): words with initial *hamza* (i.e. the glottal stop /ʔ/); 2. *Kitāb as-sālim* (159-406): words having sound consonants; 3. *Kitāb al-Muḍā‘af* (406-445): words containing a geminate consonant or two identical consonants; 4. *Kitāb al-Miṭāl* (445-493): words having an initial weak consonant, i.e. *wāw* or *yāʔ*; 5. *Kitāb dawāt at-Talāṭa* (493-535): words having a medial weak consonant, i.e. *wāw*, *yāʔ* or *‘alif*; 6. *Kitāb dawāt al-‘Arba‘a* (535-599): words having a final weak consonant.<sup>6</sup> Finally, Kāšġarī adds two titles to the existing structure, namely 7. *Kitāb al-ġunna* (599-622): words with /ŋ/ or /nč/ (78,8: *al-ġunna al-ġimiyya*) and 8. *Kitāb al-ġam‘ bayn as-sākinayn* (622-638): words containing clusters of consonantal sounds that do not exist in Arabic.<sup>7</sup>

The titles of the chapters 4. *Kitāb al-miṭāl*, 5. *Kitāb dawāt at-talāṭa* and 6. *Kitāb dawāt al-‘arba‘a*, seem incomplete. The term *al-miṭāl* originally means ‘example’, ‘model’ or perhaps ‘pattern’. The term *dawāt* (plural of *dāt* fem. of *dū*—meaning both ‘self’ and ‘owner’) can theoretically be conceived as a term for ‘radicals’ in general but in itself none of these terms expresses anything with regard to weak consonants.

the consonants of the root pattern. According to this structure the *‘ayn* is the first consonant in the sequence, because it is pronounced in the back part of the throat.

<sup>5</sup> Bergsträsser (1921) was the first to point out that Kāšġarī had applied Fārābī’s system.

<sup>6</sup> In Fārābī’s work the sequence of the ‘books’ is: 1. *Kitāb as-sālim*; 2. *Kitāb al-muḍā‘af*; 3. *Kitāb al-miṭāl*; 4. *Kitāb dawāt at-talāṭa*; 5. *Kitāb dawāt al-‘arba‘a*; 6. *Kitāb al-mahmūz*.

<sup>7</sup> For a detailed discussion of each chapter see Dankoff & Kelly (1982: 31-40) and Kelly (1976).

Fārābī explains the meaning of these terms (*Dīwān al-ʿAdab* I 76,10<sup>8</sup>): *miṭāl*: *mā kānat fi ʿawwalīhi wāw ʿaw yā* “that of which the first radical is *wāw* or *yā*”; *ḍū at-ṭalāṭa*: “that of which the middle radical is a weak consonant” (*mā kānat al-ʿayn min-hu ḥarfan min ḥurūf al-madd wa-l-līn*) and, finally, *ḍū l-ʿarbaʿa*: “that of which the third radical is likewise” [viz. a weak consonant] (*mā kānat al-lām min-hu kaḍālika*). This calls for further explanation. The terms *ḍawāt at-ṭalāṭa* and *ḍawāt al-ʿarbaʿa* are Kūfan synonyms for the known terms *ʿaḡwaf* and *nāqiṣ*, respectively. *ḍawāt at-ṭalāṭa* is applied to the so-called ‘hollow’ verbs (*ʿaḡwaf*) in which the middle weak consonant is reduced to a short reflex of the original glide when the verb is conjugated for the first person singular. An example of this is the verb *qāma* ‘he stood up’ (>\**qawama*) - *qumtu* ‘I stood up’. The middle short vowel *u* is a reflex of a supposed *wāw* in the underlying structure (cf. Bohas 1982:430). The other term, *ḍawāt al-ʿarbaʿa*, is applied to verbs whose last radical is weak (*nāqiṣ* ‘lacking’). An example of this category is the verb *ḥakā* ‘he told’ - *ḥakaytu* ‘I told’.

Like *Dīwān al-ʿAdab*, each book—except book eight—in *Dīwān Luḡāt at-Turk* consists of two parts; the first part treats the nouns (*ʿasmāʾ*) and the second part the verbs (*ʿafʿāl*). The Turkic entries are further divided into uniradical, biradical, triradical words and so on, up to septiradical.<sup>9</sup> Within each book the lexical stock is arranged according to the Arabic system of consonant and vowel patterns, e.g. *faʿl*, *fuʿl*, *fiʿl*, *faʿal*, *faʿul*, *fuʿal* (in which the consonants *f*, *ʿ* and *l* stand for any consonant). Within each chapter, words are arranged by the final consonant. Within the group of words with the same final consonant, they are arranged according to the first and following consonants.

We can illustrate this with an example. Let us try to find, for example, the word **kumuš** (*kümüš*) *al-fiḍḍa* “silver”. **Kumuš** consists of three consonants and follows the pattern *fuʿul*. Its final consonant is š. Since its structure is not subject to irregularities, **kumuš** is most likely to be found in the chapter *Kitāb as-Sālim*, the sound words. Within *Kitāb as-Sālim*, the heading *ʿAbwāb al-mutaḥarrika al-ḥašw* (178,7) introduces words with a vocalised middle consonant (*ḥašw*), for which there are three main patterns: *faʿal*, *faʿul* and *faʿil*. I find **kumuš**, on 186,10 after the entry **kališ**. We shall deal with this in greater detail in Section 2.2.2.

<sup>8</sup> References in this book to *Dīwān al-ʿAdab* are based on ʿAḥmad Muḥṭār ʿUmar’s 1984 edition.

<sup>9</sup> For more details see Dankoff & Kelly (1982 I: 33).

In his work, Kāšgarī mentions as many as twenty Turkic peoples (20,16-21) that neighbour (*tuḡārī*) the Arabs (516,5). He states where each tribe lives and he adds a map of Central Asia to illustrate the information. Kāšgarī even discusses the marks the Oğuz used to brand their animals (40-41).<sup>10</sup>

As for the language variety, Kāšgarī seems to have had a preference for one particular dialect:

The language described is called 'Turkiyya' (here translated 'Turkic'); it is basically the dialect of the important Ćigil tribe, belonging to the Qaraghanid confederation.... In particular, Kāšgarī gives equal weight to two main dialect groups: that of the 'Turks' (including Ćigil, Tuxsi, etc.) and that of the 'Turkmān' or Oguz ('Ghuzziyya', often including the dialect of Qifĉāq, etc.)... (Dankoff & Kelly 1982 I: 4-5).

A reason for his preference for the Oğuz dialect may have been the fact that the Selḡuq sultan in Baḡdād at that time was of Oğuz descent. Further, Kāšgarī considered the language of people who remained unaffected by other languages (Persian) and who kept away from the cities to be the purest (*'afṣaḥ*, *Dīwān* 24,1-27).<sup>11</sup>

## 1.2 Kitāb ḥilya al-insān wa-ḥalaba al-lisān

*Ḥilya* was written by Ğamāl ad-Dīn Ibn al-Muhannā in the fourteenth century AD. It consists of three parts: Arabic-Persian, Arabic-Turkic and Arabic-Mongolian. It was first edited in 1900<sup>12</sup> by Melioranski and based on five different manuscripts, three of which were kept in Oxford (Bodleian Library), one in Berlin (Royal Library) and one in Paris (Bibliothèque Nationale), respectively. One of the manuscripts lacked the Persian, and a second the Mongolian part. Kilisli Muĉallim Rifĉat (Bilge) found a sixth manuscript at the Müze-i Hümayün Library in Istanbul which contains all three parts, and which he edited in 1921. All references in this book to the text of *Ḥilya* are based on the Rifĉat edition. In an article about the origins of Ibn al-Muhannā, the author of *Ḥilya*, Doerfer (1976) refers to Sergei Malov, who showed that

<sup>10</sup> Dankoff (1972) discusses the tribal organisation of the Turkic peoples based on data from *Dīwān*.

<sup>11</sup> For a discussion see Dankoff and Kelly (1982: I 20-21 and 44-48). Interesting to note is that Kāšgarī does not mention mingling with speakers of Arabic as a negative influence. This may be due to the fact that he did not consider the influence of Arabic as 'bad', or that he was not aware of such an influence.

<sup>12</sup> *Arab Filolog o Turetskom Jazyke*, St. Petersburg.

Rif'at's copy is the oldest and therefore the most original one.<sup>13</sup> According to Rif'at, the manuscripts Melioranski used for his edition were poorly legible, and contained no mention of the author; they even have different titles, like *Tarğumān Turkī wa-ʿArabī* and *Tarğumān Muğalī wa-ʿArabī*.<sup>14</sup>

Rif'at, in the preface to his edition of *Ḥilya* (p. *ḥāʿ*), suggests that Ibn al-Muhannā be identified as ʿAḥmad bn ʿAlī bn Ḥusayn bn ʿAlī bn Muhannā bn ʿAnba al-ʿAşğar, also known as Ğamāl al-Milla wa-d-Dīn, who died at Karmān in 825/1424 (cf. GAL II 199). This Ibn al-Muhannā was known as the author of a work entitled *ʿUmda aṭ-Ṭālib fi ʿAnsāb ʿĀl ʿAbī Ṭālib*.

With regard to Ibn al-Muhannā's origins, Doerfer (1976: 251) concludes that he must have originated from "dem Zentrum des alten Chorasān..."<sup>15</sup> rather than Azerbaijan. In the same article Doerfer summarises S. Širvani Yusif-Zia's earlier findings with regard to the period the work was compiled. Led by a remark in the text with regard to the existence of the Mongolian Empire (736/1336 - 758/1357) at the time of its compilation, Yusif-Zia came to the same conclusion as Melioranski, namely that *Ḥilya* must have been compiled in the 13th century or the first half of the 14th century.<sup>16</sup> Doerfer agrees with this assumption: "Nun hat aber die Mongolenherrschaft im vorderasiatischen Raum nur bis 1336 bestanden bzw., die letzten Ausläufer, die aber keineswegs mehr einen so «unwiderstehlichen» Eindruck machten, mitgerechnet, bis 1357" (Dorfer 1976:243).

There is another interesting point of discussion with regard to *Ḥilya* and its author, namely the fact that Ibn al-Muhannā knew the Uygur alphabet, at least two centuries after it had become obsolete for most western Turkic languages (cf. *Ḥilya* 72). Other sources from the same period do not mention the existence of the Uygur alphabet.<sup>17</sup> One wonders why Ibn al-Muhannā would have taken the trouble to learn it

<sup>13</sup> Doerfer (1976:244) refers to 'Ibn-Muchanna o tureckom jazyke' *Zapiski Kollegii Vostokovedov pri Aziatskom Muzeje*, III, Leningrad [St. Petersburg] 1928: 221-248.

<sup>14</sup> These titles suggest a resemblance with *Tarğumān Turkī wa-ʿAğamī wa-Muğalī*, the Houtsma MS, see Section 1.6.

<sup>15</sup> Another indication of Ibn Muhannā's origin may be the fact that the names of Iraq and Ḥurāsān occur in some exemplary sentences: "from Iraq to Ḥurāsān" (*min al-ʿIrāq ʿilā ḥurāsān*, 91,13); "Our chief went to Ḥurāsān" (*ʿamīrunā maşā ʿilā ḥurāsān*, 92,5).

<sup>16</sup> Doerfer refers to S. Širvani Yusif-Zia: "Nekotorye zamečanja otnositel'no Ibn-Muxanny i ego sočinenija" in: *Struktura i istorija tiurkskich jazykov* Moskva 1971. The passage itself is as follows: *ḥāḍihi d-dawla l-muğūliyya al-qāhira* "this strong Mongol Empire" (*Ḥilya* 186).

<sup>17</sup> The only other source that does is *Dīwān* which dates from the fifth/eleventh century.

and dedicate so much space to it. There may be two reasons for this. In the first place one might suppose that the work was written in an area in which the Uygur alphabet was still known. This may have been somewhere near Anatolia, where the Uygur alphabet remained in use until the sixteenth century (cf. Sertkaya 1973; 1975).<sup>18</sup> A second option is to suppose that Ibn al-Muhannā was a scholar, probably of Turkic descent, originating from Khurasān, who lived somewhere outside Anatolia, and who had learned the Uygur alphabet for scholarly reasons only.

*Hilya*'s Turkic part in Rif'at's edition comprises 120 pages (71-191). Ibn al-Muhannā divided his work into two parts (*naw'*): Part one *tamhīd* "introduction" (72), which also contains an elaborate phonetic introduction to the sounds of Turkic. It contains the following chapters: "declensions of the nouns" (*taṣrīf al-ʿasmā'*, 81); "particles" (*al-ʿadawāt al-ḥarfīyya*, 91); "verbs in the past tense" (*al-ʿafʿāl al-mādiya*, 98); and, finally, a list of Turkic words (102-116). Part two deals with the "simple meanings" (*al-musammayāt as-sādiġa*, 127). It is divided into twenty-four sections; an Arabic-Turkic word list with the entries arranged according to semantic categories. Of special interest are section 21, on history (185), and a short Turkic-Arabic word list (188-191).

Ibn al-Muhannā had used several primary sources for his work: in one instance he refers to the author of *Kitāb Nādir ad-Dahr ʿalā Luġa Malik al-ʿAṣr* (78,13). On two occasions Ibn al-Muhannā quotes Muḥammad bn Qays, the author of a work on Turkic dedicated to Ġalāl ad-Dīn Ḥwārezm-šāh (cf. 93,16-94,2 and 101,15), who was the last ruler of the Ḥwārezm dynasties (d. 628/1231).<sup>19</sup> Muḥammad bn Qays may be the author of either one of the three works mentioned in *Hilya* or, perhaps, of a fourth one, since we do not know the title of the work he wrote (this may have been *Tibyān al-Luġāt at-Turkī [sic!] ʿalā Lisān al-Qanqlī*; cf. Wittek 1928:174). Further, Ibn al-Muhannā mentions a work on Turkic entitled *Kitāb Yaḥyā al-Malik* (96,5). In his foreword to the edition of *Hilya* Rif'at notes that in Melioranski's earlier edition the title *Yaḥyā al-Malik* was read *Ḥilā al-Malik* instead. In our view, an argument in favour of reading *Ḥilā al-malik* instead of *Yaḥyā al-Malik* would be the fact that Ibn al-Muhannā called his work

<sup>18</sup> For a brief history of the use of the Uygur alphabet, see Clauson (1962:175ff). Sertkaya (1973:5) transcribes and translates some poems composed in the 16th century by Ottoman poets who wrote in Čaġatay Turkic in both the Uygur and the Arabic alphabets. See also Mansuroġlu 1954:256 and art. 'Turks' by Samoylovitch in EI<sup>1</sup> VIII 911.

<sup>19</sup> Cf. art. *Djālāl ad-Dīn Kh wārazm-shāh* in EI<sup>2</sup> (Boyle).



*Kitāb Ḥilya al-ʿInsān wa-Ḥalba al-Lisān*, literally “The jewel of man and the racehorse of the language”. In this sense *Ḥilya* can be understood as a reference to *Ḥilā*, since *ḥilya* ‘jewel’ is the singular of *ḥilā* ‘jewels’.

On 129,3 Ibn al-Muhannā refers to the author of a work on Turkic entitled *Tuḥfa al-Malik*<sup>20</sup> as saying: “The author of the book *Tuḥfa al-Malik* said: I asked the Turkic ‘ulamā’... but they did not answer anything” (*qāla ṣāhib kitāb tuḥfa al-malik sa’altu ‘ulamā’ at-Turk... fa-lam yuḡībū bi-ṣay*).<sup>21</sup> From the passage quoted above it is possible to deduce that, although there were scholars of Turkic descent in the region in which *Tuḥfa al-Malik* was compiled, they did not seem to occupy themselves very intensively with their language, at least not in the way the Arabic language was studied.

Further, Ibn al-Muhannā, when explaining the Turkic animal calendar (185,13), refers to *Kitāb Ṭabāʿi al-Ḥayawān*, compiled by Šaraf az-Zamān aṭ-Ṭabīb al-Marwazī (for which see Iskandar [1981]).

Ibn al-Muhannā refers to the Turkic language as *al-luḡa at-turkiyya* (cf. 72,12; 73,12; 91,12; 119,1,3) or *luḡa at-Turk* (118,9) but also quite frequently as *al-luḡa at-turkistāniyya* “the Turkestanian language” (73,16). Ibn al-Muhannā often describes the people whose language he describes as *ahl bilādinā* “the people of our country” or *ʿAtrākunā* “our Turks”. This expression may lead to the assumption that he was of Turkic origin himself. The esteem with which he writes about Turkic and the way he compares it with Arabic, much like Kāšġarī did before him, sustain this suggestion :

“know that its origin is directly from the people of Turkestan like Arabic [comes] from the Ḥiġāz” (*ʿIʿlam ʿanna l-luḡa t-turkiyya manšaʿuhā bi-l-ʿiṣāla ʿan ʿahli turkistān kamā l-ʿarabiyya ʿan al-ḥiġāz... Ḥilya 73,12*)

Similarly, in agreement with the term *turkistāniyya* which he uses for the Turkic language, Ibn al-Muhannā calls the Turks *Turkistaniyyūn* “Turkestanians” (cf. 78,17, 79,16 and 135,6). Although this seems very precise at first sight, it is in fact not easy to determine the geographical situation of *Turkistān*; its exact place seems to have been subject to changes related to the various perceptions people had of political and

<sup>20</sup> The exact transcription of *m-l-k* is unclear, since it was left unvocalised in the printed text. The use of the word *malik* in the title may refer to a Ḥwārazmi-ruler: “*Kh*<sup>w</sup>arazmi, *Ch*aznawid and *Saldj*ūq rulers called themselves *malik*, usually in combination with honorific adjectives, e.g. *al-kāmil*, *al-ṣāliḥ*, *al-ʿādil*” (Ayalon EI<sup>2</sup>, *malik*).

<sup>21</sup> The question referred to was why *ġil* and *kīl* were both used with the imperative form and why *ġil* sometimes means ‘possessor’ (not equivalent to the suffix *-liq* of equipment; cf. *Fundamenta* I).

social circumstances in history. Summarising Barthold's findings (in EI<sup>1</sup>), in the sixth century AD *Turkistān* was thought to begin immediately north of the Oxus. Later on, in the fourth/ninth century, when the Turks were driven far back to the north, Arab geographers situated *Turkistān* north of the area of Arab culture, i.e. north of the Sir Daryā.

### 1.3 Kitāb al-ʿidrāk li-lisān al-ʿatrāk

There are three extant manuscripts of *ʿIdrāk*. The first is preserved in the Beyazıt National Library (Istanbul), registered Veli ed-Dīn No. 2896. It consists of 132 pages, and bears the date Thursday, *Ramaḍān* 20th, 712/January 15th, 1313. In the Veli ed-Dīn MS, the Turkic words are not always vocalised and the reader is handicapped by many poorly legible glosses both in the margin and between the lines of the text.<sup>22</sup> The glosses of this MS were edited by İzbudak (1936) but unfortunately in transcription only. A second MS is at the Library of the University of Istanbul, registered Hālis Efendi No. 6597. This MS consists of 194 pages and was copied in the city of Laḍiqiyya by ʿAḥmad aš-Šāfiʿī on *Ġumādā l-ʿAwwal* 4th, 805/November 30th, 1402. A third manuscript is kept in the Dār al-Kutub Library at Cairo (cf. al-Ḥadiṭī 1967: 176ff and 552).<sup>23</sup>

*ʿIdrāk* was first edited in 1892 by Mustafa Beg, but based solely upon the Veli ed-Dīn MS. Mustafa Beg's edition was severely criticised by Huart (1892) and Bouvat (1906). In 1931, Ahmet Caferoğlu published a new edition of the text, this time based on both Istanbul MSS, along with a translation into Turkish. He dedicated much space to the word list, which he both transcribed and elaborated.

Much detailed information is available about the author of *ʿIdrāk*. It was compiled by the Andalusian grammarian and theologian ʿAbū Ḥayyān al-ʿAndalusī (654/1256 - 745/1345)<sup>24</sup> who lived and worked in Cairo. Before compiling *ʿIdrāk*, ʿAbū Ḥayyān had already devoted at least three other studies to Turkic entitled *Kitāb al-ʿafʿāl fī lisān at-Turk* (cf. *ʿIdrāk* 120,19), *Zahw al-mulk fī nahw at-Turk* and a book

<sup>22</sup> The text in the margins of *Idrāk* contains an additional grammar of a Turkic language, whose exact contents have not been published previously. Some features of this work are discussed in Section 1.10 and further throughout this book.

<sup>23</sup> Al-Ḥadiṭī (1967) describes the contents of *ʿIdrāk* based on the Cairo MS. For the present study and the translation in Part Two, I had access to the two Istanbul manuscripts.

<sup>24</sup> Cf. art. ʿAbū Ḥayyān in EI<sup>2</sup> by Glazer.

about the Turks: *Tuḥfa al-musk fi sira at-Turk*.<sup>25</sup> ʾAbū Ḥayyān must have been very interested in the phenomenon of language since he was one of the few Arabic grammarians ever to refer to private knowledge of other languages than Arabic, as he did in his *Manḥaḡ as-Sālik li-ʾAlfiyya Ibn Mālik* (Cf. *Manḥaḡ* 230). ʾAbū Ḥayyān also wrote treatises about Persian, Ethiopian, and Coptic (*Bašmūr*), but his fame rests mainly on a large number of treatises on linguistic and theological subjects, which were not limited to the Islamic sciences only but also comprised a study of the Torah.<sup>26</sup>

ʾAbū Ḥayyān's views on Arabic were well-known in his time; his reverence for the principles of Sībawayh, written down in his *Kitāb*, the oldest known grammar of Arabic and the ultimate reference for all Arabic grammarians, became proverbial among Arabic linguists. ʾAbū Ḥayyān was also known for his interest in languages other than Arabic, which was quite an exceptional phenomenon in his day. The following fragment from ʾIḍrāk is an example of his views on language in general, at the same time revealing the basis for the structure of both ʾIḍrāk and *Irtiṣāf*:

“The certainty of every language is obtained by knowledge of three things: the first is the meanings of all simple words, which is called ‘lexicology’. The second one is the rules of those simple words before their construction, which is called ‘morphology’. The third is the rules in case of a construction, which is called by those that speak about the Arabic language: ‘syntax’.” (*fa-ʾinna ḍabṭa kull luḡa yaḡṣilu bi-maʿrifati ṭalāṭat ʾašyāʾ ʾaḡaduhā madlūl mufradāt al-kalim wa-yusammā ʾilm al-luḡa, wa-t-tānī ʾaḡkāmu tilka l-mufradāt qabla t-tarkīb wa-yusammā ʾilm at-taṣrif wa-t-tālīṯ ʾaḡkāmuḥu ḡāla t-tarkīb wa-yusammā ʾinda l-mutakallimīn ʾalā l-lisān al-ʿarabī ʾilm an-naḡw, ʾIḍrāk 5,9-12.*)

ʾIḍrāk consists of two large parts, the first part being a large Turkic-Arabic word list and the second part a large grammatical section in which most aspects of a specific Turkic language are discussed.<sup>27</sup> In Caferoğlu's edition, the Turkic-Arabic word list consists of exactly 100 pages, whereas the grammatical section takes up pages 101-155.<sup>28</sup> See

<sup>25</sup> Cf. Caferoğlu's (1931: X) attribution of *ad-Durra al-muḍīʾa fi l-luḡa t-turkiyya* to ʾAbū Ḥayyān cannot be verified, since he does not mention the sources upon which it is based. However, no such work is mentioned in the Arabic biographical literature on ʾAbū Ḥayyān.

<sup>26</sup> Al-Ḥadiṯī (1967) lists a total of 65 works, most of which are lost. Famous are ʾAbū Ḥayyān's *Manḥaḡ as-sālik li-ʾAlfiyya Ibn Mālik* and his exegesis to the Qurʾān, *al-Baḡr al-muḡīṯ*. Also a work on the Torah is mentioned (68).

<sup>27</sup> *Dīwān* and ʾIḍrāk are the only ones of our sources to contain a Turkic-Arabic word list instead of the usual Arabic-Turkic lists.

<sup>28</sup> In the Veli ed-Dīn MS this is 2<sup>r</sup>16-32<sup>r</sup>.

also the outline of the contents of the sources in the appendix to this chapter (55 ff).

<sup>27</sup>Abū Ḥayyān conducted his own research, in which he was helped by native speakers (cf. 6). In his word list he mentions a number of times his master Šayḥ Faḥr ad-Dīn (cf. 14; 27; 57), probably <sup>28</sup>Abū Ṭāhir <sup>29</sup>Ismā‘īl bn <sup>30</sup>Aḥmad bn <sup>31</sup>Ismā‘īl bn Burtuq bn Buzḡuš al-Miṣrī (also Ġalāl ad-Dīn, d. 715/1315; in Šafadī [IX No. 4001] mentioned as an acquaintance of <sup>32</sup>Abū Ḥayyān; cf. also Suyūṭī I No. 906) from whom he learned the seven readings of the Qur‘ān (cf. Ḥadīṭī 1967:69). Šayḥ Faḥr ad-Dīn seems to have known Turkic, since he is always referred to in the context of the meaning of a Turkic word, e.g. at, <sup>33</sup>iškik ‘oar’ (*al-miğdāf*) “our master Faḥr ad-Dīn did not know this word” (*wa-lam ya‘rif šayḥunā Faḥr ad-Dīn hādīhi l-lafza*, *‘Idrāk* 14).

Apart from this living source, <sup>34</sup>Abū Ḥayyān used a written source compiled by a certain Baylik, to which he refers in both the grammatical section (*‘Idrāk* 133,13 and 146,11) and in numerous instances in the word-list.<sup>29</sup> Pritsak (1959:75) attempts to identify this Baylik:

...Besonders wichtig muß *al-‘Anwār al-muḏī‘a* des Kiptschaken ‘Alā ad-Dīn Beilik al-Qifḡāqī gewesen sein, das eine der Hauptquellen folgender, uns erhaltener späterer Werke war: <sup>35</sup>Abū Ḥaiyān (bei ihm heißt es schlicht *al-kitāb* “Buch”), *Tuḥfat az-zakiyya* und *Bulḡat al-muštāq*.<sup>30</sup> Der Verfasser ist m. E. mit dem bei Brockelmann (GAL 12, 652) genannten Beilik (Beilaq b. ‘Abdallāh al-Qibḡāq) identisch, der ca. 1250 bis nach 1282 in Kairo tätig gewesen war.<sup>31</sup>

Another possibility is Bīlik al-Ḥaznadār (d. 676/1277) who was known for his knowledge of foreign languages, apart from being a student of history and *ḥadīṭ* (cf. Haarmann 1988:99. This same Baylik is also mentioned in *Bulḡa* [see below Section 1.8]).

<sup>36</sup>Abū Ḥayyān refers once to *al-mawlā* Tāḡ ad-Dīn (*‘Idrāk* 136,4), probably Tāḡ ad-Dīn bn Maktūm who lived between 682/1284 and 749/1348 (cf. Ḥadīṭī 1967: 502).

The name *sanḡar*, which occurs in numerous exemplifying sentences throughout the work, may not be a random choice but rather intended as a reference to Sanḡar ad-Dawādārī (d. 699/1299-1300) who was famous for his knowledge of the science of tradition, and

<sup>29</sup> Cf. *‘Idrāk* 27; 32; 39; 46; 57; 62; 67; 69; 72; 73; 75; 82; 85; 86; 90; 92; 95; 98; 99.

<sup>30</sup> I could not find any reference to Baylik in *Tuḥfa*. See the respective remarks about *Tuḥfa* and *Bulḡa* in the following sections.

<sup>31</sup> For *Bulḡa*, see Zajaczkowski (1958: XI).

who was the superintendent of the Ibn Ṭulūn mosque (where—from 698/1298—ʿAbū Ḥayyān taught grammar; cf. Haarmann 1988:97).<sup>32</sup>

The Turkic language that ʿAbū Ḥayyān describes in *ʿIdrāk* is called *turkiyya*. ʿAbū Ḥayyān sometimes distinguishes it from *Qibḡāqiyya* ‘Qipčaq’ (cf. 105, 138, 147) and *Turkmāniyya*, here interpreted as Oğuz (on this see also Doerfer 1976:246) (cf. 105, 128, 129, 130, 132, 135, 144, 147, 154).<sup>33</sup> Under the entry *Turk* in *Idrāk* one finds the following definition: “a tribe of the non-Arabs; they are the people of this language” (*qabīla min al-ʿa ʿāḡim wa-hum ʿahl hādā l-lisān, Idrāk* 37). *Turkmān* is defined as follows: “a tribe of the non-Arabs too” (*qabīla min al-ʿa ʿāḡim ʿayḡan, 38*), as if he considers them a separate tribe. Apart from numerous references to both Oğuz (*Turkmānī*) and Qipčaq, he also refers to *Tatar* (63), *Bulḡār*<sup>34</sup> (9), *Tuḡsubā*<sup>35</sup> (15), *Čapnī* (41),<sup>36</sup> “the Ḥwarezm language” (*luḡa ḥwārizmiyya, 91*), and finally, to “the language of *Turkistān*” (*luḡa Turkistān, 26*), which is, of course, a rather vague indication (see remarks in Section 1.2). The *Uyḡur* (37; 67) are described as a people living in *Turkistān* and so is the tribe of the *Bulḡār* (9). A characteristic of the speech of this tribe seems to have been the change of *y* into *ḡ*. An example of this is ʿ*adaq* ‘foot’ instead of more common ʿ*ayaq* and further “ʿ*uyi-dī* ‘he slept’ and the change of the *y* for a *ḡ* is a Turkestanian variant. They say ʿ*uḡidi*.” (ʿ*uyidi nāma wa-ʿibḡāl al-yā ʿdālan luḡa Turkistāniyya qālū ʿuḡidi, Idrāk* 26).

Apart from these references to Turkic peoples, earlier research on the language material of *ʿIdrāk* has indicated that it deals with a mixture of Oğuz and Qipčaq (on this see also Flemming 1977a). There are indications that the language in *ʿIdrāk* is close to the Western-Qipčaq

<sup>32</sup> Another possibility is that the name Saḡar refers to the Salḡūq (Oğuz) ruler Saḡar bn Mālikšāh. Saḡar governed Ḥurāsān and the north eastern provinces of the Selḡūq Empire between 512/1118 and 552/1157 (cf. E<sup>1</sup> art. *Saljūq*). The occurrence of the name Saḡar in *ʿIdrāk*, therefore, may be an indication of Oğuz influence during its compilation. (See also Part Two, Translation n. 37). I thank Dr Erica Gilson for drawing my attention to the possibility that this name probably was not a random choice.

<sup>33</sup> In his word list to *ʿIdrāk* (29), ʿAbū Ḥayyān refers to a small Qipčaq tribe or clan *barlī qabīla min al-qibḡāq* “a tribe of the Qipčaq”.

<sup>34</sup> Cf. art. ‘Bulḡār’ in E<sup>2</sup> by Hrbek.

<sup>35</sup> The ethnonym *Tuḡsubā* may be interpreted as *toquz opa* ‘nine villages’ and hence as a reference to a conglomerate of nine different tribes, perhaps Oğuz, since it is an Oğuz word (*Dīwān* MS 55,17). I thank Prof. Dr Talāt Tekin for this suggestion. Kudayberdy-uli (1990:71) mentions a Qipčaq tribe called *toksaba* in works of the Arab historiographers ʿAmīr ad-Dīn and Ibn Ḥaldūn. (I checked Ibn Ḥaldūn’s *Muqaddima* on this but could not find this reference.)

<sup>36</sup> “Tribe from the Turks” (*qabīla min at-turk*). In *Dīwān* (MS 41,2; also Dankoff and Kelly I 102) listed as a clan of the Oğuz.

languages (such as, e.g., Karaim, Karačay-Balkhar), but especially Crimean-Tatar, which I shall point out here briefly.

In the first place the Qipčaq language in *ʿIdrāk* does not show the typical ğ-/ž- instead of y-, like Kazakh, Karakalpak, Nogai and certain Tatar dialects (Berta 1989). This phenomenon is described by Kāšġarī (MS 26,4) for Oġuz [sic]/Qipčaq tribes (e.g. ġiŋġā for yinġā ‘pearl’). This implies that the phenomenon of initial y- < ğ-/ž- was already existent in the 11th century, about two centuries before *ʿIdrāk*, with which the possibility that it was due to a later development is ruled out. Secondly, the ending *-mayin* ‘without ...ing’ (*ʿIdrāk* 138,12) seems to survive in Karaimian (dialects of Troki and Halicz) and Karačay-Balkhar only (*Fundamenta* I 335 and 362; also Musaev 1964, 22, 302). In the third place, the ending *-kinġā/-ġinġā* (*Idrāk* 150-1) survives in Qipčaq languages (cf. *Fundamenta* I). This form is especially prevalent in Karaim GInčA (cf. Musaev, 1964, 301), whereas other Turkic languages have *-günce/-gunca* (also Karačay-Balkhar, *-gincı*<sup>4</sup>; cf. K-B -Russkiy slovar’ 1989:823). Two of the three above-mentioned features—except *-mayin*—are also described for Crimean Tatar by Doerfer (1959), and with the meanings given by ʿAbū Ḥayyān.

In the last place we could add, albeit not without a firm caveat in regard to the known problems related to Turkic ethnonyms, Ibn Muḥammad Šāliḥ’s seventeenth century witness report of the language described by ʿAbū Ḥayyān as similar to that spoken by the inhabitants of the Crimea. To this language Šāliḥ refers as *tatariyya* (cf. below 1.7).

Other scholars also pointed to the possibility that the language in the 14 century manuscripts could be a form of Tatar (e.g., Von Gabain [1959:48], Hattori [1979-80] and Mahmutova [1982]). In all instances, though, they refer to the Turkic language in the 14th century Codex Comanicus rather than the Arabic sources.

#### 1.4 Kitāb at-tuḥfa az-zakiyya fi l-luġa at-turkiyya

*Tuḥfa* is an anonymous grammatical treatise on Turkic, preserved in only one MS which is kept in Istanbul, at the Beyazıt Library, coded Veli ed-Din No. 3092. It consists of 90 folios, written down in a single hand. The Turkic words are written in red ink. *Tuḥfa* has never been edited in print so far, apart from a legible facsimile published in 1942 by Tibor Halasi Kun, which forms the basis for the present study. It was followed in 1945 by Besim Atalay’s translation into Turkish along with an edition of quite poorly legible facsimile copies of the text. In

his translation, Atalay transcribes the Turkic words in such a manner that the original spelling cannot be retrieved.<sup>37</sup>

There is little information about the place and time *Tuḥfa* was compiled. *Mamlūk*-ruled Egypt or Syria is generally taken as its place of compilation.<sup>38</sup> It must have been written before 829/1426, which is the date of a gloss on the title page (Cf. Atalay 1945: xxiii). Fazılov, in an article on *Tuḥfa* (1976: 335), made some suggestions as to the meaning of the word *zakiyya* in the title, according to which it may have referred to someone called Zakī, perhaps the author himself, or to the word *zakī* 'intelligent' in a poem on the last page of the MS (90<sup>v</sup>).<sup>39</sup>

*Tuḥfa*, like most other grammars of Turkic, contains an Arabic-Turkic word list (3<sup>r</sup>9-38<sup>v</sup>11) starting with *hamza*. Each section is divided into two subsections, the first of which treats nouns and the second one verbs. The second part of *Tuḥfa* (38<sup>v</sup>12-90<sup>v</sup>13) contains grammatical information, which is divided into two sections: *şarf* "Morphology" (38<sup>v</sup>12) and *al-ʿaḥkām at-tarkibiyya* "The rules of construction" (65<sup>v</sup>5).<sup>40</sup>

The author of *Tuḥfa* does not refer to any direct sources for his work, but he mentions the name of ʿAbū Ḥayyān al-ʿAndalusī, and he quotes his principles (see 1.3) with regard to the three basic components of the study of language, namely lexicology, morphology and syntax (2<sup>r</sup>12-2<sup>v</sup>1-6).<sup>41</sup> Apart from this passage, there are many other resemblances between *Tuḥfa* and ʿ*Idrāk* as far as the general structure is concerned, and to a far lesser extent in terms of the content. I shall discuss this in greater detail in the second part of this chapter.

The language described in *Tuḥfa* is generally called *turkiyya* or, sometimes, *qibğāqıyya*.<sup>42</sup> It is occasionally opposed to *tatarıyya*<sup>43</sup> and, more especially, to *turkmāniyya*, mostly introduced by the expression

<sup>37</sup> Atalay's translation was severely criticised by Tibor Halasi Kun, at the time living and working in Ankara, who apparently had had the idea of a similar publication (cf. Halasi Kun 1947, 1948, and Atalay 1948).

<sup>38</sup> Fazylov (1976: 335) asserts that *Tuḥfa*'s author had spent some time in Syria or was born there.

<sup>39</sup> Fazylov (1976) deciphered the meaning of some other lines on the last page that announced the death of Nāşir Muḥammad Qaytbay, the son of ʿAşraf Qaytbay on Wednesday *Rabīʿ al-ʿAwwal* 15th, 904 (=October 31th, 1498). He further succeeded in reading a name on the title page, i.e. ʿAbū l-Qāsim bn ʿAḥmad bn Muḥammad bn Muḥannā al-Ḥanāfi.

<sup>40</sup> For a list of contents, see the Appendix.

<sup>41</sup> ʿAbū Ḥayyān's name is rendered somewhat differently: Şaraf ad-Dīn instead of ʿAşir ad-Dīn, but his *kunya* is right. There are no direct references to Baylik, a main source for ʿ*Idrāk*, in spite of Pritsak's (1959: 75) remarks quoted above.

<sup>42</sup> Cf. 2<sup>r</sup>2; 47<sup>r</sup>1; 62<sup>r</sup>12.

<sup>43</sup> Cf. 43<sup>v</sup>12; 51<sup>v</sup>1; 63<sup>v</sup>13; 71<sup>r</sup>13.

*qīla* only: ‘I have not referred to Turkmānī [Oğuz] unless there was a need; [in that case] I say ‘it is also said’’ (*wa-qīla*) (*wa-lam ʾaḍkur at-turkmāniyya ʾillā ʿinda ḍ-ḍarūra fa-ʾaḳūlu wa-qīla* 2ʹ2).<sup>44</sup>

### 1.5 al-Qawānīn al-kulliyya li-ḍabṭ al-luḡa at-turkiyya

*Qawānīn* is another grammar of Turkic. It was compiled about the 14th or 15th century AD, most likely in a *Mamlūk*-Turkic dominated region, probably Cairo. An indication for this may be found at 71,1, where the author refers to Turkic soldiers who had come to Cairo after having served in Tamerlane’s armies.

The only existing copy of *Qawānīn*, registered Şehid Ali Paşa 2659 in the Süleymaniyye Library at Istanbul, is a well-preserved MS consisting of 169 pages (1-85ʹ), written in a very neat and legible hand. On the introductory page the work is attributed to ʾAbū Ḥayyān.<sup>45</sup> In 1928, Kilisli Muʿallim Rifʿat (Bilge) edited the text with an introduction by Mehmet Fuat Köprülüzade. Ten years later, in 1938, Szigmund Telegdi published an article about *Qawānīn* in which he rearranged both the Turkic grammatical material and the word list of approximately 500 entries.

The printed edition of *Qawānīn* consists of 76 pages (3-79). The largest part is dedicated to grammatical subjects, after a brief introduction (3-58). The author divided *Qawānīn* into three large chapters: I “the verb and what is attached to it” (*al-fiʿl wa-mutaʿalliqātuḥu walawāḥiqūḥu*, 6,11); II “the noun and what is attached to it” (*al-ʾism wa-mutaʿalliqātuḥu*, 25,16) and, finally, III “the particles” (*al-ḥurūf*, 68,6). The Arabic-Turkic word list, arranged according to semantic categories, takes up about six pages (58-64) within the chapter on the nouns.<sup>46</sup>

In regard to his chapter division, the author of *Qawānīn* refers to a work of Ibn al-Ḥabbāz an-Naḥwī, probably Şams ad-Dīn bn al-Ḥusayn al-ʾIrbilī al-Mawṣilī (d. 637/1239; cf. Suyūṭī *Buḡya* I, 304; also in ʾAbū Ḥayyān’s *Irtiṣāf* III 657 [index]):

“Ibn al-Ḥabbāz an-Naḥwī said: ‘The limitation of the word to three categories is not restricted to the language of the Arabs, since the argument for

<sup>44</sup> *Qīla* is used in the following places: 2ʹ2; 7ʹ5; 8ʹ10; 9ʹ3; 47ʹ4; 65ʹ11; 67ʹ7 69ʹ9; 73ʹ12; 77ʹ5; 81ʹ1; 88ʹ2; 88ʹ11;13; 89ʹ1 and numerous occurrences in the word list. *Wa-qīla* is the usual way to indicate alternative expressions.

<sup>45</sup> Karamanlioğlu (1962) remarks that ʾAbū Ḥayyān cannot have been *Qawānīn*’s author, because he was not alive (d. 765/1345) by Tamerlane’s time.

<sup>46</sup> In fact, the word list is longer, but ends with a discussion of the numerals (pp. 64-68), which is a part of the grammatical section. For a full list of contents, see Appendix.



it is rational and rational matters do not differ with the difference of languages'.” (*qāla ibn al-ḥabbāz an-naḥwī: lā yaḥtaṣṣu inhiṣār al-kalima fī l-ʿanwāʿ aṭ-ṭalāṭa bi-luġa al-ʿarab li-ʿanna d-dalīl alladī dalla ʿalā dālika ʿaqlī wa-l-ʿumūr al-ʿaqliyya lā yaḥtalifu bi-ḥtilāf al-luġāt, Qawānīn 6,1.*)

In accordance with this principle the author of *Qawānīn* divided his work into three parts, as explained before.

Although the MS contains a reference to ʿAbū Ḥayyān al-ʿAndalusī on the preliminary pages, it is generally accepted that he is not *Qawānīn*’s author. The anonymous author was most likely not of Turkic origin himself (cf. 3,11-4,1-2). He tells us he wrote *Qawānīn* because many of his friends had asked him to do so (cf. 1,6-7). He must have done some research himself among people of Turkic descent. Indications for this assumption may be found in the use of the first person sg. in sentences like: “I did not hear it from them otherwise” (*wa-lam ʿasma ʿhu min-hum ʿillā ka-dālika, 14,19; 30,5; 49,11*).

The Turkic language that is described in *Qawānīn* is called *turkiyya*, as in most of the other sources or, occasionally, *luġa al-ʿAtrāk* (7,16). It is opposed to *Turkmānī* (Oġuz), against the use of which the author warns severely:

“The language of the Oġuz is not Turkic... it is held in contempt by them and whoever speaks it, is despised by them.” (*luġa Turkmān laysat turkiyya... fa-ʿinnahā mustahġana ʿindahum wa-l-mutakallim bihā muḥtaqar la-dayhim, Qawānīn 7,15; cf. also Telegdi 1938.*)

In this fragment the Arabic *-hum* ‘them’ refers to the Turks who spoke pure Turkic, the same way *hum* in grammars of Arabic refers to the Arabs, the Bedouins, of the Arabic Peninsula who were said to speak the purest Arabic (cf. Ditters 1992). On 20,21 the author specifies this in a particular context: “the pure speakers among them” (*al-fuṣaḥāʾ minhum*).

With regard to the Turkic material, the author had access to certain written sources he does not specify. With regard to Oġuz influence, he calls for careful use of this material:

“Most of those who compiled a *tarġumān* on this language depend on it [sc. on Oġuz-*Turkmānī*] and they occupy themselves very little with the language of the Turks” (*wa-ġālib man ṣannafa fī hādīhi l-luġa tarġumānan ʿinnamā yaʿtamidu ʿalayhā wa-lā yuʿarriġ ʿalā luġa al-ʿatrāk ʿillā fī n-nazar al-qalīl, Qawānīn 7,16.*)

Of course, it is not known which sources the author may have meant. With regard to the Arabic primary material he used, he quotes Ibn al-Ḥabbāz an-Naḥwī, to whom I have already referred above.

1.6 Kitāb tarğumān turkī wa-<sup>ᶜ</sup>arabī wa-muğali

*Tarğumān* is an anonymous work of which only one copy exists in the library of Leiden University (the Netherlands), cod. 517 Warner. It consists of 76 folios. Its date of compilation is known exactly due to a registration in the epilogue of the text: Sunday, *Ša ʿbān* 27th, 743/January 25th, 1343. Houtsma (1894) had read this date as *Ša ʿbān* 27th, 643 which he converted to January 28th, 1245. This unfortunate mistake was copied by all referents to *Tarğumān*, until Flemming proved convincingly in an article that the date Houtsma proposes cannot possibly be correct (cf. Flemming 1968).<sup>47</sup> In the same article Flemming also proposes Ḥalīl bn Muḥammad bn Yūsuf al-Qunawī as the author of *Tarğumān*, rather than its copyist.

*Tarğumān* consists of two parts: 62 folios of Turkic-Arabic text and 14 folios Mongolian-Persian. According to Houtsma, these texts were compiled by the same person who, accordingly, must have had a fair knowledge of at least three languages. In the printed edition, the Turkic part takes up 57 pages. After an introduction (2-4), the author divides the material into four main parts: I “the nouns” (*al-ʿasmāʿ*, 5,1), which contains an Arabic-Turkic list of nouns, arranged according to semantic categories; II “the verbal nouns and the imperative [of the verbs]”, which is an Arabic-Turkic list of verbs (*maṣādir al-ʿafʿāl wa-l-ʿamr bihā*, 33,8); III “conjugation of the speech and the verbs” (*taṣrīf al-kalām wa-l-ʿafʿāl*, 44,11) and, finally, IV “Basic rules of the speech and obligatory elements” (*ḍawābiṭ al-kalām wa-mā lā budd min-hu*, 50,4), in which both Turkic and Arabic particles are treated.<sup>48</sup>

Like most other sources, the author calls the language he describes *turkī* ‘Turkic’, “the pure Turkic language” (*al-luğa at-turkiyya al-ḥāliṣa*, 2,15) or “the Turkic-Qipčaq language” (*al-lisān at-turkī al-qifğāqī*, 2,11) and he clearly distinguishes it from *turkmānī* e.g.:

“I specified in which [elements] the difference occurs between the pure Turkic language and the Oğuz (*turkmānī*) language and what is borrowed now from Persian and other [languages] by the people” (*wa-qad ʿayyantū mā waqaʿa al-ḥulf fihi bayn al-luğa at-turkiyya al-ḥāliṣa wa-bayna l-luğa t-turkmāniyya wa-mā huwa mustaʿār bayn an-nās al-ʿān min al-luğa al-fārisiyya wa-ğayrihā*, *Tarğumān* 2,15).<sup>49</sup>

<sup>47</sup> When Flemming wrote her article she did not have access to Dozy’s catalogue of Leiden Manuscripts (1851: I 109; no. ccxii), in which the correct date, 743, was already given (p.c. July 1995).

<sup>48</sup> E.g. *lafza* *mū*, the particle of interrogation; *lafza* *dā* the locative suffix but also some Arabic locatives, e.g. *fawqa* ‘above’; *bayna* ‘between’; *al-wasaṭ* ‘middle’.

<sup>49</sup> See also 21,14; 23,12; 41,19 and numerous other places.

This proves that the author not only distinguishes between 'pure Turkic' and its variants (e.g. *Turkmānī* - Oğuz) but that he is also aware of the existence of Persian loan-words.

In *Tarğumān* no direct references are made to its primary sources; the author only quite vaguely mentions the existence of some works on Turkic:

"But I present my book, following with it the trail of those who preceded me in presenting the books on the translation of the Turkic language..."  
(*'ammā ba'd fa-'innī waḍa'tu kitābī hādā muqtafiyan bihi 'atara man taqaḍdamanī mimman waḍa'a l-kutub fi tarğama al-luğa at-turkiyya...*  
2,5-7.)

The nature of these unspecified sources is, of course, not known.

#### 1.7 aš-Šuḍūr aḍ-ḍahabiyya wa-l-qīṭa' al-'aḥmadiyya fi l-luğa at-turkiyya

*Šuḍūr* is an Arabic-Turkic word list of which several MSs of various lengths exist. There are six manuscripts with this title in the Bibliothèque Nationale de Paris (Supplément Arabe No. 4329, 4330/31/32/33/34; cf. Blochet 1932) and two in the Süleymaniye Library at Istanbul (Kılıç Ali Paşa 1021/2 and Laleli 3539). Further, Zajączkowski (1965: 41) mentions a MS in Uppsala. Rossi (1935) and Rieu (1888) mention several MSs in the Vatican and the British Museum in London, respectively. In this study all references to *Šuḍūr* are based on the Parisian MS Supplément Arabe No. 4333 (old code: 1385), which consists of 33 folios. In 1949 *Šuḍūr* was translated into Turkish by Besim Atalay, who based his translation on two manuscripts from his private library.<sup>50</sup>

*Šuḍūr* was composed by Mawlāh Ibn Muḥammad Šāliḥ in 1029/1619.<sup>51</sup> According to Atalay, in his preface to the Turkish translation of *Šuḍūr*, Šāliḥ was of Turkic descent and a professor at the Madrasa of al-Mālik al-'Ašraf at Cairo. Ibn Muḥammad Šāliḥ states that he wrote the book in the first place to teach Turkic to 'Aḥmad, the son of an Egyptian *qāḍī* (cf. *Šuḍūr* 2<sup>v</sup>4 and 26<sup>v</sup>18)<sup>52</sup>, which is reflected in the title of the book by the expression *'aḥmadiyya*. The

<sup>50</sup> Both Nissman (1969:5) and Pritsak (1959) range *aš-Šuḍūr aḍ-ḍahabiyya*, a source that dates from 1619 and that describes Ottoman Turkic, among the Qipčaq glossaries.

<sup>51</sup> This date is taken from Atalay (1949) who based it on a secondary source, which is unavailable to me. According to the dates of Šāliḥ's sources, which I shall discuss below, this date may be right.

<sup>52</sup> This *qāḍī* was, according to Atalay, a certain Šarīf Muḥammad al-Ḥusaynī al-Ġumādā.

second reason for writing his book was the fact that many of his friends and relatives had asked him many times to write a book about Turkic:

“For a long time I have had it in mind to write a treatise on the Turkic language; I was asked many times and my relatives and friends kept repeating it [their request] to me all the time.” (*ṭāla mā ḡāla fi ḡaladī ‘an ‘aḡa ‘a risāla fi l-luḡa at-turkiyya wa-su’iltu bi-dālika mirāran wa-takarrara ‘alayya min ‘aqrībā’i wa-‘aṣḡiqā’i tiktāran, Šudūr 2<sup>f</sup>10.*)

As for the internal structure of the work, Šāliḡ divided it into four ‘bases’ (‘*arkān*’, sg. *rukṇ*). The first ‘base’ deals with “as many derivations as possible” (*ar-rukṇ al-‘awwal fi bayān al-muštaqqāt bi-qadr al-‘imkān*, 5<sup>r</sup>) and it is divided into eight chapters: 1. the verbal noun (*bayān al-maṣḡdar*, 7<sup>v</sup>); 2. the imperative (*bayān al-‘amr*, 7<sup>r</sup>); 3. the prohibition (*n-naḡy*, 8<sup>v</sup>); 4. the past tense (*bayān al-māḡī*, 10<sup>v</sup>); 5. the present tense (*bayān al-muḡāri*<sup>ḡ</sup>, 12<sup>v</sup>); 6. the active participle (*bayān ‘ism al-fā’i*<sup>ḡ</sup>, 14<sup>r</sup>); 7. the marker of the negation (*bayān ‘alāma al-naḡy*, 15<sup>v</sup>); 8. the marker of the plural (*bayān ‘alāma al-ḡam*<sup>ḡ</sup>, 16<sup>r</sup>); II the nouns (*bayān al-‘asmā’*, 20<sup>f</sup>4); III the pronouns (*bayān aḡ-ḡamā’ir*, 25<sup>f</sup>16); IV words that occur in both Arabic and Turkic (*bayān al-kalimāt al-muštarika bayn al-‘arabiyya wa-t-turkiyya*, 28<sup>r</sup>2). The fourth *rukṇ* is followed by an additional chapter, *ḡātima* (29<sup>f</sup>20), in which one finds a number of Arabic sentences translated into Turkic.

Although these chapter headings may suggest that a large body of grammatical data is given, each *rukṇ* and *bāb* consists of no more than a mere list of words of the category mentioned, the only exception being the eighth *bāb* of the first chapter about the marker of the plural form, in which the author explains the different ways to indicate plurality in Turkic.

With regard to the sources he used, Šāliḡ tells us he possesses a large number of books in several languages of which he also mentions the languages in which they were compiled. In the MS at our disposal, the name of each language is separated from the next one by a thick dot, but since some languages—especially *turkī*—are mentioned twice or even three times, the list most likely contains combinations of languages: ‘*arabī wa-turkī*’ ‘Arabic-Turkic’; ‘*arabī wa-fārisī*’ ‘Arabic-Persian’; *turkī wa-fārisī* ‘Turkic-Persian’; *turkī wa-nawā’i* ‘Turkic-Nawā’i’ and, finally, *turkī wa-bahlawī* ‘Turkic-Pahlawī’. With regard to

*Turkī*, Šāliḥ defined it explicitly as Ottoman Turkic; I shall return to this point below. *Pahlawī* is a term used to denote Middle-Persian.<sup>53</sup>

Things are different for *nawāʿī* since this is not a term used to denote a language but rather the *nisba* of the Turkic poet ʿAlī Šīr Nawāʿī (845/1441-906/1501), the outstanding 15th century Čaġatay poet who had a great impact on all Turkic literary languages. Proof of the tremendous interest in his words are the many specialised dictionaries that were compiled on the basis of his works.<sup>54</sup>

After having listed the languages used in his sources, on pages 3<sup>r</sup>-4<sup>v</sup>, Šāliḥ mentions as many as 25 authors and works. Among them are two Arabic sources. First, Šāliḥ tells us he has a copy of *ad-Durra al-Muḏīʿa fi l-Luġa at-Turkiyya* which he attributes to ʿAbū Ḥayyān. Šāliḥ quotes ʿAbū Ḥayyān from *Durra* as saying:

“I arranged it according to the principles of Arabic and called it *ad-durra al-muḏīʿa fi l-luġa at-turkiyya*.” (...*ġaʿaltuhu ʿalā qawāʿid al-ʿarabiyya wa-sammaytuhu bi-d-durra al-muḏīʿa fi l-luġa at-turkiyya*, *Šuḏūr* 3<sup>v</sup>15.)

However, I found no utterance of this kind in my copy of *Durra*. Moreover, ʿAbū Ḥayyān did not compile any work entitled *ad-Durra al-Muḏīʿa fi l-Luġa at-Turkiyya*. We shall discuss this point in Section 2.1.

In the second place he refers several times (e.g. on MS 3<sup>v</sup>27) to Saʿd ad-Dīn at-Taftazānī (722/1322-793/1390; cf. *Suyūṭī Buġya* II, 285; GAL I 354 and II 278), author of *Šarḥ at-Talḥīš*, who was a “celebrated authority on rhetoric, logic, metaphysics, theology, law and other subjects” (Storey on Taftazānī in EI<sup>1</sup>). *Šarḥ at-Talḥīš*, compiled in 748/1347, also known as *Muḥtaṣar Šarḥ Talḥīš al-Miftāḥ*, is a commentary on al-Qazwīnī’s work on rhetoric, *Talḥīš al-Miftāḥ*. Taftazānī was not unfamiliar with foreign languages, and he seems to have known Turkic. Šāliḥ had access to a manuscript of *Šarḥ at-Talḥīš*, the margins of which were full of Turkic words:

“...I am pleased with the commentary to *at-Talḥīš* by *šayḥ* Saʿd ad-Dīn at-Taftazānī of which the margins were filled in Turkic from the first [page] until the last [page] in the writing of a teacher.” (...*yasurru li* [sic!] *šarḥ at-talḥīš li-š-šayḥ saʿd ad-dīn at-taftazānī muḥaššan min ʿawwali-hi ʿilā ʿāḥiri-hi bi-t-turkī bi-ḥaṭṭ mawlā min al-mawālī*, *Šuḏūr* MS Paris No. 4334, 4<sup>v</sup>13-5<sup>r</sup>3.)

Šāliḥ (*Šuḏūr* 3<sup>r</sup>19ff) lists further the following works in this sequence:

<sup>53</sup> See Henning (1958) and Boyce (1968). By the term ‘middle Persian’ is meant pre-islamic Persian.

<sup>54</sup> See art. ‘Mīr ʿAlī Šīr Nawāʿī’ by M.E. Subtelny in EI<sup>2</sup>; also Devereux (1964) and (1965) on *Muḥākama al-Luġatayni*.

1. *’Aḥterī al-Kebir*, (also called *Luġat-i Aḥterī*) that is the Arabic-Turkish dictionary compiled in *Raġab* 952/May 1545 at Kütahya by Muşliḥ ad-Dīn Muştafā bn Šams ad-Dīn al-Qaraḥiṣārī al-’Aḥterī (d. 968/1559-1560).<sup>55</sup>

2. *Mirqāt*,<sup>56</sup> by which may be meant *Mirqāt al-Luġa*, an anonymous Arabic-Turkish dictionary compiled between 796/1394 and 936/1530.<sup>57</sup>

3. Niʿmat Allāh (d. 969/1561), who compiled *Luġat-i Niʿmatullāh*, a Persian-Turkish dictionary.<sup>58</sup>

4. Ḥalīmī Ćelebī, that is Luṭf Allāh bn Abī Yūsuf Ḥalīmī (d. 951/1544) the author of *Luġat-i fārisī wa-turkī* (also: *Luġat-i Ḥalīmī*), a Persian-Turkish dictionary, written or completed in 981/1573/4.<sup>59</sup>

5. *Şiḥāḥ al-’Aġam*, a Persian grammar in Arabic, attributed to Niʿmat Allāh bn ’Aḥmad bn Mubārak bn Muḥammad ar-Rūmī.<sup>60</sup>

6. *Şiḥāḥ al-Bayān*.

7. *Ćawāḥir al-’Uqūd*, that is, probably, the small Arabic-Persian dictionary in verse entitled *’Uqūd al-Ćawāḥir* by ’Aḥmad-i Dā’i, dedicated to Sultan Murād II (1421-1451). This manuscript is described in Blaškovič (1961:401-2; no. 551). For Dā’i see Alpay (1973:19).

8. Ibn Melek, the Arabic form of the name ʿAbd al-Laṭif ʿIzz ad-Dīn Firişteoġlī (d. 795/1392) who wrote *Luġat-i Firişteoġlu*, a rhyming Arabic-Turkish dictionary.<sup>61</sup>

9. *Tuḥfa al-’Adab*.

10. *Silsila aḍ-ḍahab*, attributed to Nūr ad-Dīn ʿAbd ar-Raḥmān bn ’Aḥmad al-Ćāmī (d. 898/1493).<sup>62</sup>

<sup>55</sup> See Sohrweide (1974: no. 220), where more MSs are listed; Götz (1979: no. 466); Cf. TÜYATOK I (Antalya) p. 225, no. 391; also *Aḥterī-i Kebir* TÜYATOK II Merzifonlu Kara Mustafa Paşa Library (Ist.) p. 157, no. 384.

<sup>56</sup> The tekst reads *m-r-q-z-t*.

<sup>57</sup> Cf. Dozy 1851: 91. The Leiden MS, cod. 237 Scal., was copied in 955/1548. Sohrweide (1974: no. 194) describes the work as follows: “Arabisch-türkisches Wörterbuch, vermutlich aus dem frühen 16. Jahrhundert.”

<sup>58</sup> Cf. Götz (1979: no. 473); TTS II xxxviii; Karatay (1961: II, 27 no. 2063).

<sup>59</sup> Cf. Götz (1979: no. 471) and Sohrweide (1981: TÜYATOK I Ali Nihat Tarlan Dermesi Istanbul p. 55, no. 142; and Karatay (1961: II 20 no. 2039).

<sup>60</sup> It may also be identical with *Şiḥāḥ al-’aġamiyya* by Muḥammad bn Pīr ʿAlī Muḥyi ad-Dīn al-Birkawī (Birgili) 929/1523-981/1573 (Cf. GAL II 442, GAL Suppl. II 657; cf. also Ḥāġġi Ḥalifa VI, 362 and Karatay (1961: II p. 22, no. 2045 and no. 2046), who lists the same title but another author: Hindüşāḥ Naḥġawānī (900/1494). Also Leiden University Library: cod. 781 Warner.

<sup>61</sup> Cf. Akün EI<sup>2</sup> II 423; and TS II xxiv and TTS I xxix. There exists also a MS in the library of Leiden University, no. 857 Warner.

<sup>62</sup> *Silsila aḍ-ḍahab fi s-sulūk wa-l-’adab* cf. Ḥāġġi Ḥalifa III, 607 and GAL II, 446.

11. *Dānistan*, a Persian-Turkic word list composed by Muḥammad bn Hāğğī 'Ilyās.<sup>63</sup>

12. *Niṣāb aṣ-Şibyān*, an Arabic-Persian vocabulary in 350 verses by Badr ad-Dīn 'Abū Naṣr Mas'ūd bn 'Abī Bakr bn Ḥusayn bn Ğā'far al-Farāhī (VIIIth century).<sup>64</sup>

13. A commentary to *Niṣāb aṣ-Şibyān* by al-Ğurğānī.<sup>65</sup>

14. *Niṣāb al-Fityān*, by which may be meant *Naṣīb al-Fityān* by Ḥusām ad-Dīn Ḥasan bn 'Abd al-Mu'min 'Abī l-Ḥawabbī the poet, that consists of 350 verses in Persian (cf. Hāğğī Ḥalīfa VI 350).

15. A copy of *Şāhidī*, probably *Tuḥfa-i Şāhidī*, a rhyming Persian-Turkish dictionary written in 921/1515 by 'Ibrāhīm Dede Şāhidī (d. 957/1550).

16. *Tuḥfa Ḥusām*, perhaps *Tuḥfa-i Ḥusāmī*, an anonymous Persian-Turkish dictionary.<sup>66</sup> According to Dozy (1851:102) it formed the basis for *Luğat-i Şāhidī*.

17. The *Gulistān*<sup>67</sup> in several translations and studies, even in Arabic.

18. *Luğa Turkiyya wa-Nawā'iyya* (3v1). This may be understood as a reference to a work called 'Abūşqa or *al-Luğat an-Nawā'iyya*, a Çağatay-Ottoman Turkish wordlist based on Nawā'ī's works.<sup>68</sup>

19. *Luğat al-Maṭnawī li-Mawlā Ḥunkār al-'Arabiyya* "The Arabic word lists to the *Maṭnawī* by master Ḥunkār", one of the many explanatory lists of words to the *Maṭnawī*, which was written by Ğalāl ad-Dīn ar-Rūmī, who lived between 604/1207 and 672/1273-4.<sup>69</sup> Şāliḥ possibly refers to the commentaries by Sūdī, Bosnalı (d. 1005/1596-97) and by Surūrī (see below).

20. Commentaries on *Gulistān*, one by Sayyidī 'Alī, Muşṭafā bn 'Aḥmad bn 'Abd al-Mawlā Ćelebī (948/1541-1008/1600).

<sup>63</sup> Cf. Dozy 1851: 97. One of the mss is preserved in the library of Leiden University, cod. 167 Golius.

<sup>64</sup> Cf. GAL II, 193 (p. 246) GAL Suppl. 258. MS extant in Leiden 112/3. Cf. Sohrweide (VOHD XIII,3 1974: 301, no. 345).

<sup>65</sup> Cf. GAL SI 342.

<sup>66</sup> Cf. Götz (1979: 447, no. 472). Cf. also to TÜYATOK III (07) p. 11 no. 1632.

<sup>67</sup> The *Gulistān*, 'Rosegarden' was originally composed in Persian by Sa'ādī bn 'Abdallāh aṣ-Şirāzī (d. 691/1291) in 656/1258. Cf. art. Sa'ādī by Davis in EI<sup>2</sup>.

<sup>68</sup> Nawā'ī also wrote *Muḥākama al-Luğatayn* (904/1499), a treatise in which Persian is compared to Çağatay-Turkic. Cf. Devereux (1964 and 1965). *Muḥākama al-Luğatayn* has been edited by Quatremère, E. *Chrestomathie en Turc oriental* Paris 1841. Cf. also Menges (1963: 238) and Karatay (1961: II no. 2103).

<sup>69</sup> *Mawlā Ḥunkār* is another name for Mawlāna Ğalāl ad-Dīn ar-Rūmī (Cf. art. Mollā Hünkār in İA). For a list of Turkish commentaries on the *Maṭnawī*, see N. Pekolçay (1967: 109-110), *İslāmî Türk Edebiyatı*, İstanbul.

21. “and the other by Surūrī Ćelebi,<sup>70</sup> the teacher of Prince Muṣṭafā, the son of Sultān Sulaymān, peace be on them”,<sup>71</sup> meaning the poet Surūrī, Muṣṭafā ad-Dīn Muṣṭafā bn Ša‘bān (d. 969/1561) author of commentaries on the Maṭnawī, Ḥāfiẓ, Gulistān, and Bustān.

22. A commentary to Šayḥ Sa‘dī’s (d. 691/1291-2)<sup>72</sup> *Dībāġa-i Gulistān*, probably referring to the commentary written in 917/1511-12 by Muḥammad bn ‘Uṭmān bn ‘Alī, also called Lāmi‘ī (d. 938/1531-2).<sup>73</sup> This Lāmi‘ī was the author of *Tuḥfa ‘āl ‘Uṭmān dū an-Nūr as-Sāti*<sup>74</sup>, to which Šāliḥ refers twice (cf. *Šuḍūr* 4<sup>v</sup>4 and 4<sup>v</sup>11).

And other books.

Further references in *Šuḍūr*.

23. Šāliḥ (25<sup>v</sup>17) refers to a work which he calls the *Tarġama* of Kamāl Pāšā (*tarġama kamāl pāšā*) by whom he probably means the well-known Ottoman scholar *Ibn* Kamāl Pāšā (d. 940/1533).<sup>74</sup> The term *tarġama* may refer to any lexicographical work compiled by this scholar.

Ibn Muḥammad Šāliḥ is very explicit about the language he describes in *Šuḍūr*. He calls it *turkiyya* (5<sup>r</sup>2) and specifies the area where it is spoken as “the lands of Ottoman Turkic” (*bilād at-turkiyya al-‘uṭmāniyya*, 3<sup>v</sup>22) and “the state of our time is the Ottoman state and their language is the sultanic Turkic language” (*dawla zamāninā ḥādā d-dawla al-‘uṭmāniyya wa-luġatuhum at-turkiyya as-sultāniyya*, 2<sup>r</sup>7).

At the same time he considers the language described in *Durra* a form of *Tatar*: “The Turkic of his [sc. ‘Abū Ḥayyān’s] time was Tatar, it is not used anymore in our time in the lands of Ottoman Turkic” (*wa-‘ayḍan turkī zamāni-hi tatarī matrūk fi zamāni-nā fi bilād at-turkiyya al-‘uṭmāniyya*, 3<sup>v</sup>23-24). Šāliḥ says that he went to Kafa<sup>75</sup> himself and had found its people speaking like ‘Abū Ḥayyān had described (cf. 3<sup>v</sup>26).

<sup>70</sup> Cf. Ḥāġġi Ḥalīfa V 230 and art. ‘Surūrī’ by Babinger in EI<sup>1</sup>. Berthels described Surūrī’s vocabulary as following: “[Surūrī’s] work... is divided into three parts: verbs, particles and inflection, nouns. His sources were... *Šihāh-i ‘aġam*” (Berthels, art. ‘Surūrī’ EI<sup>1</sup>; cf. also art. by Akün in İA). There is also a MS of this work in the library of Leiden University, cod. 164 Golius.

<sup>71</sup> Muṣṭafā was sultan Sulaymān’s (936/1530 – 973/1566) eldest son. He died at Konya in 960/1553.

<sup>72</sup> Cf. also Haig and Kramer’s article on Sa‘dī in EI<sup>2</sup>.

<sup>73</sup> Šāliḥ calls this Sa‘dī: “šayḥ Sa‘d ad-Dīn”. Karatay (1961: II no. 2203), lists Sa‘dī as Maḥmūd bn ‘Uṭmān instead of Muḥammad bn ‘Uṭmān. See Flemming on Lāmi‘ī in EI<sup>2</sup>.

<sup>74</sup> Cf. art. ‘Kemālpāšazāde’ by V.L. Ménage in EI<sup>2</sup>, and GAL II 597. See also Sawaie 1991.

<sup>75</sup> Kafa or Kefe lies at the south eastern coast of the Crimea. It was called ‘Theodosia’ in Roman and ‘Feodosia’ in Russian times (cf., for example, art. Kefe by Orhonlu in EI<sup>2</sup>).



Although Šālih's reference is made to *Durra*, whose material is not sufficient as to permit far-reaching conclusions, there is some evidence for this in at least *ʿIdrāk* and *Qawānīn*. A brief comparison with Tatar as described in Doerfer's article on Crimean Tatar (1959) yields evidence that the language described in *ʿIdrāk* and *Qawānīn* may be related to Turkic languages spoken on the Crimea. The closeness of the Crimea to the Ottoman Turks and the fact that in that place also Ottoman was spoken would account for the many instances in which both Qipčaq and Oğuz features appear in the language material. The language in *ʿIdrāk* and *Qawānīn* may be characterised as Western Qipčaq, which could very well match 14th century Tatar. Furthermore, the Crimea may have been a strategic place for the tradesmen who shipped boys to Cairo. However, the exact determination of the origin of the languages in the sources is outside the scope of the present study, and must be left to further research (see also Section 1.3).

*Šudūr* was written in Ottoman times and based mainly on Ottoman sources.

#### 1.8 Kitāb bulğa al-muštāq fi luğa at-turk wa-l-qifğāq

*Bulğa* is an Arabic-Turkic vocabulary, of which only one MS exists in the Bibliothèque Nationale, Paris, registered as Suppl. Turc No. 293. It consists of 71 folios, of which are missing (viz. after 12 verso, 13 verso and at the end). The lexical material is not put side-by-side, but arranged quite awkwardly in slanting lines. *Bulğa* was written in the 14th century AD by Ğamāl ad-Dīn ʿAbū Muḥammad ʿAbdullāh at-Turkī, probably in Mamlūk-ruled Egypt. This Ğamāl ad-Dīn at-Turkī could not be identified further.

Zajączkowski edited the text of *Bulğa* in two separate publications. In 1954 he published Part II on the verbs, and Part I, on the nouns, in 1958. Both editions were provided with quite poor facsimile copies of the relevant parts of the MS, and with a full edition of the text in print.<sup>76</sup>

After a brief introduction (7<sup>r</sup>-7<sup>v</sup>) the lexical material is divided into four parts, which are categorised according to semantic category: I "the name of God and [his] servants in the sky and others" (*fī ismi llāh ta ʿālā wa-mā fī s-samāʾ min musahḥarin wa-ğayrihi*, 8<sup>r</sup>3), II "chapter about the earth, the minerals and other [elements]", with several sections (*al-ʿarḍ wa-mā fī-hā min al-ma ʿādin wa-ğayrihā*, 9<sup>r</sup>1); III "the locative" (*bāb az-ẓarf*, 17<sup>r</sup>), including a section about the pronoun;

<sup>76</sup> Reviewed by Pritsak (1957).

and finally, IV “the verbs” (*bāb fi l-ʾafʿāl*, 20<sup>v</sup>). *Bulğa* contains almost no grammatical information.

The title of the work, *Kitāb Bulğa al-Muštāq fi Luğa at-Turk wa-l-Qipčaq*, suggests that the author distinguishes between Turkic on the one hand and Qipčaq on the other, but he does not give any details.

The author of *Bulğa* mentions several of the sources he used, among which are a work called *al-ʾAnwār al-muḏīʾa* written by ʿAlāʾ ad-Dīn Baylik al-Qibğāqī and one called *aş-Şaḥīḥ Min ad-Durra al-Muḏīʾa* by ʿImād ad-Dīn Dāwad<sup>77</sup> bn ʿAlī bn Muḥammad al-Warrāq al-Miṣrī (MS 7<sup>v</sup>) (cf. Pritsak 1959:75). Thus *Bulğa*, along with *ʾIdrāk* and, perhaps some other works, forms a part of the chain of which the aforementioned Baylik (Section 1.3) was the initiator.

### 1.9 ad-Durra al-muḏīʾa fi l-luğa at-turkiyya

In 1963 Ananiasz Zajączkowski discovered the manuscript of an Arabic-Turkic vocabulary in the Medicea Laurenziana Library of Florence, registered under No. Orient 131.<sup>78</sup> The manuscript consists of 24 folios and probably originates from a *Mamlūk*-governed area, most likely 14th century Syria.<sup>79</sup> In the sixties of this century Zajączkowski published four articles in which he edited and discussed most of the lexical material he found in *Durra*<sup>80</sup> (cf. Zajączkowski 1965, 1968 and 1969).

The lexical material in *Durra* is divided into 24 chapters (the terms *qism* ‘part’, *bāb* ‘chapter’, *faṣl* ‘section’ seem to reflect the same level) that are arranged according to semantic subject, traditionally beginning with the names of God and Heaven and ending with a chapter containing colloquial language material (19<sup>f</sup>5-24<sup>f</sup>17). *Durra* contains no grammatical information.

As is clear from its title, the Turkic language in *Durra* is called *turkiyya* but no further information is given.

<sup>77</sup> The text in the MS is clearly vocalised *Dāwad* and not *Dāwud* as might be expected.

<sup>78</sup> Karatay (1961 II, 19 no. 2036; MS Hazine 1088). Although the introduction is the same as in the Florentine MS, it deals with Anatolian Turkic, rather than Qipčaq.

<sup>79</sup> Zajączkowski based this assumption on the Arabic language material in *Bulğa* (Cf. Zajączkowski 1954 II: 67).

<sup>80</sup> Although Şāliḥ attributes *Durra* to ʾAbū Ḥayyān al-ʾAndalusī (cf. *Şudūr* 1.7), in *Durra* itself I could not find any indications with regard to its author (cf. Section 1.6).

### 1.10 An anonymous work in the margins of *Veli ed-Dīn MS 2896*

The existence of yet another Turkic grammar written in the margins of the *Veli ed-Dīn Ms. of Kitāb al-Idrāk* has been known since the thirties of this century. Thusfar neither its exact title nor the name of the author have been retraced yet and the text itself, too, still remains to be thoroughly analysed.

This Margin Grammar (henceforth in references as MG) consists of a long word list and a large grammatical part. The word list is scribbled in the margins and between the lines of the lexicographical part of *ʿIdrāk* (2<sup>r</sup>-32<sup>r</sup>); indeed, there are so many glosses that the original text has become barely legible. The glosses were compiled and edited in Roman script by İzbudak and Rifʿat in 1936. In addition to the glosses, there is a grammatical text in the margins of the sections on morphology and syntax (32<sup>v</sup>-65<sup>r</sup>) of *ʿIdrāk*, which seems to stand independently of the latter. The handwriting on these pages is much more legible than that in the word list, and there are only a few glosses between the lines of the main text. The manuscript has yet to be carefully examined in order to determine which fragments are in the same hand as the body text of *ʿIdrāk* and which ones are not, but there are enough data to make the following observations.<sup>81</sup>

First, one would expect that this grammar, being written in the margins of *ʿIdrāk*, shows many resemblances to the latter. This is only partially true, for only one chapter heading starts with *al-Qawl fī...* (41<sup>v</sup>bm), which is typical of *ʿIdrāk* and can be translated by ‘Chapter on...’. Some passages are identical with some in *ʿIdrāk*, albeit they are not always found on the same folio.<sup>82</sup>

Second, most chapter and section headings are introduced by *Bāb* (“Chapter”) or *Faṣl* (“Section”), *Tanbīh* (“Remark”), *an-Nawʿ al-ʾawwal* (“The first type is...”), *aḍ-Ḍarb al-ʾawwal* (“The first kind is...”) and *al-Qāʿida fī...* (“The rule with regard to...”). These headings are also typically found in *Qawānīn*. Indeed, there are more points of resemblance with *Qawānīn*. Apart from an explicit reference and a quotation (33<sup>r</sup>, cf. *Qawānīn* 4,5-15) there are also numerous other passages that—in some cases with only minor changes—are also found in *Qawānīn*.<sup>83</sup>

<sup>81</sup> The last pages of the volume (65<sup>v</sup>-66<sup>r</sup>), after the manuscript of *Idrāk*, are dedicated solely to this, or perhaps yet another grammar.

<sup>82</sup> E.g., 34<sup>v</sup>rt = *Idrāk* 105,12; 35<sup>v</sup>bm/rt = *Idrāk* 107,15; 56<sup>r</sup> top = *Idrāk* 135,18f

<sup>83</sup> Cf. 37<sup>v</sup>rt = *Qaw.* 12,9-10; 38<sup>t</sup>top = *Qaw.* 11,7-8; 38<sup>lt</sup>=*Qaw.* 10, 21-3; 41<sup>v</sup>rt = *Qaw.* 23,5-15; 43<sup>v</sup>top = *Qaw.* 49-50; 44<sup>lt</sup>/ult = *Qaw.* 8,4-5; 59<sup>v</sup>rt/ult. = *Qaw.* 44,5-9 (with minor change); 64<sup>t</sup>top = *Qaw.* 21,14-7; 64<sup>lt</sup>/ult = *Qaw.* 21,18.

Thirdly, other fragments are identical with passages found in *Tarğumān*, e.g. *lafza ʿidī at-turkiyya* (“the Turkic word ʿidī”, MG 46<sup>lt</sup> = *Tarğumān* 50,11). This typical style of *Tarğumān* is found further in passages like *lafza dakūl at-turkiyya* (“the Turkic word *ḍakūl*,” MG 47<sup>r</sup>) which, however (with other examples in the same style on 39<sup>lt</sup> and 64<sup>rt</sup>; 50<sup>lt</sup> = *Tarğ.* 50,6-10), is not found in the latter. From this it is possible to infer that the author of the Margin Grammar had a different copy of *Tarğumān* at his disposal than the one Houtsma used for his famous edition.

In the fourth place, some passages are literally copied from *Dīwān*, e.g., the fragment on the consonants of Turkic (33<sup>lt</sup>) is exactly the same as *Dīwān* (6,6-7,6), albeit without reference. There are more passages copied from *Dīwān*, for example the fragment on (40<sup>rt</sup>) is a literal copy of *Dīwān* (538,5-8); MG (45<sup>lt</sup>) resembles to a large extent *Dīwān* (301,13-16), and MG (39<sup>rt</sup>) is identical with *Dīwān* 536,13ff. The resemblance always includes the Arabic versions of the examples, although the Turkic language is in most cases probably another one.

Five, the fragments are generally not related to the subjects dealt with in the corresponding pages of main text of *ʿIdrāk*. In most cases the same issue is dealt with in different ways in several passages on a given page (e.g. particles of the genitive (*ḥurūf al-ğarr*) 58<sup>lt</sup>; 58<sup>top</sup>; 58<sup>rt</sup>; 58<sup>rt</sup>). Fragments from different manuscripts are in a few instances introduced with the phrase *wa-fi nusha* (occasionally *nusaḥin*) *ʿuḥrā* (“and in another manuscript[s]”, cf. 50<sup>rt</sup>bm; 64<sup>lt</sup>/ml; 50<sup>lt</sup>; 51<sup>rt</sup>/bm).

Finally, apart from *Qawānīn*, *Tarğumān*, *ʿIdrāk* and *Dīwān*, there must have been at least one, and perhaps more than one, other main source that the copyist/author used for his compilation. This is, for example, evident from the approach in MG to linguistic matters, such as the analysis of the possessive and the accusative case endings which, as will be shown in Chapters Four and Five, differs considerably from the way these issues are dealt with in the other sources. There is also another reference to a name or a title, i.e. *al-ʿAllāma baqiyyat as-salaf wa-qudrat al-ḥalaf tarğumān al-ʿadab...* (?) ... *lisān al-ʿarab* (1<sup>v</sup>).

The author of some of the fragments may have been of Turkic descent himself, since he refers to the Turks as “we” (e.g., *ʿindanā* “with us”, 34<sup>v</sup>top) and to Turkic as “our language” (*luğatunā*, 34<sup>v</sup>top). In the body of the text Oğuz forms are given quite often, indicated as such

with the term *Turkmān* or *Turkmānī*, as opposed to *Turk* or *Turki*.<sup>84</sup> No other ethnonyms are found.

Summarising, the Margin Grammar in both style, set up and contents has more in common with, and contains passages from *Dīwān*, *Qawānīn* and *Tarğumān*, rather than *ʿIdrāk*. Furthermore, many passages display an entirely new, as yet unknown source. Therefore, the Margin Grammar is best characterised as a compilation of several sources, based on other and, perhaps, more extended manuscripts of *Qawānīn*, *Tarğumān* and *Dīwān*. In this sense the whole grammar cannot be ascribed to one single author.

## 2. THE SOURCES AND THEIR PRIMARY MATERIAL

The references in the sources first of all allow us to draw conclusions in regard to the Turkic and Arabic material on which they were based. In this respect I use the term primary sources. In most cases this means an evaluation of the importance of texts that are no longer available to us. Second, under the heading 'indirect evidence', in which I continue the discussion of the Arabic primary sources, I present my findings with regard to the respective internal structures of the sources.

### 2.1 *Direct evidence: references*

In the first sections of this chapter I pointed out that each of the sources was based on previously compiled material. This primary material can be divided into two categories. The first category comprises Turkic sources that provided the lexical and syntactic material, i.e. previous studies of Turkic in Arabic or in other languages, Turkic texts and, of course, native speakers.<sup>85</sup> The second category of primary material comprises Arabic sources on which the model of the work was based, i.e. studies of Arabic grammar (or lexicography, for that matter) and, of course, the author's teachers. As a result, treatises that describe very different Turkic languages, or even unrelated ones like Mongolian or Persian, may show a high degree of resemblance in regard to the arrangement and interpretation of the lexical and syntactic material.<sup>86</sup>

<sup>84</sup> The ethnonym *Turkmānī* - *Turkmān* occurs on: 59<sup>rt</sup>; 44<sup>lt/ult</sup>; 51<sup>rt</sup>; 51<sup>rt</sup>; 53<sup>bm/lt</sup>; 51<sup>rt</sup>; 42<sup>bm</sup>; 45<sup>top</sup>; 59<sup>md</sup>; 49<sup>rt</sup>; 58<sup>top/ult</sup>; 58<sup>rt</sup>.

<sup>85</sup> Indications for a common Turkic basic source might be found after careful analysis of the lexical and syntactic material, but this is beyond the scope of the present study.

<sup>86</sup> I already established this for *Dīwān luğāt at-Turk*.

### 2.1.1 Turkic primary material

The best indication for a direct dependence on primary material is, of course, a reference to a work or an author, like the references I found for each of the sources. Based on the available data, at least two different groups of works with common primary material can be distinguished. To the first group belong *ʿIdrāk*, *Tuḥfa*, *Bulḡa*, *Durra* and *Šuḍūr*. To the second group belongs *Ḥilya* with its primary material. *Dīwān*, *Qawānīn* and *Tarḡumān* cannot be incorporated into either group, since none of them mentions any Turkic sources.

This is illustrated in Figure 1 (direct references are indicated with a black line, indirect references with a dotted line):

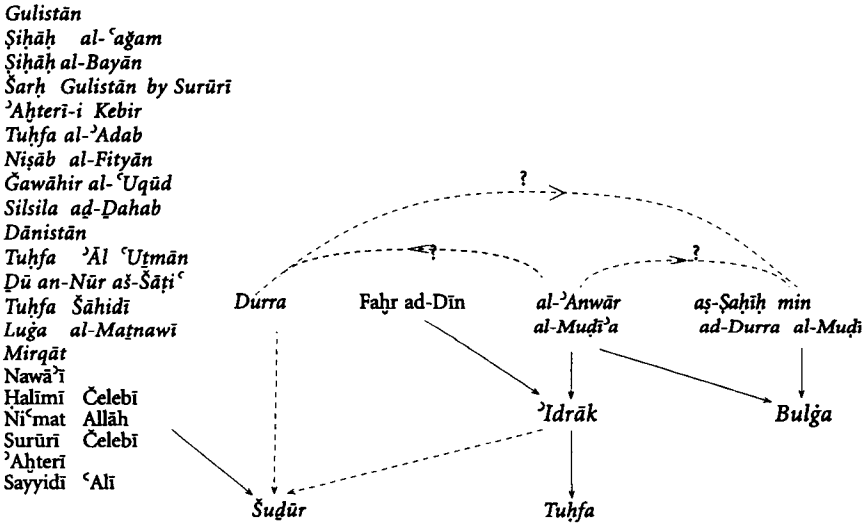


Figure 1 Turkic primary sources of *Durra*, *Šuḍūr*, *ʿIdrāk*, *Bulḡa* and *Tuḥfa*

The author of *Šuḍūr* lists a number of works, most of which do not originate from the Arabic tradition but rather from the Ottoman. To this tradition belong word lists and texts in Arabic, Ottoman Turkish, Persian and Ğaḡatay. Most of these were compiled in the fourteenth and fifteenth century AD by well-known Ottoman writers, namely *Aḥṭerī*, *Ḥalīmī*, *Niʿmat Allāh*, *Surūrī* and *Sayyidī ʿAlī*. The only connection of *Šuḍūr* with the other sources mentioned in Figure 1 is the author's reference to the work *ad-Durra al-Muḍīʿa fi l-Luḡa at-Turkiyya*, at the same time attributing it to ʿAbū Ḥayyān, the author of *ʿIdrāk*. ʿAbū Ḥayyān's fame for his Turkic grammars may have become

so widespread that works whose author's name had been forgotten, were attributed to him. I have already pointed out a similar attribution of *Qawānīn* to 'Abū Ḥayyān; below (3.2) it is shown that 'Abū Ḥayyān is not likely to have been its author.<sup>87</sup>

In *ʿIdrāk* 'Abū Ḥayyān often refers to *ṣayḥunā* ("our master") Faḥr ad-Dīn; he always does so in the context of a Turkic word. Therefore I assume that his 'master' Faḥr ad-Dīn knew Turkic, although the fact that 'Abū Ḥayyān studied with him the seven readings of the Qur'ān would not indicate this (see Section 1.3). As a consequence, Faḥr ad-Dīn must be taken as a source for Turkic primary material rather than Arabic. Furthermore, 'Abū Ḥayyān mentions the name of Baylik al-Qifḡāqī, who is the author of *al-ʿAnwār al-muḍīʿa*, a work whose contents are not exactly known.

*Bulḡa* mentions two direct sources: *aṣ-Ṣaḥīḥ min ad-Durra al-muḍīʿa* ('Imād ad-Dīn) and *al-ʿAnwār al-muḍīʿa*. Although I do not know the contents of these works, the resemblance of their titles to *ad-Durra al-muḍīʿa fi l-luḡa at-turkiyya* is in my view no coincidence: the titles are meant to refer to some mutual link; *Durra* was either based on *al-ʿAnwār al-muḍīʿa* or formed the basis for it itself. The work *aṣ-Ṣaḥīḥ min ad-durra al-muḍīʿa*, likewise on the basis of its title, may have been based on *Durra*. Further research on both *Durra*'s and *Bulḡa*'s Turkic language material and their structure has to be done in order to show whether any more common features exist.

A nice example of direct reference is *Tuḥfa*'s reference to 'Abū Ḥayyān's *ʿIdrāk*. Since we find in *Tuḥfa* not only 'Abū Ḥayyān's name but also a literal copy of the passage in which 'Abū Ḥayyān explains the principles for the description of a language, it seems reasonable to assume that *ʿIdrāk* forms a direct source for *Tuḥfa*. In the scope of the present study, however, we shall not attempt to determine the extent to which Turkic language material has been transmitted from *ʿIdrāk* to *Tuḥfa*, but concentrate on the way the Arabic model was applied in both works. The findings with regard to *Ḥilya* are summarised in Figure 2 (see page 46). In the first place we find a reference to Muḥammad bn Qays, who may have been the author of one or more of the works mentioned. As a result, the link between the name Muḥammad bn Qays and *Ḥilya* may have to be replaced by any one of the other links. As for the title *Kitāb Yaḥyā al-Malik*, it may be a false reading *Kitāb Ḥilā al-Malik* (see Section 1.2). The findings with regard to the Margin Grammar are summarised in Figure 3 (see page 46).

<sup>87</sup> Because of this misunderstanding *Qawānīn* is registered under 'Abū Ḥayyān's name in the library of the Süleymaniye in Istanbul.

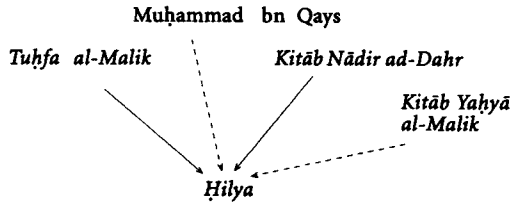


Figure 2 *Ḥilya* and its Turkic primary sources

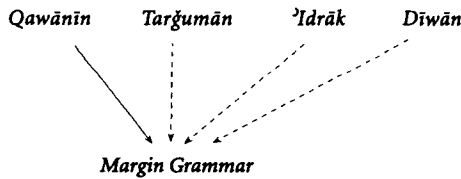


Figure 3 The Margin Grammar and its Turkic primary sources.

As is shown in Section 1.10, there is ample direct and indirect evidence for the Margin Grammar's relations to *Qawānīn*, and convincing indirect evidence for relations with *Tarḡumān*, *'Idrāk*, and *Dīwān*.

### 2.1.2 Arabic primary sources

The second category of primary material, the Arabic sources, is not easy to point out for each work separately. The authors of most of the sources do not make reference to their teachers, nor to the Arabic works they used. In most cases they probably saw no need to stress a link between grammars of Arabic and the work on Turkic they were compiling. As a consequence, they considered it superfluous to refer to their Arabic primary material. Nevertheless, some of the authors do



mention some of their teachers and the Arabic primary works they used. The data are summarised in figure 4:

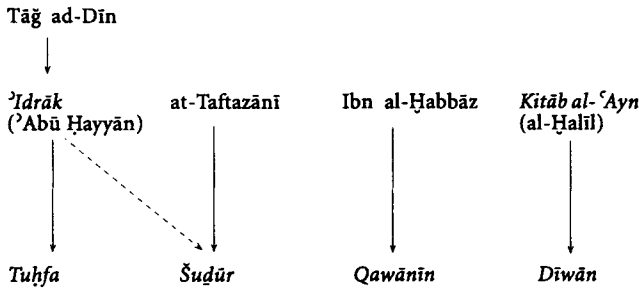


Figure 4 Arabic primary sources.

The few names they mention—*Dīwān* refers to al-Ḥalīl, *'Idrāk* to Tāg ad-Dīn, *Qawānīn* to Ibn al-Ḥabbāz, *Šudūr* to both 'Abū Ḥayyān (implying *Durra*) and at-Taftazānī and, finally, *Tuḥfa* to 'Abū Ḥayyān—show that the authors had had a general education in Arabic linguistics. The direct influence of any of this primary material, however, is impossible to measure. Some relationships are even uncertain, for instance, *Šudūr*'s dependence on 'Abū Ḥayyān.

A very sound dependency relation is the link between *Tuḥfa* and 'Abū Ḥayyān's *'Idrāk*. *Tuḥfa*'s dependence on *'Idrāk* is reflected in both the direct reference to 'Abū Ḥayyān's principles and in its adoption of the same structure as *'Idrāk*, which I discuss in Section 2.2. In this respect, 'Abū Ḥayyān—or perhaps just *'Idrāk*—may be interpreted as *Tuḥfa*'s main source for the Arabic linguistic model and perhaps also for a part of the Turkic language material.

*Tarğumān* does not mention any Arabic primary sources, therefore it cannot be incorporated in either one of the figures.

## 2.2 Indirect evidence: internal structure

In Section 2.1. I showed evidence for direct relations between the sources, let us now define the place of each one of the sources within the Arabic linguistic tradition based on the findings with regard to the internal structure of the primary sources (See Appendix to chapter Two, page 55 ff.).

Before proceeding, it is appropriate to say something about the importance of the way the grammatical data are structured in the sources.

In the first section (1.1-10) it is shown that some of them (namely *Dīwān*, *Ḥilya*, *ʿIdrāk*, *Tuḥfa*, *Qawānīn*, *Tarǧumān*, the Margin Grammar and *Šuḍūr*) contain grammatical information on a Turkic language —or even more than one, for that matter. Other works (*Bulǧa* and *Durra*) just consist of a word list. Let us consider again the subject of this study: the way Arabic grammarians described Turkic languages. In this respect I must obviously concentrate on treatises that contain grammatical rather than lexical data. But, apart from the amount of the data, for this study it is equally important that the grammatical data upon which it is based are structured coherently. In other words, it is not only the body of data itself that is of importance, but also its typological context.

It is possible to divide some of the sources into two ‘traditions’, based on a common internal structure that already existed within the Arabic grammatical tradition, namely one that follows ʿAbū Ḥayyān’s *Irtiṣāf* and a second one that follows the traditional pattern of Arabic grammar works, for which Zamaḥṣārī’s *Mufaṣṣal* is taken as an example. The only work that stands beyond this division is Kāšǧarī’s *Dīwān*, which belongs to the lexicographical rather than the grammatical tradition.

### 2.2.1 ʿIdrāk and Tuḥfa

In the first place, as has already been noted, there seem to exist some connections between ʿIdrāk and Tuḥfa. I have already referred to the fact that Tuḥfa’s anonymous author quotes ʿAbū Ḥayyān. When comparing the structure of both works, the consequences of his adherence to ʿAbū Ḥayyān’s principles are evident. Both works are divided into four parts: 1. a word list (lexicology); 2. a brief introduction into phonological matters, 3. morphology and 4. syntax. Even the names of the chapter headings are in many cases literally the same. Thus, etymological, morphological and syntactic subjects are treated separately.

ʿIdrāk’s organisation is only slightly different from that of another work of ʿAbū Ḥayyān’s, namely *Irtiṣāf aḍ-ḍarb fī lisān al-ʿArab*. *Irtiṣāf* consists of three parts: first, phonology (I 4-12), second, morphology (*ʿaḥkām al-kalīm qabla t-tarkīb*) and third syntax (*ʿaḥkām al-kalīm ḥalata t-tarkīb*). To the second part belong, for example, the patterns of the word (14-162); the diminutive form (I 169); feminine form (I 179); the broken plural (192); regular plural forms (I 262), etc. The third part deals with all aspects of nouns, verbs and particles; in the first place the nouns: declension (I 411); pronouns (I 481); proper names (I 496); the relative (I 523); topic and predicate (II 3); locatives

and genitives as predicate (II 54); the verb *kāna* 'he was' (II 72); the verbs of the heart (*ʿafʿāl al-qulūb*; II 118); verb-like particles *ʿinna* and *ʿanna* (II 128); words with the ending *-a* (*al-manšūbāt*; II 201): (a) nouns (II 202), i.e. different kinds of objects; (b) verbs (II 387); words, i.e. nouns, with the ending *-i* (II 426); discussion of the particles of the genitive (II 426) and annexation (II 501); words, i.e. verbs, with zero-ending (II 541). After this follow various issues such as the attribute (*naʿī*, II 579); corroborative (II 613); substitution (II 619) the conjunction (II 629). Volume III starts the discussion of topics related to verbs (III 3); transitive to more than one object (III 56); the verbal noun (III 170); active participle (III 181); and finally the particles (III 255), such as the particle of interrogation (*hal*, III 257).

This division has some points of similarity with that of Sībawayhi's<sup>88</sup> *Kitāb*. The contents of the 574 *ʿabwāb* (chapters) the *Kitāb* can be roughly divided into three parts, i.e. syntax (1-284), morphology (285-476) and phonology (477-574) (cf. also Versteegh 1987:154).

In *Irtiṣāf* the division of speech into the three main categories, i.e. noun, verb and particle, plays a role on a different level than in other works of grammar, such as Zamahšari's *Mufaṣṣal*. In works like *Mufaṣṣal*, as is pointed out below, the tripartite division according to word class (nouns, verbs and particles) is the principal basis.

### 2.2.2 *Ḥilya, Qawānīn, Tarḡumān, Margin Grammar and Šudūr*

As has been briefly touched upon in the previous section, the other sources, namely *Ḥilya, Qawānīn, Margin Grammar and Tarḡumān* (while there are indications for this in *Šudūr* as well) show an entirely distinct division. This division is based on the tripartite classification of the elements of speech in Arabic grammar, i.e. 1. noun, 2. verb and 3. particle. Insofar as they contain word lists, the different items are divided among the three main sections.

This lay-out very much resembles that of the traditional organisation of Arabic grammar that started with Ibn Sarrāġ's *ʿUṣūl* (for which see Owens 1988:28f.). As an illustration I take Zamahšari's (467/1075 – 538/1144) *al-Mufaṣṣal fī n-naḥw*. After an introduction, *Mufaṣṣal* is divided into three main parts, and an additional fourth part: 1. *ʿasmāʾ* "nouns" (4-108); 2. *ʿafʿāl* "verbs" (108-130); 3. *ḥurūf* "particles" (130-

<sup>88</sup> ʿAbū Bišr ʿAmr (d. 177/793), whose *Kitāb* was the first known grammar of Arabic. Sībawayhi's master was al-Ḥalīl Ibn ʿAḥmad (d. 175/791) who is said to have compiled the first dictionary of Arabic: *Kitāb al-ʿayn* (cf. Wild 1965 and Talmon 1997). Bohas et al. (1990) claim that Sībawayhi's *Kitāb* was not intended as a coherent 'book' on Arabic grammar, but rather as a bundle of case studies of different grammatical subjects.

158) and 4. *al-muštariḳ* “common” (158-197). The fourth part deals with features that occur in nouns as well as verbs and particles, such as phonological issues among which assimilation of consonants (cf. also Versteegh 1987:154).

All this of course does not imply that I believe these works are literally based on *Mufaṣṣal*, it merely indicates the fact that they are organised much in a similar way. Indeed, it was the standard organisation of grammar works. For *Bulḡa* and *Durra* it is hardly possible to discern any overall main division since both are mere wordlists.

### 2.2.3 *Dīwān luḡāt at-turk*

With regard to Kāšḡarī’s *Dīwān*, we can discern a similar division into nouns and verbs. However, this is not enough to add it to the second group. More important is the fact that *Dīwān*’s structure is very much different, for it was based on Fārābī’s lexicon *Dīwān al-ʿadab fī bayān luḡa al-ʿarab*, in spite of the fact that no direct reference to it is found. I have already given some examples of *Dīwān*’s structure in Section 1.1. In the present section further details about the structure of both works are provided, and some statements as to the aptness of this structure for Turkic languages.<sup>89</sup>

To start with, as Muḥtār, the editor of *Dīwān al-ʿAdab*, points out, its principle of arranging entries is not very practical (18). The user has to know the structure of a word—and to know whether it is either *sālim*, *mudāʿaf*, *ʿaḡwaf* or *nāqiṣ* etc.—before looking it up. Such a system can be of use to people who are looking for rhyming words, like poets. On the other hand, Muḥtār admits, it is true that the last consonant of a root is subject to very few changes, unlike its first consonant, which can be preceded or followed by additional consonants for semantic reasons; in this way the original consonant pattern of a word can become blurred. An example of this is: (/f-ʿ-l/ ‘write’) /k-t-b/ can be changed into /k-t-t-b/ ‘to make (someone) write, to write intensive-ly’, /ʿ-k-t-b/ “to make (someone) write”, /k-ʿ-t-b/ ‘to write someone’, /y-k-t-b/ ‘he writes’ /m-k-t-b/ ‘place to write’ etc. The last consonant is affected only when the root gets pronominal suffixes, e.g. /k-t-b-t/ (*katabtu* ‘I wrote’, *katabta* ‘you wrote’, *katabti* ‘you (f) wrote’, *katabat* ‘she wrote’) or /k-t-b-n-/ (*katabnā* ‘I wrote’) etc., and in some pat-

<sup>89</sup> Another striking feature which sets *Dīwān* apart from the other sources is its terminology. Kāšḡarī uses an unusual, i.e. non-canonical, set of terms for describing objects in constructions with causative verbs (Chapter Six, 3.3.2), and some terms which remind of the Kufan tradition, e.g., *ḡaḥd* ‘negation’, *ḡābir* ‘present tense’ and *mubārā* ‘reciprocity’.

terns in which the last consonant is doubled, e.g. the pattern /'-f-<sup>ʕ</sup>-l-l/ e.g. *ibyadḍa* 'to become white'.

With this in mind, Kāšgarī's choice of Fārābī's system is quite surprising, since in Turkic languages all semantic changes affect the last part of the root, never the first. On the other hand, though, his system allows the reader to have a quick view on roots with the same type of ending (such as, e.g., vowel, voiceless, or voiced consonant) which determine the choice of suffixes the root takes.

Let us consider an example: The stem **biti-** means 'to write' (427,9); **bitik bitī-t-tī** 'anna-hu 'aktaba l-kitāba ("he made [someone] write the book", 415,10) under the heading *Bāb at-tulāḡī—Bāb fa'aldī muḥararak al-ḥašw fi ḥarakāti-hi* ("Chapter of triradical words—Chapter on *fa'aldī*, with the middle radical vocalised", 415,2). The pattern *fa'aldī* is adapted to Turkic verbs, which are conjugated for the imperfect form of the third person singular by adding the ending **-dī** to the stem. The word **biti-k** means "anything written" (193,9), **bitik-čī** "scribe", **biti-k-lik** "something prepared to be written on" (254,1), **biti-k-lik** "its owner [sc. of writing material]" (254,1-2). Of course, the stem can receive pronominal suffixes too, hence: **biti-dī** (427,9) 'he wrote' and **biti-di-k** 'we wrote'. We see that most of these words are listed in *Dīwān*, but scattered throughout the work.

In other vocabularies, in which the first consonant of the root is the main listing criterion, words of the same stem are neatly put together. An example of this is the word **biti-k** in 'Abū Ḥayyān's *Idrāk* (28). The main entry is **bitī** while **biti-k** is given as an alternative. The fact that alternatives can be found relatively easily can be even more important for at least one reason: it is not likely that all potential users of the dictionary would spell a word in the same way, since there were no orthographic conventions for Turkic. With the entries rigidly listed according to the last radical, as in *Dīwān*, a user looking for a dialectal or regional variant would not be able to find this word.

### 3. CONCLUSIONS

In the preceding section I have shown that the data found in the ten sources can be divided into two groups: direct evidence and indirect evidence. With regard to the direct evidence, a distinction was drawn between references to Turkic primary material on the one hand and Arabic primary material on the other. Since direct references to the Arabic primary material are very scarce, the internal structure of the sources was taken as additional 'indirect evidence'. There are two types

of internal structure: the first (A) is similar to the traditional organisation, illustrated by Zamaḥṣārī's *Mufaṣṣal*, whereas the second (B) to 'Abū Ḥayyān's *Irtiṣāf*.

This is illustrated in Figure 5:

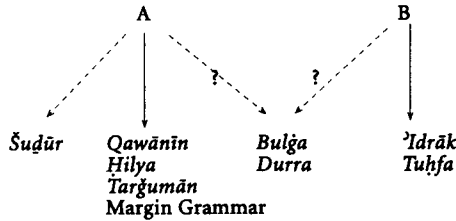


Figure 5 The sources in the context of the Arabic grammatical tradition

There remains one work which has not been placed in either group, namely Kāšgarī's *Dīwān Luḡāt at-Turk*. The reason for this lies in the fact that it was based on Fārābī's *Dīwān al-'Adab* and, perhaps, to some extent on al-Ḥalīl's *Kitāb al-ʿAyn*. From the structure of *Dīwān al-'Adab*, *Kitāb al-ʿAyn* and *Dīwān Luḡāt at-Turk*, it becomes obvious that none of them was meant as a grammar, but rather as a lexicographical work.

It is difficult to decide which place *Kitāb al-ʿAyn* occupies with regard to *Dīwān Luḡāt at-Turk*, since in the first place it is mentioned as a direct source—although its influence cannot be measured—and second it must have been a basis for *Dīwān al-'Adab*, since *Kitāb al-ʿAyn* was the first lexicographical work in the Arabic linguistic tradition (Cf. Wild 1965, Haywood 1965). In other words, *Kitāb al-ʿAyn* has served as a direct primary source for *Dīwān Luḡāt at-Turk* and simultaneously stands at the head of a tradition of lexicographical works of which *Dīwān Luḡāt at-Turk* also is a part, illustrated in figure 6 (page 53). *Dīwān* deserves a separate study with regard to its position within the Arabic lexicographical tradition—which stands more or less independently of the grammatical tradition—and, further, the way Kāšgarī interprets the system Fārābī used to arrange the Arabic roots and the extent to which *Dīwān* shows the influence of al-Ḥalīl's *Kitāb al-ʿAyn*.

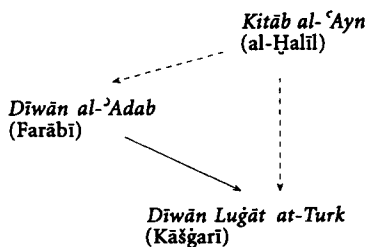


Figure 6 *Dīwān Luġāt at-Turk* and its place in Arabic lexicography

As to the relations between the sources with regard to the Turkic language material, there is reliable evidence for dependency relations between two of them (*Tuḥfa*—*ʿIdrāk*). There are also references to a number of primary sources (*ʿIdrāk*—Faḥr ad-Dīn and *ʿAnwār*; *Bulġa*—*ʿAnwār* and *Ṣaḥīḥ*; *Ḥilya*—*Tuḥfa al-Malik*, Muḥammad bn Qays, *Kitāb Nādir ad-Dahr* and *Ḥilā al-Malik*).<sup>90</sup> In some other cases, in which the evidence was not that strong, some claims were made with regard to possible relations (e.g. regarding *Šudūr* vs. both *ʿIdrāk* and *Durra* and *Durra* vs. *ʿAnwār* and *Ṣaḥīḥ*).

As for the place in the Arabic linguistic tradition, there are in the first place direct references to Arabic scholars (al-Ḥalīl, ʿAbū Ḥayyān, at-Taftazānī, Ibn al-Ḥabbāz, Faḥr ad-Dīn, Tāġ ad-Dīn). In the second place evidence has been found for the existence of at least two ‘traditions’ within the Arabic - Turkic linguistic grammatical tradition. The first ‘tradition’, which comprises both *ʿIdrāk* and *Tuḥfa*, largely follows the pattern of Sibawayhi’s *Kitāb*. The second ‘tradition’, to which belong *Ḥilya*, *Qawānīn*, *Tarġumān* and, perhaps, *Šudūr*, is the traditional organisation. The fact that *Qawānīn* has a structure which is quite different from that of *ʿIdrāk* proves that it is not likely to have been compiled by ʿAbū Ḥayyān, for the latter generally adhered to his own linguistic principles, even when he wrote his grammar of Turkic. The same goes for *Durra*, although its contents are, admittedly, not sufficiently elaborate as to sustain this assumption in full. As a matter

<sup>90</sup> I propose to read *Ḥilā al-Malik* instead of *Yahyā al-Malik* (cf. Section 1.2).

of fact, neither *Durra* nor *Bulğa* nor *Şudūr* can be incorporated with certainty in either of the two 'traditions'.

*Dīwān*, in spite of its length and the abundance of information that it presents, belongs to an entirely different class. This can be deduced from both its own structure as well as from the typology of its sources, namely *Kitāb al-ʿAyn* and *Dīwān al-ʿAdab*. Therefore, *Dīwān* belongs to the Arabic lexicographical rather than to the grammatical tradition.

The findings with regard to the different structure of our respective sources have consequences for the way they can be used in an analysis of the way Arabic grammarians described Turkic languages. In my view, the best method to accomplish this is to compare those of the sources that were compiled with a similar goal: to explain grammatical features of Turkic in terms of Arabic grammar. As long as all or the most important grammatical data are given, it is not necessary that all sources have a similar structure. It is obvious, however, that those sources that only contain a word list, and none or very few grammatical data, namely *Bulğa*, *Durra* and to a certain extent *Şudūr*, cannot meet this criterion. Similarly, a source that to some extent does contain the desired data but within an entirely different context, namely Kāşgari's *Dīwān*, does not fit entirely within the frame of this study either. In some cases the data that these sources provide may be useful, e.g. when the structural context is not relevant. For this reason, we shall concentrate on the representatives of the two streams, i.e. *Hilya*, *Qawānīn*, *Tarğumān*, the Margin Grammar, *ʿIdrāk* and *Tuḥfa*, and on the other sources as far as they provide grammatical analyses.



## APPENDIX TO CHAPTER TWO: CONTENTS OF THE SOURCES

The following gives an overview of the most important sources in this study. These are *Tuhfa*, *Hilya*, *Qawānīn*, *Tarğumān* and the Margin Grammar. An overview of *ʿIdrāk* is given in Part Two of this book.

	<i>Kitāb at-Tuhfa az-Zakiyya fi l-Luġa at-Turkiyya</i>	page
	[Introduction]	1 <sup>r</sup>
I	The letters on which the Language of the Qibġāq is based	2 <sup>r</sup> ,2
	Arabic-Turkic word list arranged according to alphabetical sequence ( <i>ḥarf al-bāʿ</i> - <i>ḥarf al-yāʿ</i> ) Each paragraph is divided into two separate parts one for the nouns ( <i>ʿasmāʿ</i> ) and the verbs ( <i>ʿafʿāl</i> ) respectively	3 <sup>r</sup> -38 <sup>v</sup>
	Grammatical Part:	
I 1	The Undetermined and the Determined [Word]	38 <sup>v</sup> 12
2	The Pronouns	39 <sup>6</sup>
3	Indicative Pronouns	41 <sup>6</sup>
4	The Relative Pronoun	42 <sup>9</sup>
5	The Diminutive	54 <sup>v</sup> 1
6	The Active Participle	46 <sup>8</sup>
7	The Passive Participle and [the Verb that] is formed as [a Verb] whose Agent is not Mentioned	47 <sup>5</sup>
8	The Noun of Place	481 <sup>2</sup>
9	The Instrument	48 <sup>v</sup> 4
10	The Manner	48 <sup>v</sup> 10;
11	The Verbal Noun	49 <sup>3</sup>
12	The Imperative Verb	49 <sup>v</sup> 11
13	The Prohibition	51 <sup>3</sup>
14	The Negation	51 <sup>7</sup>
15	The Negation with <i>lā</i>	51 <sup>v</sup> 11
16	The Past Tense	52 <sup>9</sup>

17	The Circumstantial Expression	<i>Bāb al-ḥāl</i>	53 <sup>5</sup>
18	The Future Tense	<i>Bāb al-istiqbāl</i>	53 <sup>8</sup>
19	The Transitive [Verb]	<i>Bāb al-muta<sup>c</sup>addī</i>	54 <sup>4</sup>
20	<sup>ʿ</sup> <i>afʿal</i> of the Superlative	<i>Bāb <sup>ʿ</sup>afʿal at-tafḍīl</i>	45 <sup>12</sup>
21	The Interrogation	<i>Bāb al-istiḥām</i>	55 <sup>7</sup>
22	The Plural	<i>Bāb al-ḡam<sup>c</sup></i>	56 <sup>13</sup>
23	The Substitute of the Agent	<i>Bāb an-nā<sup>ʿ</sup>ib<sup>c</sup> an al-fā<sup>c</sup>il</i>	58 <sup>8</sup>
24	The Reciprocity	<i>Bāb al-mufā<sup>c</sup>ala</i>	58 <sup>11</sup>
25	The Undeclinable [Verbs]	<i>Bāb al-mabniyāt</i>	59 <sup>10</sup>
26	The Reference	<i>Bāb an-nasab</i>	62 <sup>9</sup>
27	The Particles of Condition	<i>Bāb ḥurūf aš-šarḥ</i>	62 <sup>8</sup>
II	The Rules of Construction	<i>Bāb al-<sup>ʿ</sup>aḥkām at-tarkībiyya</i>	65 <sup>5</sup>
28	The Copulative verbs [ <sup>ʿ</sup> <i>idī</i> , <i>kāškā</i> , <i>ṣāndī</i> ]	<i>Bāb an-nawāsiḥ</i>	65 <sup>12</sup>
29	The Topic and the Predicate	<i>Bāb al-mubtada<sup>ʿ</sup> wa-l-ḥabar</i>	66 <sup>10</sup>
30	The Copulative Verbs [ <i>kāna</i> ]	<i>Bāb an-nawāsiḥ</i>	67 <sup>4</sup>
31	<i>Layta</i>	<i>Bāb layta</i>	69 <sup>1</sup>
32	<i>Kim</i>	<i>Bāb kīm</i>	69 <sup>12</sup>
33	<sup>ʿ</sup> <i>Uranlādī</i> , <i>ṣāndī</i> and <i>bildī</i>	<i>Bāb <sup>ʿ</sup>uranlādī - ṣāndī - bildī</i>	69 <sup>11</sup>
34	The Verb and the Agent	<i>Bāb al-fi<sup>l</sup> wa-l-fā<sup>c</sup>il</i>	70 <sup>3</sup>
III	The Verb's Requirements with Regard to Optional Parts of the Sentence	<i>Bāb muqtaḍayāt al-fi<sup>l</sup> min al-faḍalāt</i>	72 <sup>5</sup>
35	The locative of Time	<i>Bāb zarf az-zamān</i>	72 <sup>8</sup>
36	The locative of Place	<i>Bāb zarf al-makān</i>	73 <sup>5</sup>
37	The Circumstantial Expression	<i>Bāb al-ḥāl</i>	74 <sup>1</sup>
38	The Direct Object	<i>Bāb al-maf<sup>c</sup>ūl bi-hi</i>	77 <sup>6</sup>
39	Connection of the Agent to the Direct Object	<i>Bāb ta<sup>c</sup>alluq ism al-fā<sup>c</sup>il bi-l-maf<sup>c</sup>ūl bihi</i>	78 <sup>10</sup>
40	Connection of the Verbal Noun to the Direct Object	<i>Bāb ta<sup>c</sup>alluq al-maṣḍar bi-l-maf<sup>c</sup>ūl bi-hi</i>	78 <sup>13</sup>
41	The Coordination	[ <i>Bāb al-<sup>c</sup>atf</i> ]	80 <sup>1</sup>
42	The Corroborative	<i>Bāb at-tawkīd</i>	81 <sup>6</sup>
43	The Substitution	<i>Bāb al-badal</i>	81 <sup>10</sup>
44	The Assimilation	<i>Bāb al-<sup>ʿ</sup>idḡām</i>	81 <sup>12</sup>
45	The Second Person	<i>Bāb al-muḥāṭab</i>	82 <sup>2</sup>
46	The Quotation	<i>Bāb al-ḥikāya</i>	82 <sup>7</sup>
47	The Elision	<i>Bāb al-ḥaḍf</i>	82 <sup>2</sup>

48	The Derivation	<i>Bāb al-ištiqāq</i>	83 <sup>1</sup>
49	The Vocative	<i>Bāb an-nida<sup>3</sup></i>	84 <sup>2</sup>
50	The Admiration	<i>Bāb at-ta<sup>c</sup>ağğub</i>	84 <sup>4</sup>
51	<i>Ni<sup>c</sup>ma</i> and <i>bi<sup>3</sup>sa</i>	<i>Bāb na<sup>c</sup>ima wa-ba<sup>3</sup>isa</i>	84 <sup>9</sup>
52	The Request for Help	<i>Bāb al-istiğāta</i>	85 <sup>6</sup>
53	Plural of the Plural	<i>Bāb ġam<sup>c</sup> al-ġam<sup>c</sup></i>	85 <sup>9</sup>
54	The Particles of the Apocopate	<i>Bāb ħurūf al-ġazm</i>	85 <sup>2</sup>
IV	Chapter that Comprises Pronouns	<i>Bāb ġāmi<sup>c</sup> li-ḍ-</i>	86 <sup>6</sup>
55	and Markers	<i>ḍama<sup>3</sup>ir wa-l-<sup>c</sup>alāmāt</i>	
	End		90 <sup>v</sup>

*Kitāb Ḥilya al-Insān wa-Ḥalaba al-Lisān*

I		<i>an-Naw<sup>c</sup> al-<sup>3</sup>awwal</i>	
	Introduction (with an elaborate section on Turkic phonetics)	<i>Tamhīd</i>	72
	Morphology of nouns	<i>Taṣrīf al-<sup>3</sup>asmā<sup>3</sup></i>	
1	Plural	<i>al-Faṣl al-<sup>3</sup>awwal fi l-ġam<sup>c</sup></i>	81
2	Diminutive	<i>al-Faṣl at-tānī fi t-taṣḡir</i>	82
3	The Meaning of <i>ḍū</i>	<i>al-Faṣl at-tāliṭ fi ma<sup>c</sup>nā ḍū</i>	83
4	The Negation	<i>al-Faṣl ar-rābi<sup>c</sup> fi n-nafy</i>	83
5	The Relational Adjective	<i>al-Faṣl al-ḥāmiš fi n-nasab</i>	84
6	The Annexation	<i>al-Faṣl as-sādiš fi l-<sup>3</sup>iḍāfa</i>	84
7	The Adjective	<i>al-Faṣl as-sābi<sup>c</sup> fi ṣ-ṣifa</i>	87
8	The Active Participle	<i>al-Faṣl at-tāmin fi l-fā<sup>c</sup>il</i>	87
9	The Direct Object	<i>al-Faṣl at-tāsi<sup>c</sup> fi l-maf<sup>c</sup>ūl</i>	88
		<i>bihi</i>	
10	The Verbal Noun	<i>al-Faṣl al-<sup>c</sup>ašir fi al-maṣdar</i>	89
11	The Circumstantial Expression	<i>al-Faṣl al-ḥādī<sup>c</sup> ašar fi l-ḥāl</i>	89
12	Locatives of Time	<i>al-Faṣl at-tānī<sup>c</sup> ašar fi zurūf</i>	90
		<i>az-zamān</i>	
13	Locatives of Place	<i>al-Faṣl at-tāliṭ<sup>c</sup> ašar fi zurūf</i>	90
		<i>al-makān</i>	
14	Particles	<i>al-Faṣl ar-rābi<sup>c</sup> ašar fi l-<sup>3</sup>adawāt al-ḥarfīyya</i>	91
15	Condition	<i>al-Faṣl al-ḥāmiš<sup>c</sup> ašar fi ṣ-šarṭ</i>	94
16	Interrogation	<i>al-Faṣl as-sādiš<sup>c</sup> ašar fi l-<sup>3</sup>istifhām</i>	94
17	Admiration	<i>al-Faṣl as-sābi<sup>c</sup> ašar fi at-ta<sup>c</sup>ağğub</i>	96
18	Particles of Comparison	<i>al-Faṣl at-tāmin<sup>c</sup> ašar fi ħurūf at-tašbih</i>	96

19	Particles of the Comparative and the Superlative	<i>al-Faṣl at-tāsi</i> <sup>ᶜ</sup> <i>aṣar fi l-mubālaḡa wa-t-tafḡil</i>	97
20	Exception	<i>al-Faṣl</i> <sup>ᶜ</sup> <i>aṣrūna fi l-’istiṡnā’</i>	97
[II]	Morphology of the Verb	<i>Taṣāriḡ al-’af’āl</i>	98
I	Verbs of the Past Tense	<i>al-Bāb al-’awwal fi l-’af’āl al-māḡiya</i>	98
	[List of Turkic verbs 102-116]		
1	The Verb of the Future Tense	<i>al-Faṣl al-’awwal fi al-fi’l al-mustaḡbal</i>	116
2	The Verbal Noun	<i>al-Faṣl at-tānī fi al-maṣḡdar</i>	118
i	The Verbal Noun of Biradical Verbs	<i>al-Maṣḡdar</i> <sup>ᶜ</sup> <i>an at-tunā’iyya li-l-’af’āl</i>	119
ii	The Verbal Noun of Triradical Verbs	<i>al-Maṣḡdar</i> <sup>ᶜ</sup> <i>an al-fi’l at-tulāḡī al-’aṣlī</i>	121
iii	The Verbal Noun of Quadriradical Verbs	<i>al-Maṣḡdar</i> <sup>ᶜ</sup> <i>an ar-rubā’i al-’aṣl</i>	123
iv	The Verbal Noun of Quinquiradical Verbs	<i>al-Maṣḡdar</i> <sup>ᶜ</sup> <i>an al-ḡumāsī al-’aṣlī</i>	[124]
v	The Verbal Noun Emerging from a Noun	[ <i>al-Maṣḡdar an-nāṣi’</i> <sup>ᶜ</sup> <i>an al-ism</i> ]	[125]
III	Imperative And Prohibition	<i>al-Bāb at-tāliṡ fi fi’l al-’amr wa-n-nahy</i>	126
IV	The Verb whose Agent is not mentioned, the Passive-Reflexive form and the Reciprocal Form	<i>al-Bāb ar-rābi’ fi fi’l mā lam yusamma fā’iluhu wa-l-’infi’āl wa-t-tafa’ul</i>	129
V	<sup>ᶜ</sup> <i>af’altu</i> for Transitivity, Reciprocity and Wishing	<i>al-Bāb al-ḡāmiṣ fi ’af’altu li-t-ta’addī wa-t-fā’ul wa-staf’ala</i>	130
VI	Prohibition, Negation And Refusal	<i>al-Bāb as-sādis fi n-nahy wa-n-nafy wa-l-ḡaḡd</i>	134
Pt II	The Simple Meanings [Arabic-Turkic word list arranged according to semantic categories (on page 185 <i>Faṣl fi t-tāriḡ</i> Section about the time: turkic calendar with the 12-animal cycle and on p 188 a short Turkic-Arabic word list)]	<i>al-Qism (an-naw’) at-tānī fi al-musammayāt as-sādiḡa</i>	137-191

*al-Qawānīn al-Kulliyya li-Dabṭ al-luġa at-turkiyya*

	Introduction		3
	Introduction	<i>Muqadimma</i>	4,4
I	Chapter One on the verb and what is connected and attached to it	<i>al-Bāb al-ʿawwal fī l-fiʿl wa-mutaʿalliqātihi wa-lawāḥiqihi</i>	6,11
1	The Imperative	<i>al-Qism al-ʿawwal fī l-ʿamr</i>	6,15
2	The Past Tense	<i>al-Qism at-tānī fī l-mādī</i>	8,18
3	The Imperfect	<i>al-Qism at-tālīt fī l-muḍāriʿ</i>	11,18
4	The Negation	<i>al-Kalām ʿalā n-nahy</i>	12,20
5	The Interrogation	<i>al-Kalām ʿalā l-istiḥām</i>	14,9
6	The Prayer	<i>al-Kalām ʿalā d-duʿā</i>	18,1
7	The Wish	<i>[al-Kalām ʿalā] t-tamannā</i>	18,8
8	The Potentiality	<i>[al-Kalām ʿalā] t-taraḡġā</i>	18,11
9	The Incitement*	<i>[al-Kalām ʿalā] taḥḍīd</i>	19,1
10	The Condition	<i>[al-Kalām ʿalā] š-šarṭ</i>	19,3
11	The Verbal Noun	<i>Faṣl [ʿan al-maṣḍar]</i>	22,9
12	The Verbal Noun of Meanings	<i>Maṣḍar al-maʿānī</i>	23,5
13	The Active Participle	<i>Ism al-fāʿil</i>	23,20
14	The Passive Participle	<i>Ism al-mafʿūl</i>	24,5
15	The Superlative with [the pattern] ʿafʿal	<i>ʿAfʿal li-t-tafḍīl</i>	24,5
16	The Manner	<i>al-Hayʾa</i>	24,20
17	The Instrument	<i>al-ʾĀla</i>	25,5
18	The Locative of Place	<i>Ism al-makān</i>	25,11
19	The Locative of Time	<i>Ism az-zamān</i>	25,15
II	The Noun and what is dependent from it	<i>al-Bāb at-tānī fī l-ism wa-mutaʿalliqāti-hi</i>	25,16
1	The Agent	<i>al-Fāʿil</i>	25,19
2	Substitute of the Agent	<i>an-Nāʾib ʿan al-fāʿil</i>	26,9
3	The Topic and the Predicate	<i>al-Mubtadaʾ wa-l-ḥabar</i>	26,22
4	The Copulative Verbs	<i>an-Nawāsiḥ</i>	27,17]
	Words governed in the <i>naṣb</i> (Accusative)	<i>al-Manṣūbāt</i>	30,15
1	The Object	<i>al-Mafʿūl</i>	30,17
2	The Direct Object	<i>al-Mafʿūl bihi</i>	31,1
3	The Object for Which	<i>al-Mafʿūl lahu</i>	33,1
4	The Concomitate Object	<i>al-Mafʿūl maʿahu</i>	34,3
5	The Object in Which (locative)	<i>al-Mafʿūl fihi</i>	34,9

6	The Absolute Object	<i>al-Maf'ūl al-muṭlaq</i>	37,3
7	The Circumstantial Condition	<i>al-Ḥāl</i>	37,8
8	The Specification	<i>at-Tamyīz</i>	38,14
9	The Exception	<i>al-Istiṭnā'</i>	39,17
	Words governed in the genitive	<i>al-Mağrūrāt</i>	40,15
1	The Overt Noun governed in the genitive by a Particle	<i>al-Qism al-'awwal al-ism az-ẓāhir al-mağrūr bi-l-ḥarf</i>	41,1
2	The Overt Noun governed in the genitive by the Annexation	<i>al-Qism at-tānī al-ism az-ẓāhir al-mağrūr bi-l-'iḍāfa</i>	44,1
3	The Suffixed Pronoun governed in the genitive by a Particle	<i>al-Qism at-tālīṭ al-ism al-muḍmar mağrūr bi-l-ḥarf</i>	45,1
4	The Suffixed Pronoun Governed in the genitive by Annexation	<i>al-Qism ar-rābi' al-ism al-muḍmar al-mağrūr bi-l-'iḍāfa</i>	46,1
	The Undeclinable [Noun]	<i>al-Mabnī</i>	47,3
1	Suffixed Pronouns	<i>al-Muḍmarāt</i>	47,6
2	The Indicative Pronoun	<i>ism al-'iṣāra</i>	49,6
3	The relative Pronoun	<i>al-Mawṣūl</i>	49,14
4	The number	<i>ism al-'adad</i>	51,13
5	The verbal noun	<i>ism al-fi'l</i>	51,17
6	Some locatives	<i>Ba'd az-zurūf</i>	52,5
7	The vocative	<i>al-Munādi</i>	52,10
8	Adverbials separated from Annexation	<i>al-Ġāyāt al-maqtū'a 'an al-'iḍāfa</i>	53,1
9	What is negated by <i>lā</i>	<i>al-Manfi bi-lā</i>	53,8
10	compound [words]	<i>al-Murakkabāt</i>	53,15
	Completion of the [Chapter on the] noun and what is attached to it	<i>Bāb mutammim li-l-ism wa-lawāḥiqi-hi</i>	54,3
1	The active participle	<i>Ism al-fā'il</i>	54,5
2	The reference	<i>an-Nisba</i>	54,11
3	The diminution	<i>at-Taṣḡīr</i>	55,15
4	Plural and dual	<i>al-Ġam' wa-t-taṭniya</i>	56,11
5	Concrete Nouns	<i>'Asmā' al-'a'yān</i>	57,13
III	The Particles	<i>al-Bāb at-tālīt fi l-ḥurūf</i>	68,6
1	The Particle of transitivity	<i>Ḥarf at-ta'diya</i>	68,7
2	The Particle of Involvement and Cooperation	<i>Ḥarf al-mušāraka wa-l-mufa'ala</i>	70,1
3	The Particle of the Answer	<i>Ḥarf al-ğawāb</i>	70,13

4	The Particle of the Imperfect	<i>Ḥarf al-mudāraʿa</i>	71,3
5	The Particle of the Past Tense	<i>Ḥarf al-māḍī</i>	71,4
6	The Particle of Negation and Prohibition	<i>Ḥarf an-nafy wa-n-nahy</i>	71,6
7	The Particle of Interrogation	<i>Ḥarf al-istifhām</i>	71,9
8	The Particle of the Imperative	<i>Ḥarf al-ʿamr</i>	72,1
9	The Particle of Condition	<i>Ḥarf aš-šarṭ</i>	72,3
10	The Particle of the Verbal Noun	<i>Ḥarf al-mašdar</i>	72,5
11	The Particle of the Reason	<i>Ḥarf at-taʿlīl</i>	72,8
12	The Particle of Wishing	<i>Ḥarf at-tamannī</i>	72,10
13	The Particle of Annexation	<i>Ḥarf al-ʿidāfa</i>	73,1
14	The Particle of Alerting	<i>Ḥarf at-tanbīh</i>	73,3
	Epilogue	<i>al-ḥātima</i>	73,11
	End of the Book	<i>ʿĀhir al-kitāb</i>	79,1

### Targūmān

	Introduction		2-4
I	The Nouns	<i>al-Qism al-ʿawwal fi l-ʿasmāʾ</i>	
	Word list arranged according to subject	I <i>al-Faṣl al-ʿawwal fi ʿasmāʾ al-ʿalawīyāt wa-mā qāraba-hā</i> (5); II <i>fi l-ʿarḍ wa-mā fi-hā min al-ʿamākin</i> (5); III <i>fi l-miyāh wa-mā yulāʿimu-hā</i> (6); IV <i>fi l-ʿašḡār wa-l-fawākih wa-n-nabāt</i> (7); V <i>fi l-zirāʿāt wa-l-ḥubūb</i> (9); VI <i>fi t-ṭuyūr</i> (9); VII <i>fi l-waḥš</i> (11); VIII <i>fi l-ḥašarāt</i> (11); IX <i>fi l-ḥayl</i> (12); X <i>fi s-silāḥ wa-ʿadad al-ḥayl wa-l-ḥarb</i> (13); XI <i>fi l-ḡamāl wa-l-baqar</i> (14); XII <i>fi l-ḡanam wa-l-maʿz</i> (14); XIII <i>fi l-ʿaṭʿima wa-l-maʿkūl wa-l-mašrūb wa-l-ʿalbān</i> (15); XIV <i>fi ʿaṭāṭ al-bayt wa-l-faraš wa-mā yaḥuṣṣu bi-n-nisāʾ min al-malbūs</i> (16); XV <i>fi l-malbūs wa-ʿanwāʿ al-qumāš</i> (18); XVI <i>fi ḥayʿa al-ʿinsān wa-fi ʿaḍāʾi-hi az-zāhira</i> (19); XVII <i>fi l-ʿaḍād wa-l-ḥisāb</i> (22); XVIII <i>fi marātib an-nās wa-ʿarbab aš-šanāʾi wa-ʿadad kull šanʿa</i> (23); XIX <i>fi šifāt an-nās</i> (24); XX <i>fi ism kull šayʿin wa-ḍiddi-hi</i> (25); XXI <i>fi ʿawqāt ad-dahr wa-z-zamān</i> (28); XXII <i>fi tafsīr al-ʿasmāʾ at-turkiyya min al-mamālīk wa-l-ḡawārī</i> (29); XXIII <i>fi l-ʿalwān</i> (31); XXIV <i>fi l-maʿādin</i> (31); XXV <i>fi l-ʿaqārib wa-l-ʿaḡānib wa-l-maʿārif wa-l-mamlūk wa-s-sitt wa-l-ḡāriya</i> (31)	5-31

II	The Imperative [form] of the Verbs and the Particle of Pausality in the Address of the 2nd Person Singular	<i>al-Qism at-tānī fi l-ʿamr bi-l-ʿafʿāl wa-lafza al-istirāḥa fi l-muḥāṭaba li-l-wāḥid al-ḥādir ḥarf al-ʿalif (33) - ḥarf al-hāʾ (44)</i>	33-44
III	Declension of Speech and Verbs	<i>al-Qism at-tālīt fi taṣrīf al-kalām wa-l-ʿafʿāl</i>	44
1	The Past Tense	<i>Faṣl fi l-māḍī</i>	46
2	The Future Tense of the Verbs	<i>Faṣl fi l-mustaqbal min al-ʿafʿāl</i>	47
3	Inflection of the Present Tense	<i>Faṣl fi taṣrīf al-ḥāl [= fi l-ḥālī]</i>	49
IV	Rules of Speech and Number of the Words and Utterances with which the Future Tense is Completed	<i>al-Qism ar-rābiʿ fi ḍawābiṭ al-kalām wa-ʿadad kalimāt wa-ʿalfāz bihinna yukmal al-qaṣd min al-mustaqbal</i>	50
1	The Turkic Word <i>mū</i>	<i>Lafza mū at-turkiyya</i>	50
2	The Turkic Word <i>ʿidī</i>	<i>Lafza ʿidī at-turkiyya</i>	50
3	The Turkic Word <i>čī</i>	<i>Lafza čī at-turkiyya</i>	50
4	The Turkic Word <i>dāš</i>	<i>Lafza dāš at-turkiyya</i>	50
5	The Turkic Word <i>kim</i>	<i>Lafza kim at-turkiyya</i>	51
6	<b>dan</b>	<b>dan</b>	51
7	The Turkic Word <i>dā</i>	<i>Lafza dā at-turkiyya</i>	51
8	The Turkic Word <i>lū</i>	<i>Lafza lū at-turkiyya</i>	51
9	The Turkic Word <i>sīz</i>	<i>Lafza sīz at-turkiyya</i>	51
10	The two Turkic [sic] Words <i>laka</i> for possession and <i>laka</i> for address	<i>Lafza laka al-milkiyya wa-laka al-qawliyya at-turkiyyatāni [sic]</i>	52
11	The Turkic Word <i>nī</i>	<i>Lafza nī at-turkiyya</i>	52
12	The Two Arabic Words <i>fawqa</i> and <i>taḥta</i>	<i>Lafza fawqa wa-taḥta al-ʿarabiyyatāni [sic]</i>	53
13	The Arabic Word <i>bayna</i>	<i>Lafza bayna al-ʿarabiyya</i>	53
14	The Arabic Word <i>wasat</i>	<i>Lafza al-wasat al-ʿarabiyya</i>	53
15	The Arabic Word <i>maʿa</i>	<i>Lafza maʿa l-ʿarabiyya</i>	54
16	The Arabic Word <i>maʿa</i>	<i>Lafza ʿinda al-ʿarabiyya</i>	54
17	The Arabic Word <i>ḡayr</i>	<i>Lafza ḡayr al-ʿarabiyya</i>	54
18	The Arabic Word <i>li-ʿaḡli</i>	<i>Lafza li-ʿaḡli al-ʿarabiyya</i>	54
19	The Two Arabic Words <i>kam</i> and <i>bi-kam</i>	<i>Lafza kam wa-bi-kam al-ʿarabiyyatāni [sic]</i>	55
20	The Arabic Word <i>kayfa</i>	<i>Lafza kayfa al-ʿarabiyya</i>	55
21	The Arabic Word <i>matā</i>	<i>Lafza matā al-ʿarabiyya</i>	55
22	The Arabic Word <i>ṭumma</i>	<i>Lafza ṭumma al-ʿarabiyya</i>	56
23	The Arabic Word <i>ʿaydan</i>	<i>Lafza ʿaydan al-ʿarabiyya</i>	56
24	The Arabic Words <i>ḥādā</i> and <i>huwa</i> and <i>ʾiš</i> and <i>šayʾ</i>	<i>Lafza ḥādā wa-huwa wa-ʾiš wa-š-šayʾ al-ʿarabiyyāt</i>	56



25	The Two Arabic Words <i>al-ʿadnā</i> and <i>al-ʿaqṣā</i>	<i>Lafzatā al-ʿadnā wa-l-ʿaqṣā al-ʿarabiyyatāni</i> [sic]	56
26	The Two Arabic Words <i>hunā</i> and <i>hunāka</i>	<i>Lafzatā hunā wa-hunāka al-ʿarabiyyatāni</i> [sic]	57
	Epilogue		57

*Anonymous Grammar in the Margins of Veli ed-Dīn Ms 2896*

(The fragments are given in the sequence in which they occur in the manuscript. Since their sequence has not yet been established, the numbers in the ultimate left column do not necessarily indicate separate sections. Abbreviations: bm = bottom; md = middle; lt = left; rt = right)

1	The Plural	<i>Bāb al-ḡam<sup>c</sup></i>	34 <sup>top</sup>
2	The Active Participle	<i>al-ʿAmr at-tāni: ism al-fāʿil</i>	35 <sup>lt</sup>
3	ʿafʿala for the Superlative	<i>al-ʿAmr ar-rābi<sup>c</sup>: ʿafʿala at-tafḍil</i>	35 <sup>bm/rt</sup>
4	The Passive Participle	<i>al-ʿAmr at-tāliḡ: ism al-mafʿūl</i>	36 <sup>top</sup>
5	The Instrument	<i>al-ʿAmr as-sādis: al-ʿāla</i>	36 <sup>lt</sup>
6	The manner	<i>al-ʿAmr al-ḡāmis: al-hayʿa</i>	37 <sup>lt</sup>
7	The Passive-reflexive Form	<i>Bāb al-infiʿāl</i>	37 <sup>lt</sup>
8	The Future [Tense]	<i>Bāb al-fiʿl al-mustaḡbal</i>	38 <sup>rt</sup>
9	The <i>lām</i> for transitivity	<i>Bāb al-lām bi-manzila bāb at-tafʿil</i>	38 <sup>top</sup>
10	Transitivity of verbs	<i>Bāb taʿdiya al-ʿafʿāl</i>	38 <sup>rt</sup>
11	The Corroborative	<i>al-Qawl fi t-taʿkīd</i>	41 <sup>bm</sup>
12	The Verbal Noun of Meanings	<i>an-Naw<sup>c</sup> at-tāni Maṣdar al-maʿāni</i>	41 <sup>top/rt</sup>
13	Suffixed Pronouns	<i>Bāb al-muḍmarāt fi l-ʿasmāʾ</i>	42 <sup>bm</sup>
14	Rules of the Words with which the Phrase is Completed	<i>al-Qism ar-rābi<sup>c</sup> fi ḡawābiḡ kalimāt bihinna yukmal al-qaṣd</i>	42 <sup>bm</sup>
15	Relative Pronouns	<i>Bāb al-mawṣūlāt</i>	42 <sup>lt/bm</sup>
16	Undeclinable Words: Unspecified [words]	<i>al-ḡins at-tāni min al-mabniyāt: bināʿan lāziman mubhamāt</i>	43 <sup>rt</sup>
17	Undeclinable Words: Relative Pronouns	<i>al-ḡins at-tāliḡ min al-mabniyāt bināʿan lāziman al-mawṣūlāt</i>	43 <sup>lt</sup>
18	Indicative Pronouns	<i>Bāb ʿasmāʾ al-ʿiṣāra</i>	43 <sup>bm</sup>
19	Suffixed Nouns and Unspecified [Nouns]	<i>an-Naw<sup>c</sup> at-tāni fi l-ʿasmāʾ al-muḍmara wa-l-mubhama</i>	44 <sup>top</sup>
20	The Imperative	<i>Bāb al-ʿamr</i>	44 <sup>top</sup>

21	Declension of the Circumstantial expression	<i>Faṣl fī taṣrīf al-ḥāl</i>	44 <sup>lt</sup>
22	<i>Kay</i>	<i>Bāb kay</i>	45 <sup>top/rt</sup>
23	Words	<i>Faṣl fī l-kalimāt</i>	50 <sup>top</sup>
24	The Interrogation	<i>Bāb al-istifhām</i>	50 <sup>bm</sup>
25	The Negation	<i>Bāb an-nahy</i>	52 <sup>top</sup>
26	[The Verb whose] agent is not Mentioned	<i>Bāb mā lam yusamma fā<sup>ᶜ</sup>iluhu</i>	52 <sup>rt</sup>
27	The Circumstantial Expression	<i>al-<sup>ʿ</sup>Awwal al-ḥāl</i>	53 <sup>bm</sup>
28	The Circumstantial Expression	<i>al-Ḥāl</i>	54 <sup>top</sup>
29	The Circumstantial Expression	<i>Qā<sup>ᶜ</sup>ida fī l-ḥāl</i>	54 <sup>rt</sup>
30	The Nouns Governed in the <i>naṣb</i> : the Circumstantial Expression	<i>Wa-min al-manṣūb al-ḥāl</i>	54 <sup>rt/ult</sup>
31	The Circumstantial Expression	<i>Bāb al-ḥāl</i>	54 <sup>bm/lt</sup>
32	The Direct Object	<i>Qā<sup>ᶜ</sup>ida fī l-maf<sup>ᶜ</sup>ūl bihi</i>	55 <sup>top</sup>
33	The Direct Object	<i>an-Naw<sup>ᶜ</sup> al-<sup>ʿ</sup>awwal: al-maf<sup>ᶜ</sup>ūl bihi</i>	55 <sup>rt/md</sup>
34	The Marker of Objectivity	<i>Alāma al-maf<sup>ᶜ</sup>ūliyya</i>	55 <sup>bm</sup>
35	The Object in Which: the Locative	<i>aḍ-ḍarab al-ḥāmis min al-maf<sup>ᶜ</sup>ūl: aḍ-ḍarf</i>	55 <sup>rt/bm</sup>
36	The Locative	<i>aḍ-ḍarf</i>	56 <sup>top</sup>
37	The Object for Which	<i>aḍ-ḍarab aṭ-ṭānī: al-maf<sup>ᶜ</sup>ūl lahu</i>	57 <sup>rt</sup>
38	The Excepted	<i>aḍ-ḍarab aṭ-ṭālīt: al-mustaṭnā</i>	57 <sup>lt</sup>
39	The Specification	<i>aḍ-ḍarab aṭ-ṭānī: at-tamyiz</i>	57 <sup>rt</sup>
40	The Particles of the genitive	<i>Bāb ḥurūf al-ḡarr</i>	58 <sup>lt</sup>
41	[The words that are governed] in the genitive by particles	<i>al-Maḡrūr bi-l-ḥurūf</i>	58 <sup>rt</sup>
42	[The words that are] governed in the genitive by annexation	<i>al-Maḡrūr bi-l-<sup>ʿ</sup>idāfa</i>	59 <sup>lt</sup>
43	[The words that are] governed in the genitive by annexation	<i>an-Naw<sup>ᶜ</sup> aṭ-ṭānī fī l-maḡrūr bi-l-<sup>ʿ</sup>idāfa</i>	59 <sup>rt</sup>
44	The <i>lām</i> of possession	<i>Bāb lām al-milkiyya</i>	61 <sup>top/rt</sup>
45	The Coordination	<i>Bāb an-naw<sup>ᶜ</sup> aṭ-ṭālīt: al-<sup>ᶜ</sup>atf</i>	61 <sup>bm</sup>
46	The Word <i>daḡī</i>	<i>Lafza daḡī</i>	62 <sup>top</sup>

47	Markers of the Verb: <b>ġinġā</b>	<i>Wa-min ʿalāmāt al-ʾafʿāl: ġinġā</i>	62 <sup>top</sup>
48	The Complete Survey	<i>al-Maqṣad al-muštamil</i>	63 <sup>top</sup>
49	The Arabic words <i>law lā</i>	<i>Lafza lawlā al-ʿarabiyya</i>	64 <sup>rt</sup>
50	Particles and the Like	<i>al-Qawl fi l-ḥurūf wa- mušābahātihā</i>	65 <sup>top/rt</sup>
51	Particles that govern the noun in the genitive	<i>Faṣl fi l-ḥurūf allatī taḡurru l- ʾasmāʾ</i>	65 <sup>ʷ</sup>
52	Particles that govern the noun in the accusative	<i>Faṣl fi l-ḥurūf allatī taṣṣubu l- ism</i>	65 <sup>ʷ</sup>
53	Particles that govern the noun the accusative and the predicate in the nominative	<i>Faṣl fi l-ḥurūf allatī taṣṣubu l- ism wa-tarfa ʿ l-ḥabar</i>	65 <sup>ʷ</sup>
54	Two particles that govern the noun in the nominative and the predicate in the accusative	<i>Faṣl ḥarfāni tarfa ʿāni l-ism wa-taṣṣubāni l-ḥabar</i>	65 <sup>ʷ</sup>
55	Particles that govern the imperfect verb in the accusative	<i>Faṣl fi l-ḥurūf allatī taṣṣubu l- muḍāriʿ</i>	65 <sup>ʷ</sup>
56	Particles that govern the imperfect verb in the apocopate	<i>Faṣl fi l-ḥurūf allatī taḡzimu l- muḍāriʿ</i>	65 <sup>ʷ</sup>
57	The Particles of Coordination	<i>Faṣl fi ḥurūf al-ʿatf</i>	65 <sup>ʷ</sup>
58	Other Particles	<i>Faṣl fi ḥurūf ḡayrihā</i>	65 <sup>ʷ</sup>
59	Free Pronouns governed in the nominative	<i>Faṣl l-muḍmarāt munfaṣil marfūʿ</i>	66 <sup>ʷ</sup>
60	Free [nouns] governed in the accusative	<i>Munfaṣil maṣṣūb</i>	66 <sup>ʷ</sup>
61	Bound [nouns] governed in the genitive	<i>Munfaṣil maḡrūr</i>	66 <sup>ʷ</sup>
62	Bound [nouns] governed in the nominative	<i>Muttaṣil marfūʿ</i>	66 <sup>ʷ</sup>
63	Bound [nouns] governed in the accusative	<i>Muttaṣil maṣṣūb</i>	66 <sup>ʷ</sup>
64	Indicative Pronouns	<i>ʾAsmāʾ al-ʾiṣārāt</i>	66 <sup>ʷ</sup>



## CHAPTER THREE

# PERCEPTION AND DESCRIPTION OF PHONOLOGICAL AND PHONETIC FEATURES OF TURKIC

## INTRODUCTION

This chapter aims at shedding light on the way the Arabic sources perceived and described the phonetic and phonological features of Turkic. It deals with matters such as the quantity and quality of Turkic consonants and vowels, vowel harmony and consonant assimilation. The present survey is a study of concepts and perceptions. It does therefore not give a description of the phonetics and phonology of 'medieval Turkic'.

The study of perceptions and concepts is not related to just one issue, but two. The first issue is how the Arab authors perceived Turkic phonetics and phonology. The second issue is how they formulated their perceptions by means of the concepts which they had acquired within the Arabic linguistic tradition. One would expect the descriptions to be fairly similar, if not uniform, since they eventually derive from the same model. The present study shows that they are not; at least there are more discrepancies than one would expect, even allowing for differences in the Turkic languages, and it appears that the authors had various phonetic and phonological concepts of Arabic as well.

Although studies by Cantineau (1960), Fleisch (1961) and Roman (1983) have shed some light on the interpretation of phonetic descriptions in Arabic source material (al-Ḥalil, Sibawayh, Ibn Ğinnī), there still is no general agreement as to the exact phonetic characteristics of the classical Arabic language of their times. However, for the purposes of this study the exact characteristics of classical Arabic are, in fact, of minor importance. It suffices as a starting point that there indeed was agreement among the Arab grammarians and phoneticians themselves on the quantity and quality of consonants and vowels, regardless of whether we comprehend the descriptions they provided in full detail.

This brings us to a following problem, namely that of accuracy of the descriptions. Without a full understanding the Arabic descriptions and knowledge of the phonetic features of 'medieval Turkic', judging

their accuracy would be, indeed, a very complex matter. However, a number of features can safely be postulated for all Turkic languages. In this respect one should think of vowel harmony, consonant assimilation and the occurrence of certain consonants and vowels, such as, e.g., [ö, o] and [ŋ]. It shall be seen that basic principles from Arabic theory on velarisation and palatalisation play an important role in the description of Turkic vowels. These principles suffice for the rather rough distinction between back and front vowels, but they lack much of the precision which is needed for a clear distinction between rounded and unrounded vowels. Nevertheless, my intention is to show that with these instruments it is possible to accurately describe Turkic vowels.

The descriptions of Turkic are interesting from yet another point of view. As is generally known, the Arab grammarians as a rule hardly describe dialectal features. Such descriptions could be instructive for both the historical development of dialectal phonology, and for better assessing their concepts of phonetics. The study of how they applied their phonetic and phonological concepts on foreign languages provides a good opportunity for this. In this chapter I shall show that the perceived phonetic qualities of dialectal pronunciation is more likely to be the basis for those concepts than the traditional prescriptions of Classical Arabic.

In this chapter, section I gives an outline of Arabic thinking on phonetics and morphonology, followed by a study of Turkic phonemes in Section 2. Further, section 3 provides an extensive discussion of the Arab grammarians' perception of the phonetical and morphonological aspects of Turkic.

## 1. ARABIC THINKING ON PHONETICS AND MORPHONOLOGY

Although the main interest of the Arab grammarians was the description of syntactic and morphological issues, they also described the pronunciation of Arabic. They based their discussions on speech examples of Bedouin tribes living on the Arabian Peninsula. Although the dialects of those tribes also differed considerably from each other and from the Classical Arabic language, their status was very much higher than that of the vernaculars of the people in the cities. For a long time after the Islamic conquests, Arab scholars continued to refer to the old speech examples taken from the speech of so-called unspoilt Bedouin tribes, which were supposed to have preserved the Arabic language from

external influences. The Bedouins were considered 'native speakers' of the language of the holy Qurʾān (cf. Levin 1994).

Arab grammarians, in their treatises on Arabic grammar, discussed the speech and poetry of a small number of Bedouin tribes living on the Arabian Peninsula. Although they were principally not interested in phonetics, they did not fail to notice the variations in use and pronunciation of the Arabic language, especially among the Bedouin tribes.<sup>1</sup> Studying the speech examples they obtained from selected tribes, the grammarians found themselves confronted with different ways of pronouncing some consonants and vowels, consonant and vowel exchange, and assimilation of consonants. These subjects had to be described and explained, since some of them could affect the form and, hence, the meaning.

The first Arabic work on grammar was Sībawayh's *Kitāb*, compiled in the eighth century AD, which became the ultimate reference source for all grammarians throughout for many centuries to follow. A relatively small number of pages at the end of *Kitāb* are dedicated to phonology and phonetics. Most later grammarians also treated phonetics at the end of their works (Owens 1988:28-9). An exception to this convention is ʿAbū Ḥayyān's *Irtiṣāf*, in which the first sections are dedicated to phonological matters such as the places of articulation, the substitution of consonants and assimilation.

Before discussing how exactly Arab grammarians perceived and described Turkic phonemes, it is necessary to give a brief outline of Arabic theory on phonology and phonetics, with special attention for the description of consonants and allophones, and those of vowels and vowel harmony.<sup>2</sup>

### 1.1 *The Arabic consonant system*

In the Arabic tradition the concept of phoneme in the modern sense did not exist. What did exist, though, was a basic list of consonantal sounds, each of which was associated with a (prescribed) pronunciation and a unique grapheme. The grammarians knew that the basic consonants were occasionally realised in a non-standard manner, in some instances those changes could be related to laws of an apparent phonological nature, such as *ṣ* before *d* becomes *z*, *ṣ* before *d* > *ǧ*, etc.

<sup>1</sup> For a discussion about the pre-Islamic dialects on the Arabian Peninsula, see Rabin (1951).

<sup>2</sup> Research on Arabic phonological theory started with Schaade (1911), Bravmann (1934) and Cantineau (1960).

In *Kitāb* (II 404-407; also Ibn Ğinnī, *Sirr* I 436ff), the sounds of speech are 29 ‘basic consonants’ *hurūf ʿaṣliyya*<sup>3</sup> and the three vowels, *ḥarakāt*, literally ‘movements’, *a* (*fatha*), *u* (*ḍamma*) and *i* (*kasra*).

1 ʾ	8 k	15 r	22 s	29 w <sup>4</sup>
2 ʾalif	9 q	16 n	23 z	
3 h	10 ḍ	17 ṭ	24 ḍ	
4 ʿ	11 ġ	18 ḍ	25 ṭ	
5 ḥ	12 š	19 t	26 f	
6 ġ	13 y	20 š	27 b	
7 ḥ	14 l	21 z	28 m	

These consonants are produced on 16 ‘places of articulation’ (*maḥrağ* pl. *maḥāriğ*),<sup>5</sup> ranging from the back of the throat up to the lips, here summarised in nine main areas:

- 1 *ḥalqiyya* (laryngal): ʾ h ʾalif<sup>6</sup> ʿ ḥ ġ ḥ
- 2 *lahwiyya* (uvular): q k
- 3 *šağariyya* (“consonnes de l’ouverture de la bouche” [Cantineau 1960:20]): ġ š ḍ y
- 4 *ḍawlaqiyya* (liquids): r l n<sup>7</sup>
- 5 ʾasaliyya (sibilants): š s z
- 6 *niṭʿiyya* (dental): ṭ ḍ t
- 7 *liṭawiyya* (alveolar): z ḍ ṭ
- 8 *šafawiyya* (labial): f b m w
- 9 *ḥayšūmiyya* (nasal): ḥ (‘soft n’ [*nūn ḥafifa*]).

Consonants that share the same place of articulation or whose places of articulation are close may assimilate, or be substituted with each other, and a new (allophonic) sound may arise from the combination. The allophones are discussed below in 1.2.<sup>8</sup>

<sup>3</sup> Some later grammarians, however, did not share this opinion. ʾAbū Ḥayyān al-ʾAndalusī mentions some of the opposing grammarians by name and discusses their views. Points of disagreement are e.g. the question whether or not the *hamza* should be considered a phoneme, since according to some Arab grammarians the glottal stop (*hamza*) should not be considered a phoneme (cf. *Irtiṣāf* I 4). A further point of discussion is the exact number of the places of articulation.

<sup>4</sup> This sequence is according to Sibawayh. Cf. *Kitāb* ed. Būlaq II 404 in: *Bāb al-ʾidğām* ‘Chapter about the assimilation’, at the end of the second volume. There are indications that ʾidğām, usually translated as ‘assimilation’, in fact means something like ‘pronouncing simultaneously’. (Mr Michel Limpens, pc. April 1995).

<sup>5</sup> The exact number of the places of articulation, however, always remained a subject of discussion among the grammarians. In *Irtiṣāf* it is 16.

<sup>6</sup> ʾalif is posited here theoretically, since in reality it cannot have a sound; it is an orthographical device only.

<sup>7</sup> This categorisation does not necessarily agree with the one used in western analysis of consonants (see 2.1 below).

<sup>8</sup> Roman (1983: I 48) ‘zone d’émission’.



The consonants are subcategorised according to a total of seventeen criteria based on some characteristics they have in common, such as *šādīda* 'occlusive' vs. *riḥwa* 'spirant', and *mahmūsa* vs. *maḡhūra*.<sup>9</sup> The latter pair is generally understood as 'voiceless' and 'voiced', respectively. The consonants listed as *mahmūsa* are: /h ḥ ḫ k š s t ṣ ṭ f/. *Maḡhūra* are /ʔ ʰ ʳ ʳ̥ q ḡ y ḍ l n r ṭ d z ẓ ḍ b m w/ (*Irtiṣāf* I 10,5; for further discussion see Cantineau 1960:22 and Fleisch 1961).<sup>10</sup>

### 1.1.1 Classification of consonants: velarisation and palatalisation

Apart from a classification according to their inherent qualities, the consonants are divided into several subcategories, in which to their effect on neighbouring vowels is the main criterion.

One such categorisation of the consonants is that in *ḥurūf mustaʿliya* 'elevated consonants' and *mutasaffil* 'depressed'. The former category includes the four 'covered consonants' (*ḥurūf muṭbaqa*), i.e. *ṣ*, *ṭ*, *ḍ* and *ẓ*, also called 'emphatic' (discussed below 1.1.2), along with the guttural consonants, i.e., *q*, *ḥ*, *ḡ* and, occasionally, *ḫ* and 'ayn. Ibn Ğinnī describes *istiʿlāʾ* as an 'elevation' to the 'palate' (*Sirr* I 26,4f), which is not identical with 'covering' (*ʿiṭbāq*).

The main effect of the so-called 'elevated consonants' on the neighboring vowels, is that *ʾimāla*, the inclination of *a* toward *i*, does not occur. This distinction between elevated and depressed consonants is important for our study since sources use this as the main instrument for describing front and back vowels in Turkic words. This common feature of all 'elevated' consonants is called *tafḥīm* 'velarisation' (also *taglīz*). With *tafḥīm* *a* is pronounced [a], [ɑ̣], or even [o]. The result is a neutral, or a 'back' pronunciation of the preceding and following vowels, especially evident in the realisation of *a* as [a], [ɑ̣] or [o]. For example, the word *kalb* 'dog' is pronounced [kɑ̣lb], whereas *qalb* 'heart' is [qalb]. Ibn Ğinnī posits the latter /a/ "between *a* and *u*" (see further descriptions of vowels in 1.4.2).

<sup>9</sup> Cantineau (1960:22) mentions the confusion that exists with relation to the meanings of these terms. An adequate interpretation has not yet been found. Roman (1983: I 54) proposes for *mahmūsa* 'chuchoté' (whispered) and for *maḡhūra* 'éclatant' (shrill). Interesting in this context is al-Kindī's reference to musical terminology when discussing these terms: al-Kindī's category *naḡma* 'melody' almost completely covers the *ḥurūf maḡhūra* (cf. Celentano 1979:71).

<sup>10</sup> If *mahmūsa* and *maḡhūra* indeed stand for voiceless and voiced, respectively, then the labelling of *hamza ʾ* as *maḡhūra* is surprising. The labelling of *q* and *ṣ* as 'voiced' is surprising only within our perception of the Arabic phonetic system, which is based on modern Arabic languages.

In some ancient dialectal variants of Arabic velarisation is reported to occur independently, i.e. without being conditioned by the occurrence of a preceding or following elevated consonant. In the dialect of the Ḥiğāz, for example, the the word /zakaˈt/ ‘charity’ is pronounced [zako:t]. Ibn Ğinnī calls the ʾalif in this word which he uses to express ā, “the ʾalif of velarisation” (ʾalif at-taḥīm), which he explains as “the ʾalif inclines to w” (*al-ʾalif mālat naḥwa l-wāw*, *Sirr* I 50,5). In order to illustrate this, *zakāt* is occasionally written with /w/ instead of ʾalif, viz., /zakawt/; and in fact Ibn Ğinnī is using here the diphthong /aw/ as a device for indicating [o:].

It is interesting to note that although in the preceding quotations *fathā* is compared to *ḍamma*, and ʾalif to *wāw*, ʾalif and *wāw* themselves do not express a vowel sound, being orthographic devices only.

### 1.1.2 The ‘covered consonants’

A subcategory of the elevated consonants are the four ‘covered consonants’ (*ḥurūf muṭbaqa*), i.e. ṣ, ḍ, ṭ, ẓ (all other consonants are considered *ḥurūf munfatīha*, ‘opened consonants’).<sup>11</sup> The *ḥurūf muṭbaqa* share a common position of the tongue in the mouth while being pronounced, namely “from their points of articulation until the part of the tongue that is in ‘front’ of the palate” (*min mawāḍiʿihinna ʾilā mā ḥādā l-ḥanak al-ʾaʿlā min al-lisān*, *Kitāb* II 406).

Three of the four ‘covered consonants’ have an ‘opened’ counterpart, i.e., ṣ - s, ḍ - d, and ṭ - t (cf. also ar-Rāzī *Tafsīr* I 104,6 f). This last pair is surprising at first sight; although ṭ is nowadays regarded as a mere velarised t, historically it goes back to a velarised d (see however, Ibn Sīna on ṭ - t 1.1.4; also Cantineau 1960:18).

Of special interest is ض, traditionally transcribed as ḍ, which has no counterpart. It was probably lateralised, and Cantineau (1960:55) interprets it as /ḍl/. Roman, on the other hand, prefers /z/ (Roman 1983:162-206). For the purposes of this study it suffices to conclude that whatever its exact historical pronunciation was like, it was certainly not a mere velarised d, and, as a result, ḍ cannot form a pair with d (cf. also *Sirr* I 61,16ff). (The value of ḍ is important in regard to its status in Turkic; two sources, i.e., *Qawānīn* and *Durra* use this grapheme for expressing a velarised d; cf. 3.1)

<sup>11</sup> Al-Ḥalīl (d. 160/776), Sibawayh’s teacher, reserves the term *muṭbaq* for the *m*. In *Kitāb al-ʿAyn* “al-Ḥalīl calls the *mīm* ‘covered’, because it covers the mouth when it is pronounced.” (*wa-kāna l-ḥalīl yusammī l-mīm muṭbaqa li-ʾannahā tuṭbiq al-fam ʾiḍā nuṭīqa bihā*, *Kitāb al-ʿAyn* 58,16.) This statement is related to a different, probably older, concept of the term *muṭbaq* (Michel Limpens, p.c. April 1995).

### 1.1.3 Effects on other consonants

The covered consonants may also have an effect on neighboring other consonants. This occurs, for example, when /t/ is inserted after the first consonant of the root /fa<sup>ʕ</sup>ala/ in the pattern /ifta<sup>ʕ</sup>ala/. If the first consonant of the root is a 'covered consonant', the inserted /t/ changes into ʦ, e.g., *iṣṭāda* 'he hunted' from *ṣāda* 'he hunted'. In Arabic theory, this is not considered a phonetic phenomenon, but rather an instance of substitution (*ʿibdāl*) (cf. below 1.3; cf. Zamahṣari *Mufaṣṣal* 172ff; cf. Fleisch 1961:95).

#### 1.1.4 *r* and *l*

In addition to the elevated consonants, *r* and *l*, too, may cause a conditioned 'back' realisation of accompanying vowels. This back realisation is conditioned by the occurrence of *u* and *a*. In Arabic grammar, these allophones are called *lām mufahḥama* and *rāʾ mufahḥama*, velarised *l* [l̠] and *r* [r̠], respectively. I discuss these the underlying principles in some detail as they are important for the interpretation of *r* and *l* in Turkic.

The default position of *l* and *r* is palatalisation (*tarqīq*). In *Irtiṣāf* (I 249,5; I 20f) this term is applied to *r*, when it is not pronounced velarised (also in ar-Rāzī's *Tafsīr* for the default *l*, I 104,4). The perception of *l* and *r* as velarised in certain conditions plays an important role in the perception of Turkic words with *r* and *l* (3.1.2). These conditions are outlined in works by ʿAbū Ḥayyān, ar-Rāzī and Ibn Sīnā. It should be stressed that for the present study the importance of Arabic descriptions lies not in the question whether or not *r* and *l* are velarised, but rather in the observation that the Arab grammarians perceived them as such. For this reason I quite extensively deal with the question of how, in their opinion, the velarisation of *l* and *r* is conditioned.<sup>12</sup>

##### 1.1.4.1 Velarised *r*

In *Irtiṣāf* (I 248,20ff) ʿAbū Ḥayyān gives a detailed account of the instances in which *r* has a conditioned velarised pronunciation, i.e. when the following and/or preceding vowels are pronounced 'back'. Velarisation of *r* is permitted in the following instances:

<sup>12</sup> Studies of dialectal Arabic (Grotzfeld 1965:7, Blau 1977:23, Mitchell 1993 and Younes 1994) also point to a velarised realisation of *r* close to *a* or *u*. There seems a similar tendency for *z*, which in similar instances becomes ʒ, e.g., *zaffara* > *zaffar* "fettig machen"... *zunnar* > *ʒənnār* "Gürtel" (Grotzfeld 1965:8).

- 1 if *r* is followed by *y*, e.g., [qarya] ‘village’, [maṣyam] ‘Mary’
- 2 if *r* is followed (?) by an elevated consonant that is vocalised with *i*, e.g., [faṣṣiqi] ‘difference’, [miṣṣaḥan] ‘elbow’ (ACC)
- 3 if *r* is vocalised with *a*, e.g., [ḡiṣṣān] ‘neighbours’
- 4 if *r* is vocalised with *u*, while preceded by *y*, e.g., [ḥayṣun] ‘blessing’, [qadiṣun] ‘powerful’
- 5 if *r* is preceded by a basic *i* (*kasra lāzima*), e.g., [ḥasiṣa] ‘he suffered’, [ḥasiṣū] ‘they suffered’
- 6 if *r* is followed by another *r* that is vocalised with *i*, e.g., [bi-ṣṣararin] ‘with evil’
- 7 if *r* occurs in an Arabic word between *i* and *a* (*bayna l-maṣṣṭūḥa wa-l-kaṣṣr qablahā*), not being followed by another *r* nor an elevated consonant, e.g., [diṣṣr] ‘remembrance’ (for *ḍiṣṣr*)

Velarisation of *r* is obligatory,

- 8 if the preceding *i* is non-basic (*‘āriḍ*) (i.e. short), e.g., [bi-ṣṣasūl] ‘with a messenger’, [bi-ṣṣūḥ] ‘with a spirit’
- 9 if *r* follows a consonant vocalised with *i*, e.g., [siṣṣāḥil] ‘wolves’ (em. for *sarāḥil* [sing. *siṣṣāḥil*])
- 10 if *r* is followed by a second *r*, e.g., [miḍṣṣār] ‘abundant with rain’
- 11 if *r* is followed by an elevated consonant, e.g., [ʔaṣṣṣāḍ] ‘honour’ (pl)
- 12 if *r* occurs in foreign words [ʔiḥṣṣāḥim] ‘Ibrāḥim’
- 13 if *r* is preceded by an accidental *i* and followed by an elevated consonant, e.g., [ʔiṣṣṣāḍ] ‘to provide’.

ʔAbū Ḥayyān’s account is not very illuminating in the sense that he does not give overall rules; instead, one loses track because of the details and exceptions (discussed by Zamaḥṣarī in *Mufaṣṣal* [159,20ff] in similar terms). The clear tendency, though, is that *r* is velarised if preceded or followed by an elevated consonant, or *a* or *u*. This is true even in ʔAbū Ḥayyān’s examples in which the velarisation is reportedly associated with the occurrence of *i*—distinguishing between accidental and basic *i*—the two other vowels *a* and *u* play a role. (cf. also Cantineau 1960:48f; 98; 182).

#### 1.1.4.2 Velarised *l*

The *l* is velarised when it is preceded or followed by one of the four ‘covered consonants’ (*ḥurūf muṣṣabaqa*), e.g., [naṣṣlubu] for *naṣṣlubu* ‘we demand’, [ʔiṣṣāḥ] ‘reparation’, [yaṣṣlubu] ‘he is firm’, [aṣṣ-ṣalā] ‘the prayer’, [iḥṣṣāḥ] ‘he mingled’ and [iṣṣaḡṣaḡa] ‘he became crude’ (*Irtiṣṣāf* I 248,10ff). In fact, the examples show that velarisation of *l* too can

easily be related to either the effect of neighbouring elevated consonants, or the occurrence of *a* or *u*. (cf. Cantineau 1960:50ff).

The most frequent and only non-allophonical—example of velarisation of the *l*, as far as it is mentioned by the Arab grammarians, occurs in the word [ʔalla:h] ‘God’ (cf. *Kitāb* II 267-270). The double *l* is pronounced velarised when the word ʔallāh is preceded by *u* or *a*. After *i*, the velarisation is lifted, which results in pronunciation with ʔimāla of the following *a*, e.g., [bi-smillā:hi] ‘In the name of God’.<sup>13</sup>

#### 1.1.4.3 Descriptions of the velarised *l* and its status

Since the velarised *l* occupies a special position in Arabic phonetics, which may be enhanced by its occurrence in the word ʔallāh, its status is more detailedly described than that of other velarised consonants. In *Irtiṣāf*, for example, ʔAbū Ḥayyān describes the regular, or neutral, realisation of the *l* as “*l* between velarisation and palatalisation” (*al-lām al-mutawassiṭa bayna t-tafḥīm wa-t-tarqīq*, *Irtiṣāf* I 8; also I 248,10f). In ar-Rāzī’s (d. 543/1149) *Tafsīr* (I 103,22) the *lām mufahḥama* is regarded as an ‘elevated consonant’ (*ḥarf mustaʿlin*).<sup>14</sup> The relation between the two variants of *l* is described as follows:

“The palatal *l* is pronounced with the side of the tongue, whereas this velarised *l* is pronounced with the whole tongue, which requires more effort.” ([ʔanna] *l-lām ar-raqīqa ʔinnamā tuḍkaru bi-ṭaraf al-lisān wa-ʔammā ḥāḍihi l-lām al-muḡallaḏa fa-ʔinnamā tuḍkar bi-kull al-lisān fa-kāna l-ʕamal fihi ʔakṭar*, ar-Rāzī *Tafsīr* I 104,2.)<sup>15</sup>

The relation between the palatal *l* (*al-lām ar-raqīqa*) and the velarised *l* (*al-lām al-ḡalīza*) is further compared with the relation between *ṣ* and *s*, and ar-Rāzī wonders why the two *l*s are, in fact, not considered distinct phonemes, like *ṣ* and *s*:

“And likewise the *s* is a consonant and the *ṣ* is another, and the [linguists] should say that the palatal *l* is a consonant, and the velarised *l* another, but they do not do so, although there is a difference.” (*wa-kaḏālika s-sīn ḥarf wa-ṣ-ṣād ḥarf ʔāḥar fa-kāna l-wāḡib ʔayḏan ʔan yaqūlū al-lām ar-raqīqa*

<sup>13</sup> Because the velarised *l* occurs in the standard language in one word only, Roman does not consider it a productive allophone: “Le /l/ de /ʔallāh/, s’agissant du nom de Dieu, s’explique bien par une emphase rhétorique” (Roman 1983: I 321).

<sup>14</sup> Cf. Bravmann (1934:30). It seems, though, that *mustaʿlin* and *mufahḥam* were often interchanged; Sibawayh uses *mufahḥam* only once (cf. Troupeau 1976).

<sup>15</sup> Ar-Rāzī continues this passage saying that giving more effort is a good deed, and compares it with Moses who was told to love his Lord with all his heart. In this case man has to pronounce the name of God with his entire tongue, which means that he does so with all his heart (*Tafsīr* I 104,4).

*ḥarf wa-l-lām al-ḡalīza ḥarf ʾāḥar wa-ʾinnahum mā faʿalū dālīka wa-lā budd min al-farq, ar-Rāzī Tafsīr I 104,9.)*

All this does not answer the question why the velarised *l* is considered ‘elevated’ (*mustaʿlin*) rather than ‘covered’ (*muṭbaqa*), since, according to ar-Rāzī, the difference is the position of the tongue, which is exactly how the covered consonants distinguished from the elevated consonants. Ibn Sīnā (d. 428/1037), indeed, applies the term *muṭbaqa*, ‘covered’, to the velarised *l* whose effect he compares with *ṭ* (incidentally, he relates the *ṭ* to *t*, rather than *d*, as prescribed in the other manuals):

“There is a covered *l* which is related to the regular *l* in the same way the *ṭ* is related to the *t*. It occurs frequently in the language of the Turks.” (*wa-hāhunā lām muṭbaqa nisbatuhā ʾilā l-lām al-maʿrūfa nisba aṭ-ṭāʾ ʾilā t-tāʾ wa-takturu fī luḡa at-Turk, Ibn Sīnā, ʾAsbāb 16,9.*)

This statement confirms that the original phonetic interpretation as it was given by al-Ḥalīl (and perhaps later phoneticians and grammarians)<sup>16</sup> no longer reflected the phonetic reality anymore. It shall be seen in our discussion in 3.1.1 that *ṭ* represents velarised *t* in the Turkic sources too.

## 1.2 Allophones

This section deals with the description of consonantal allophones that have no effect on the preceding and following vowels. It is important to note that the Arab grammarians themselves had no concept comparable to our notions of ‘phoneme’ and ‘allophone’. However, they did make a distinction between *ḥurūf ʾaṣliyya* (basic consonants)—or *ḥālīša* (*Irtiṣāf* I 11), or *al-ḥurūf aṣ-ṣiḥāḥ* (*Irtiṣāf* 12,12; *K. al-ʿAyn* 51,14)—from which the *ḥurūf farʿiyya* (secondary consonants) are derived, a concept which is similar. It shall be seen in 3.6.4 that the same or very similar principles and descriptions are used for Turkic consonantal phonemes.

### 1.2.1 Basic and secondary consonants

Along with the base consonants (*ḥurūf ʾaṣliyya*), a number of allophonic or secondary consonants (*ḥurūf farʿiyya*) is taken into account.

<sup>16</sup> In this respect it is possible that phoneticians after al-Ḥalīl maintained his definitions, although they could not verify them with the speech examples at their disposal. As an example of this I refer again to *m*, which was considered ‘covered’ by al-Ḥalīl, but not by Ibn Ğinnī.

The fact that they are considered branches, or derivations of the base consonants is clear from their name. A large number of the allophones mentioned above occur conditioned by a given phonetic environment which is for each case discussed in detail by Fleisch (1961). For the present study it is not necessary to determine in detail the phonetic value of all allophones mentioned in *Kitāb*, Ibn Ğinnī's works (*Sirr* and *Ḥaṣā'is*), and *Irtiṣāf*. Instead, I shall briefly discuss some of them in order to give an impression of the way the terminology is applied.

The *ḥurūf far 'iyya* are either 'approved', (*mustahsan*), or 'inelegant' (*mustaqbah*), and they are described in detail in order to distinguish them from the basic consonants. It was necessary to discern between approved and non-approved consonants, in order to determine which ones could be used while reciting the Qur'ān (*Sirr* I 46,8). However, 'Abū Ḥayyān and Ibn Ğinnī do not agree on all points on which allophones to approved for the recitation.

Ibn Ğinnī mentions six approved allophones:

- 1 [ŋ] 'the light *n*' (*an-nūn al-ḥafifa*). In 'Abū Ḥayyān's *Irtiṣāf* this is the 'silent alleviated *n*' (*nūn sākina ḥafifa*), "the resonance is a derivation from the *n*" (*al-ḡunna far*<sup>c</sup> 'an *an-nūn*, *Irtiṣāf* I 8,4). This allophone of *n* especially occurs when the *n* precedes *k* and *q* (and some 13 other consonants; cf. Cantineau 1960: 38). According to Ibn Ğinnī (*Sirr* I 48,3) the *nūn ḥafifa* is produced on the *ḥayāšim* (sing. *ḥayšūm*) which is usually interpreted as referring to the nasal cavity.
- 2 'the alleviated *hamza*' (*al-hamza al-muḥaffafa*).<sup>17</sup>
- 3 'the velarised 'alif' ('*alif at-tafḥīm*)
- 4 'the palatalised 'alif' ('*alif al-'imāla*)<sup>18</sup>
- 5 [č] 'the š that is as ġ' (*aš-šīn allatī ka-l-ġīm*)
- 6 [z] velarised *z*—'the š that is as *z*' (*aš-šād allatī ka-l-zāy*). By 'Abū Ḥayyān described as 'š between š and *z*' (*šād bayna šād wa-zāy*).

'Abū Ḥayyān mentions three additional approved allophones:

- 7 [ž] 'the ġ that is as *z*' (*ġīm ka-zāy*)
- 8 'the *s* that is as *z*' (*sīn ka-zāy*)
- 9 [ʃ] 'the velarised *ʃ*' (*lām mufahḥama*).

<sup>17</sup> In *Sirr* (I 48,8ff) Ibn Ğinnī equates this allophone of the *hamza* with *hamza bayna bayna* literally 'hamza between between' by which was meant a soft pronunciation of *hamza* (Cantineau 1960:77). In *Irtiṣāf* also a *hamza musahhala* 'softened *hamza*' is mentioned, although its phonetic value is difficult to interpret.

<sup>18</sup> It should be stressed that, in spite its association with a vowel, in Arabic theory 'alif is basically a consonant, and its velarisation and palatalisation should be understood as applied to a consonant, not a vowel.

Ibn Ğinnī lists further eight disapproved variations which cannot be used during the recitation of the Qur'an and in poetry, viz.,

- 10 [č] 'the *k* that is between *ğ* and *k*' (*al-kāf allatī bayna al-ğim wa-l-kāf*), such as *ičtama*<sup>č</sup>ū for *iğtama*<sup>č</sup>ū 'they gathered'.
- 11 [g] 'the *ğ* that is as *k*' (*al-ğim allatī ka-l-kāf*), which 'Abū Ḥayyān describes as "they pronounce the [ğ] close to *k*" (*yuqarribūna [l-ğim] min al-kāf*, *Irtišāf* I 8,13), e.g., in *rakul* for *rağul* 'man'.
- 12 [ž] 'the *ğ* that is as *ž*' (*al-ğim allatī ka-ž-šin*)
- 13 a velarised *d* 'the weak *d*' (*ađ-dād ađ-da*<sup>č</sup>*ifa*); 'approved' with Sībawayh.
- 14 'the *ş* that is as *s*' (*aş-şād allatī ka-s-sin*)
- 15 'the *ţ* that is as *t*' (*aţ-tā' allatī ka-t-tā'*)
- 16 'the *z* that is as *t*' (*az-zā' allatī ka-t-tā'*)
- 17 'the *b* that is as *m*' (*al-bā' allatī ka-l-mim*).

'Abū Ḥayyān (*Irtišāf* I 8-9) gives four additional disapproved allophones, viz.,

- 18 [p] 'the *b* that is as *f*' (*al-bā' allatī ka-l-fā'*, *Irtišāf* I 9,5; also in *Kitāb* II 404), which is noted in the speech of the people of Furs, i.e. the Persians in, e.g., *ışbahān* ~ *ışpahān* 'Isfahan'.
- 19 [t̤] *dād da*<sup>č</sup>*ifa*, i.e. velarised *t*—'they pronounce the *t* close to the *d*' (*fa-yuqarribūna aţ-tā' min ađ-dād*, *Irtišāf* I 9,11).
- 20 [g] The 'knotted *q*' (*qāf ma*<sup>č</sup>*qūda*), 'the *q* between *q* and *k*' (*qāf bayna qāf wa-l-kāf*), or 'the *q* as *k*' (*al-qāf ka-l-kāf*, *Irtišāf* I 10,4). Also described by Sībawayh (*Kitāb* II 342) where he says that Persian [g] is as 'the consonant between *k* and *ğ*' (*al-ħarף bayna l-kāf wa-l-ğim*). A few lines further he adds "the [Persians] sometimes replace [k] with *q* because of its closeness to it" (*wa-rubbamā 'abdalū al-qāf li-'annahā qarība minhā*).

Ibn Sīnā calls the latter allophone *kāf*<sup>č</sup> *arabiyya*, referring by *arabiyya* to the Bedouin dialects of the Arabian Peninsula (cf. Ibn Sīnā *'Asbāb* 10; 14; Bravmann 1934:121; 127). Note that none of the aforementioned allophones is marked in orthography.<sup>19</sup>

### 1.2.2 Analysis of descriptive terminology used for allophones

From the descriptions given above, it follows that the grammarians had three ways to describe allophones. In the first place they use words like

<sup>19</sup> Roman draws the conclusion that *q* had different realisations varying from [ɣ] with a variant [g] in Sībawayh's time, via [g], with a variant [q] with Ibn al-ʿArabī (d. 638/1240), down to the modern realisation [q], with a variant [g] (cf. Roman 1983:140).



*ka* 'like', secondly, *bayna* 'between'. The third possibility is the use of adjectives.

With *ka*, it would appear at first sight that a resemblance, or even a simple replacement of consonants is intended. For example, the expression *kāfka-ġim* could simply mean that instead of [k] a [ġ] is pronounced, the result of which, strictly speaking, does not have to be a sound. However, the fact that a new sound are intended is in some instances evidenced by alternative, more explicit phonetic descriptions, e.g., "The ġ as š is a branch of the pure ġ" (*wa-ġim ka-šin far<sup>c</sup> an al-ġim al-ħāliša, Irtišāf I 9,1*).

The second term, *bayna*, is more precise in the sense that a new allophone is described with features of two basic sounds. For example, the allophone defined as 'š between š and z' (*šād bayna šād wa-zāy, ʾAbū Ḥayyān*) can in this sense be interpreted as some kind of voiced š, or a velarised z, but not as an interchange of z for š. Ibn al-Qāsiḥ in his commentary on the *Šāṭibiyya* uses the term *ʾiṣmām*, viz.,

"With this *ʾiṣmām* is meant the mingling of the sound of š with the sound of z, they are combined and a sound arises that is neither š nor z." (*wa-l-murād bi-ħādā l-ʾiṣmām ħalaṭ šawt aš-šād bi-šawt az-zāy fa-yamtaziġāni fa-yatawalladu minhumā ħarf laysa bi-šād wa-lā bi-zāy, Ibn al-Qāsiḥ [d.?] in his Commentary on the Šāṭibiyya apud Grünert 1912:236*).

Apart from some non-technical terms, such as *ħalaṭ* 'blend', and *yamtaziġu* 'it is combined', Ibn al-Qāsiḥ uses the term *ʾiṣmām* with this meaning, although its basic use seems to be with vowels (see 1.4.2 and 1.5.1.2). Another detail worth mentioning is that the term *ħarf* is used here in a sense that comes close to 'sound'.

The third way used for the description of allophones is the use of adjectives. An example of this is *ma<sup>c</sup>qūda* 'knotted' in [g], or *mufaḥḥam* for 'velarised'.<sup>20</sup>

<sup>20</sup> ʾAbū Ḥayyān quotes Sirāfi as saying: "As for the knotted *qāf*, Sirāfi said 'we saw people who pronounce *q* between *q* and *k* (end of quote). [The 'knotted *q*'] is nowadays frequently used by the ʿArabs that live outside the cities, to such an extent that almost all ʿArabs speak with a *q*, rather than with the pure *q* which is described in the books of the linguists...." (*wa-ʾammā l-qāf al-ma<sup>c</sup>qūda fa-qāla s-Sirāfi raʾaynā man yatakallamu bi-l-qāf baynahā wa-l-kāf* [end of quote] *wa-hiya l-ʾān ġāliba fi liṣān man yuġadu fi l-bawādī min al-ʿarab ḥattā lā yakādu ʿarabī yanṭuqu ʾillā bi-l-qāf al-ma<sup>c</sup>qūda lā bi-l-qāf al-ħāliša al-mawṣūfa fi kutub an-naḥwiyyin...*, *Irtišāf I 9,15*.) Interesting to note in this respect is that, according to the biographer Ibn ʾAyyak aš-Šafadī, ʾAbū Ḥayyān himself had this pronunciation of *q*: "His pronunciation is correct, the dialect of the Andalus, he knots the *q* close to the *k* but pronounces it correctly when reciting the Qurʾān." (ʿibāratuhu faṣiḥa, luġa al-ʾandalus, ya<sup>c</sup>qudu al-qāf qarīban min al-kāf ʿalā ʾannahū yanṭuqu biḥā fi l-qurʾān faṣiḥatan, *al-Wāfi*, 268, 12-13.)

### 1.3 Substitution, transformation and assimilation

In Arabic linguistic theory, the principle of substitution (*badal*) plays an important role in syntax, where elements are assigned a function because they can substitute others (Owens 1990:58ff), and in morpho(nology), in which seemingly non-regular forms are explained by means of substitution of consonants (Bohas 1982:337ff). In Arabic phonology substitution is applied in instances where in western theory phonetic rules are used. In section 3.6. it shall be seen that in the description of Turkic similar concepts are applied.

#### 1.3.1 Substitution (*'ibdāl*)

In Arabic phonology a given consonant is substituted by another when certain conditions are met. Although the grammarians recognise the conditions in which a given shift takes place, they explain the phenomenon in phonological terms, not in terms of phonetic laws.

In *Mufaṣṣal* (172ff), for example, az-Zamaḥṣarī mentions a number of consonantal phonemes that can substitute others. For example, *s* is substituted by *ṣ* when it is preceded (or followed) by *ġ*, *ḥ*, *q*, *ṭ*, e.g., *ṣalaḥa* for *salaḥa* 'he changed [his] skin' (said of a snake) (*Sirr* I 211,16ff). Similarly, the *t* is substituted by *ṭ* when it is preceded by *ṭ* or *ṣ*, e.g., *fahaṣṭu* instead of *fahaṣtu bi-riġli* 'I examined my leg', *iṣṭabara* instead of *iṣṭabara* 'he was patient' and *ḥabaṭṭu* for *ḥabaṭtu* 'I hit' (*Sirr* I 219,11ff).

Here we see an apparent contradiction in the prescribed value of a phoneme and its perceived value in actual speech. The neutral *s* is the counterpart of the emphatic *ṣ*, and the fact that they interchange in certain conditions makes sense. On the other hand, however, nowhere is *ṭ* (*t*) regarded as related to *ṭ* (*ṭ*) on the contrary, the communis opinio dictates that *ṭ* represent the emphatic counterpart of *s* (*d*). Therefore, the shift *ṭ* - *ṭ* *ṭ* cannot be described in the same terms as *s* - *ṣ*. Conversely, one could say, what would be needed here is a velarised *t*, which, it appears, has no official reflection in Arabic orthography. These examples and statements point to a discrepancy between the prescribed value of a given phoneme/grapheme and its actual perceived phonetic value. We shall see that in the descriptions of Turkic *ṭ* is used for a velarised *t*; cf. section 3.

#### 1.3.2 Transformation (*qalb*)

Apart from its meaning of 'metathesis' of consonants, the term *qalb* has an overlap in meaning with *badal*. Like *badal*, it refers to the

change of consonants. More specifically, *qalb* is used for changes in the root of the word, in which often, not always, one of the glides is involved (cf. Robakidze 1986). One such process is the *qalb* of a medium glide into *hamza* in the active participle, viz., \*/qa"wil/ > /qa"iil/ 'speaker', and \*/ba"yi<sup>c</sup>/ > /ba"i<sup>c</sup>/ 'seller'. In all other instances, it appears to be synonymous with *badal*.

Another example of *qalb* (alluded to in az-Zaġġāġi's *ʿIlal*) is, e.g., the change of /y/ via /ʾ/ into /w/, or elision of /y/ via /ʾ/, viz.,

- /muṣṭafay-u-n/ The declensional ending /y-un/yin/ is too heavy (*istiṭqāl*), hence elision of /u/ (and /i/)
- /muṣṭafa-y-n/ change (*qalb*) of /y/ into /ʾ/.
- /muṣṭafa"-n/ Two vowelless consonants cannot stand in a sequence (*iltiqā*'), therefore elision of /ʾ/.
- /muṣṭafa-n/ Result, re-spelt as /muṣṭafa"/, pronounced [muṣṭafā] (also in Versteegh 1995:228).

The origin of the discrepancy between *qalb* and *badal*, is perhaps that for *qalb* the interchanging consonants do not necessarily have the same point of articulation, whereas this argument often recurs for *badal*.<sup>21</sup> In the Turkic sources *qalb* is used as a synonym of *badal*.

### 1.3.3 Assimilation (*ʿidġām*)

Another important feature is assimilation (*idġām*). Two similar consonants assimilate for alleviation (*ħiffa*):

"The co-occurrence of two similar consonants is [considered] heavy in their language, and therefore they aim at a kind of alleviation by means of assimilation." (*ṭaḡula iltiqāʿ al-mutaġānisayni ʿalā ʿalsinatihim fa-amadū bi-l-ʿidġām ʿilā ġarb min al-ħiffa*, *Mufaṣṣal* 188,3.)

The goal of assimilation is *ħiffa* 'lightness of speech', as opposed to *ṭiqal* 'heaviness'. It occurs in a sequence of two similar (*mutaġānisāni*), or resembling consonants within a word. Resembling consonants are consonants whose places of articulation are close (*mutaqāribāni*), for example, each one of *ṭ*, *d*, *t*, *z*, *ḍ* and *ṭ* can assimilate with any other of these consonants (cf. *Mufaṣṣal* 194,18), e.g., [ʾaratta] for ʾaradta 'you wanted', and *izzahara* for \*/iztahara/ 'he became manifest'. In some instances, one could say a phenomenon can be covered by both ʿibdāl

<sup>21</sup> Cf. Heġazi (1971:84) "Der Terminus *qalb* wird von Sirāfi verwendet solange der entstandene Laut in der Schrift des Arabischen ein Zeichen hat, wie es bei der Emphasisierung der Fall ist." However, when the result cannot be reflected in orthography, as-Sirāfi uses *muḍāraʿa* 'likeness'. Heġazi may be right as far as as-Sirāfi (280/893-368/979) is concerned, but not in a general sense, since we have seen that other authors use *badal* in those cases.

and *ʿidgām*, e.g., the form [ḥabaṭṭu], although it is not always represented in orthography. Assimilation also occurs between two words, when the first consonant in the sequence is unvocalised, and the second is vocalised, e.g., [yağfillakum] for ❀ *yağfir lakum* ❀ ‘he is forgiving to you’ (Qur’an 46/30).

#### 1.3.4 Orthographical representation of conditioned changes of consonants

Although the Arab grammarians were not interested in the orthographic reflection of allophonic sounds, and the Arabic script is essentially phonological, phonetic and phonological changes are reflected in orthography in various ways. In some instances phonologically conditioned changes are visible in orthography, e.g., the change of *t* into *d* after *z* in *izdahara* <\*/ʾiztahara/ ‘he flourished’, or into *ṭ* after *ṣ* in *iṣṭabara* <\*/iṣṭabara/ ‘he was patient’. On the other hand, though, other changes, such as *-tu* for *tu* in [faḥaṣṭu] ‘I examined’, assimilation of *-dtu* to *-ttu* in [ʾarattu] ‘I wanted’, and [ṣirāṭ] for *sirāṭ*, are not. In the same way, the velarised pronunciation of *l* and *r* is often not indicated in orthography.

In 3.3 it is shown that these and similar principles of substitution and assimilation also play a role in the way Turkic consonant assimilation is perceived and reflected in orthography.

### 1.4 The description of vowels

Since Turkic languages have an elaborate system with eight vowels that are subject to the principle of vowel harmony, it is important to describe the prevalent theories in Arabic linguistics with regard to vowels other than the three standard ones and vowel harmony. In this section, we shall try to determine the extent to which the grammarians perceived vowels other than the three basic ones of Arabic, *a*, *i*, and *u*, and how these are described. In this section I shall also pay attention to another type of vowels, i.e. [ü].

As already discussed in some detail above in 1.1.1, in Arabic theory the quality of the vowels depends to a great extent on the surrounding consonants. Velar consonants cause a ‘back’ realisation of vowels, whereas palatal consonants have a ‘fronting’ effect.

#### 1.4.1 Basic vowels

Arabic phonology recognises only three vowels (called *ḥarakāt*, literally ‘movements’): *a* (*fatḥa*), *i* (*kasra*) and *u* (*ḍamma*), along with their

long realisations, *ā*, *ī* and *ū*. In orthography, the short vowels are expressed by means of vowel signs which do not have the status of a consonant, and which are often omitted. The vowels have no independent status, instead, they are tied to a consonant, which, then, is *mutaḥarrik* ‘vocalised’, literally ‘moving’. Vocalised consonants are assigned adjectives reflecting the name of the vowel they take, viz., *maftūḥ* ‘vocalised with *a*’, *maksūr* ‘vocalised with *i*’ and *maḍmūm* ‘vocalised with *u*’.

In orthography, the lengthening of a vowel is indicated by means of one of the weak consonants, i.e. *ʿalif* /ʾ/, /y/ or /w/, respectively, preceded by the appropriate vowel sign. In this way, *ā* is expressed as /aʾ/, *ī* as /iy/, and *ū* as /uw/. In the word *kātib* /kaʾtib/ ‘scribe’, for example, *k* is vocalised with *a* (*maftūḥ*), whereas *ʿalif* /ʾ/ is not. *ʿAlif*, *w* and *y* retain their status of consonant, they merely serve as an orthographic device to indicate lengthening (cf. also Ermers and Limpens 1995).

#### 1.4.2 Allophonical realisations of vowels

The phonetic realisation of the three vowels depends on the preceding (and following) consonants. According to Ibn Ğinnī, three additional vowels should be posited with each pair of long and short vowels, depending on the way they are coloured by the surrounding consonants. With neutral consonants, the vowels, especially *a*, are pronounced with ‘inclination’ (*ʿimāla*).

This means that *a* in varying degrees inclines to [i], resulting in [ä], in other words, a ‘fronting’ of *a* towards [i] (cf. *Kitāb* II II 407; and *ar-Rāzī Tafṣīr* I 103ff; *Irtiṣāf* I 238ff).<sup>22</sup> In Ibn Ğinnī’s terms *a* in /kaʾtib/ [kä:tib] ‘writer’ is pronounced “between *a* and *i*”, alternatively described as “*a* mixed with *i*” (*al-faṭḥa al-mašūba bi-l-kasra*, *Sirr* I 52,4).

ʿAbū Ḥayyān describes two types of *ʿimāla*; one is *ʿimāla šadīda* ‘strong inclination’ (also called ‘pure’ [*maḥḍa*] with Sībawayhi), “as if [the *ʿalif*] has become another consonant, close to the *y*” (*kaʾannahā ḥarf ʿāḥar qarīb min al-yāʾ*), Sībawayhi *apud* ʿAbū Ḥayyān, *Irtiṣāf* I 8,5), i.e. toward [e] or [i]. The second type is *ʿimāla mutawassiṭa* ‘medium inclination’, i.e. toward [ä].

Incidentally, if the vowel sound is long, the *ʿalif*, which is a consonant, is considered to take over the quality of the *faṭḥa*, because the “*ʿalif* follows *a*” (*tābiʿa li-l-faṭḥa*, *Sirr* I 52,8).

<sup>22</sup> In *Irtiṣāf*, however, ʿAbū Ḥayyān uses this term to indicate a pronunciation of *u* as [ü], in the case of /maḍʿuwr/ ‘frightened’ [maḍʿūr].

Although the term *ʿimāla* is used typically for the inclination of *a* to [i], in *Irtiṣāf* it also occurs for indicating a certain pronunciation of other vowels. An example is the realisation of *u* as [ü], e.g., /maḍ<sup>ʿ</sup>uwr/ [maḍ<sup>ʿ</sup>ü:r] ‘frightened’. This effect is said to be caused by the *ʿayn*, which is an ‘elevated’ consonant. ʿAbū Ḥayyān quotes various opinions according to which “both the *w* and the preceding *u* have an inclination” (*tumīl al-wāw wa-ḍ-ḍamma qablahā*), or just “the *u* has an inclination, whereas the *w* has not” (*tumīl aḍ-ḍamma lā al-wāw*, *Irtiṣāf* I 248,2). For this same phenomenon Ibn Ğinnī uses the term *ʿiṣmām*, although he gives other examples, e.g., /siyra/ ‘it was gone’ [sü:ra], in which “the *i* is flavoured with an *u*” (*fa-hāḍihi l-kasra al-muṣamma ḍamman*, *Ḥaṣāʾiṣ* III 121,2), or “the *i* is flavoured with *w*” (*tuṣammu l-kasra fi l-wāw*, *Irtiṣāf* I 248,2). Conversely, the *u* can be flavoured with *i* too, e.g., [bü<sup>ʿ</sup>tu] ‘I was sold’ for *bu<sup>ʿ</sup>tu* (< \*buyi<sup>ʿ</sup>tu), [ṣüntum] ‘you were defended’ for *ṣuntum* (< \*ṣuwintum), and [ṣüdda] ‘he was strengthened’ for *ṣudda* (< \*ṣudida). In these cases [ü] for [u] is accounted for by the influence of the phonologically reconstructed *i*<sup>23</sup>

In addition to *ʿiṣmām*, Ibn Ğinnī applies *maṣūb* too. For example, in /qiyla/ ‘it was said’ (*Ḥaṣāʾiṣ* III 120,9ff; also *Sirr* I 52,13), the *i* is “mixed with something from the *u*” (*maṣūba bi-ṣay<sup>ʿ</sup> min aḍ-ḍamma*), hence [qü:la]. In this way, a mix of *i* with *a* yields [ä], *u* mixed with *i* results in [ü], whereas *i* nor *u* cannot be mixed with *a*.

The concept of mixing of vowels recurs in the descriptions of Turkic which are dealt with in section 3.4.4.

### 1.5 Long and short vowels

Another important issue for this study is the status of the ‘consonants of softness and prolongation’ *ḥurūf al-līn wa-l-madd* (cf. Bravmann 1934:13-14). To this category belong the glides i.e. /w/ (*wāw*), /y/ (*yā<sup>ʿ</sup>*), /ʾ/ (*ʾalif*), all of which are considered consonants in Arabic theory. The *w* and *y* can be vocalised like all other consonants, albeit not in all positions, whereas the *ʾalif* is never vocalised (cf. also Troupeau 1989:34). In orthography, the signs representing the glides often denote lengthening of the three short vowels (*ḥarakāt*), *a*, *i*, and *u*, respectively.

<sup>23</sup> Cf. Grünert (1912:234-5); Wright (1986 [1896]: i 71, 84 and 89); *Kitāb* II:260, 361, 282; Bravmann (1934:89-90); Cantineau (1960:101). An alternative term for *ʿiṣmām* is *ʿiṣrāb* ‘absorption’: “the *i* has absorbed an *u*” (*aṣrābat al-kasra ḍamman*). The *a* cannot be absorbed by either one of the other two vowels.

In the description of glides in Turkic (3.5) it shall be shown that they may have altogether different functions. Apart from non-morphological lengthening, they indicate velarisation, or serve as plene spelling of vowels.

### 1.5.1 Lengthening and reduction: the status of the glides

The distribution of long and short vowels is an important feature in Arabic morphology. In verbs, for instance, the quantity and quality of vowels are used to indicate the valency or the 'mood'. In some instances a specific meaning is expressed by a long vowel. In Arabic phonology this is, however, described in terms of the insertion of a consonant, more specifically a glide. Examples are, e.g., *ḍāraba* /ḍa"raba/ 'he fought (someone)', passive form *ḍūriba* /ḍuwriba/ 'he was fought', derived from the root /ḍ-r-b/ 'to beat'. The active form of the verb has the morphological pattern, /fa"ala/, and the latter is set up according to /fu"ila/, whereas both are CVCCVCV.

The Arab grammarians argue that in the case of /ḍa"raba/ an 'alif—which is considered a consonant—is inserted between the radicals of the root, and, subsequently, becomes part of the verb itself. This procedure is equal to the insertion of other consonants, such as *t* in, e.g., /ifta"ala/. In these cases both /t/ and /" / are considered *zā'id* 'additional', and as such a part of the word (cf. Bohas 1982:168).<sup>24</sup> After the insertion of 'alif, the preceding consonant is vocalised with *a*, because *a* is of the same kind (*ḡins*) as 'alif. Likewise, /u" / becomes /uw/, for *u* is of the same kind as *w*, and *i* matches *y* (*ḥaraka min ḡin-sihā*, *Ḥaṣā'is* III 121,9).

In Arabic morphology 'alif—unlike *y* and *w*—is never considered part of the root. Words that contain an 'alif are usually related to radical patterns with *w* or *y*, for which 'alif is substituted in certain circumstances. For instance, in the word *bāb* /ba"bun/ 'door', the 'alif /" / substitutes /w/ because for some morphological reasons /w/ cannot stand between two vowels, which is the case in \*/bawabun/. After substitution with 'alif and subsequent metathesis, then, the result is /ba"bun/. In these instances, 'alif may replace another glide in the root; it is never authentic itself.

<sup>24</sup> Bohas elsewhere (1982:393) remarks that the process of derivation is determined for each word separately, rather than in a general way according to patterns.

### 1.5.1.1 Lengthening

In Arabic vowels can be lengthened for prosodic reasons, i.e. without morpho(no)logical necessity. This occurs, for example, in poetical contexts, in which lengthening may be necessary in order to match the metre (cf. Wright 1986 [1898]: ii 382). In such a case especially the vowels of declension are lengthened.

This type of prosodic lengthening is called  $ʔiṣbāʕ$ , lit. ‘saturation’, or alternatively, *maṭl* (Ḥaṣāʔiṣ 121,8ff). For example, *i* (*kasra*) is *muṣbaʕa* ‘saturated’ or ‘lengthened’, which may be expressed orthographically by means of insertion of *yāʔ* (cf. *Irtiṣāf* I 9; also *Sirr* I 338,7; II 630,8).<sup>25</sup>

Thus, the *ʔalif*, *w* and *y* “...are the consonants of lengthening that arise from the preceding vowels” (...ḥurūf al- $ʔiṣbāʕ$  tawalladat ʕan al-ḥarakāt allatī qablahā, *Irtiṣāf* I 423,10). In the case of morphonological lengthening, the glide is inserted for a meaning, whereas with  $ʔiṣbāʕ$  it arises from the preceding vowel. In the latter case, therefore, it has no morphological function, and is not represented in the patterns. Below, in section 3.5, I shall show that in the grammars of Turkic  $ʔiṣbāʕ$  is not only used for indicating prosodic lengthening, but also velarisation.

### 1.5.1.2 Reduction

The term  $ʔiṣmām$ , literally ‘flavouring’, is applied by Sibawayh in the sense of the reduction of a long vowel or, in the case of a short vowel, of leaving a slight fragrance of it (cf. *Kitāb* II 283; also *Irtiṣāf* I 247,16f; Bravmann 1934: 82-89). Zamaḥṣarī describes  $ʔiṣmām$  as “joining of the lips after silencing” (*ḍamm aṣ-ṣafatayni baʕd al-ʔiskān*, *Mufaṣṣal* 160,16), and it occurs especially with the nominative case (in *u*). Like  $ʔiṣbāʕ$ ,  $ʔiṣmām$  occurs for prosodic reasons only and is not indicated in orthography.

Although  $ʔiṣmām$  is basically applied to vowels (discussed earlier in 1.4.2), as noted in section 1.2.1, it is used for an allophonic pronunciation of consonants too. In the Turkic sources  $ʔiṣmām$  is applied to both vowels and consonants with different meanings (see 3.1.2.2 and 3.5).

<sup>25</sup> In *Irtiṣāf*, ʔAbū Ḥayyān applies the term  $ʔiṣbāʕ$  to a consonant other than a glide, i.e. *h*. “And some of the [Arabs] lengthen the *h* when it is connected, and thus *y* originates, e.g., *hidihī* [for *hāḍihī*] ‘this’ [f.]” (*wa-minhum man yuṣbiʕ al-hāʔa fī l-waṣl fa-tatawalladu l-yāʔ*, *fa-taqūl hidihī*, *Irtiṣāf* I 407,16.) In these instances a type of vowel harmony is involved too.



### 1.5.2 A concept of vowel harmony

In Arabic linguistic theory some concept of vowel harmony existed, even though in Arabic it only occurs as a minor prosodic feature. A term used in this respect is *ʔitbāʕ*, literally 'making follow'. *ʔitbāʕ* basically means that one vowel is substituted with another in order to better match the following vowel. This type of vowel harmony occurs in, e.g., *al-ḥamd-ī li-llāhi* or *al-ḥamd-u lu-llāhi* instead of *al-ḥamdu li-llāhi* 'praise be to God', and *ʔimriʔ-in* 'man', instead of *ʔimruʔ-in* (MAN-GEN). The replacing vowel is called 'vowel of agreement' (*ḥaraka al-ʔitbāʕ*). The term *ʔitbāʕ* is of course semantically related to the term *tābiʕ*, 'following'. This term is used for the (consonant) *ʔalif* when it 'follows' the colouring of the *a*, which is also a type of vowel harmony (see discussion above 1.4.2).<sup>26</sup>

Another term, *tawālī l-mutaḥarrikāt*, which occurs in the descriptions of Turkic too (3.2.3), is used for a sequence of vocalised consonants. In Arabic morphology some sequences are permitted, whereas others, such as CVCVCVCV, are not. A non-approved sequence occurs, for instance, with verbs of the past tense, such as *ḍarabtu* 'I beat' and *inṭalaqnā* 'we left'. According to the Arab grammarians, these verbs consist of two parts, /ḍaraba/ and /inṭalaqa/, and their suffixed agents, the pronouns /tu/ 'I', and /na'/ 'we', respectively. Normally this would result in \*/ḍarabatu/ and \*/inṭalaqana"/, which, however, contain too many vowels in a row. In order to prevent this, the grammarians say, it is necessary to delete the vowel before the pronoun, viz.,

"With regard to *ḍarabtu* and *inṭalaqnā*... the deletion [of the vowel] is incidental because of their dislike of a sequence of four vocalised consonants in a [construction] which resembles one word." (*ʔammā naḥwa ḍarabtu wa-inṭalaqnā... fa-s-sukūn fihi ʔarīḍ ʔawḡabahu karāhatuhum tawālī ʔarbaʕ mutaḥarrikāt fīmā huwa ka-l-kalima al-wāḥida*, ʔAšmūnī *apud* Bohas 1982:44; cf. also *Ḥašāʔiṣ* III 115,2; *Sirr* I 220,14.)

Note, however, that this does not apply to words as *ḍarabaka* 'he hit you'. In these verbs a similar sequence of four vowels occurs, this time fully accepted by the grammarians. The reason for this discrepancy is that *ḍarabtu* is regarded as one word, in which the mentioned sequence is prohibited, whereas *ḍarabaka* is considered two

<sup>26</sup> *ʔitbāʕ* is also applied to consonants that are substituted as a sort of alliteration, e.g., *raʔaytu l-walīd bn al-yazīd* 'I saw al-Walīd son of al-Yazīd', in which the definite article, *al*, is added to *yazīd* in order to make it rhyme with *al-walīd* (*ʔAšbāh* I 9,20 - 14; cf. also *Ḥašāʔiṣ* II 333,9; II 335,3/5; II 336,5; *Irtiṣāf* I 400,5).

words, i.e. *daraba+ka* 'he hit' + 'you' (for further explanation, cf. Bohas 1982: 133).

## 2. TURKIC PHONEMES

It is all but impossible to give a general picture of 'Turkic phonetics' of the Turkic languages that are described in the sources. They cover a broad range of languages in different periods of time. Furthermore, the historical phonetic characteristics of the various Turkic languages are not known in detail. Nevertheless, it is possible to make some general statements on Turkic phonology, based on the data provided in the sources themselves.

In linguistics often the term 'archiphoneme' is used to refer to all different realisations of a certain phoneme, vowels and consonants alike. Archiphonemes are usually written in capitals. In front words, for example, the archiphoneme G (not to be taken for the symbol for velarised g [G]) is realised as [g] whereas in back words its realisation may be close to [ḡ]. In the same way, the archiphoneme I is realised as [i]/[ü] in front words, or as [i]/[u] in back words.

The present section provides much of the data on Turkic languages which is needed for the discussion of Turkic phonemes in section 3. The main issues are an assessment of the number and quality of the consonants and vowels, the principles of Turkic vowel harmony and consonant assimilation. In modern Turkic linguistics the vowels are usually regarded as primary to consonants, in the sense that they affect the pronunciation of the surrounding consonantal phonemes. This point of departure makes it unnecessary to posit separate velar or velarised consonants, which play such an important role in Arabic theory.

2.1 *The consonants*

In Turkic the following consonantal phonemes occur:

Labial	Dental	Denti-palatal	Palatal
1 b	7 d <sup>27</sup>	13 ğ <sup>28</sup>	15 ğ̣
2 p	8 t	14 č	16 ž
3 v	9 ḍ		17 š
4 (f) <sup>29</sup>	10 n		18 y
5 m	11 z		
6 w	12 s		
Post-Palatal	Velar	Liquids	
19 g	7 q <sup>30</sup>	26 l	
20 k	8 ğ̣	27 r	
21 ŋ	9 (ḥ)	Aspirant	
	10 ŋ	28 h	(After Clauson 1972:viii)

Consonant assimilation is a very normal feature in many languages. It occurs in Turkic, too, and is especially evident in suffixes. The expression 'progressive consonant assimilation' is used for the conditioning of the first consonant of the suffix in order to match the final consonant of the word it is attached to. After voiced consonants the first consonant of the suffix is voiced.

A good example is the marker for the past tense DI. Both D and I are archiphonemes, i.e. both are subject to conditioned changes; here only the changes of D- concern us. For example, in the verbs **kir-dī** [kir-di] 'he entered' and **kal-dī** [kel-di] 'he came', D is realised as [d] because the last consonant of the verb is voiced. Similarly, it is voiceless, i.e. [t], when the last consonant of the word is voiceless, e.g., **tik-tī** [tik-ti] 'he sewed', **qāč-tī** [qač-ti] 'he fled'.

<sup>27</sup> The phoneme **ḍ** occurs only in so-called aḍaq-languages. Turkic languages are divided into two large groups. In the first group the word aḍaq 'foot' is realised as aḍaq (with variations haḍaq and azaq), whereas in the second group intervocalic [ḍ] has merged with [y], hence ayaq (cf. *Diwān* 27,12). The Turkic language in *Diwān* belongs to the group of aḍaq, whereas all other sources describe ayaq-languages (although in *ʿIḍrāk* there are occasional references to an aḍaq language).

<sup>28</sup> **ğ̣** occurs only after long vowels in Oğuz languages as an allophonic realisation of **č**

<sup>29</sup> **f** and **ž** occur in loan words only.

<sup>30</sup> **ḥ** occurs as an allophone of **q**, e.g., [yaḥšī] 'good' for [yaqšī].

## 2.2 The vowel system

Turkic languages have nine vowels /o, ö, a, e, é<sup>31</sup> i, ĩ, u, ü/.<sup>32</sup> A typical phenomenon in Turkic is that all originally Turkic words are either front or back. In 'front' words only the vowels /ü, ö, e, i and é/ occur; in back words their counterparts /u, o, a, and ĩ/. The ninth vowel, /é/, has no real counterpart (although one could say that it shares a position with /e/), and for this reason it stands outside the vowel system. Since it is not of great importance for the discussion of vowel harmony, I shall not refer to it here, but discuss it in some detail in 3.1.6.5 and 3.5.4.2).

The distribution of vowels in Turkic follows a regular pattern; it is subject to the principles of vowel harmony. For Turkic, vowel harmony is based on two parameters. The first parameter is the distinction between front and back vowels, the second is labial harmony, i.e. vowel harmony of rounded vowels.

### 2.2.1 Front and back vowels

The primary principle of vowel harmony is the distinction between front and back vowels. 'Front' vowels are articulated relatively in the front part of the mouth, whereas the back vowels are articulated in the back part of the mouth. The front vowels /i, ü, e, ö/ have back counterparts in /ĩ, u, a and o/.

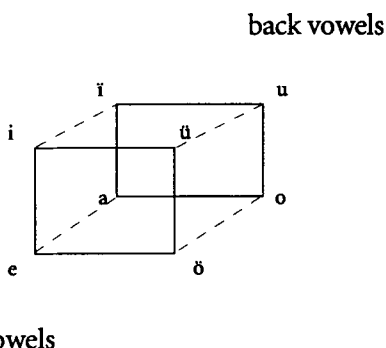
In this way, a corresponds with [e], [o] with [ö], [ĩ] with [i], and [u] with [ü], respectively. The vowels [i, ĩ, u, ü] are pronounced relatively higher in the mouth than [e, a, o, ö] (see scheme 1 on page 92). In a genuine Turkic word all vowels are either back or front, e.g., [yüzük]

<sup>31</sup> This closed é is posited in a number of publications (e.g. Nemeth, J. 'Zur Kenntniss des geschlossenen e im Türkischen' in *Körösi Csoma Archivum* 1939:515-31 and Clauson 1962:163), but it can also be explained as an allophonic realisation of [ɛ] and [ɛ:] after [y] (A.H. Nauta, p.c. 1995). Whatever the exact nature of the closed é, there are clear references to it in the Turkic sources and I postulate it here for that reason.

<sup>32</sup> Long vowels {o:, ö:, a:, e:, i:, ĩ:, u:, ü:} occur only in Turcomanian and Yakut. Turkic vowels are open, and should be phonetically represented as [ɔ, ɔ̄, a, ɛ, i, ĩ, u, ü]. These comments are intended as very general indications with respect to the phonological system of Turkic, since, again, each Turkic language has its own characteristic phonetic realisation of the respective phonemes. For example, Turkish ö stands for a phonetic value that is very much different from ö in Kazakh (cf. Vajda 1994). For this and other reasons mentioned above, it is not possible to determine the exact phonetic qualities of the vowels occurring in the languages which are described in the sources; for the purposes of this study a rough transcription suffices. A note on transcription: in turcology, front [e] is also often transcribed as [ä]. Here I shall only use [e] for sake of convenience.

'ring', [beşik] 'cradle', and [balıq] 'fish', [boyun] 'neck', whereas the lower vowels typically only occur in non-final syllables.

The relative places of articulation of the eight vowels of Turkic are reflected in the following scheme :



This same principle regarding vowel harmony also holds for suffixes, which implies that all suffixes have at least two forms: one which is used with front words and one for back words.

### 2.2.3 Labial harmony

The secondary principle of Turkic vowel harmony is labial harmony, which is based on the distinction between rounded and unrounded vowels. The terms 'rounded' and 'unrounded' refer to the position of the lips during the pronunciation. Thus, [ı, a, i, e] are unrounded, and [u, o, ü, ö] are rounded vowels. In the schematic representation above, the unrounded vowels are posited at the left side, and the rounded ones at the right.

Labial harmony is a prosodic feature that occurs in suffixes (and particles) that contain a high vowel. Suffixes that are subject to this principle have four variants. In Oğuz languages, for example, the particle of interrogation has the forms /mi, mü, mï, mu/, depending on two parameters, i.e. whether the preceding vowel is front or back, and further whether it is rounded or unrounded. This is summarised as follows:

	unrounded	rounded
back	mï	mu
front	mi	mü

Examples of this are [keldi mi] 'has he come?', [küldü mü] 'has he laughed?', [qaldı mï] 'has he stayed?', and [urdu mu] 'has he beaten?'.

In suffixes containing a low vowel, e.g., [a, e], only the principal distinction between back and front words is indicated, e.g. in the plural suffix lAr, e.g., [baliq-lar] 'fishes', [gül-ler] 'roses', while the principle of labial harmony is not observed.<sup>33</sup> In phonological terms the labial harmony is inhibited because the counterparts of [a] and [e], i.e. [o] and [ö], as a rule do not occur in non-first syllables, and therefore never occur in suffixes.

The diversity of the vowels in suffixes is indicated by means of archiphonemes too. For example, mI (or mI<sup>4</sup>) implies that the particle of interrogation has four forms, whereas lAr (or lAr<sup>2</sup>) means that the plural suffix has two forms. In this way, a suffix that, combining both parameters, is subject to the rules of both vowel harmony and those of consonant assimilation, has eight different forms, viz.,

	voiced	voiceless
	rounded/unrounded	rounded/unrounded
back	du / dī	tu / tī
front	dü / di	tü / ti

### 3. TURKIC PHONEMES AS DESCRIBED BY THE SOURCES

In Section 1 of this chapter we dealt with the descriptions of consonants and vowels in Arabic phonetic theory, and believe it has become evident that the Arab grammarians did have instruments to describe allophones that occur in Classical Arabic, as well in some dialects. This section shows how they applied these instruments to Turkic.

This section in addition discusses how regular features of Turkic, such as vowel harmony and consonant assimilation, are perceived by the Arab grammarians. Since in Arabic grammar a discussion on vowels involves one of consonants too, especially inasmuch they are related to matters of velarisation and palatalisation, the section on vowels deals in some detail with those issues as well.

In the present section I have chosen for the following approach. Section 3.1 deals with descriptions between back and front words, 3.2 with vowel harmony. Section 3.3 discusses with the question of how the distribution of velar and palatal suffixes is related to velar(ised) and palatal(ised) words. Section 3.4 shows the phonetic qualities of vowels

<sup>33</sup> As the saying goes, there is no rule without exception. In Qirgiz, for example, [o] and [ö] also occur in non-initial syllables, e.g., [ölkö] 'country' (whereas other languages have [ülke]). In addition, the plural suffix has developed rounded vowels, hence [qoy-lor] 'sheep' >\*qoy-lar, and [ölkö-lör] 'countries' >\*ölkö-ler.

that cannot be described in terms of palatalisation and velarisation alone. Section 3.5 discusses the various functions of the glides. Finally, section 3.6 is dedicated to consonants and consonant assimilation.

### 3.1 *Vowels: front and back*

As shown in section 2, Turkic features a vowel harmony between front and back words. Oppositions between front and back words can in Arabic orthography be conveniently indicated by means of velar consonants in back words, and with their palatal (or neutral) counterparts in front words. In instances in which a given consonant does not form a pair with another one, new solutions must be found in order to indicate that it is pronounced in a non-standard way.

Roughly, there are two methods for indicating a non-standard quality of neutral consonants. The first is the use of certain labels which stand for 'velarisation' or 'palatalisation'. The second method is 'to add' a feature of a second consonant that lacks in the basic consonant. Both methods are applied to Arabic consonants in order to indicate a non-standard pronunciation (cf. section 1.2).

#### 3.1.1 The opposition front vs. back

The opposition of front and back words is reflected in Arabic script by means of the appropriate consonants. The Arabic consonants in as far as they are used for Turkic may be divided into four groups. In the first group are **q**, **ġ**, **ʔ** or **ʃ**, which occur only with back vowels. The second comprises one consonant, **k**, which typically occurs with front vowels. The third group contains the consonants **ʔ**, **b**, **č**, **d**, **f**, **ğ**, **m**, **n**, **ŋ**, **w**, **y**, **z**, which, basically neutral, depending on source, can occur with both front and back vowels. Finally, the fourth group contains **r** and **l** which occur with back vowels when preceded or followed by **a/u** (and there are indications that this hold for **z** too; cf. 3.4.3).

The so-called elevated consonants typically indicate that the word must be pronounced with back vowels. The sources have different opinions as to which of those occur in Turkic, and, as we shall see, they disagree especially on the covered consonants. Most (except *Hilya* and *Diwān*) though, accept **ʔ** and **ʃ**, excluding **đ**, **č**, **h** and **z**.

A number of neutral/palatal consonants, i.e. **ķ**, **k**, **s**, **t**, **d**, and **z**, is related to related to velar counterparts, represented by elevated consonants, in the following manner, viz.,

	Velar (with back vowels)	Palatal (with front vowels)
1	غ <b>ġ</b>	گ <b>ḵ</b> [g]
2	ق <b>q</b>	ك <b>k</b>
3	ص <b>ṣ</b>	س <b>s</b> (not in <i>Dīwān</i> ; occ. in <i>Hilya</i> )
4	ط <b>ṭ</b>	ت <b>t</b> (not in <i>Dīwān</i> ; occ. in <i>Hilya</i> )
5	ض <b>ḍ</b>	د <b>d</b> (in <i>Qawānīn</i> and <i>Durra</i> )
6	ظ <b>ẓ</b>	ز <b>z</b> (in <i>Durra</i> only).

The six pairs mentioned here, however, cannot all be based on the Arabic tradition. In fact there is only one, i.e. *s* - *ṣ*, that is related to Arabic concepts according to which, *ṣ* without *ʾiṭbāq* becomes *s* (see above 1.1.2). In Arabic theory, *q* is not regarded as a pendant of *k*. Nevertheless, they may be linked as a matter of convenience or a new perception insofar as Turkic is concerned. The same can be said for *ġ* - *ḵ*, with the important difference that *ḵ* is considered an allophone in Arabic (and sometimes for Turkic too).

The other pairs (i.e. 4, 5, 6) are more surprising in the light of Arabic linguistic thinking, and as such they convey much about the Arab grammarians' perception of certain Arabic emphatic phonemes. In Arabic theory, as we recall from section 1.1.2, *d* reportedly forms a pair with *ṭ*, and *ḍ* with *ẓ*. The stand-alone *d*, has no neutral counterpart, and, conversely therefore, *d* has no emphatic variant. Although in Arabic a velarised *z* is recognised and described as an allophone, but never associated with the grapheme *ẓ*.

It appears therefore that much of what the phoneticians wrote in their Arabic treatises was of a mere prescriptive nature which did not necessarily reflect everyday practice. One example occurs in their descriptions of Arabic itself. If we recall *fahaṣṭu* for *fahastu*, and *iṣṭabara* for *iṣṭabara* (cf. 1.3.1), in which phonological *t* is conditioned by *ṣ* and changes into ط. For this ط is to be interpreted as a voiceless emphatic variant of *t* rather than voiced (if indeed ص is both voiceless and velarised, that is). In the descriptions of Turkic velarised [t] is the only sensible interpretation of ط. The remaining two interpretations of *ẓ* and *ḍ* are real innovations, and disclose features of everyday pronunciation.

The sources display four different levels of acceptance regarding emphatic consonants as representatives of velarised consonants. The first level is Kāṣḡarī who does not accept any of the four emphatic conso-



nants.<sup>34</sup> The second is represented by ʿAbū Ḥayyān, Ibn Muḥammad Ṣāliḥ (along with, perhaps, Ibn al-Muḥannā), and *Bulḡa* and *Tuḥfa*'s respective anonymous authors who use **ṣ** and **ṭ**. On the third level is *Qawānīn* who in addition **ḍ** accepts a velarised **d**. The fourth and final level is represented by *Durra*, in which all emphatic consonants are used, including **ẓ** as velarised **z**.

Thus, whatever the prescribed pronunciation may have been, the emphatic consonants are used by the sources as presented in the scheme in order to mark a back pronunciation of the vowels, e.g., ʿ**alṭun** [altun] 'gold', **qul** [qul] 'slave', **ṭur-** 'to stand up'. Only in *Durra* and *Qawānīn* **ḍ** stands for a velarised **d**, e.g., **ḍūn** 'cloth' (*Durra* 12<sup>v</sup>2); **ḍuḍaḡ** 'lip' (*Qawānīn* 60,14); in *Durra* **ẓ** represents a velarised **z**, e.g., **qūẓ** [qoz/quz] 'nut' (6<sup>v</sup>15). Words with palatal consonants and, therefore, a front pronunciation are, e.g., **kal-** [kel] 'to come', **kuk** [køk] 'blue'. In all of the examples mentioned here, the choice between a back or a front pronunciation can easily be inferred from the orthographic representation, with due consequences for the assignment of suffixes containing velar or palatal consonants (for which see 3.3).

### 3.1.2 Instruments for indicating velarisation and palatalisation

Thus in Arabic orthography a number of velar and palatal consonants form pairs, which can be used to indicate the distinction between a back and front pronunciation. Fourteen consonants, however, do not have a counterpart to form a pair with. These are ʿ, **b**, **d**, **ḡ**, **l**, **m**, **n**, **r**, **s**, **š**, **w**, **y**, **z** (**d** and **z** having velarised counterparts in two sources only).

Nevertheless, they do occur in back words, and therefore, their 'velarised' pronunciation has to be indicated in some manner. A logical means is assigning a label for indicating that the consonant in question does not have the default Arabic front pronunciation. In *Qawānīn*, *Idrāk*, *Tuḥfa*, *Tarḡumān*, *Šuḍūr* and the Margin Grammar the term *tafḥīm* 'velarisation' (or *mufaḥḥam* 'velarised') is applied, whereas *Dīwān* and *Ḥilya* use ʿ*išbā*<sup>35</sup>; in *Tarḡumān mašmūm* is occasionally found too.<sup>35</sup> In *Durra* a clear terminology lacks; the velarised consonants instead being marked with small signs whose exact mean-

<sup>34</sup> Kāšgarī's categorical rejection of all four elevated consonants can be understood in two ways. In the first place, he wanted to adhere to a close transcription of the Uygur alphabet in which the emphatics do not occur. Second, according to his perception of Arabic emphatic consonants he did not think that they could serve as velarised counterparts of neutral consonants. In other words, the Arabaic emphatic consonants possessed certain qualities that made them unsuitable for this purpose. Whatever Kāšgarī's exact motivation, it is unlikely that he regarded the vowels as primary.

<sup>35</sup> In the Velieddin MS of *Idrāk*, *mufaḥḥam* 'velarised' is abbreviated as **ḥ** (*ḥ*).

ing remains obscure, or with doubling of the consonant, e.g., *yyil* [yil] ‘year’ (*Durra* 24<sup>f</sup>14). The latter method is also used to indicate voicelessness (see 3.6.2.2). In these sources the term ‘velarisation’ stands opposed to *tarqīq* ‘palatalisation’ (or *muraqqaq* ‘palatalised’), respectively. *Tarqīq* is, of course, used much less often; it is applied in oppositional pairs and on r and l.

In the manuscripts both terms are often abbreviated as mere markers scribbled above the words; a small *ṡ* (m) usually stands for *mufahḥam* whereas *ṣ* (q) represents *muraqqaq* (see further discussion on palatalisation in Section 3.1.6). The use of the respective terms regarding velarisation and palatalisation are summarised as follows:

	Velarisation	Palatalisation
<i>Qaw, Idr, Tarğ, Tuḥ, Šud, MG</i>	<i>tafḥīm</i>	<i>tarqīq</i>
<i>Diwān, Ḥilya</i>	<i>ʾiṣbā<sup>c</sup></i>	<i>ʾiṣmām, ʾimāla</i>
Occasionally: <i>Tarğ, Qaw.</i>	<i>ʾiṣmām</i>	

Examples of words labelled for velarisation are, e.g., *ʾaš* [aš] ‘food’ (*ʾIdrāk* 14; MS 3<sup>v</sup>20; marker above š); *ʾant bir* [ant] ‘swear’ (lit. ‘give an oath’), “velarisation of the *hamza*” (*bi-tafḥīm al-hamza, Qawānīn* 77,8; also 74,8; in *ʾIdrāk* 24 *ʾanṭ*); *būš* [boš] ‘divorced’ (*ʾIdrāk* 32); *ḅul-* [bol-] ‘to be’ (*ʾIdrāk* 126,9); *yab* for [yap] ‘build!’ (velarisation [of b?], *Qawānīn* 75,11) and *yay-* [yay] ‘to spread out’ “velarised” (MG 45<sup>rt</sup>/bm).<sup>36</sup>

### 3.1.2.1 Velarised l [l̥]

The velarised *l* occupies a special position among the non-standard Turkic phonemes, since it occurs as a well-accepted allophone in Classical Arabic; one could say that its position is close to that of a phoneme in the Arabic tradition. The usual term is ‘velarised *l*’ (*lām mufahḥama, Tarğumān, Qawānīn, Šudūr, Ḥilya*), which serves as the terminological base for coining other terms for velarised phonemes. The velarised *l* occurs, e.g., in *ʾaltūn-liğ* ‘with gold’ and *ʾat-liğ* ‘with a horse’ (*Ḥilya* 74,8).<sup>37</sup> Its pronunciation is described as follows:

“The Turk pronounces the *ls* mentioned here like the Arab pronounces the *ls* in the word for the Divine” [i.e. Allāh ‘God’].” (*at-turk yanṭuqu bi-*

<sup>36</sup> *Qawānīn* describes the Turkic negation suffix *mA* as “a velarised *m* vocalised with *a*” (*mīm maftūha mufahḥama, Qawānīn* 13,9), in which an interpretation as ‘velarised’ is probably not correct, for it obviously occurs in front words too. Here *mufahḥam* should perhaps be interpreted as ‘lengthed’ or ‘stressed’ (see discussion in 3.5.1)

<sup>37</sup> In Rif’at’s edition these words are imperfectly vocalised.

*hāḍihi l-lāmāt al-maḍkūra kamā yanṭuqu l-‘arabi bi-l-lām min lafza al-gālāla ta ‘ālā musammāhā wa-gālla, Ḥilya 77,5.)*

In *Šūḍūr* the velarised *l* is systematically indicated in orthography by means of three dots underneath the word, e.g., ’aḷ [al] ‘take’ - [el] ‘hand’ (although in the MS here both *ls* have three dots underneath, 5<sup>r</sup>5f).

### 3.1.2.2 Mixing and flavouring of consonants

Apart from the above mentioned terminology, the sources often use the concept of a consonant that is ‘mixed’ (*mašūb*) or ‘flavoured of’ (*mušamm*) others for indicating velarisation (see discussions 1.1.2). Both concepts are also used for Turkic in order to describe voiced and voiceless phonemes based on basic Arabic phonemes. For example, the velarised *z* is described as “*z* mixed with *ṣ*” (*zāy mašūba ṣādan*, 8,7)<sup>38</sup> or elliptically “mixed *z*” (*zāy mašūba*, 10,4), and occasionally also *bi-l-‘iṣmām*, literally ‘with flavouring’ (75,9).

This description of a velarised *z* is identical with the one used in Arabic for the same or a similar allophone of *ṣ* (see 1.2.1). Further, in *Tarḡumān* and *Durra* the velarised *d* is described as “*d* flavoured with *ṭ*”, e.g., ’adim [adīm] ‘step’ (*ad-dāl mašmūma bi-ṭ-tā*<sup>2</sup>, *Tarḡumān* 21,9).

In the manuscripts the concept of ‘mixture’ is orthographically reflected by means of a small velar consonant scribbled above the basic one. In *Tuḥfa*, for example, the initial *š* in *šāš-* [čaš] ‘to come unexpectedly’ (7<sup>v</sup>12) is marked with a small *ṣ*, in order to indicate a velarised *č*. In *Qawānīn* velarised *z* is in one instance indicated with the combination of *zṣ*, e.g., **buṣṣ** ‘destroy!’ (75,9; MS 81<sup>r</sup>), but usually a full description is given. Further examples are **qizḍir** ‘heat!’, and **buḡaḡla** ‘kill!’ (by cutting the throat) (*Qawānīn* 75,4)<sup>39</sup>, **duwār** [duwa:r] ‘wall’ with a *ḍ* scribbled underneath **d** (*Durra* 3<sup>r</sup>8). In *Bulḡa* the orthographic reflection has become the base for the description itself, viz., “*d* with a superposed *ṭ*, or a *ṭ* with a superposed *d*; it is pronounced between [d and ṭ]” (*ad-dāl faḡqahā ṭā wa-ṭ-tā faḡqahā dāl yunṭaq bihā baynahumā*, MS 1<sup>r</sup>8).

<sup>38</sup> Em. for *mašūma* in MS 8<sup>r</sup>.

<sup>39</sup> Throughout the edition of *Qawānīn*, though, **ḡ** is erroneously described as “*z* mixed with *d*” (*zāy mašūba ḡādan*, 29,11), in print it is indicated in numerous instances with **zḡ**, e.g., ’azḡ qal-ḡī ‘it was near’ (literally ‘little was left’) (*qāraba*, 29,18). These must be attributed to misreadings by a copyist or the printer.

## 3.1.3 Labelling of neutral consonants

The use of velar consonants, for those sources that accept them as consonants/phonemes, should make application of the labels mentioned in the previous section superfluous. Nevertheless, in some instances the basic consonant with a label is used instead. In these cases it is difficult to interpret the perceived qualitative difference between the velar and ‘velarised’ variants—if any difference is intended. In *ʿIdrāk mufahḥam* is used in the following instances where an emphatic consonant could have been used, viz.,

Neutral consonant with label	Velar consonant
ʿatā [ata] ‘father’ (marker above t)	ʿatā [ata] ( <i>ʿIdrāk</i> 8; MS 2 <sup>o</sup> 3)
yat [yat] ‘power’ ( <i>ʿIdrāk</i> 91)	yaṭ [yat] ‘stranger’ ( <i>ʿIdrāk</i> 94)
sibā [sīpa] ‘young donkey’ ( <i>ʿIdr.</i> 51).	

An interesting case in point is the grapheme /ʿat/. In *ʿIdrāk* it has three meanings, depending on the label. When marked for velarisation, i.e. [at], it means ‘throw!’, whereas when it is palatalised, i.e., [et] its meaning is ‘meat’ (*ʿIdrāk* 7; MS 2<sup>o</sup>2; t marked in both instances). The marker for palatalisation is, in fact superfluous, but may be put here in order to stress the opposition. In *Dīwān* it is labelled, probably for the same reason. But there is more to it. The back variant of this grapheme has a second meaning, i.e. ‘horse’. For the former, however, ʿAbū Ḥayyān (14) uses the consonant one would expect in a back word all along, i.e. ṭ. *Qawānīn* (57,16), *Dīwān* (29,10; 12; 52,6; 95,1) and *Hilya* (87,8; 93,12) have yet other solutions.<sup>40</sup> The overall scheme is as follows:

[at / et]	<i>Idrāk</i>	<i>Hilya</i>	<i>Dīwān</i>	<i>Qawānīn</i>
‘shoot!’/‘throw!’	velarised		no label	ṭ
‘horse’	ṭ	velarised / ṭ	velarised	ṭ
‘meat’	palatalised		palatalised	t

*Qawānīn* shows the expected orthographical signs, i.e., ṭ/t in order to express the distinction. The use of both velarised t and ṭ in *ʿIdrāk* is difficult to explain; the phonetic difference between [at] ‘horse’ and [at] ‘throw’ is not clear, if there is any. Perhaps ʿAbū Ḥayyān could not decide between the two alternatives he had, or, indeed, he heard differ-

<sup>40</sup> In some Turkic languages there is a third meaning of this grapheme, ‘name’; ʿAbū Ḥayyān (9) gives the Oğuz variant of this word which ends in -ḏ. *Qawānīn* uses both ṭ and -ḏ.

ent pronunciations. A second option is that the words without  $\text{ʃ}$  and  $\text{ʧ}$  were copied in this form from an older source that does not use velar consonants.

For historical reasons a back pronunciation must be assumed for a number of words even though this is, or cannot be reflected orthographically, and markers are not used either. Examples are, e.g.,  $\text{ʔač}$  [ač] ‘open’ (*ʔIdrāk* 8);  $\text{čatir}$  [čatir] ‘sunshade’ (*ʔIdrāk* 41);  $\text{sina-dī}$  [sina] ‘he tested’ (*ʔIdrāk* 54; elsewhere 112,13  $\text{ʃ-}$ );  $\text{mūm}$  [mum] ‘candle’ (*Qawānīn* 64,8);  $\text{siŋ-dī}$  [siŋ] ‘he hid in the earth...’ (*ʔIdrāk* 54);  $\text{ʔuč-}$  [uč] ‘fly’ (*ʔIdrāk* 7;  $\text{ʔuš}$  *Qawānīn* 78,8) and  $\text{ʔut}$  [ot] ‘grass’ (*ʔIdrāk* 7).

There are very few examples of words that are marked for velarisation whose only vowel is  $\text{i}$ , and the phonetic value it represents is then difficult to interpret. In some instances, no doubt, [i] must be meant, whereas in others probably the stand-alone vowel [é] is intended. In *ʔIdrāk* there are a few examples of this, e.g.,

$\text{did-dī}$  [did] ‘to pluck (wool and cotton)’ (*ʔIdrāk* 48; MS 14<sup>v</sup>8, initial  $\text{d}$  labelled; EDT 450; cf. *Tarğumān* 36,20; *Tuħfa* 37<sup>r</sup>1)

$\text{ʔil}$  [él] ‘town’ (*ʔIdrāk* 20; MS 5<sup>v</sup>2; marker above  $\text{l}$ ; EDT 122 “ $\text{é:l}$ ”)

$\text{ʔin}$  [én] ‘breadth’ (opposite of length) (*ʔIdrāk* 23; MS 6<sup>v</sup>9; with *hamza* marked).

In these instances the sources apparently posit [é] as a secondary realisation of  $\text{i}$ . Other descriptions of [é] are given in 3.1.6.5.

### 3.1.4 The status of velarised consonants vis-à-vis their unlabelled counterparts

Each of the sources used in this study gives a listing of the consonants of Turkic which are discussed in 3.6.1; with an appropriate modern term, the consonants in the listings could be described as ‘phonemes’. Other phonemes than the basic ones that are included in the lists are typically indicated by means of labels. For example, in the instances mentioned above the term *mufahḥam* is used to describe ‘allophonical variants’, rather than phonemes.<sup>41</sup>

The status of these non-regular consonants in relation to the ‘regular’ velar consonants is elucidated in *Qawānīn* as follows:

“The consonants of elevation are seven [in number] and they are gathered in the [mnemonic sequence]  $\text{qz hʃ dğt}$ . [However,] there is no  $\text{z}$  in this language and therefore it has only six [consonants of elevation]. The ve-

<sup>41</sup> In *Hīya* (72,4) a  $\text{bā}$  and  $\text{zāy mufahḥama}$  (79,4) are mentioned, but in there they must be interpreted as [p] and [ž], respectively, rather than velarised (see discussion in Section 3.6.2.1).

larised *b*, *n* and *l* resemble them; like this is every velarised consonant and so is the *z* that is mixed with *ʃ*.” (*wa-ḥurūf al-istiʿlāʾ sabʿa yuġmi ʿuhā qawluka qz ḥṣ dġt wa-hāḍihi l-luġa laysa fihā zāʾ muġama fa-takūnu fihā sitta wa-ṣibhuhā al-bāʾ wa-n-nūn wa-l-lām al-mufahḥama wa-kadālika kull ḥarf mufahḥam wa-kadalika az-zāy al-mašūba ṣādan, Qawānīn 8,5-7.*)

Four comments to this statement are in place here. First, although the author compares the velarised *b*, *n*, *l* and the ‘*z* that is mixed with *ʃ*’ to the elevated consonants of Arabic, I am not quite sure that default conditioned velarisation is indeed a general principle for *n* to the same extent it is for *r* and *l*. There is, however, some supporting evidence. *Qawānīn* itself specifies elsewhere that *n* in *nādir bū* [nedir bu] ‘what is this’ is palatalised (“with inclination of *n*” *bi-ʾimāla an-nūn*, 16,9), which only makes sense if back is the default pronunciation. Furthermore, *n* is mentioned in *Dīwān* and the Margin Grammar too as a velarised consonant (see 3.1.6.3).

The second remark, in addition to the velar and velarised consonants he mentions, the author of *Qawānīn* refers “to every velarised consonant” (*kull ḥarf mufahḥam*), which I interpret here as an indication that basically all neutral consonants can be labelled as velarised.

In the third place, *Qawānīn* is the only source to explicitly mention *b*, which, in fact, makes very little sense. Velarisation is, according to this quotation (see previous remark), a fairly productive feature that can be applied to all neutral consonants; in other words, there is no reason to particularly indicate this for *b*. On this ground, I tend to interpret *bāʾ* here as a copyist’s or printer’s error for *rāʾ*. Together with *n* and *l*, *r* forms the category of the liquids (*ḥurūf dawlaqiyya*) (see also 1.1.1) Indeed, *Qawānīn* is not the only source to refer to this allegedly common feature of all three liquids, for similar descriptions are found in *Dīwān* and the Margin Grammar (cf. 3.1.6.3).

In the fourth place, according to other data in *Qawānīn*, *ḥ* is not a basic Turkic phoneme; it has a velarising effect only inasmuch it is an allophone of *q*, such as in *ʾaḥṣam* ‘evening’ and is described in terms of mixing (see discussion of Turkic allophones below in 3.6.4.1 and no. 21b in the appendix to this chapter).

Another interesting point is that *ṣ* is apparently not considered a mere velarised *z*; there seems more to it. In spite of his reservations for *z*, though, the author does accept the grapheme *ض*, i.e. *ḍ*, for velarised *d*.

### 3.1.5 Velarisation in *Ḥilya* and *Dīwān*

*Ḥilya* and *Dīwān* occupy a special place among the sources, in the sense that they reject the existence of all, or a number of Arabic covered consonants, respectively. The opinions reflected in these works with regard to velarisation and palatalisation too differ considerably from the ones found in the other sources.

#### 3.1.5.1 Velar consonants in *Ḥilya*

According to Ibn al-Muhannā, **t** and **s** can be substituted (*ʿibdāl*) with **ṭ** and **ṣ**, respectively, viz., **s/ṣiḡir** ‘cattle’; **s/ṣūl** *ʿilīn* (lit.) ‘your left hand’) **t/ṭūrum** ‘camel colt’; **t/ṭāy** ‘colt’ (*Ḥilya* 79,8); **ʿurt/ṭā** ‘middle’ (90,12).<sup>42</sup> In the rest of his work, though, Ibn al-Muhannā displays a preference for non-velar consonants in these same words (172,14; 90,14; 172,4), which means that he does not use **ṭ** and **ṣ** in a regular way for indicating a back pronunciation. The other sources (except *Dīwān*, which rejects all four ‘covered consonants’, cf. 3.1.5.3 and 3.6.1.2) typically do use **ṭ** and **ṣ** (cf. *Qawānīn* 37,16; *ʿIdrāk* 111,8; MG 52<sup>1</sup>t; *Tarḡumān* 39,17; *Tuḥfa* 45<sup>1</sup>8).<sup>43</sup>

In a number of occasions in *Ḥilya* **s** and **t** co-occur with **ṭ**, e.g., **ṭūt ḡil** ‘grasp!’ (129,6), **sāṭin** ‘buy’ (126,12), whereas in the other sources velar and neutral consonants typically do not occur together in the same stem.

#### 3.1.5.2 Ibn al-Muhannā’s concept of velarisation

Ibn al-Muhannā applies the term *mufaḥḥam* to a small number of consonants only. He understands *tafḥīm* as a general term for ‘stress’ or ‘emphasis’, of which velarisation is one possibility, viz.,

“The consonants that are emphasised like the *ls* that resemble the pronunciation of the Arabs in the utterance ‘the almighty God’ are marked with *f* (ف).” (*wa-mā kāna min al-ḥurūf mufaḥḥaman ka-l-lāmāt al-muṣābiha li-nuṭq al-ʿarab bi-lafza ʿallāh taʿālā fa-ʿalāmatuhu f*, *Ḥilya* 74,8.)

The abbreviation *f* ف recurs with other consonants that are labelled as *mufaḥḥam*, e.g., **tūy** /tuy/ (with marker above *y*) [toy] and **būy** /buy/ [boy] (see for other use of *mufaḥḥam* in *Ḥilya* 3.6.4.1). In *Ḥilya* velarisation is one of the features, apart from lengthening, that can be expressed by means of insertion of a glide, called *tafḥīm al-ḥurūf*

<sup>42</sup> Some of these examples from *Ḥilya* are not fully vocalised.

<sup>43</sup> Interestingly, most of these words contain **r** or **l**, so that there may be a relation with the default back interpretation of **r** and **l** as discussed in section 3.1.6.2).

'velarisation of the consonants'. Here /w/ serves as a marker of velarisation, viz., **būy** /buwy/ [boy] 'fenugreek' and **tūy** /tuwy/ [toy] 'a large gathering'.<sup>44</sup> Evidently, Ibn al-Muhannā here uses an orthographic device that is usually associated with lengthening for indicating velarisation.<sup>45</sup>

### 3.1.5.3 Velarisation in *Dīwān*

In *Dīwān*, Kāšgarī, too, basically distinguishes between back and front words by means of the appropriate consonants (cf. examples in 3.6.2). Unlike the other sources, though, Kāšgarī categorically rejects all four 'covered' consonants (along with the Arabic consonants *ḥ*, *h* and *ʿ*) for Turkic:

"In none of the Turkic languages do you find *ḥ*, nor any of the 'covered consonants' *ḥ*, *z*, *ṣ*, *ḍ* or the guttural consonants *ḥ*, *h* and *ʿ*." (*wa-lā tūğad fī luğāt at-Turk bi-ʿasrihā aṭ-ṭāʿ wa-kaḍālika min ḥurūf al-ʿiṭbāq aṭ-ṭāʿ wa-ḡ-zāʿ wa-ṣ-ṣād wa-ḍ-ḍād wa-kaḍālika min ḥurūf al-ḥalq al-ḥāʿ wa-l-ḥāʿ wa-l-ʿayn*, *Dīwān* 7,4-6.)

The only velar consonants Kāšgarī does accept are **q** and **ğ**.

An important consequence of the rejection of all 'covered' consonants is that more instances of back vowels must be indicated for a back pronunciation than is the case in the other sources. For this purpose Kāšgarī has a set of labels at his disposal, which is also described in detail by Dankoff and Kelly (1982: 56ff) and Kelly (1972). For velarised words Kāšgarī uses the terms *ʿiṣbāʿ* 'saturation' and *muṣbaʿ*, literally 'saturated' (cf. 3.1.5.5). These terms stand opposed to *ʿiṣmām* 'palatalisation' (cf. 3.1.6). In *Dīwān* *ʿiṣbāʿ* is used 16 times, and *ʿiṣmām* 15. As a general reference, Kāšgarī used "the word that contains a **k**" (*al-kalima allatī fihā kāf*), 'fine' (*rakīka*)<sup>46</sup>, "inclining to the

<sup>44</sup> In two other instances the term *tafḥīm* does not relate to velarisation but to other qualities of the consonants. For example, with *tafḥīm* **b** is pronounced as [p], and **z** as [ʒ], respectively. In *Tarğumān* *tafḥīm* is used for both velarisation and descriptions of voicelessness (3.6.2.1).

<sup>45</sup> Three other examples are in fact already interpreted as back because of the occurrence of **ğ**, and any marker would be superfluous. In those cases, though, a marker might serve for indicating that **u** is pronounced [o] or the like, e.g., **būğdāy** /buwğda'y/ [boğda:y] 'wheat'; **būğrā** /buwğra/ [boğra] 'camel stallion'; **tūğrā** /tuwğra/ [toğra] 'signature'. In modern Turkic languages, however, there are no indications for [o] in these words. (In *Ḥīlya* these same words recur as examples of 'dead **ğ**' [*ğayn mayyita*], see Section 3.6.4.1).

<sup>46</sup> In *Dīwān* the term *rakīk* is further applied to the distinction between voiced, 'fine **k** (*kāf rakīka*) [g] and voiceless 'firm **k** (*kāf ṣulba*) [k] (also for **p**, **t**, **č** and **q**, see discussion in Section 4.8). The same term is used to describe the way of speaking of certain tribes who speak with *rikka* (by Dankoff and Kelly translated as 'slurring').



three vowels” (*mumāla ʿilā l-ḥarakāt at-talāṭa*, or simply *mumāla* (302,15; *mumāl* recurs in MG, cf. 3.4.1). In a similar way he differentiates between velar “the word which contains **q** or **ḡ**” (*al-kalima allatī fihā qāf ʿaw ḡayn*) on the one hand, and “velarised” words (*mušba ʿa fī l-lafz*) on the other.

### 3.1.5.4 Back and front pairs in *Dīwān*

‘Velarised’ and ‘palatalised’ basically serve to indicate the opposition between back and front words. In *Dīwān* all graphemes that are labelled indeed form a so-called minimal pair of which at least one member is marked (although the words themselves do not necessarily occur close to each other in the text.) In some instances marking serves to distinguish between [u - o] or [ü - ö].

There are three possible pairs. The first is that the default pronunciation is front, therefore the word must be labelled if a back pronunciation is intended; secondly, the opposite, i.e. the default is back, the front pronunciation being labelled. The third is that both members are labelled for the respective pronunciations in order to indicate the opposition, regardless of the default pronunciation, viz.,

Unlabelled ʿaba [epe] ‘mother’	Velarisation [apa] ‘bear’ (55,13; <i>hamza</i> velarised)
ʿuḡ [üč] ‘three’ (29,17)	[uč] ‘well-known town’ (30,1; ʿalif velarised; EDT “Uç Turfan”).
taḡ /tank/ [teḡ] ‘peer’ (599,15)	[taḡ] ‘sieve’ (600,2).
Unlabelled turā qalqan [tora] ‘shield’ (542,10)	Palatalisation [töre] ‘front side of the house’ (542,11)
Velarisation ʿat [at] ‘horse’ (29,10)	Palatalisation [et] ‘meat’ (29,12).
tüš [tuš] ‘buckle’ (497,11)	[tü:š] ‘breast’ (497,10).

However, the number of words Kāšgarī labels in this manner is much smaller than one would deem necessary to cover all instances where confusion might occur, especially the number of verbs is very small. A plausible explanation for the relatively small number of labelled verbs is that in *Dīwān* all verbs are already marked in another way. Throughout *Dīwān* Kāšgarī provides for each verbal entry its appropriate infi-

nitive form, which is, obviously, **māk** with front, and **māq** with back verbs, viz.,<sup>47</sup>

**butur-māk** [bütür-] ‘to heal’  
(305,15)

**batur-māq** ‘to hide’ (306,1)

**tutuš-māk** [tütüş-] ‘to quarrel’  
(313,8)

**tutuš-māq** ‘to hold one another’  
(313,6).

According to principles he does not disclose—although in some instances they are obviously related to the occurrence of certain consonants in the stem—Kāšġarī gives the appropriate suffix for each verbal stem. In further references the velar stems are called *qāfiyya* i.e. ‘ending in q’ (occasionally *ġayniyya*, ‘ending in ġ’), and palatal verbs are called *kāfiyya*, i.e. ‘ending in k’. These denominations either derive from the infinitive suffixes Kāšġarī assigns them, or from the general principle that words containing a q take velar suffixes, whereas those that have k get palatal suffixes (see further discussion in 3.3.2).

In this way, it is left to the readership to infer that deverbal nouns and adjectives follow the verb in the type of suffix, for no deverbal word appears to be labelled for either palatalisation or velarisation (see listing in Dankoff and Kelly 1982:56-8).<sup>48</sup>

### 3.1.5.5 Kāšġarī’s use of the term <sup>ʔ</sup>*isbā*<sup>ʕ</sup>

As pointed out above in section 1.5.1.1, in Arabic morpho(no)logical terminology <sup>ʔ</sup>*isbā*<sup>ʕ</sup> means ‘lengthening’ for poetical reasons, such as the metre or rhyme. In other sources, such as <sup>ʔ</sup>*Idrāk*, it is used in this sense exclusively (see below Section 3.5.1). In *Dīwān* <sup>ʔ</sup>*isbā*<sup>ʕ</sup> is applied in the sense of lengthening only once, viz., *mušbaʕa fi l-lafz*, literally “lengthened in the pronunciation” (284,12). This concerns a passage in which Kāšġarī explains that biradical words, such as /bar-/ ‘to go’, and /tur-/ ‘to stand’ can be considered triradical if one also counts the weak consonant, *y*, *w* and <sup>ʔ</sup>*alif*, which are inserted when these verbs are pronounced with lengthening (<sup>ʔ</sup>*isbā*<sup>ʕ</sup>), /baʕr-/ *bār*- and /tuwr/ *tūr*- (*bin-nuṭq ʕinda l-ʔisbā*<sup>ʕ</sup>, *Dīwān* 284,4). (The opposite, reduction is possible too; cf. above 1.5.1.2).<sup>49</sup> It is therefore evident that Kāšġarī was aware of the signification the term <sup>ʔ</sup>*isbā*<sup>ʕ</sup> had in Arabic linguistics, and

<sup>47</sup> Sometimes even a form **mākq** (with both k and q) is given, interpreted by Dankoff and Kelly (1982:64) as an indication for velar-palatal alternation in the root.

<sup>48</sup> In Dankoff and Kelly’s list of occurrences of <sup>ʔ</sup>*isbā*<sup>ʕ</sup> and <sup>ʔ</sup>*ismām* (1982:56ff) only one verb is labelled. This does not concern the opposition back - front, but a description of the vowel [o] instead of [u] in a back word.

<sup>49</sup> This passage also shows that Kāšġarī did not regard <sup>ʔ</sup>*alif* as a vowel, but as a consonant that can be a part of the root of a word (although in practice <sup>ʔ</sup>*alif* is never a part of the root in Arabic).

that he for some reason preferred to choose it for indicating ‘velarisation’, rather than another term he could have applied, such as *tafḥīm*. (In *Dīwān tafḥīm* occurs once, 91,14).

The word *lafz*, ‘pronunciation’, immediately calls to mind its opposite, *taqdīr*, ‘underlying structure’. The phrase in question means that the word is lengthened in pronunciation, for prosodic, rather than morpho(no)logical reasons. Thus Kāšġarī quite correctly understands <sup>ʔ</sup>*isbā*<sup>ʕ</sup> and its opposite <sup>ʔ</sup>*ismām* (for which see 3.1.2 and 3.1.6.2) in their broadest sense as features that are reflected in pronunciation (or the surface structure) only, and which have no representation in the underlying structure (*taqdīr*). In this argumentation, velarisation and palatalisation alike, may be understood as mere prosodic, secondary features.

There is an obvious parallel with Ibn al-Muhannā’s use of the glides in *Hilya* (discussed above in 3.1.5.2). Among other features, Ibn al-Muhannā uses marking with glides as an orthographic instrument to indicate velarisation.<sup>50</sup> As we have seen, the use of glides for non-morpho(no)logical reasons is called <sup>ʔ</sup>*isbā*<sup>ʕ</sup>. It appears that Ibn al-Muhannā uses this principle for indicating velarisation, although he does not use the term <sup>ʔ</sup>*isbā*<sup>ʕ</sup> in this respect. In Kāšġarī’s *Dīwān*, however, it is only the term that is used, without involvement of the glides themselves.<sup>51</sup>

### 3.1.6 Palatality and palatalisation

This section discusses the instances in which ‘palatalisation’ is used in the description of Turkic. As a rule, words without a velar consonant have a default pronunciation with front vowels, based on concepts derived from Arabic. For Arabic a palatal pronunciation implies a standard inclination of *a* towards [ä/e]. In the same way, Arabic *u* in neutral words is not always palatal, i.e. [ü], it may be neutral, [u], but never [o] (see discussion in 1.1.1 and 1.4.2). With regard to *i*, things are less evident, since the Arab grammarians do not explicitly describe a change in the quality of *i* with velar or velarised words.

<sup>50</sup> Ibn al-Muhannā once uses the term *mušba*<sup>ʕ</sup> in the sense of ‘emphasised’ when describing ġ, where he writes that the people of Turkestān pronounce the ġ “emphasised as it is” (*mušba*<sup>ʕ</sup> *a bi-ḥālīhā*) in words like *tūġrā* /*tuwġra*/ ‘signature’ [tuġra], *būġday* /*buwġda*/ ‘wheat’ [buġday], *būġrā* /*buwġra*/ ‘camel stallion’ [buġra]—as opposed to other Turks who pronounce it as *w* (*Hilya* 78,2; cf. Section 3.6.2 ‘dead ġ’).

<sup>51</sup> Unless, indeed, one considers the two examples given above /*ba*<sup>ʔ</sup>*r*/ and /*tuwr*<sup>ʔ</sup>/ as examples of velarisation by means of insertion of a glide.

Nevertheless, it seems reasonable to assume for Turkic a certain colouring in velarised words, i.e. [ɨ]. However, in Turkic vowels can never be neutral, they have to be either front or back in view of the suffixes the stem is to take.<sup>52</sup> In this respect, in front words, **u** is generally interpreted as [ü], **a** as [e], and **i** as [i]. To mention some examples with **a**, <sup>2</sup>**amkak** [emkek] ‘hardship’ (*Dīwān* 68,1); **dak-dī** [dek] ‘he reached’ (*ʿIdrāk* 49). In front words **u** is generally read [ü], e.g., <sup>2</sup>**učun** [üčün] ‘for’ (*Tarğumān* 54,20); **duš-tī** [düš-] ‘he fell’ (*ʿIdrāk* 48) and <sup>2</sup>**ičtur-dī** [ičtür-] ‘he made drink’ (*Dīwān* 116,16).

### 3.1.6.1 Velar consonants labelled palatalised

In two instances <sup>2</sup>Abū Ḥayyān indicates that a velar consonant must be pronounced palatalised (*muraqqaq*), which appears contradictory, since he could have used the non-velar counterpart instead. In these cases the ‘velarising’ effect on the following vowel is probably perceived as too strong, viz., **ṭuy-dī** [tuy] ‘he felt’; **ṭuy-sū** [tuysu] ‘feeling’ (*ʿIdrāk* 67; MS 21<sup>v</sup>1). The default pronunciation of these words then, may be [o]. (Note that here **s** is used rather than **ṣ**).<sup>53</sup>

### 3.1.6.2 Palatalisation of **r** and **l**: back is default

The labels for palatalisation in question are especially often applied to words with **r** and **l**. This is a general tendency in at least four sources (*Dīwān*, *ʿIdrāk*, the Margin Grammar and *Qawānīn*), which can easily be explained with the aid of rules from Arabic phonology as pointed out above in section 1.1.4.<sup>54</sup>

There is abundant evidence for this in all sources mentioned above. Words with a default back pronunciation with out being marked are, e.g., <sup>2</sup>**arī** [ari] ‘clean’ (*ʿIdrāk* 10); **bul-dī** [bul] ‘he found’ (Oğuz) (*ʿIdrāk* 36); **bar** ‘existing’ (*ʿIdrāk* 29); **nār** ‘pomegranate’ (*Qawānīn* 63,8);

<sup>52</sup> That is, within the system of a given Turkic language the opposition must exist. In absolute phonetic terms it may well be the case that in certain Turkic languages the opposition could more aptly be described as neutral-front, or neutral-back.

<sup>53</sup> There are two other explanations. The first is that **ṭ** must not be pronounced palatalised, but rather like velarised **d**. If this is the case, then **ṭ** only serves to indicate velarisation of the initial consonant. Interpreted in this second way, the description yields [duy] and [duysu], which is close to Oğuz forms such as **duy-** in Turkish and modern Türkmen (cf. Hanser 1977:239). The second option is that the marker here is used for indicating an oppositional pair with [toy-] ‘to be saturated’, which is marked for velarisation (cf. 3.4.1).

<sup>54</sup> As stated already in 3.1.4 and below in 3.1.6.2, there is as yet no convincing evidence that the same rule applies to the third liquid, **n**, although some sources make statements to this effect. There are indications that it holds to some extent for Turkic words with **z** preceded by **u** as well, although this principle is, to my knowledge, not described in Arabic grammar itself; see discussion in section 3.4.3.

**ʾulu-du** [ulu] ‘he howled’ (said of dogs) (*ʾIdrāk* 20); **yarat-tī** ‘he created’ (*ʾIdrāk* 93); **yar-dī** ‘to split’ (*ʾIdrāk* 93); **yilān** [yilan] ‘snake and viper’ (*Qawānīn* 62,9).

Naturally, if a back pronunciation of **a/u** close to **r** and **l** is default, it is necessary to specifically indicate a front pronunciation with a label. This too can be exemplified with many examples, e.g., **ʾal** [el] ‘hand’ (*ʾIdrāk* 20; MS 5<sup>r</sup>21; *Šudūr* 5<sup>r</sup>11 palatalised **l**); **ʾala-dī** [ele] ‘he sieved’ (*ʾIdrāk* 20; MS 5<sup>v</sup>1, **l** palatalised); **yabar** [yeber] ‘send!’ (*Qawānīn* 74,12); **tabra-t** [tebret] ‘move!’ (*Qawānīn* 77,10); (in the last two words “**r** [is] palatalised” [*bi-rāʾ muraqqāqa*]). For *Dīwān* this can be illustrated with two minimal pairs in which the default form has back vowels, whereas the front version has a label, namely

Palatalised	Unlabelled
<b>sar-</b> [ser] ‘be patient’ (285,7)	[sar] ‘to rebuke’ (267,14 <b>sār-</b> ) (285,8).
<b>turā</b> [töre] ‘front(side) of the house’ (542,11)	[tura qalqan] ‘shield’ (542,10)

### 3.1.6.3 Discussions of **l** and **r** in the sources

Apart from rather indirect clues such as the marking of consonants and words with abbreviated labels, as has been shown above, the rule with regard to **l** and **r** is referred to quite explicitly in *Dīwān* and in the Margin Grammar. Kāšgarī notes that a given suffix has **ġ** when it is attached to ‘velarised’ (*mušbaʿa*) ‘liquids’ (*hurūf aḍ-ḍalāqa*) (i.e. **l**, **r** and **n**), and to words containing **ġ**, whereas the suffix contains **k** when it is attached to their palatal counterparts. He writes:

“The **ġ** is attached in the case of the liquids that are velarised or [words] that contain a **ġ**, and the **k** in the opposite case.” (*tuzād al-ġayn fī hurūf aḍ-ḍalāqa al-mušbaʿa ʾaw al-ġayniyya wa-l-kāf fī ḍiddihā...*, *Dīwān* 582,5; Dankoff and Kelly 1984: 311.)

In the Margin Grammar it is explained in quite similar terms that words with either velar consonants, or with **l**, **r** or **n** receive a velar suffix:

“If the verb contains a **q**, **ṭ**, **ḥ**, **š**, **ḍ**, **ḥ**, **z**, then it is correct to use **qil**, and if it contains ..., **l**, **r** or **n**, it is correct to use **ġil**, and for [verbs that] contain any other consonant you use **kil**. The first category of consonants are called consonants of elevation” (*al-fiʿl ʾin kāna fihi min al-qāf wa-ṭ-ṭāʾ wa-l-ḥāʾ wa-š-šād wa-ḍ-ḍād wa-l-ʿayn wa-z-zāʾ ḥasuna fihi qil wa-ʾin kāna fihi al-...āʾ [ʔ] wa-l-lām wa-r-rāʾ wa-n-nūn ḥasuna fihi ġil wa-*

*mā ḥalā min ḥādīhi l-ḥurūf kullihā yaḥsun fihi kil wa-summiya l-ʿulā ḥurūf al-istiʿlāʾ*, MG 44<sup>1</sup> (in text.)

I am not sure whether the rules that apply to *l* and *r* equally holds for *n*, but there are at least three authors that assume that all three liquids share this conditioned pronunciation.<sup>55</sup> Note however, that neither source mentions any conditioning by surrounding vowels. The inclusion of a number of consonants that never occurs in Turkic (such as *ʿ* and *z*) shows that this rule is basically an Arabic principle that is transferred to Turkic. Incidentally, it could be interesting to know which fourth consonant the anonymous author mentioned; unfortunately the manuscript is illegible at this point. A fair guess would be *z* (as *zāʿ*), since there are indications that the rule of *l* and *r* applies to *z* too.

Furthermore, the application of the term *ʿimāla* to a consonant other than *ʿalif* or *a*, is interesting too (for which see 1.4.2).

#### 3.1.6.4 Counterexamples of *l* and *r*

There are some counterexamples too. A few words are marked velarised whereas this label seems redundant, considering the principle explained in the previous section, viz., *ʿāl* /ʿaːl/ [al] ‘trick, and blond horse’ (*ʿIdrāk* 20; MS 5<sup>2</sup>21, velarisation indicated above middle *ʿalif*); *ʿāl* [al] ‘take’ (*Qawānīn* 77,12; “velarisation of *hamza* and *l*”; also *Šudūr* 5<sup>1</sup>11, velarised *l*); *bašar-dī* [bašar] ‘to complete’ (*ʿIdrāk* 32; MS 9<sup>8</sup>, š marked velarised). In the case of [el] ‘hand’ and [al] ‘trick’ the markers may have been put there in order to stress the opposition between the two ways of pronunciation (see also Kelly 1972:183), especially when the words occur near to each other in the text, although, strictly speaking, the label for velarisation is redundant.

In other instances, words known to be front remain unlabelled even though a label would be expected here, viz., *buldī* [böl] ‘to remove’ (*ʿIdrāk* 36; MS 10<sup>1</sup>18); *durā* [döre] ‘a code of law and conduct’ (*ʿIdrāk* 48) and *tar* [ter] ‘perspiration’ (*ʿIdrāk* 38).

#### 3.1.6.5 *r* and *l* preceded by *i*

In accordance with the general rule in Arabic (see 1.1.4), the unlabelled word with *r* or *l* preceded by *i* has default front vowels, which is also the general principle in all sources, viz., *ʿir* ‘make disappear!’ (*ʿIdrāk* 10); *birdī* ‘he gave’ (*ʿIdrāk* 29; *Ḥilya* 73ff; however EDT 354 “*bér-*”) and *bir* ‘one’ (*ʿIdrāk* 29).

<sup>55</sup> In section 3.1.4 I discuss in more detail a statement in *Qawānīn*, with similar references to this allegedly common feature of all three liquids. There is a similar reference in ‘Alī bn Sulṭān al-Qāri’*s al-Minaḥ al-fikriyya* (22,37).

It is not quite clear how one should interpret *i* near an *r* and/or *l* when they are marked for palatalisation or velarisation, of which there are a few examples in *ʿIḍrāk*. Possible interpretations are [é], or explicit back *i*, [i̠], viz., e.g.,

Palatalised:

ʿir [ir] ‘feel bored!’

[ér] ‘reach!’ (*ʿIḍrāk* 10; MS 3<sup>2</sup>, *r* palatalised; EDT 194)

ʿir [i̠r] ‘song’ (*ʿIḍrāk* 10; MS 2<sup>22</sup>; *r* palatalised; EDT 192)

Velarised:

ʿil [él] ‘town, peace’ (*ʿIḍrāk* 20; MS 5<sup>2</sup>, *l* velarised; cf. 3.1.3).

### 3.1.7 Summary

In some instances words with neutral consonants must be interpreted as having a back pronunciation. There are clear indications that this holds mainly for nouns. The grammarians considered the marking of verbal stems more important than nouns. As is briefly discussed in 3.1.5.4, *Dīwān* verbs are already marked for the opposition velar - palatal by means of the attachment of the infinitive suffix, and therefore in *Dīwān* only nouns need to be labelled for this opposition. Furthermore, the labelling mainly serves to distinguish between words that have the same orthographic representation (cf. Dankoff and Kelly 1982:56-8).

A similar situation holds for *Tarğumān*, which gives a list of verbal stems to which either a velar or palatal suffix is attached. In this way it is not necessary to specially indicate verbs. In both *Dīwān* and *Tarğumān*, therefore, only a relatively small number of nouns (in *Tarğumān* only those with *z* and *l*) are labelled for the opposition velar - palatal. In *ʿIḍrāk* and *Qawānīn* there is no such division; in *ʿIḍrāk* 98 entries of the word list are labelled, only 28 of which are verbs, whereas in *Qawānīn* almost all back words are marked by the occurrence of a velar consonant, making an additional label superfluous. In *Ḥilya* marking is very scarce, which is probably related to Ibn al-Muhannā’s peculiar insights in the distribution of velar and palatal suffixes (see discussion in Section 4.3).

The principles on which the sources base the distribution of terminology for indicating palatalisation and velarisation are summarised below in Table I:

Pronunciation of vowel when neighbouring consonant of the word has					
neighbouring consonant	vowel sign	no label	label 'palatalised'	label 'velarised'	
1	front: k, k̡	a	e	—	—
		i	i	—	—
		u	ü	—	ö
2a	neutral ʔ, b, m, n, w, y, š, č	a	e	é	a
		i	i	é	ĩ / e
		u	ü	—	u/o
2b	s, t (always neutral in <i>Diwān</i> , occasionally neutral in <i>Hilya</i> ; palatal in other sources; between brackets <i>Diwān/Hilya/Idrāk</i> )	a	e (a)	(e)	a
		i	i (i)	—	ĩ / e
		u	ü/ö (u)	(ü)	u (o)
3	r, l (perhaps also z), with u or a	a	a	e	—
		i	i	é	ĩ/é
		u	u	ü/ö	o
4a	back: š ʧ (not in <i>Diwān</i> , not structural in <i>Hilya</i> ; also ʧ in <i>Qawanin</i> , <i>Durra</i> ; z in <i>Durra</i> )	a	a	?	o
		i	ĩ	—	—
		u	u	?	o
4b	q, ğ	a	a	?	—
		i	ĩ	—	—
		u	u	?	o

Table I: The labels assigned to Turkic consonants  
and their implication for the pronunciation of vowels

### 3.2. Vowel harmony

As briefly discussed above in 2.2, Turkic suffixes are subject to two types of vowel harmony. In the first place, there is the so-called twofold vowel harmony, according to which, for example, the archiphoneme A is realised as either [a] or [e]. This occurs, for instance, in the locative case DA [da - de], the dative case GA [ğa - ge], and in the plural suffix lAr [lar - ler]. In the second place, there is the fourfold vowel harmony, in which the vowel in the suffix has four forms,



depending on whether the stem is back or front, and rounded or unrounded, e.g. the imperative suffix *GI*, the past tense suffix *DI* and the interrogative suffix *mI*.

The twofold vowel harmony can conveniently be described in terms of velarisation and palatalisation, whereas for the fourfold vowel harmony more detailed descriptions are needed. We shall see on which principles the distribution of back and front suffixes is based.

### 3.2.1 Twofold vowel harmony

According to Arabic theory the palatal or velar character of a given suffix evolves as a prosodic feature after elevated or depressed consonants. Vowel harmony thus is often correlated with a change of the consonant, and I am inclined to believe that this change, especially if it can be represented in Arabic script, was the main, or perhaps the sole reason, for the Arab authors to pay attention to this phenomenon. All sources (except *Hilya*) describe the distribution of the velar and palatal forms of the suffixes based on these principles. (For ample discussion of the attachment of suffixes that contain the twofold vowel harmony, the reader is referred to sections 3.3).

In Turkic languages a change in the quality of the vowel must also be inferred when the suffix does not undergo a change that can be made explicit in orthography. Usually, though, the fact that *a* in velar suffixes is pronounced [a] and [e] in palatal or palatalised words is not explicitly referred to in the sources, since they consider it a secondary feature. In this the following paragraphs my intention is to show that velarity and palatality are nevertheless assumed even where this is not visible in orthography. Cases in point are *lAr*, *sA* and *DA*.<sup>56</sup>

#### 3.2.1.1 The plural suffix *lAr*

Although not explicitly stated in the sources, there is evidence that the plural suffix *lAr* follows the basic word in palatalisation and velarisation. The evidence consists of consonantal changes in the suffix, e.g., *kiši-lar-ka* person-PLUR-DAT 'to people' (*ʿIdrāk* 132,11). In view of the palatal dative suffix, the pronunciation of the plural suffix must here be interpreted as front, i.e. [ler]. In a second example the plural

<sup>56</sup> Another instance of a suffix whose twofold vowel harmony is, as a rule, not recognised, is the negation suffix *mā*, which is attached to verbal stems. However, the author of *Qawānīn* states that the negation suffix is "a velarised *m* which is vocalised with *a*", i.e. *ma* (or *mā*), (*mīm maftūḥa mufahḥama*, *Qawānīn* 13,9). This apparently holds for both velarised and palatal verbs indiscriminately, since it is illustrated with a palatal verb, i.e. *kal-ma-dum* 'I did not come'.

suffix is realised back, viz., **bu-n-lar-ğuq** this- **n**-PLUR-DIM ‘those little [ones]’ (*ʿİdrāk* 105,14), which is inferred from the attachment of the diminutive suffix **ğuq** (*ʿİdrāk* 105,10). The suffix **lar** itself, however, is never explicitly described as either palatal or velar.

### 3.2.1.2 The conditional suffix sA

Another instance of a suffix that does not change is the conditional suffix sA. Normally, the quality of the vowel varies according to the twofold vowel harmony, with front verbs it is [se], e.g., **kal-sā** [kelse] ‘if he comes’ (*ʿİdrāk* 152,22); **kat-ar-sā** [keterse] ‘if he goes’ (*Qawānīn* 20,6); **kal-ur sā** [kelürse] ‘if he comes’ (MG 39<sup>rt</sup>), and with back verbs [sa]. In the sources, though, it is invariably spelled **sā**, never \***-šā**, with back and front verbs indiscriminately, even in the sources that in other cases express a velarised pronunciation by means of **ş**, viz., **ʿal-ḍu-m sā** [aldumsa] ‘if I have taken’ (*Qawānīn* 19,14); **ʿal-ur-sā** [alursa] ‘if he takes’ (*Qawānīn* 20,6); **ṭur-dī-sā** [turdīsa] ‘if he has stood up’ (MG 63<sup>rt</sup>); **ṭur-ur-sā** [turursa] ‘whenever he should stand up’ (MG 64<sup>top/lt</sup>).

It is difficult to account for this discrepancy; there are two clues. First, for some reasons the distinction [ʃ] - [s] is apparently perceived as less significant than the opposition [q] - [k], as it is posited in **maq - mak**. Second, there may have been certain spelling conventions in which **ş** is never, or rarely, used in suffixes.

### 3.2.1.3 The locative suffix DA

In the same way the locative case DA is added to both velar and palatal words indiscriminately, e.g., **ṭaṅ-dā** [taṅda] morning-LOC ‘tomorrow’ (*ʿİdrāk* 126,23) **ʿaw-dā** [evde] house-LOC ‘in the house’ (*ʿİdrāk* 137,21). There are no explicit references to a perceived difference in pronunciation.

Only in *Qawānīn* the quality of the **d** in back words is made explicit by means of the grapheme **ḍ**, e.g., **šār-ḍā** town-LOC ‘in the town’ (*Qawānīn* 41,8). In this way, the quality of **a** in the suffix can easily be inferred. In *Qawānīn* suffixes with -D- (e.g., locative **dā**, ablative **dan**, and past tense **dī**) have their own conditioned distribution (**d**-, **t**-, **ḍ**- and **ṭ**-). This is not the case in the other sources, in which **ḍ** lacks altogether (see discussion below in 3.6).

## 3.2.2 Fourfold vowel harmony

In general, the sources do not refer in a systematic way to complete vowel harmony, which also includes labial vowel harmony. The present

section discusses instances of suffixes, i.e. DI, GIL and mI, for which most Turkic languages observe a complete, fourfold vowel harmony of the type sketched above in 2.2.3.

### 3.2.2.1 The past tense suffix DI

The first example is the past tense suffix DI:

“The consonant of the past tense is a **d** vocalised with **i**, if the consonant before it is vocalised with **i** or **a**. It is vocalised with **u** if the consonant before it is vocalised with an **u**, e.g. **tur-dū** [‘he stood up’], **ʔulʔur-dū** [‘he sat down’], **bar-dī** [‘he went’], and **bir-dī** [‘he gave’]. In Oğuz **d** is always vocalised with **i**.” (*ḥarf al-māḍī huwa dāl maksūra ʔin kāna mā qablahā maksūran ʔaw maftūḥan wa-maḍmūma ʔin kāna mā qablahā maḍmūman naḥwa ʔurdū wa-ʔulʔurdū wa-bardī wa-birdī wa-ʔi t-turk-māniyya tuksar ad-dāl muḥlaqan, ʔIdrāk 111,11.*)

ʔAbū Ḥayyān thus relates the quality of the vowel to the one in the final syllable. This principle is the same as the one generally held in western studies of Turkic. ʔAbū Ḥayyān’s comments can be formalised as follows: Ci(C)/Ca(C) → **dī**, Cu(C) → **dū**. Note however, that he does not give any clues in regard to front/back harmony.

An interesting remark is that, apparently, the labial harmony is not applied in Oğuz (Kāšgarī makes a similar statement in *Dīwān* 539). It is difficult to interpret this information. In most cases, ʔAbū Ḥayyān’s remarks on Oğuz are confirmed by evidence from modern languages, which proves that they should be taken seriously. To my knowledge, however, the complete vowel harmony subsists in the past tense suffix of most Turkic languages, including Oğuz languages such as Turkish and Turkmen (e.g., Hanser 1977:85).<sup>57</sup>

### 3.2.2.2 The pausality suffix of the imperative, GIL

Further descriptions of the fourfold vowel harmony are found with the forms of the pausality suffix in the imperative form:

“If the first consonant of the imperative form is vocalised with an **u**, then the penultimate consonant [sc. **ġ** / **ḵ** in the suffix] is vocalised with an **u** too, except when there is an **a** in the verb. Examples of this are **tur-ġul** [‘stand up’] **kul ḵul** [‘laugh’] **kustar-ḵil** [‘show’], **ʔur-ġul** [‘beat’]. If [the first consonant of the verb] is vocalised with an **a** or an **i**, then the penultimate consonant is vocalised with an **i**, except when there is an **u** in the

<sup>57</sup> In some languages groups, such as Kazakh (Qipčaq), the complete vowel harmony (i.e. including labial harmony) in the interrogative suffix has become twofold: *keldi me?* ‘has he come?’ *qaradı ma?* ‘has he looked?’, *for geldi mi?* and *bakti mi?*, respectively, in Turkish (Oğuz).

verb. Examples of this are **bar-ġil** and **ʾiṣit-kił**.<sup>58</sup> (*wa-fiʿl al-ʾamr ʾin kāna ʾawwaluhu maḍmūman fa-mā qabla ʾāhirihi maḍmūm ʾillā ʾin wuġidat fi l-fiʿl fatha, miṭāl dālīka ʾurġul kul kul kustar kił ʾurġul. wa-ʾin kānat maftūhan ʾaw maksūran fa-mā qabla ʾāhirihi maksūr ʾillā ʾin wuġidat fi l-fiʿl damma miṭāl dālīka bargil, ʾiṣitkił, ʾIdrāk 120,19ff; cf. also Qawānīn 8,14; further descriptions in ʾIdrāk 106,19.*)

Here ʾAbū Ḥayyān gives a complicated set of rules, which are schematised as follows:<sup>59</sup>

$C_1 u C_2$  or  $C_1 a C_2 u (C_3)$  or  $C_1 i C_2 u (C_3)$  → **ġul/kuł**  
 $C_1 u C_2 a (C_3)$  or  $C_1 a (C_2)$  or  $C_1 i (C_2)$  → **ġil/kił**

In ʾAbū Ḥayyān's reasoning not only the quality of vowel in the final syllable of the verb plays a role, but also that of other vowels in the verb, which, one is lead to think, complicates the rules more than necessary.

### 3.2.2.3 The interrogative particle mI

The third fourfold suffix I discuss here is the interrogative particle mI. In the sources the complete vowel harmony is not always reflected in orthography, viz., **sanġar kal-di-mū** Sanġar come-3sg/PAST-INT 'Has Sanġar come?' (*ʾIdrāk 131,8*). Nevertheless, in one instance vowel harmony is referred to as "The base form is **u**, whereas **i** is [used] for vowel harmony." (*wa-l-ʾaṣl aḍ-ḍamm wa-l-kasr li-l-ʾitbāʿ*, *ʾIdrāk 131,8*; also 155,4; and MG 62<sup>top</sup>.) This statement serves for the reconstruction of an alternative, viz., \***sanġar kal-di-mī**.

Apparently, the form with **u** is regarded as basic, and, therefore, the alternation with **i** is considered a prosodic phenomenon.

### 3.2.3 Terms for indicating vowel harmony

As briefly pointed out in the previous section, the term ʾAbū Ḥayyān applies is *ʾitbāʿ*, 'making follow' (also MG 60<sup>bm</sup>; 50<sup>bm</sup>), which is also used in this sense in Arabic phonology (cf. 1.5.2).<sup>60</sup> The term *ʾitbāʿ* implies that the optional vowel **i** has no morphological significance, it merely follows as a replacement of a basic vowel. ʾAbū Ḥayyān uses in addition a second term, i.e. *tawālī l-ḥarakāt* 'sequence of the vowels'.

<sup>58</sup> The **k** in **kił** is explicitly described as 'Bedouin *k*' (*kāf badawiyya*, *ʾIdrāk 120,17*).

<sup>59</sup> According to *Qawānīn* the form of the causative suffix is also determined by the preceding vowel: "The verb contains no **u**, therefore as a rule the **d** has an **i**" (*wa-laysa fihi damma fa-li-dālīka buniyat ad-dāl ʾalā l-kasr*, *Qawānīn 68,13*; also 67,14).

<sup>60</sup> *ʾitbāʿ* is further used to indicate a jingle, repetition of a word with change of the first consonant, like *kaṭīr baṭīr*. Kaṣġarī uses *ʾitbāʿ* (or *tabʿ*) also in this sense, e.g. *āwürdi tāwürdi* 'he turned and turned' (*Diwān 310,2*; also 217,12ff), thus using a meaningless word as a complement (cf. Dankoff and Kelly 1982:52).

He does so when he describes the insertion of a vowel, i.e. **a**, in the Oğuz verb **kal-mi-yā-san** ‘you will not come’, because of “the sequence of the vowels” (*li-tawāli l-ḥarakāt*, *ʿIdrāk* 130,21). In *Qawānīn* a third term is used, i.e. *murāʿā* ‘agreement’, to account for the **u** in the suffix **luq** in **yuq-luq** ‘poverty’, e.g., “the **l** is here vocalised with an **u** for the agreement.” (*wa-l-lām maḍmūma hunā li-murāʿā ḍamma al-yāʿ*, *Qawānīn* 23,13). *Qawānīn* does not specify what type of agreement is exactly meant.<sup>61</sup>

### 3.2.4 Summary

In this section I have deliberately selected three suffixes in which the sources for different reasons do not, or cannot reflect the twofold vowel harmony. It appears that the twofold vowel harmony, which is covered by the distinction back - front, is only signalled by the sources when it can be related to a change in the consonantal form of the suffix. The fourfold, or complete vowel harmony, which includes labial harmony, is only occasionally referred to as a prosodic feature, and appears not to be considered a structural phenomenon.

### 3.3 *The distribution of palatal and velar suffixes as a phenomenon*

The preceding sections have shown how the sources distinguish between front words on the one hand, and back words on the other, and that they only occasionally indicate vowel harmony. Words that are not evidently either front or back are labelled in order to make a classification possible. The question arises as to why exactly the grammarians found it important to distinguish between these two types of words, and how do they relate the type of suffix to a given stem.

In my opinion, this basic division between front and back words is related to the interest the grammarians had in indicating certain principles to which they could relate the distribution of the various forms, rather than a genuine wish of describing the phonetic features of Turkic. This lack of interest in describing the quality of all vowels throughout has been evidenced in the preceding section with a suffix in which—in their view—morphological criteria do not play a role; i.e.

<sup>61</sup> Further, the short vowel preceding each one of the glides, **u** with **w**, i.e. /uw/, **a** with **ʿalif**, i.e. /aʿ/ and **i** with **y**, i.e. /iy/, is put because of *munāsaba* a ‘relationship’ with the glide in question; it is a *ḥaraka tuḡānisuhā* ‘a vowel that is of the same kind’ (*Qawānīn* 44,8; 44,4). In the latter case, the vowels are said to be homogenic with the glides. In this sense these terms cannot be interpreted as expressing vowel harmony. It is used in the same sense in *Irtiḡāf* I 130,14f.

when the only difference is the pronunciation of the vowels (or a perceived velarisation of the consonants), rather than a change of consonants. These changes are considered mere prosodic features which do not affect any consonants. In this subsection I intend to show to which principles the grammarians relate the distribution of front and back suffixes. The approaches in *Dīwān* and *Tarğumān* are very similar, whereas it appears that Ibn al-Muhannā did not regard it as a coherent feature at all.

### 3.3.1 Palatal and velar suffixes

The basic division between palatal and velar suffixes to account for the twofold forms of some suffixes as a prosodic feature, which can relatively easily be reflected in Arabic script. Palatal words, or words marked as ‘palatalised’, typically have suffixes with palatal consonants, e.g., **kant-kā** [kentke] ‘to the town’, and of course, velar or velarised words get velar suffixes, and **’arṣlan-ġā** [arṣlaŋa] ‘to the lion’. This principle is reflected in *Qawānīn*, *’Idrāk* and the Margin Grammar in quite similar terms. The following quotation is from the Margin Grammar:

“To the particles of the genitive belongs the word **ġā**, which has the meaning of ‘towards’ that governs the genitive, and whose form varies according to [the principles of] palatalisation and velarisation in the nouns, because the noun affects it.” (*wa-min ḥurūf al-ġarr lafza ġā bi-ma’na ’ilā l-ġarra wa-taḥtalifu šūratuhā ’alā ḥasab at-tarqīq wa-t-tafḥīm fī l-’asmā’ li-’anna l-ism ya’malu fihā*<sup>62</sup>... MG 58 top; also MG 36<sup>v</sup> in text; 45<sup>v</sup>rt/bm.)

In other words, suffixes differ in form depending on whether they are attached to a velar(ised) word, or to a palatal(ised) word. With each discussion of a suffix, its forms both for velar and palatal words are given.

As a general reference, *’Idrāk*, too, uses the terms ‘the velarised word’ (*al-kalīma al-mufaḥḥama*) and ‘the palatalised word’ (*al-kalīma al-muraqqaqa*), respectively. For example, **kā** is suffixed instead of **ġā**, when a consonant that is pronounced palatalised (*ḥarf tarqīq*) precedes (*’Idrāk* 139,9). These terms stand for all types of velarity and palatality, regardless of whether the consonant is velar, such as **q** and **ġ**, or velarised, such as **ḷ** (105,6). The form of the infinitive suffix varies according to this principle too:

<sup>62</sup> In syntax *’amila fī* is the usual term to express governance. See further discussion in Chapters Four, Five and Six.

“The marker [for the verbal noun] is the attachment of **maq** to the imperative form of the verb if the preceding consonant is velarised, and **mak** if the preceding consonant is palatalised.” (‘*alāmatuhu ʿan yalḥaqa ʿāhir fi ʿl al-ʿamr maq ʿin kāna qablahu mufahḥam, wa-mak ʿin kāna qablahu muraqqaq, ʿIdrāk 108,13.*)

These statements agree with the distributional rules for the suffix that indicates the noun of place (**ḡak** or **ḡaq**) as explained in *Qawānīn*:

“The marker of the noun of place consists of adding the word **ḡak** or **ḡaq** to the stem of [a word]. The [word with] **q** is attached to words that contains velarised consonants, and the [form with] **k** to other [words] than these.” (*ism al-makān ʿalāmatuhu ʿan tuzīd ʿalā l-ʿuss<sup>63</sup> lafza ḡak ʿaw ḡaq fa-l-qāf li-mā fihi al-ḥurūf al-mufahḥama wa-l-kāf li-mā siwā dālika, Qawānīn 25,11.*)

In *Qawānīn*, the category of velarised consonants (*ḥurūf mufahḥama*) is divided into three groups, viz., “a consonant of elevation, a velarised consonant, or a consonant that is flavoured” (*ḥarf isti ʿlā ʿaw ḥarf mufahḥam ʿaw mašmūm*,<sup>64</sup> *Qawānīn 22,13*). The latter term refers to **z**, the velarised **z** (see discussion in 3.1.2.2). The verbs that contains any of these consonants get a velar suffix, all other verbs take a palatal one.

The respective authors of *Qawānīn* and the Margin Grammar refer to the distribution of these suffixes with the term “position” (*mawḍiʿ*), viz., “each of them on its position” (*kull fi mawḍiʿ ihā*, 21,18; 41,21; 42,14; 50,19; also MG 61<sup>bm</sup>; 59<sup>rt</sup>; 58<sup>lt</sup>). Palatal suffixes, for example, occur in the “position of palatalisation” (*mawḍiʿ at-tarqīq*, MG 45<sup>lt</sup>).

### 3.3.2 *Dīwān*

Kāšgari’s principles for the attachment of the velar and palatal variants of suffixes are based on similar principles as those mentioned in the previous section, viz.,

“The verbal noun is [construed] in one way in all verbs. To the [last] consonant of the [verbal] stem an **m**, an *ʿalif* and a **q** [i.e. *māq*] are added in the case of words that contain **q** or **ḡ**, or which have *ʿiṣbā* in pronunciation. The **k** [is used] instead of **q** in words [i.e. *māk*] which contain **k** or which are palatal or which have *ʿimāla* to the three vowels.” (*wa-l-mašdar yakūn ʿalā minwāl wāḥid fi ḡamī ʿ al-ʿaf ʿāl wa-huwa ʿan yuzād ʿalā*

<sup>63</sup> The expression *ʿuss* is quite unusual; it must be understood as ‘stem’, unlike the Arabic term *ʿaṣl* which stands for the abstract notion ‘underlying form’.

<sup>64</sup> Note that *mašmūm* is the participle passive of *šamma* ‘he flavoured’, the first form of the verb, whereas *ʿiṣmām* ‘make flavour’ represents the fourth form, a causative.

*ḥarf al-ʾaṣl al-mīm wa-l-ʾalif wa-l-qāf fi l-kalima allatī fihā qāf ʾaw ḡayn ʾaw kānat mušbaʿa fi l-laḫz. wa-l-kāf makān al-qāf fi l-kalima allatī fihā kāf ʾaw kānat rakika ʾaw mumāla ʾilā l-ḥarakāt at-ṭalāṭa, Dīwān 284,10ff.)*

The most basic note Kāšġarī makes is that the velarised form of the suffix is used when the word contains a **q** (and/or **ġ**), and the palatalised form when it has a **k**. By extension, velarised and palatalised words are called *al-kalima al-qāfiyya* (e.g., 482,6)—also occasionally *al-kalima al-ḡayniyya*—and *al-kāfiyya* (303,17), respectively.<sup>65</sup>

These terms are often used to indicate the opposition between velar and palatal. A good example is the pausal suffix **GĪL** (**ġil**~**qil**/**kil**) which is added to the imperative of the second person singular, viz.,

“[Most Turks] use... the **ġ** with the **l** [i.e. **ġil**] in the *qāf*-word or the velarised word, and the **q** with the **l** [i.e. **qil**] in the word whose last consonant is a **ġ**; and [they use] the **k** with the **l** [i.e. **kil**] in the *kāf*-word or the palatalised or the light word.” (*ʾakṭar at-turk taḍkuru... al-ḡayn wa-l-lām fi l-kalima al-qāfiyya ʾaw al-mušbaʿa wa-l-qāf wa-l-lām fi l-kalima allatī fi ʾāḥirihā ḡayn; wa-l-kāf maʿa l-lām fi l-kalima al-kāfiyya ʾaw al-mumāla ʾaw ar-rakika, Dīwān 288,2ff.*)

The expressions *al-kalima al-qāfiyya* and *al-kalima al-kāfiyya* are most likely related to the infinitive suffixes that are attached to the verbal stem; back words get the infinitive suffix **māq**, front words **māk**. In Arabic poetry the poem, especially the *qaṣīda*, is often named after the consonant that causes end rhyme, called *ar-rawī*. A poem ending in *l*, then, is called *lāmiyya*, or *tāʾiyya* when it ends in *t*. Kāšġarī names the back and front verbs after the last, i.e. rhyming, consonant of the infinitive suffix that is attached, rather than the stem itself (cf. 3.1.5).

Still, the distribution of the suffixes is, to my opinion, not satisfactorily accounted for in *Dīwān*. According to Kāšġarī, the suffix **ġil** is attached to velarised verbs in general, and **qil** to words that end in **ġ**. This last statement does not agree with the principles of consonant assimilation, according to which the voiced final **-ġ** should be followed by **ġil** (see 3.6.3).

### 3.3.3 *Tarġumān*

Much like Kāšġarī, *Tarġumān* bases the distribution of verbal suffixes on his own extensive list of verbal stems (33,8 - 44,10). In this list, he assigns each verbal stem one out of three forms of the pausality suffix

<sup>65</sup> The terms *kāfiyya*, *rakika* and *mumāla* recur in MG (40<sup>o</sup>rt) which is a literal copy of *Dīwān* (538,5).



Gil (i.e. **ḡil**, **qil** and **kil**). The form of other verbal suffixes also depends on the form of the suffix that is attached to the stem in the list. The infinitive suffix **maḡ**, for example, occurs with verbal stems that are assigned **ḡil**:

“You consider any imperative and if the [assigned] pausal form is like **ḡil**, you omit the word **ḡil**, then you attach the form **maḡ** to what precedes it [i.e. the stem], and thus [the combination of the stem and suffix] becomes a verbal noun.” (*fa-<sup>3</sup>innaka ta<sup>3</sup>tabir <sup>3</sup>ayy <sup>3</sup>amr šī<sup>3</sup>ta fa-<sup>3</sup>in kānat lafza al-istirāḥa min dawāt ḡil fa-tusqītu lafza ḡil wa-tulḥiqu bi-mā taqaddamahā min al-<sup>3</sup>amr lafza maḡ fa-yakūn maṣḍaran*, *Tarḡumān* 45,2ff; similar statement on 49,1.)<sup>66</sup>

Similarly, if the pausal suffix is **qil**, the infinitive is **maq**, and if it is **kil**, **mak** is attached. Needless to say that **maḡ** is, in fact, an allophonical variant of **maq**, and it is not likely to be conditioned in the same way as Gil. In fact, **-ḡ** is very unlikely to be conditioned at all, but rather an allophone of **q** which is used throughout by certain speakers of Turkic. Indeed, the attachment of all verbal suffixes is described in terms of the data in the same list. In this way, the choice of a given suffix is not to be inferred from the features of the verbal stem itself, but depends on a prescription by the author of *Tarḡumān*.

### 3.3.4 *Ḥilya*

In *Ḥilya*, Ibn al-Muhannā links the distribution of the velar and palatal suffixes to the first consonant of the word. With regard to the ending of the first person plural in **-diq** he states:

“You add a **q** to the base of the verb [i.e. stem+**di**], and vocalise the consonant that precedes it [i.e. **d/t**, marker of the past tense] with **i**, if the first consonant of the verb is **q** [i.e. **diq/tiq**], or else **k** if the first consonant of the verb is **k** [i.e. **dik/tik**].” (*‘annaka tuzīd ba<sup>3</sup>da <sup>3</sup>aṣl al-fi<sup>3</sup>l qāfan mak-sūran mā qablahā <sup>3</sup>in kāna <sup>3</sup>awwal ḥurūf al-fi<sup>3</sup>l qāfan, <sup>3</sup>aw kāfan <sup>3</sup>in kāna <sup>3</sup>awwal ḥurūf al-fi<sup>3</sup>l kāfan*, *Ḥilya* 81,9f.)

Ibn al-Muhannā attaches a number of examples to this statement, one of which, as a matter of fact, has neither **q-** nor **k-** in its stem, e.g.,

<sup>66</sup> A similar reference to the pausality suffix is also found in MG 36<sup>l</sup>t/bm, and on MG 35<sup>l</sup>t with regard to the attachment of **qān**, **ḡān** and **kān** for the active participle. These fragments no doubt derive from another copy of *Tarḡumān*. I have not been able to verify whether the word list of the Margin Grammar (2<sup>r</sup>-32<sup>r</sup>) is set up in the same way, because it is extremely difficult to read.

**qāz-diq** ‘we dug’; **ʾin-diq**<sup>67</sup> ‘we descended’; **kas-tik** ‘we cut’. Some of these verbs share the same back marker for the second person plural, i.e., **-nġiz** (in which **nġ** is to be read as a velarised **ŋ**) e.g., **qāz-dī-nġ-iz** [qazdīŋiz] ‘you dug’, and, surprisingly, **kas-ti-nġ-iz** [kestiŋiz] ‘you cut’.

In another instance (101,9) he uses the same criterion, i.e. **q** or **ġ** for words or verbs whose first consonant is a **q**, and **k** for words or verbs beginning with **k**. In his listings, however, he gives many instances of words that do not match this criterion. One is inclined to conclude that this should not be taken too literally, in the sense that it also includes words which have a **k** or **q** at another place, or, perhaps, share other features with **q** and **k**. It appears that the mention of **q** and **k** is to be interpreted more generally as reference to front and back words, because a word containing **q** can only be back, and a word with **k** is per se front, much like the reference to **q** and **k** is used in *Dīwān* (see 3.3.2).

In general, though, Ibn al-Muhannā does not regard the distribution of the respective suffixes as a coherent phenomenon that is subject to specific rules. For example, the suffix for the active participle (*ism al-fāʿil*), Ibn al-Muhannā writes, is **ġān** which can be substituted by **kān**,<sup>68</sup> because of the closeness of their place of articulation (*li-taqārub maḥraġayhimā*, *Ḥilya* 116,17ff; similar statement on 127,3). The closeness of the place of articulation regards **ġ** vs. **k** rather than either of them on the one hand, and the final consonant of the verbal stem on the other, as one would expect. Ibn al-Muhannā himself too seems to have been puzzled by the distribution of the suffixes. He quotes one of his sources who had asked the same question of his informants:

“The compiler of *Tuḥfa al-Malik* said: ‘I asked the Turkic scholars why they in some instances use a **ġ** and an **l** [i.e. **ġil**] after the imperative form, and **k** and **l** [i.e. **kil**] in others, e.g., **ʾal-ġil** ‘take’ **bīr kil** ‘give’... and [why] they do not use a **k** on the place of the **ġ** nor a **ġ** on the place of a **k**... but they did not answer.” (*qāla šāḥib kitāb tuḥfa al-malik saʾaltu ʿulamāʾ at-turk lima ḥaṣṣū mawḍiʿan min al-ʾamr bi-l-ġayn wa-l-lām fi ʾāḥirihi wa-mawḍiʿan bi-l-kāf wa-l-lām miṭl ḥud ʾal-ġil ʾa ʿi bīr kil... wa-lā yasta ʿmilūna mawḍiʿ al-ġayn kāfan wa-lā mawḍiʿ al-kāf ġaynan... fa-lam yuġībū bi-šayʾ*, *Ḥilya* 193,3ff.)

<sup>67</sup> In both instances **q** is marked with a small **k** on top of it, probably indicating a voiced **g**. According to Ibn al-Muhannā’s description of this verb, it can only be interpreted as ‘back’. In modern languages, however, the verb **ʾin-** ‘to descend’ is usually ‘front’.

<sup>68</sup> Rifʿat emends *mutaqqala* ‘heavy’ to *muṭaffā*.

The apparent misunderstanding and mistaken application of the principles of the distribution of the suffixes, raises the question whether Ibn al-Muhannā indeed was a native speaker of Turkic.

### 3.3.5 Summary

The conclusion of this exposé is that all sources except *Hilya* regard the distribution of the twofold forms of a suffix as a phenomenon which is subject to certain rules. In most cases these rules are related to the principles of velarisation and palatalisation, and in this sense one could say that they are conditioned by palatality or velarity of the stem. In two instances, *Tarğumān* and *Dīwān*, the reader is referred to intuitive, or non-argued knowledge of the author which, however, results in a similar distribution. The sources, as a rule, describe an incomplete distribution of three suffixes rather than four, and it seems that their interest concerned in the first place with describing instances of a consonantal change. More about this will be said below in section 3.6.3

## 3.4 *Phonetic descriptions of rounded vowels*

In the preceding sections it has been shown that the grammarians had instruments to describe velarisation and palatalisation. They use these tools for determining which type of suffix a given stem takes. With the same instruments they can describe six of the eight Turkic vowels. Nevertheless, they scarcely dedicate any words to the description of rounded vowels. Therefore, in front words it is often difficult to decide whether the grapheme **u** corresponds to [ü] or [ö], whereas in back words the choice between [u] and [o] is equally complex. However, the Arab grammarians did perceive these distinctions and occasionally indicated them in orthography.

### 3.4.1 [o]

In some instances the velar consonants alone apparently are not sufficient enough to indicate the sound of the vowel. In those cases the label ‘velarised’ is applied. With words containing **u**, the label ‘velarised’, then, indicates a pronunciation as [o], viz.,

**ṭuy-dī** [toy] ‘he was saturated’ (*ʿIḍrāk* 67; marker above the word; MS 21<sup>r</sup>24), “with **ṭ** inclining to **u**, with velarisation” (*mumāla aṭ-ṭā*<sup>3</sup> *ʿilā ḍamm ma*<sup>5</sup> *t-taḥḥīm*, MG 42<sup>r</sup>lt; cf. *mumāla* in *Dīwān* 3.1.5.3 and **ṭuysu** palatalisation marker in 3.1.6.1)

**qūz** [qoz] ‘walnut’ (with marker above **q**) (*ʿIḍrāk* 71)

ʾūṭ /ʾuwṭ/ [ot] ‘fire’ (ʾIḍrāk 15; MS 4<sup>r</sup>14, marker up between w and ṭ).

The same can especially be illustrated with words containing l and r from all relevant sources. For example, the grapheme **tūl** /tuwl/ may have different phonetic realisations, depending on the label. When labelled for velarisation, an interpretation as [tol] ‘widow’ is possible, although not attested in modern Turkic languages (*Dīwān* 501,11; Dankoff and Kelly 1984:216 “**tūl**”). When marked for palatalisation (here ʾimāla) the pronunciation must be [töl] ‘litter’ (*Dīwān* 501,13; Dankoff and Kelly 1982:58/1984:216).

Marked for velarisation are, e.g.,

ʾul [ol] ‘he’ (ʾIḍrāk 20; MS 5<sup>v</sup>3, marker above l)

būl [bol] ‘much’ (ʾIḍrāk 36; MS 10<sup>v</sup>15; marker above /w/)

yul [yol] ‘road’ (ʾIḍrāk 97; MS 31<sup>v</sup>1, marker above the word).

The following minimal pairs of [u - o] and [ü - ö] occur:

Unlabelled	Velarised
<b>qul</b> [qul] ‘slave’ (ʾIḍrāk 73)	[qol] ‘arm’ (ʾIḍrāk 73; <i>Tarğ.</i> 19) <sup>⊗</sup>
<b>turum</b> [turum] ‘act of standing’ ( <i>Dīwān</i> 200,1).	[torum] ‘a camel colt’ (200,2)
Unlabelled	Unlabelled
ʾulu- [ulu] ‘to howl’ (said of dogs) (ʾIḍrāk 20)	[olu]? ‘to grow’ (ʾIḍrāk 20; MS 5 <sup>v</sup> 7 (but see related word ʾulū [ulu] ‘great’ (MS 5 <sup>v</sup> 7; marker above l).
Velarised	Palatalised
ʾūr ʾat [or] ‘(a horse) between sorrel and bay’ (34,12)	[ör] ‘the waist’ (of a cloak) (34,13)
Unlabelled	Palatalised
<b>tur</b> [tor] ‘snare or net to hunt birds or fish’ ( <i>Dīwān</i> 495,13).	[tör] ‘front side of the house’ (495,12)

### 3.4.2 [ö]

The label *mufahḥam* is sometimes applied in instances in which a back pronunciation cannot be intended, because the marked consonant or

<sup>⊗</sup> In ʾIḍrāk, the label ‘velarised’ is also applied to a ʾaq [aq] ‘white’ (*al-ʾabyaḍ*, ʾIḍrāk 17; MS 4<sup>v</sup>17; with marker above q; EDT 75 “**ak**”), which is difficult to account for.

other consonants in the word can only be palatal, especially **k**. There are two explicit examples of this in *ʿIdrāk*, viz.,

**tušak** [töšek] ‘carpet’ (velarised, marker above **t**; *ʿIdrāk* 39; MS 11<sup>v</sup>18)

**kun** [kön] ‘hide’ (*ʿIdrāk* İÜ 39<sup>v</sup>8)

**ʿulkan** [öl-gen] ‘name of the absent’, i.e. ‘deceased’ (*ism al-ğāʿib*, *Hilya* 74,13ff).

Other examples of this type must also be understood in this sense, although the marker *mufahham* is applied to a neutral consonant (but see 3.4.3 for a discussion of **z**), viz.,

**düz-** [dö:z] ‘to endure’ (*ʿIdrāk* 48; MS 14<sup>v</sup>19; marker above /w/)

**suz** [söz] ‘speech’ (*ʿIdrāk* 52; MS 16<sup>r</sup>21; marker above word)

**suz-la-** [sözle] ‘to speak’ (*ʿIdrāk* 52; MS 16<sup>r</sup>21; marker above /s/)

**ʿup** [öp] ‘to kiss’ (*ʿIdrāk* 7; MS 2<sup>r</sup>19, velarised and voiceless).

In view of evidence from modern Turkic languages, in these instances the label is unlikely to refer to back vowels, and [ö] then is the only reasonable alternative.

Because the default pronunciation of **u** preceding **l** is [u], rather than [ü], the word must be labelled if a front pronunciation is intended, viz.,

**ʿul-** [öl] ‘to die’ (*ʿIdrāk* 20; MS 5<sup>v</sup>7, marker above /l/)

**ʿula-** [üle] ‘to divide’ (*ʿIdrāk* 20; MS 5<sup>v</sup>1, markers above /l/ and /d/).

The label ‘palatalised’ (*muraqqaq*) is applied in two instances to words containing **u** that have a default front pronunciation. First, **suz-** ‘to filter’ which is simply pronounced as [süz] (*ʿIdrāk* 52). Here, the marker may be put because of the default back pronunciation of **u** and **a** when they occur close to **z** (see discussion in section 3.4.2). For the second word, **ʿub**, there are indications from modern Turkic languages (for which cf. EDT 4) that it must be read [ö], viz., [öp] ‘swallow, gulp down’ (*ʿIdrāk* 7; MS 2<sup>r</sup>19, badly legible marker for palatality above *hamza*).

### 3.4.3 Excursus: confusing labels—the case of **z**

The sources sometimes assign contradictory labels. In one source a given grapheme word is marked palatalised or velarised, whereas it has no, or an contradictory label, in another. In Section 3.1.6 I show that **a** and **u** have a default back pronunciation when they occur close to **l** and **r**. There are some indications that the same applies to some extent to words containing **z** (see also [süz-], discussed in 3.4.3.) A case in point would be the grapheme بوز (**büz** /buwz/), which in *ʿIdrāk* to ex-

presses three different meanings, i.e. ‘ice’, ‘grey’ and ‘cloth’, depending on a front or back pronunciation, and the quality of the vowel.<sup>70</sup>

### 1 ‘Ice’

In *ʿIdrāk būz* (with palatalised **b**; MS 9<sup>r</sup>2) means ‘ice’ (*ʿIdrāk* 30), and according to the label, the pronunciation would have to be something like [büz]. However, [buz] is a very common word in several Turkic languages, and never found pronounced with front vowels (EDT 389 too, could not interpret the label).

Here, we might interpret the default interpretation of u before z as [o] or, in any case, as [u], and ʿAbū Ḥayyān may have used the label ‘palatalised’ to express the opposition with other instances in which he intends a different phonetical realisation (discussed below). In *Dīwān*, Kāšgari labels **būz** ‘ice’ as “with velarisation” (*bi-ʿiṣbāʿ*, *Dīwān* 496,8), which would point to a default front pronunciation.

### 2 ‘Grey’

Another meaning of the same grapheme is ‘grey’ (said of a horse) (*Dīwān* 496,5). In *Dīwān* the word remains unmarked for this meaning, whereas in *ʿIdrāk* it is labeled velarised (*ʿIdrāk* 30; MS 9<sup>r</sup>2). A third opinion complicates the matter even further; in *Qawānīn* both words have merged in one single, unmarked pronunciation, i.e., “‘cold’, and ‘white’ for cattle, mules and donkeys” (*Qawānīn*, 58,5). Based on ʿAbū Ḥayyān’s system of labelling I would suggest here [boz], which is confirmed by data from modern Turkic languages.

### 3 ‘Cotton cloth’

There is a third word which is written with the same grapheme, i.e. **būz** ‘cloth’ [böz]. In *Dīwān* it is marked for palatalisation (*Dīwān* 496,7), while it does not occur in *Idrāk* and *Qawānīn*.

#### 3.4.3.1 Summary of z

Ideally, of course, the labels in all sources should indicate the same or a similar phonetic interpretation for one word. I admit, however, that this point of view entails the danger of assigning a known or desired phonetic interpretation to a language in which the pronunciation of the word in question is doubtful. Nevertheless, it seems that the in *ʿIdrāk* the labels are used merely for expressing the opposition between the two words. In *Dīwān* on the other hand they indicate a default

<sup>70</sup> Reference to the meaning ‘to destroy’ is of no help in this discussion since it is realised as [boz-] in Oğuz languages, and as [buz-] in others (EDT 388-9).

back interpretation. The confusion evolving from these data does not permit drawing more precise conclusions as to the application of the labels applied to this grapheme. There are supporting (but also some contradicting) examples in *Dīwān* (discussed in Dankoff and Kelly 1982:56). All these words recur on different places in *Ḥilya* where they remain unlabelled (184,5, 168,15, 167,9).

The following scheme summarises the various opinions:

/buwz/	<i>Dīwān</i>	<i>ʿIḍrāk</i>	<i>Qawānīn</i>	<i>Ḥilya</i>	Intended phonetic value
1 'ice'	'velarised'	'palatalised'	unlabelled	unlabelled	[buz]
2 'grey'	unlabelled	'velarised'	unlabelled	unlabelled	[boz]
3 'cloth'	'palatalised'	—	—	unlabelled	[böz]

### 3.4.4 Ibn al-Muhannā on rounded vowels

Ibn al-Muhannā is the only source to compare and discuss in detail five different pronunciations of one grapheme, أُوت (ʿūt /ʔuw/) which he seems to have chosen as a specific illustrative example of several possible meanings depending on the pronunciations.<sup>71</sup> In this section I give Ibn al-Muhannā's descriptions which are followed by a phonetic interpretation and argumentation. As a point of departure I suggest interpreting the grapheme as neutral or back, rather than front.

#### 1 'to win in a game'

"If you pronounce it as it is, its meaning is the imperative for the singular of winning in a game, like you say 'beat him'." (*ʿin talaffazta bihā ʿalā ʿiḥlāqihā kāna maʿnāhā al-ʿamr li-l-wāḥid al-ḥādīr bi-l-ḡalab fi l-qumār kamā taqūlu iqmarhu.*)

This description speaks for itself: the vowel, reflected by /uw/, is to be pronounced 'as it is', or, in other words, as it would be in Arabic. This implies a lengthened, neutral vowel, hence [u:t] (EDT 38 "ut-").

#### 2 'grass'

"Without clear pronunciation of the w, its meaning is the singular of 'grass' or 'medicine' or *qayd*." (*wa-ʿin lam tatalaffaz bi-l-wāw talaffuzan bayyanan kāna maʿnāhā mufrada al-ḥašīš ʿaw ad-dawā ʿaw al-qayd.*)

<sup>71</sup> He further refers to one of his sources, *Kitāb nādīr ad-dahr ʿalā luḡa mulk al-ʿaṣr*, in which the author discusses all instances of homophonous words (*wa-qad ḍakara ṣāḥib kitāb nādīr ad-dahr ʿalā luḡa mulk al-ʿaṣr ṣayʿan tāmmān min iḥtilāf al-maʿānī wa-ttifāq al-lafz*, *Ḥilya* 78,13).

Here the pronunciation of /<sup>ʔ</sup>uw/ is not the regular one; /w/ must not be pronounced very clearly, which most likely implies that it does not indicate lengthening. Perhaps /w/ merely serves as an orthographical device to indicate velarisation, to which Ibn al-Muhannā nevertheless assigns a phonetic value. Such would not be a unique case, since in Arabic theory *ʔalif* too is associated with a phonetic value, even though it is a mere orthographic device for indicating lengthening (cf. 1.1 above). The result, then, would be an interpretation as [ot] (cf. EDT 34).

### 3 'hole'

"If the *hamza* is joined to the *w* with a kind of velarisation, then its meaning is 'the piercing of an ear' or 'the eye of a needle' or the like." (*wa-in wuṣilat al-hamza ma<sup>ʕa</sup> l-wāw bi-naw<sup>ʕin</sup> min tafḥīm kāna ma<sup>ʕ</sup>nāhā taqb al-<sup>ʔ</sup>uḍun <sup>ʔ</sup>aw taqb al-<sup>ʔ</sup>ibra wa-šibhuhu.*)

In this case, it seems, /w/ is pronounced long, since the *hamza* is joined to it, while being velarised (*tafḥīm*) at the same time. However, the velarisation is not regular but of 'a certain kind' (*naw<sup>ʕ</sup> min*), or perhaps it is just 'a bit of velarisation'. Therefore, I propose to interpret this as [ö:t].

There are two arguments against the reading [ü:t] as proposed in EDT (36), and an additional one that supports the interpretation I suggest here. Firstly, the use of the word *tafḥīm* excludes a full palatalisation (although, admittedly, it may stand for a general 'emphasis'). The second argument is that if it were [ü:t], the description could have been much simpler. The argument in favor of my suggestion is that for at least one language [öt] is attested for this meaning (cf. EDT 36).

### 4 'to burn the skin of an animal'

"If you do not pronounce *w* and join the *hamza* to the *t* and slightly lengthen [the *u* ?], then its meaning is the imperative for the second person singular 'to burn animals'." (*wa-<sup>ʔ</sup>in lam tatalaffaz bi-l-wāw wa-wuṣilat al-hamza bi-t-tā<sup>ʔ</sup> bi-madd ḥafif kāna ma<sup>ʕ</sup>nāhā al-<sup>ʔ</sup>amr li-l-wāhid al-ḥādir bi-<sup>ʔ</sup>iḥrāq al-ḡanam.*)

In other words, the /w/ does not stand for a long vowel, for the vowel between *hamza* and *t* is only somewhat lengthened (*madd ḥafif*).<sup>72</sup>

<sup>72</sup> In Arabic phonology the term *waṣl* is associated with the *hamza al-waṣl*, the prothetic *hamza* in, for example, the definite article /<sup>ʔ</sup>al/. The *hamza* and the vowel *a* disappear, or merge, when /<sup>ʔ</sup>al/ is preceded by a word that ends in a vowel: /<sup>ʔ</sup>al-kita<sup>ʔ</sup>bu/ - *wa-l-kitābu*. When /<sup>ʔ</sup>al/ is not preceded by a vowel, the *hamza* remains.



Here, it seems, /w/ again indicates velarisation, and I would interpret this as referring to a back vowel, probably [ot] (or [o:t]).

In spite of this description, the original verb is most likely [üt], although it is often interpreted as [ot] because of a false association with [o:t] 'fire'. This false association is, it seems, also made by Ibn al-Muhannā (cf. EDT 40).

### 5 'gall'

"If the *u* of the *hamza* gets a medium inclination towards *i*, then its meaning is 'gall'." (*'in 'amalta ḍamma al-hamza 'ilā l-kasra 'imāla mutawaṣṣita kāna ma'nāhā al-marāra.*)

Assuming that a 'full inclination' would result in [ü:t], 'a medium inclination' is probably best reflected with [ö]. Furthermore, Ibn al-Muhannā does not mention lengthening, so I tend to interpret this as [öt]. (EDT 35; see for *'imāla* applied to *u* above section 1.4.2).

In summary, the interpretations which I have suggested in the previous comments are the following: 1 'to win' [u:t], 2 'grass' [ot], 3 'hole' [ö:t], 4 'to burn' [ot], 5 'gall' [öt]. Thus Ibn al-Muhannā's descriptions show that it is possible to describe quite detailedly the phonetic qualities of vowels with the use of Arabic phonetic terminology.<sup>73</sup> (In *Dīwān* too rounded vowels are described, for which I refer to Dankoff and Kelly 1982:56).

#### 3.4.5 Summary

This subsection has dealt with two issues. The first is the description of rounded vowels. In this respect. The second issue is the question whether the rules for *l* and *r* also apply to *z*; I think the supporting evidence is not entirely convincing as yet.

In regard to the first point, I would like to make the following comments. In the first place it is important to note that the Arabic authors indeed perceived—to a certain extent—differences between the rounded vowels. Second, it would have been strange indeed if they had had same concept of rounded vowels as ours. Considering their concepts of vowels and consonants, they are not likely to have thought in terms of oppositional pairs, and high versus low vowels. Instead, they

<sup>73</sup> The various meanings of this grapheme are also discussed by Nawā'ī in *Muḥākama al-Luḡatayni* (cf. Devereux 1964:283). From Devereux's translation, however, it is difficult to get a clear view regarding Nawā'ī's terminology used to describe [ü] and [ö].

applied their concepts of terms of velarisation and palatalisation of consonants in these cases too. The data indicate that they posit the rounded vowels on a scale of velarisation and palatalisation, which runs from [o] to [ü].<sup>74</sup> The appropriate vowel is produced when a certain measure of palatalisation or velarisation is assigned to the consonant.<sup>75</sup> The continuum, in its ideal shape, can be envisaged as follows:

consonant	o	u	ö	ü
palatal/neutral	—	velarisation	velarisation (?/palatal)	no label (/palatalisation)
velarised	velarisation	no label	—	—

For example, velarisation of a velarised consonant results in [o], whereas a similar measure of velarisation to a palatal consonant yields [ö]. Conversely, palatalisation of a palatal consonant gives [ü]. Of course, the scheme does not account for labels that merely express an opposition.

### 3.5 *The status of the glides*

The status of the glides, i.e. <sup>ʾ</sup>*alif* /<sup>ʾ</sup>, y and w in the sources is not always easy to interpret. The glides are pronounced in various ways, and in some cases not at all. In a number of sources any reference lacks and one has to guess as to whether the glide indicates vowel length or stands for plene writing only. When they are added for lengthening (<sup>ʾ</sup>*šbā*<sup>ʿ</sup>) of a vowel, such as in poetry, the glides are not considered a basic part of the word, and therefore, as a rule not, or only occasionally expressed in orthography (see 1.5.1). This section does investigate vowel length in Turkic languages of which there are traces in modern Turkmen and Yakut; it merely discusses in a broad way the functions the sources assign to the glides in their descriptions of Turkic.

As said before, the sources indeed display various opinions on the status of the glides. In some (*Ḥilya*, *Dīwān*, *Tuḥfa* and—to some extent—*Idrāk*) principles of the Uyğur alphabet shine through. In the Uyğur alphabet there were no signs for short vowels, long vowel signs being used both for indicating long vowels and as plene writing of short vowels.

<sup>74</sup> It is important, though, not to be misguided by the labelling of oppositional pairs.

<sup>75</sup> The idea of a scale is enhanced by data from Kāšgarī who remarks that a given word (which is known as having [ö]) requires 'less *šamma*' than another word which has [ü] (Dankoff and Kelly 1982:56).

### 3.5.1 *ʿIdrāk*, *Ḥilya*, *Qawānīn* and MG: glides indicate prosodic lengthening

In *ʿIdrāk* *ʿAbū Ḥayyān* considers all occurrences in which the glides are used to indicate a lengthened vowel, prosodict lengthening, i.e. *ʿiṣbāʿ*, rather than a part of the root:

“None of the three weak consonants [sc. *ʿalif*, *wāw* and *yāʾ*] are ever part of the root in this language, they arise from the lengthening of the vowels.” (*ḡamīʿ hurūf al-madd wa-l-līn aṭ-ṭalāṭa lā yakūnu ṣayʾ minhā ʿaṣlan fī hādīhi l-luḡa ʿinnamā hiya nawāṣīʾ ʿan ʿiṣbāʿ al-ḡarakāt, ʿIdrāk* 101,10; compare *Irtiṣāf* I 423)<sup>76</sup>

In other words, *ʿAbū Ḥayyān* means that unlike in Arabic, in Turkic the glides are never part of the root; instead they always serve to indicate secondary lengthening (*ʿiṣbāʿ*). In *Qawānīn* and the Margin Grammar, too, the term *ʿiṣbāʿ* is used in the sense of lengthening, viz., (*ʿiṣbāʿ fatha [al-mīm]*). The lengthening is shown by means of insertion of a glide, as in *kalmās /kalmaʿs/* ‘he will not come’ (*Qawānīn* 14,2; similar statement in MG 62<sup>v</sup>top; 46<sup>l</sup>t/ult). A similar opinion is reflected in *Ḥilya*:

“An *ʿalif* that evolves from the lengthening of a...” (*wa-ʿalif tanṣaʿu ʿan ʿiṣbāʿ fatha, Ḥilya* 75.)

Thus, it appears that most grammarians accept both long and short vowels for Turkic, long vowels occurring basically as a secondary, perhaps marginal effect, i.e. similar to the status of the lengthening of vowels in Arabic poetry.

It is interesting to note that, although in Arabic linguistics the term ‘lengthening’ (*ʿiṣbāʿ*) it is sometimes refers to the consonant instead. For example, in the word *ʿaqḡā* ‘white’ (used as the name of a coin) *ḡ* is both vocalised with *a* (*maftūḡa*) and lengthened (*muṣbaʿa*, MG 34<sup>l</sup>t): “the noun whose last consonant is vocalised with *a* and lengthened” (*al-ism al-maftūḡ al-ʿāḡir al-muṣbaʿ*, MG 59<sup>v</sup>rt). Similarly, the *m* (in the negation suffix) is “lengthened with an *ʿalif*” (*al-mīm al-muṣbaʿa bi-l-ʿalif*, MG 62<sup>v</sup>top). The last quote calls to mind *Qawānīn*’s description of the same suffix, but there the author uses the term *mufahḡam* (*mīm maftūḡa mufahḡama*, *Qawānīn* 13,9), which is to be interpreted as ‘lengthened’, or—perhaps, ‘emphasised’—rather than ‘velarised’ (see also 3.1.2).

<sup>76</sup> It will be shown in Chapters Five and Six that this point of view has consequences for the interpretation of some Turkic morphemes that are expressed by means of a glide.

### 3.5.2 *Tuḥfa*: plene spelling as default

Traces from the Uygur orthographical tradition are evident in *Tuḥfa* too. The anonymous author formulates his concept of the glides as follows:

“Know that there are no signs for short vowels and by the lack of it much confusion occurs. Thus, they set up a rule for all nouns, verbs and particles alike in order to write without vocalisation and without confusion. [This rule] is that **a** is followed by <sup>ʾ</sup>*alif*, **i** by **y**, and **u** by **w**.” (*iʿlam ʾanna l-luġa t-turkiyya laysa fihā šakl wa-bi-ʿadamihī yaqaʿu l-ʾiltibās fa-ġaʿalū li-kull min al-ʾasmāʾ wa-l-ʾafʿāl wa-l-ḥurūf dābiṭan li-yaktubū* [?] *bi-ġayr šakl wa-lā iltibās, wa-hiya* [sic] *ʾanna l-faṭḥa talihā ʾalif, wa-l-kastra yāʾ wa-d-ḍamma wāw, Tuḥfa 2<sup>v</sup>9.*)

Indeed, in *Tuḥfa* all vowels are indicated by means of <sup>ʾ</sup>*alif*, **w** and **y**, respectively, while his plene orthography is observed in cases where the other sources have a short vowel, e.g., *šāqāl* /ša"qa"l/ ‘beard’, *qānāt* /qa"nā"t/ ‘wing’. Initial *hamza*, for example, is followed by <sup>ʾ</sup>*alif* to indicate **a**, e.g., *ʾātā* /ʾa"ta"/ ‘father’ (<sup>ʾ</sup>*ab*); *ʾānā* /ʾa"na"/ ‘mother’; *ʾāq* /ʾa"q/ ‘white’ (*Tuḥfa* 3<sup>r</sup>11ff). This plene writing may be related to the Uygur script.

Nevertheless, in a few instances a vowel is represented by a vowel sign only, e.g., in *ʾawrāt* /ʾawra"t/ ‘woman’, *šuwūq* /šuwuwq/ ‘cold’ (6<sup>v</sup>10). This is probably related to the fact that otherwise these words would have contained a sequence of two <sup>ʾ</sup>*alifs* and a /w/, i.e. \*اورات /ʾa"wra"t/, or one of three /w/s, i.e., \*صوروq /šuwuwuwq/, respectively, which are unacceptable in Arabic phonology.<sup>77</sup>

### 3.5.3 The use of glides in *Dīwān*

Kāšġarī’s principles with regard to the use of the glides are described in detail in Dankoff and Kelly (1982:67ff) (and Kelly [1973]). They are right when they say that Kāšġarī at times is inconsistent in his use of a plene orthography.

According to them, the instances in which Kāšġarī uses plene orthography are summarised in four categories which I repeat here for sake of convenience: (1) anomalous plene orthography in the introductory pages, probably due to errors during copying; (2) inconsistent use of the glides for the vowel sign as in Uygur script; (3) secondary lengthening, or ‘pausal lengthening’ in proverbs and verses, and in the rhyme position; (4) secondary lengthening which is to be interpreted as

<sup>77</sup> This plene writing of all vowels in *Tuḥfa* is an important difference with *ʾIdrāk*, in spite of the structural resemblances of the two works.

indicating stress, especially occurring in two-word phrases, “where it points to stress on the root as against the general rule.” Kelly (1973) gives a detailed account of the instances in which Kāšġarī makes statements about vowel length and how these should be interpreted. One of the conclusions Kelly reaches is that Kāšġarī understood that it is possible to express vowel length more accurately in Arabic script, as opposed to Uygur script, in which this is not possible. In other instances the glide indicates stress in the first syllable. At the same time, though, Kāšġarī’s attitude with regard to the status of the glides could be called ambivalent. In some instances he accepts the glides as part of the root, in others he considers them additional and suggests deletion because a short pronunciation is “the most eloquent” (*al-’afṣaḥ*).

In Arabic grammar deletion of a glide as a basic consonant is only possible under certain conditions (cf. Bohas 1982:91ff). On 515,16-18 (also in Kelly 1973:156) Kāšġarī says that it is possible in Turkic to delete the glides just as this is possible in Arabic. He exemplifies this with the verb *zāna* ‘he decorated’ *yazīnu* ‘he decorates’, “then one forms the imperative by saying *zin* ‘decorate!’...” (*tumma yu’mar minhu fa-yuqāl zin...*, *Dīwān* 516,6). This argumentation only makes sense if we regard *yazīnu* as the phonetic realisation of /yaziynu/. In the case of the imperative form the medium /y/, which is a part of the root /z-y-n/, is omitted, leaving /i/, hence /zin/. In other words, in Arabic theory the shift of *yazīnu*—*zin* is not the shortening of a long vowel, since in this theory long vowels do not exist, but the elision of a consonant. In the same way, the pattern of *qūl* ‘arm’ is /quwl/; after deletion of the glide /w/, the pattern becomes /qul/, realised phonetically with a short vowel. Depending on which form is regarded as primary, /w/ is either deleted from the root, or inserted.

Kāšġarī makes a yet another statement in regard to words whose middle consonant is a glide. In these words, he writes,

“the glides disappear when they are pronounced fast... [T]he glide is elided in speech, not in writing.” (*wa-ḥurūf al-līn yasqūtu minhā ‘inda sur‘at an-nuṭq bihā... fa... yunqasu minhā ḥarf al-līn fī n-nuṭq dūna l-kitāba*, *Dīwān* 493,13).

Here Kāšġarī says that even though a given word contains a glide this does not necessarily indicate lengthening, for the glide can be elided in speech. In other words, shortening is the result of a prosodic process which is not always indicated by means of a short vowel; thus the glides sometimes stand for plene writing of vowels rather than actual lengthening.

### 3.5.4 The functions of the glides in *Ḥilya*

Ibn al-Muhannā developed a rather complicated system of abbreviations and markers which he used to indicate aspects of the vowels that cannot be reflected with the regular script. In this system, described on pp. 73ff., the glides play an important role.

#### 3.5.4.1 Labels of the glides, and the functions of the glides as markers

As discussed in section 3.1.5.2 above, in Ibn al-Muhannā's orthography the glides serve more functions than lengthening alone; they occasionally serve as markers for velarisation and as plene writing of vowels. When they are used in a non-regular way, Ibn al-Muhannā marks them with *m* (م). For example, in some words the occurrence of /w/ stand for plene writing of a vowel, not for vowel length. Examples are, e.g., **būrġū** /buwrġuw/ 'trumpet', in which the first /w/ is marked, hence [burġu] and **ʿūš** /ʿuwš/ [uš] 'the one that' (*alladī*).<sup>78</sup>

Similarly, *ʿalif* is marked when it does not stand for vowel length, but indicates a vowel, much like 'the pausal *h*' (*hāʿ al-ʿistirāḥa*), Ibn al-Muhannā writes, in Arabic words like *farsiyyah* 'Persian', in which final *h* indicates a preceding short vowel *a*, rather than a real *h*.<sup>79</sup> For Turkic this applies to **yā** /ya"/, [ya], 'bow'; **mundā** /munda"/ [munda] 'here', **ʿalmā** /ʿalma"/ [alma] 'apple', in all of which the *ʿalif* is marked.<sup>80</sup>

At best, Ibn al-Muhannā's system of marking and labelling can be characterised as quite confusing; it may well be the case that he has mixed up the writing conventions he found in his own sources.

#### 3.5.4.2 *ʿImāla* applied to *y*

In *Ḥilya* the terms *ʿimāla* and *ʿišmām* are applied to words whose default interpretation is already front. The labels, then, perhaps must be interpreted as indications for a stronger inclination to [e] (or [é]) than usual. For this type of *ʿimāla*, Ibn al-Muhannā uses the abbreviation *mk*—which stands for *māla ʿilā l-kasr*, i.e. "inclining to *i*". Examples of

<sup>78</sup> Interestingly, /w/ remains unmarked when it is pronounced 'soft' (*hafifa*), i.e. "not extended" (*lā mušbaʿa*), which I tend to interpret as plene writing too. This is exemplified with the very same word, i.e. **burġū** /burġuw/ 'trumpet' [burġu].

<sup>79</sup> Another regular use in orthography is when *ʿalif* is added after *ū* /uw/ at the end of a word. In Arabic this occurs for instance in verbal forms conjugated for the third person plural past tense, e.g., *ḍarabū* (ضربوا) 'they beat'. Ibn al-Muhannā does the same in Turkic too: **bū** 'this' (بوا) (cf. also *Durra Ms 4* **şuw** 'water /ş-w-"/).

<sup>80</sup> The *ʿalif* and *w* remain unmarked when they are basic consonants of the word (*ʿaṣli*). This is, for example, the case in **qām** /qa"m/ 'soothsayer'. They remain, paradoxically, also unmarked when they indeed do indicate vowel length (*mušbaʿa*), e.g., **kūrār** 'he sees', **yarār** 'he matches'; **ūz** /ʿuwz/ 'master' [u:z] and **ūr** /uwr/ 'beat!', [u:r].

this are, e.g., *man* [men] 'I', 'at [et] 'meat', *bak* [beg] 'chief' (*Ḥilya* 78,3).

The same label is applied to *y*, which here indicates a long vowel (*mušba* 'a 76,11), furthermore, *y* is "flavoured of *i*" (*mušamma* 'ilā *l-kasr*). At this particular point Ibn al-Muhannā does not mention the quality of the vowel that precedes *y*, but a few lines further (76,14) he refers to it as *i* (see examples in listing below).

Elsewhere (77,7) some of these words are mentioned again, albeit with yet another marker, i.e. *m-l-ḥ* (ملح), which also indicates 'imāla. Here the quality of the vowel represented by *y* is compared to that of *y* in four Persian words:

1 "lengthened *y*", as in e.g., *šir* 'milk' and *tīr* 'arrow'.

2 "a light *y* with inclination to *i*" (*yā* 'ḥafīfa *bi-'imāla al-kasr*), as in e.g., *šir* 'lion' and *sīr* 'garlic'.<sup>81</sup>

In contrast to these instances of marked *y*, Ibn al-Muhannā (*Ḥilya* 76) gives some words that remain unmarked, in which the pronunciation of *y* is 'clear' (*bayyina zāhira*). When combined in one scheme, the following pairs become evident, viz.,

Labelled ('*Imāla*)

'iṣ /'iyš/ [é:š]<sup>82</sup> 'companion'

bīr /biyr/ [bé:r] 'give'

kīš /kiyš/ [ké:š] 'quiver'<sup>83</sup>

bīz /biyz/ [bé:z] 'swelling'<sup>84</sup>

Unlabelled

[iš] 'work'

[bir] 'one'

[kiš] 'sable'

[biz] 'cloth' (*al-'iṣfā*[?], EDT "bé:z")

('we'; see also 77,2)

<sup>81</sup> These data are not entirely confirmed by Western interpretations of Persian. Steingass gives 'lion' as *sher*, the three other nouns with *ī*. Meier (1981:86-7) notes that in Arabic sources Kurdish *ē* is marked with a special marker ("haken") above *y*, and *š* with this marker above *w*. Further, "zur wiedergabe eines *ē* im sudanesischen arabisch schreibt Yusuf Faḍl Ḥasan in seiner kritischen ausgabe von Muḥammad an-Nūr b. Ḍayfallāh's *Ṭabaqāt fi ḥuṣūṣ al-'awliyā' wa-ṣ-ṣāliḥin wa-l-'ulamā' wa-š-šu'arā' fi s-Sūdān*, Chartum 1974, einen bogen unter den buchstaben vor dem *y*." And: "In manchen arabischen dialektaufnahmen wird das *ē* mit den worten *bi-'imālat al-yā*' angedeutet."

<sup>82</sup> With no further vocalisation of *hamza*. From an earlier statement (74,3) on this subject, however, it is evident that *hamza* must be vocalised with *a*. Other sources do not point at this specific pronunciation, e.g., *Idrāk* 14 'iṣ.

<sup>83</sup> In *Dīwān*, too, two instances of [e] and [é] are described. The term used in this respect is *bi-l-'imāla*, e.g., *kīš* 'quiver' (*Dīwān* 498,6; EDT 752 "ké:š"; Dankoff and Kelly "kéš"); *sayš* 'surety' (*Dīwān* 497,17; EDT 856 "s:š").

<sup>84</sup> In another instances [é:] is represented by 'alif, viz., *bāšik* /ba"šik/ 'cradle' (*Ḥilya* 179,3; EDT 390).

### 3.6 Consonants

The present section deals with two main issues. First, it shows which phonemes each source posits for Turkic. Secondly, it discusses in which terms they describe those phonemes that are not regular phonemes in Arabic are described.

In the present section I shall not deal in great detail with velarisation and palatalisation, which are already amply discussed in the previous sections (3.1-3.5). Instead, I shall describe which consonantal phonemes are described in the sources, and which terminological instruments are used in those descriptions. Furthermore, I shall attempt to assess the status of the phonemes the sources posit for Turkic. It shall be seen that there are three types of Arabic descriptions of Turkic phonemes. First a number of basic phonemes that also exist as such in Arabic. In a sense these could, therefore, be called phonemes. Second, there is a number of phonemes that are described as allophones of Arabic, sometimes for dialectal variants. The third type are phonemes that are entirely new.

In regard to the front-back opposition, there is an important basic difference in approach between the Western analysis on the one hand, and the Arabic tradition in the other. In Western analysis the vowels are primary elements and thus affect the surrounding consonants, whereas in the Arabic tradition this is the other way around. Western scholars, for example, apart from only four velar consonants does not posit any velar or velarised consonants, such as [ʂ], [ʧ], [ʒ], [ʝ] and [ʧʰ] whereas these are so important in the Arabic analysis.

It shall be seen in this section that all sources have a list of those Turkic consonantal phonemes they consider the basic ones, in addition to a number of secondary sounds, whose status comes close to what in western theory are called allophones. The description of the consonants falls into two parts, based on the approach the sources choose in their respective descriptions of Turkic phonemes. It shall be seen that the first group, which consists of *Ḥilya* and *Dīwān*, takes the Uygur alphabet as its basic list of Turkic phonemes, whereas the second group bases itself on Arabic phonemes instead.

#### 3.6.1 The number and status of consonantal phonemes

The sources display various opinions on the number of Turkic phonemes. *Dīwān* gives 18 basic consonants, *Šudūr* counts as many as 29, and even though the listing of basic phonemes in a particular source may be small initially, this number is usually extended with a



number of additional phonemes. The differences between the sources in this respect are, as we shall see, related to their respective concepts of both Turkic and Arabic phonemes.

The question arises what exactly the status of the basic and additional phonemes is. As a rule of thumb, I suggest considering all phonemes that are explicitly mentioned in the basic listing as 'phonemes', and all those that are mentioned in passim as secondary or, with a modern term, 'allophones'. But, again, each source has different concepts in this matter.

The scheme in the appendix to this chapter (pp. 160-162) brings together all descriptions of Turkic phonemes and allophones that are mentioned in the sources, and serves as a reference.

### 3.6.1.1 The numbers of phonemes

Five of our sources each give an elaborate listing of the basic consonantal phonemes that occur in Turkic. The sources that provide such a list are *Ḥilya* (82,4f.), *Dīwān* (6,7ff), *Qawānīn* (4,7ff), *ʿIdrāk* (101,2ff) and *Tuḥfa* (2<sup>r</sup>). In spite of this identical point of departure, there are considerable discrepancies in the numbers of consonants the sources posit for Turkish. The lowest number is 23, the highest 29. Four sources classify the consonants into 'basic' and 'secondary', while showing considerable differences as to the respective numbers of these subcategories. The secondary consonants are in all but one source (i.e. *Dīwān*) phonemes that do not occur in Arabic. Accounts of secondary consonants are provided in *Tuḥfa*, *Ḥilya*, *Dīwān* and *Tarḡumān* (3,4ff), although the latter does not give an overall inventory (nor does *Šudūr*<sup>85</sup> 4<sup>v</sup>12;20).

The consonants in the basic list are presented as such in various ways. *Kāšgarī* and *Tuḥfa*'s anonymous author calls them simply 'basic' (*ʿašliyya*, and *ʿašlan*, respectively). The secondary consonants are called 'derivational' (*far ʿiyya*) in *Dīwān*, and 'repeated' (*mukarrara*)<sup>86</sup> in *Tuḥfa*. *Qawānīn*, however, writes that the basic consonants occur in 'orthography' (*fī ṣ-šūra*), and, along with six secondary ones, they are 'in speech' (*fī l-lafz*). The following scheme summarises the data:

<sup>85</sup> In *Šudūr*, Ibn Muḥammad Šāliḥ counts 29 Turkic consonants (4<sup>v</sup>12;20), but he refrains from giving a detailed list, contenting himself with a description of the non-Arabic phonemes instead. He further specifies (without giving examples) that some of these are 'used' (*musta ʿmal*) whereas others are 'avoided' (*mahḡūr fīhi*).

<sup>86</sup> Doubling of consonants as a means to indicate a non-standard pronunciation also a method applied in *Durra* (4.2.7).

	Basic		Secondary	Total
<i>Tuḥfa</i>	19	( <sup>ʿ</sup> <i>aşlan</i> )	4	( <i>mukarrara</i> ) 23 <sup>87</sup>
<i>İdrāk</i>				23
<i>Ḥilya</i>	19		4	23
<i>Diwān</i>	18	( <sup>ʿ</sup> <i>aşliyya</i> )	7	( <i>far ʿiyya</i> ) 25
<i>Qawānīn</i>	21	( <i>fī ş-şūra</i> )	6	27 (28) ( <i>fī l-lafz</i> )
<i>Şudūr</i>				29

In the overall scheme of Turkic phonemes in the appendix to this chapter, I have distinguished the basic (B) consonants from the secondary ones (S) by means of appropriate labels.

In addition to these two categories of consonantal phonemes, all but two sources (i.e. *Tuḥfa*, *Şudūr*) list yet other consonants in passim. Those are either Arabic consonants which had not been included in the list of basic consonants, or full-fledged phonetic descriptions of different sounds. A number of these are additional or alternative definitions for some of the secondary phonemes. I have marked these P (for passim) in the overall scheme, in as far as they can be identified in the respective sources. The secondary phonemes are the following: *İdrāk* [d̪]; *Ḥilya* dead ġ, pausal *h* (orthographic device), velarised t, [t̪] and [t̪̰]; *Diwān* [g] and [g̰]; *Qawānīn* [ġ], [ġ̰], [r̪], and [h̪] (as allophone of [q]); *Durra* [g], and *Tarġumān* velarised *d* and velarised *z*, respectively.

### 3.6.1.2 Lists of absent phonemes

Six of the sources give a list of Arabic phonemes of which they explicitly state that they do not occur in Turkic. Such lists are found in *Qawānīn* (4,13), *Tarġumān* (2,12), *Diwān* (6,4), *Bulġa* (MS 1<sup>5</sup>), *Ḥilya* (82-83) and *Şudūr* (4<sup>r</sup>25), whereas they lack in *İdrāk*, *Durra* and *Tuḥfa*. As expected, the sources are not unanimous as to which Arabic phonemes do not occur in Turkic, but there are enough points of agreement too.

The listings display the following consonants/phonemes:

<sup>87</sup> I counted only 22 in *Tuḥfa*; the *dāl* must have been omitted erroneously.

	<i>Qawānīn</i>	<i>Tarğumān</i>	<i>Šudūr</i>	<i>Ḥilya</i>	<i>Dīwān</i>	<i>Bulğa</i>
1	ṭ	ṭ	ṭ	ṭ	ṭ	ṭ
2	ḥ	ḥ		ḥ	ḥ	
3		ḥ				
4	ḍ		ḍ			
5				ṣ	ṣ	
6		ḍ	ḍ	ḍ	ḍ	ḍ
7					ṭ	
8	ẓ	ẓ <sub>c</sub>	ẓ	ẓ <sub>c</sub>	ẓ <sub>c</sub>	ẓ <sub>c</sub>
9						
10	f	f				
11	h		h			

Table I Absent consonants in Turkic according to the sources

In *ʿIdrāk* ʿAbū Ḥayyān writes that any Arabic consonant other than the ones mentioned in his listing of Turkic consonants cannot be genuinely Turkic. He exemplifies this statement with some examples of Persian and Sogian loan words, which contain the non-Turkic *f* and *ḥ*, e.g., **farman** 'decree', from Persian *farmān*, **firišti-lār** 'angels', from *fārište*, and **kulaf** 'rose', from *gūlab*, and Sogdian *ʿaḥšam* 'evening' (EDT 96:).

In *ʿIdrāk* (9; 26) **ḍ** is mentioned in passim as occurring in *Bulğar*. Although, as a rule, *ʿayn* does not occur in Turkic languages, including loan words, it occurs in two instances in *Qawānīn*, viz., **ʿaḍam** 'man', (59,11; 53,10) and **ʿawrat** 'woman' (59,14), in which it is probably to be interpreted as a kind of velarised, or stressed *hamza*. The pair **ẓ** - **ẓ** in *Durra* is surprising, because according to the Arabic prescriptions, **ẓ** forms a pair with **ḍ**. *Durra*'s concept must be regarded as the reflection of a dialectal pronunciation.

An interesting point is the question of the contradictive statements regarding **ṣ** and **ṭ** in *Ḥilya*. Although explicitly given in the listing of Turkic phonemes, **ṣ** is here mentioned again as a non-Turkic consonant. There is no mention to this effect in regard of **ṭ** (cf. 3.1).

### 3.6.1.3 The Uygur alphabet as a base

The respective lists of consonantal phonemes in *Dīwān* and *Ḥilya* are based on the Uygur alphabet (cf. for example Kelly 1973). Kāšgari indeed displays the Uygur alphabet and gives examples of how Turkic words are written in it, along with a transcription. His listing of eighteen basic phonemes, therefore, is essentially transcription from the Uygur alphabet, which has consequences for the interpretation of some

signs. (This point is further discussed in 3.6.1.3). *Ḥilya*'s listing bears a clear relationship to the Uyğur alphabet too, although it is apparently a more indirect one, and his listing of 23 consonants is quite different from Kāšğarī's. *Dīwān* (6,7ff) and *Ḥilya* list the basic consonants of Turkic as follows (the sequence all but identical):

<i>Dīwān</i>	/ <i>Ḥilya</i>	<i>Dīwān</i>	<i>Dīwān</i> / <i>Ḥilya</i>	<i>Ḥilya</i>
1   'alif -hamza		7 ی y	13 ب b	19 ص ṣ
2 ف v	/ f	8 ك k	14 چ č / ğ	20 د d
3 خ ḫ	/ غ ğ	9 ذ d	15 ر r	21 ه h
4 و w		10 م m	16 ش š	22 خ ḫ
5 ز z		11 ن n	17 ت t / ط ṭ	23 ت t
6 ق q		12 س s	18 ل l	

In his listing Kāšğarī does not mention **d**, although he uses it quite often in the course of his text. Apart from being used in the verbal ending **-dī**, **d** also occurs in verbal and nominal stems. There are indications that in at least some of these **d** is not interchangeable with **ḍ**. Fore instance, there is evidence for this assumption lies in the fact that intervocalic **-ḍ-** in *Dīwān* coincides with **-y-** in the so-called ayaq-branch of modern Turkic languages (viz. 'ayaq ~ 'adaq 'foot', 45,1), whereas words with **-d-** apparently never change (viz. 'idiš 'cup', 42,12).<sup>88</sup>

Incidentally, there is also confusion in regard to **d** in Ibn al-Muhannā's list, because of its occurrence on two places, i.e. on (9) and (20), and I tend to interpret the former as **ḍ**.<sup>89</sup>

Finally, Kāšğarī's use of the term 'basic consonants' (*ḥurūf 'ašliyya*) presupposes a second category, namely one of 'derived consonants' (*ḥurūf far 'iyya*). Indeed, Kāšğarī describes seven additional phonemes which he in concord with his earlier preferences derives from the Uyğur alphabet. In his view, then, the 'Arabic ğ' (*ġim 'arabiyya*), the regular [ġ] and the 'Arabic f' (*al-fā' al-'arabiyya*) [f] are derivatives of [č] and [v], respectively. There is one Arabic phoneme, i.e. [ġ], which has no representation in the Uyğur script, and another two that cannot be

<sup>88</sup> Mr Hans Nugteren, p.c. November 3rd, 1997. // A copy of this description of basic and secondary consonants is given in the Margin Grammar (33<sup>rd</sup>It). Dankoff and Kelly (1982: 50f and 53ff) summarise the consonants occurring in the Turkic language of *Dīwān* as follows: /b, p, m; d, ḍ, t; n, ŋ; l, r; g, k, q; s, z, š, j, č, ž; f, h, x; y, w, v/.

<sup>89</sup> In another instance, indeed, **d** merges with **ḍ** (although this may be due to a copyist's error), where Ibn al-Muhannā discusses substitution of **d** by **t**. The editor Rif'at gives the etymologically correct forms with **ḍ** in square brackets after each word (79,2ff).

expressed in either script, i.e. [ž] and [g] (further discussion in section 3.6.3.1).

### 3.6.3.1 Transcription from the Uygur alphabet

Kāšgarī's basic approach to reflection the sound system of Turkic in Arabic script is that of a transcription from the Uygur alphabet, which he apparently considers quite suitable for Turkic. His transcription, in its turn, has to be reflected in the Latin alphabet for our purposes.

There are two possibilities for the transcription of a given phoneme from the Uygur into the Arabic script. The first is that the phoneme can be reflected in both, i.e. each script has an unambiguous sign for it, e.g., [s]. The second is that a non-Arabic is reflected in the Arabic script with a sign that in Arabic has a different phonetic value. This is, for example, the case for the phonemes [č] and [v], which Kāšgarī transcribes with the regular Arabic signs for *ğ* and *f*, respectively. Problems occur if these Arabic signs are needed in the value they have in Arabic. Such a need in fact did occur.

There are some foreign loan words in Turkic, Kāšgarī writes, which contain [f] and [ğ], for which the Uygur alphabet, as explained above, has no signs. In these instances the appropriate Uygur signs are marked by means of additional diacritical dots. Kāšgarī subsequently transfers this method to the Arabic script, inasfar as he uses it for Turkic. In this way, both  $\text{ف}$  and  $\text{ح}$  are marked with extra dots, which results in  $\text{ف̣}$  and  $\text{ح̣}$ , respectively. As a consequence, then,  $\text{ف}$  and  $\text{ح}$  should be interpreted as respectively [v], and [č]. However, I have to add immediately that in practice for [v] it is the other way around, probably because a copyist, or even Kāšgarī himself found the system too confusing to apply throughout, and therefore,  $\text{ف}$  seems to represent [v], rather than [f].

Dankoff and Kelly (1982:55) discuss in some detail the transcription of these graphemes. Their conclusion in regard to [f/v] is that  $\text{ف}$  is to be interpreted as [w], and  $\text{و}$  as [v]. Their arguments are twofold. First, the Oğuz (and New Persian?) pronunciation of  $\text{و}$  is [v]. Second, the Sogdian grapheme for F was used to signify [w] or [β]. Etymologically speaking, Dankoff and Kelly are probably right. However, what concerns us here is Kāšgarī's perception of Turkic phonemes and the way he described them in terms of Arabic phonetics, and therefore we should be careful in positing features of Turkic Kāšgarī probably did not, or could not notice. In this respect, I believe there are strong arguments in favour of interpreting  $\text{ف}$  as [v], and  $\text{و}$  as regular [w], all of them based on Kāšgarī's text. The first is that  $\text{ف}$  is clearly described as 'between Arabic *f* and *b*', which point at [v], rather than [w] (cf.

3.6.2.1). The second argument is that Kāšgarī nowhere says that he uses  $\text{و}$  for a pronunciation that is different from the standard Arabic one, while in other instances he is very accurate on this. (The standard Arabic pronunciation is, no doubt, [w].) The third argument combines the two first ones, and I put it in the form of a rhetorical question. Why would Kāšgarī complicate matters and introduce a new symbol (  $\text{و}$  ) for an existing phoneme, i.e. [w], for which he had an appropriate and non-ambiguous grapheme at his disposal?

The problem of transcription plays no role in *Ḥilya*; Ibn al-Muhannā lists 23 basic consonants, five more than Kāšgarī. The respective basic lists differ on a few more points; Ibn al-Muhannā includes the following consonants which are absent from Kāšgarī's: **f**, **ġ**, **ṭ**, **ṣ**, **d** and **h**. Furthermore, there are differences in transcription from the Uygur, viz., (*Diwān-Ḥilya*) **ḥ** - **ġ**, **d** - **ḍ**, **t** - **ṭ**, **v** - **f** and **č** - **ġ**, whereas in *Ḥilya* [v] and [č] are described elsewhere (cf. 3.6.2.1).

The different transcriptions are of interest from two more general points of view too. First, they indicate that Ibn al-Muhannā had no first-hand knowledge of the Uygur script. If he had, he might have found out, as Kāšgarī did before him, that there are only 18 basic signs. Secondly, the two variants show that there was no uniform transcription for the basic signs of the Uygur script. For example, some may have transcribed the phoneme on no. 3 as  $\text{ح}$  **ḥ**, whereas others preferred  $\text{غ}$  **ġ**; and no. 17 as  $\text{ف}$  **f**, rather than  $\text{ت}$  **t**. It appears that, as in the course of time scholarly knowledge of the Uygur script dwindled, transcriptions that initially had the status of alternatives (**ġ**, **ṣ**, **ṭ**) were erroneously added to the basic list as phonemes in their own right.

In *Ḥilya* too, the non-standard realisations have to be marked, and in Arabic script this is reflected by means of additional diacritical dots on the basic signs:

“The marker of these consonants which distinguishes them in writing from the pure Arabic consonants consists of three dots under the consonant concerned... which indicate their emphasis.” (*wa-‘alāma hādīhi l-ḥurūf farqan baynahā wa-bayna šariḥ al-ḥarf al-‘arabī fi l-ḥaṭṭ ‘anna taḥta l-ḥarf alladī hādā ša’nuhu talāṭa nuqaṭ muṭaffā... tadullu ‘alā tafḥīmihi, Ḥilya 73,2.*)

Indeed, for two non-Arabic phonemes, i.e., [p] and [č], respectively Ibn al-Muhannā occasionally uses the signs  $\text{پ}$  and  $\text{چ}$ . A similar system, in which velarised *l* is marked with dots too, is used more extensively in *Šudūr* (see 3.1.2.1 ).

### 3.6.1.4 The Arabic alphabet as a base

As pointed out above in section 3.6.1.1, five sources give a listing of consonantal phonemes. Two of those, i.e. *Dīwān* and *Ḥilya*, take the Uygur alphabet as a starting point. The present subsection discusses the sources that take the Arabic alphabet as the point of departure without any reference to other scripts. These are *Qawānīn* (4,7ff), *ʿIdrāk* (101,2ff) and *Tuḥfa* (2<sup>r</sup>). The remaining sources, i.e., *Šudūr*, *Tarğumān*, *Bulğa* and *Durra*, although they do not give any listings, provide descriptions of a number of Turkic consonants. These phonetic descriptions are given below in 3.6.2.1. *Qawānīn* (4,7ff) counts 28 consonants (but actually gives 27; š is erroneously left out) that are used ‘in speech’ (*fī l-lafz*), 21 of which are reflected ‘in writing’ (*fī ṣ-ṣūra*), by which the author means that seven consonants do not have a unique grapheme in the Arabic script. By interpretation, then, the ones ‘in writing’ must be [ʔ, b, t, ğ, ḥ, d, r, z, s, š, š, ḍ, ṭ, ğ, q, k, l, m, n, w, y], whereas the seven consonant that occur in speech only, are, viz., [p, č, z, ɣ, g, ɮ, ŋ]. *Tuḥfa* distinguishes between nineteen ‘basic’ (*ʿaṣlan*) and four ‘repeated’ (*mukarrara*) consonants. The basic consonants are [ʔ, b, t, ğ, d, r, z, s, š, š, ṭ, ğ, q, k, l, m, n, w, y], the derived ones are [p, č, g, ŋ]. The term ‘repeated’ too refers to a means of marking them in the Arabic script as non-standard (see 3.6.2.2).

One would, again, assume that the use of the same alphabet, i.e. the same basic concept leads to very similar perceptions of Turkic phonemes. This is, as we shall see in the following subsections, only partially true.

### 3.6.2 Descriptions of non-Arabic phonemes

Having sketched a general context in the preceding subsections, we now turn to the actual phonetic descriptions of Turkic consonantal phonemes as they are given in the sources. Descriptions of velarised consonants are not given here, since they have been amply dealt with in section 3.1.2. After the respective descriptions, this subsection contains a brief excursus on how doubling is used as a marker of a non-standard pronunciation, followed by a summary.

Standard or regular Arabic consonants are, of course, not discussed, although they are indicated too, opposing them to the non-regular pronunciation. The sources describe them as *ḥāliṣ*, *ṣariḥ* (*Ḥilya* 73,2), *ṣaḥiḥ* (*Dīwān* 26,17) all of them meaning ‘pure’, which are regular terms for describing the Arabic basic phonemes as opposed to the allophones (cf. 1.2). Kašġarī uses ‘Arabic’ (*ʿarabiyya*, 26,17), when referring to standard *f* and *ġ*, and ‘firm’ (*ṣulba*) for the Arabic *k* (as opposed

to the ‘fine’ *rakīka* for [v] and [g], respectively). This makes sense, since his point of reference is the Uygur script and the pronunciations he associates with that, rather than the Arabic (cf. 3.1.5.3).

### 3.6.2.1 Non-Arabic consonantal phonemes in detail

The present subsection deals with the actual phonetic descriptions of eleven specifically Turkic phonemes as they are given in the sources. In addition there is [ʔ] which is discussed above in 3.1.2.1, which makes a total of twelve. As we shall see, seven of the twelve phonemes, i.e., [p, č, g, ʔ, ž, ŋ, z], are described in very similar terms as allophones that occur in Arabic. The remaining five phonemes, [ɲ, v], the velarised g [g], the mixed h, and the ‘dead ġ’ are alien to the Arabic consonantal system and are described in new terms.

#### 1 [p]

The phoneme [p] is typically described as ‘a blend’ of two Arabic phonemes, [b] and [f], viz., ‘the *b* that is mixed with the *f* (*al-bā’ al-mašūba bi-l-fā’*, *Tuḥfa*), or elliptically, ‘the mixed *b’* (*al-bā’ al-mašūba*, *’Idrāk*). The same relation of this phoneme with *b* and *f* is posited in *Qawānīn*, viz., ‘the *b* that is mixed with the crackling *f* (*al-bā’ al-mašūba bi-l-fā’ al-mušanšana*). The term *mušanšana* is also used in *Qawānīn*’s description of [č] (see below). The concept of mixing, or flavouring recurs without any explication in *Durra*, where a small *f* is scribbled above *b*, e.g., *’arba* [arpa] ‘barley’ (*Durra* 6<sup>9</sup>). The few occurrences of *f* in *Qawānīn* therefore are to be interpreted as [p], for [f] is not listed as a Turkic consonant, viz., *’arfa* [arpa] ‘barley’ (63,12); *šaftalū* [šaptalu] ‘peach’ (63,8), and *šifšaḳ* [šipšaḳ] ‘sparrow’ (62,14). Finally, *Šudūr* compares Turkic *p* to that in Persian, whose place of articulation is “between the Arabic *b* and *f*” e.g., *pādišāh*.

*Tarğumān* and *Ḥilya* use in this respect *tafḥīm*, viz., ‘emphasised *b* between *b* and *f* (*al-bā’ al-mufaḥḥama bayn al-bā’ wa-l-fā’*, *Tarğumān* 3,5). This ‘emphasis of *b’* is in *Ḥilya* further specified as “as if you pronounce [b] outside your lips” (*ka-’annaka tanfaḥu bihā min ḥariğ aš-šafatayn*). In *tap-tī* ‘he found’ (99,17) voicelessness is indicated with doubling (viz., تبتى). (For further use of *tafḥīm* for in a voiceless phoneme, see below [č].)

The phoneme [p] is described in *Dīwān* with an adjective, i.e. ‘firm *b’* (*bā’ šulba*, *Dīwān* 6,15)—which is, along with [t, č, k], and [q] collectively referred to as the ‘consonants of firmness’ (*ḥurūf aš-šalāba*, 281,14; 266,4)—much like the equally voiceless [k] (*kāf šulba*), a regu-



lar Arabic phoneme. There is, however, no expression \* *bā*<sup>3</sup> *rakīka* for the regular, voiced *b* to complete match the pair.

## 2 [v]

*Dīwān* and *Hilya* are the only sources to posit a Turkic phoneme [v]. In *Dīwān* it is named ‘fine *f* (*fā*<sup>3</sup> *rakīka*, *Dīwān* 26,17), analogous to ‘fine *k*’ (see [g]), described more precisely as being “articulated between the points of articulation of the Arabic *f* and the correct *b*” (*ḥārīḡa bayna maḥraḡay al-fā*<sup>3</sup> *al-‘arabiyya wa-l-bā*<sup>3</sup> *aṣ-ṣaḥīḡa*, 26,17), or simply “*f* between the two points of articulation” (*bayn al-maḥraḡayn*, 54,10; 544,12). Ibn al-Muhannā describes it as ‘emphasised *f* (*fā*<sup>3</sup> *mu-faḥḡama*), or, more detailedly, “*f* flavoured of *w*” (*fā*<sup>3</sup> *muṣamma ‘ilā l-wāw*). This phoneme, in *Hilya* expressed by means of  $\text{ٲ}$ , occurs, for example, in <sup>2</sup>*āv* [av] ‘hunt’, <sup>3</sup>*āv* [čav] ‘fame’, *saviḡ* [sevinč] ‘joy’ (*Hilya* 79,15). Based on our knowledge of Arabic phonetics in regard to [b] and [f], which both Kāšgarī and Ibn al-Muhannā here use as their reference, this description exactly matches [v].<sup>90</sup>

According to Ibn al-Muhannā in these words [v] alternates with [w], viz., <sup>2</sup>*āv*, <sup>3</sup>*āv*, *saviḡ*, a phenomenon which Kāšgarī mentions as an option too: “every *f* that is articulated between the points of articulation may be replaced by a *w*” (*kull fā*<sup>3</sup> *bayna l-maḥraḡayn fa-‘innahu yaḡūz mubādalatuhā bi-l-wāw*, 54,10), whereas for the Oğuz [w] is the standard pronunciation (27,1).

## 3 ‘Dead ḡ’

Ibn al-Muhannā mentions a ‘dead ḡ’ (*ḡayn mayyita* 74,10; 77,9f), which he also calls ‘melting’ (*maḡāba*). The ‘dead ḡ’ is in fact an allophone of ḡ, and realised as [w], and therefore in essence not a new phoneme, viz.,

“The pronunciation of [the ‘dead’] ḡ in the languages of the Turks in our realms is like the *w*’s, and this is because the ḡ is a guttural sound whereas the *w* is a labial sound. The place of articulation of both is inclining toward the lips.” (*fa-n-nuṡṡ bi-ḥāḡiḡi l-ḡayn fi ‘alsina t-turk fi ‘arḡinā ka-‘annamā huwa bi-l-wāw wa-ḡālika li-‘anna l-ḡayn ḡarf ḡalqī wa-l-wāw ḡarf ṣafawī, fa-l-maḡraḡ baynahumā mā‘il ‘ilā ṣ-ṣafa*, *Hilya* 77,17ff.)

The ‘dead ḡ’ occurs in words like, e.g., *tūḡrā* /*tuwḡra*”/ ‘signature’ [tuwra], *būḡḡāy* /*buwḡda*”y/ ‘wheat’ [buwday], and *būḡrā* /*buwḡra*”/ ‘he-camel’ [buwra].

<sup>90</sup> Rather than [w] as proposed by Dankoff and Kelly; for which see discussion in 3.6.3.1.

The ‘dead *ğ*’ is described as a rather soft allophone of *ğ*. In fact, the description Ibn al-Muhannā gives calls to mind the realisation of the so-called “yumuşak ge” in modern Turkish. This, indeed, may not be a coincidence, for there is other evidence too that points to a relation of the language in *Hilya* with Azeri, or even Anatolian Turkish (see discussion in Chapter 2). Although the ‘dead *ğ*’ forms a terminological pair with the ‘dead *k*’ (*kāf mayyita*) [g], in pronunciation there is no obvious relationship.

In the spirit of the Arabic tradition, in which *badal* typically is associated with a common point of articulation of the consonants in question, Ibn al-Muhannā postulates that the ‘dead *ğ*’ is articulated between *ğ* and *w*.

#### 4 [č]

The sources typically describe the phoneme [č] in terms of a mixture of Arabic [š] and [ğ], ‘the *ğ* that is mixed with the *š*’ (*al-ğim al-mašūba bi-š-šin*, *Tuhfa*, *Qawānīn*)—also elliptically ‘the mixed *ğ*’ (*al-ğim al-mašūba*, *ʿIdrāk*)<sup>91</sup>—“*ğ* flavoured of *š*” (*ğim mušamma ʿilā šin*, *Hilya*)—or simply as “*ğ* between *š* and *ğ*” (*al-ğim bayna š-šin wa-l-ğim*, *Bulğa* MS 1<sup>9</sup>). The concept of mixing, or flavouring is evident in *Durra* two ways; the first of which is a small *š* scribbled above *ğ*, *nāčuk* [nečük] ‘how’, and the second a small *ğ* written underneath *š*, e.g., *bišāq* [bičaq] ‘knife’ (*Durra* 10<sup>v</sup>6). See further discussion of methods of transcription in *Durra* 4.2.7.<sup>92</sup>

In both *Hilya* and *Tarğumān* the term *mufaḥḥam* is applied. In the former it is simply an ‘emphasised *ğ*’ (*ğim mufaḥḥama*), whereas in the latter [č] is an ‘emphasised *ğ* between *ğ* and *š*’ (*al-ğim al-mufaḥḥama bayn al-ğim wa-š-šin*), reflecting the concept of the blend of two consonants. According to *Tarğumān*, this phoneme “resembles the pronunciation of *ğ* by the Nabateans of Ba‘albak” (*tušbih talaffuz nabaṭ bilād ba‘albakk bi-l-ğim*, *Tarğumān* 3,8). The phoneme [č] occurs, e.g., in *bičaq* ‘knife’ (86,6) and *ʿāč* ‘open’ (*Hilya* 99,3). In *Qawānīn* [č] is further described as a “crackling *ğ*” (*ğim mušanšana*,

<sup>91</sup> In the manuscript *p* and *č* are indicated with *ğ* and *b*, each marked with a superposed *š* (ش), which stands for *mašūb* ‘mixed’. To avoid confusion because of the defective Arabic script, ʿAbū Ḥayyān states “In all [words] whose first consonant is a *ğ*, [the *ğ*] is mixed, except in *ğigā* [‘mother’ (42)] and *ğumart* [‘generous’ (46)].” (*wa-ğami mā ʿawwaluhu ġim hiya fihi mašūba ʿillā ġigā wa-ğumart faqaṭ*, *ʿIdrāk* 47.) This means that in all instances, except in the two words mentioned, the grapheme *ğ* on word-initial position stands for [č].

<sup>92</sup> In *Hilya* and *Durra* occasionally the grapheme *ç* is used too, e.g., *biçqač* [bičqač] ‘scissors’ (*Durra* 9<sup>v</sup>13).

*Qawānīn* 55,18). The term *mušanšana* may be a general reference to voicelessness, since it recurs in *Qawānīn*'s description of [p]. Finally, *Šudūr* compares [č] to Persian č (see similar comparisons to Persian in below in 4.3.1.3).

### 5 [g]

The phoneme [g] is described as a 'knotted k' (*al-kāf al-ma<sup>ʿ</sup>qūda*, *Tuḥfa*), a 'bedouin k' (*kāf badawiyya*, *ʿIdrāk* 106,18; *Qawānīn* 50,19) or as a combination of both, i.e. 'the knotted bedouin k' (*al-kāf al-badawiyya al-ma<sup>ʿ</sup>qūda*, *Qawānīn*, *Ḥilya*). *Tarğumān* writes "the tied q of the Arabs" (*qāf al-ʿarab al-ma<sup>ʿ</sup>qūda*<sup>93</sup>, 40,18; also 21,16), which calls to mind its regular description in Arabic theory (cf. 1.2.1). *Diwān* specifies it as "k that is produced between the places of articulation of q and k" (*al-kāf al-mutawallida bayna maḥrağay al-qāf wa-l-kāf*, 6,17), and, in short reference 'thin k' (*kāf rakīka*) (as opposed to 'hard k' [*kāf šulba*], i.e. voiceless Arabic k).

In *Ḥilya* (76-77) in addition the terms 'dead k' *kāf mayyita*, or 'melting k', *kāf dā'iba* are used. Examples of *Ḥilya*'s 'dead k' are *tirik* [tirig] 'living', and *silik* [silig] 'clean' *an-naẓif*, 77); *baḵ* [beg] 'chief' (75,12), *kun* [gün] 'sun'. Finally, *Šudūr* compares it to 'Persian k' (*kāf ʿağamiyya*, *Šudūr* 19<sup>o</sup>20).

### 6 Velarised g [g̣]

Two sources posit a velarised voiced phoneme, which I would interpret as [g̣]. It is described as an "ʿayn that is [pronounced] between ʿ and ġ" (*al-ʿayn allatī bayna l-ʿayn wa-l-ğayn al-muğama*, *Qawānīn*, 4,9), or, in *Tarğumān*, "the g is resonant between ġ and k; its place of articulation is from the nasal cavity" (*fa-l-kāf... bayna al-ğayn wa-l-kāf muğannatan wa-maḥrağuhā min al-ḥayšūm*, 3,9)

### 7 Velarised z [ẓ]

Two sources, *Qawānīn* and *Tarğumān*, posit a velarised z, 'the z that is mixed with the ẓ' (*az-zāy al-mašūba bi-ẓ-šād*, *Qawānīn* 4,9 and various places), also found as an Arabic allophone. Examples are, e.g., *yaz-* to write', *buğazla-* 'to kill' (*Qawānīn*). In *Tarğumān* it is described in terms of an 'emphasised z' (*zā<sup>ʿ</sup> mufahḥama*), which "resembles the pronunciation of ḍ by the Nabateans among the people of the Ṣaʿīd" (*tušbih talaffuẓ nabaṭ ʿahl aš-ṣaʿīd bi-ḍ-dād*, *Tarğumān* 3,9). This very same comparison with a dialectal pronunciation of ḍ is also made in *Ḥilya*, there representing ž.

<sup>93</sup> Em. for *al-manqūṭa*

## 8 [ž]

*Dīwān* and *Ḥilya* posit a Turkic phoneme ž, which only occurs in loan words. It is pronounced “between the place of articulation of ġ and š” (*bayna maḥrağ al-ğim wa-š-šin*, *Ḥilya* 77), or, more precisely, ‘the z that is produced between the places of articulation of z and š’ (*az-zāy al-mutawallida bayna maḥrağay az-zāy wa-š-šin*, *Dīwān* 6,17). *Ḥilya* further describes it as an ‘emphasised z’ (*zāy mufahḥama*, 77), which “resembles the pronunciation of ḍ by the Nabateans among the people of the Ṣa‘īd” (*tušbih talaffuz nabaṭ ‘ahl aš-ša‘īd bi-ḍ-ḍād*) (This same description recurs in *Tarğumān*, there signifying velarised z). The ž occurs, for instance, in ‘ažūn ‘world’; ‘aržū ‘jackal’ and kužāk ‘a lock of hair’ (*Ḥilya* 79,5),<sup>94</sup> generally considered Sogdian or Iranian borrowings (cf. EDT). Although not specifically described in *Tarğumān*, it occurs there once (32,1 ṭāy ‘ažā ‘maternal aunt’ (with ʔ).

## 9 Palatal [ŋ]

The palatal ŋ is usually described as ‘n of the nasal cavity’ (*an-nūn al-ḥayšūmiyya*, *Idrāk*, *Qawānīn*, *Tuḥfa*; *al-ḥarf al-ḥayšūmī*, *Dīwān* 8,11) *ḥayšūm* probably referring to the nasal cavity. A second term is ‘resonant n’ (*nūn mağnūna*); e.g., ‘move!’ *tabraŋ* (*Qawānīn* 77,11). In *Tarğumān* it is described as “there is some resonance in [the n]; its place of articulation (i.e. the *ḥayšūm*) [ranges] from the ceiling of the throat up till the end of the nose” (*fihā šay‘ min al-ğunna wa-maḥrağuhā min saqf al-ḥalq ‘ilā ra’s al-‘anf*, *Tarğumān* 46,6). The ŋ occurs in, eg., *čiz-mā-ŋ* [čizmaŋ] ‘do not write’ (pl). In *Durra* (2<sup>r</sup>6) we find the expression “soft k” (*kāf ḥafīfa*), which reminds of the *nūn ḥafīfa* in the descriptions in the Arabic sources (1.1).

In the text of *Qawānīn* [ŋ] is indicated by means of an *n* and a superposed *k* (*Qawānīn* 27,14), while in *Tuḥfa*, *Durra* and *Ḥilya*’s it is represented by the digraph /nk/, e.g., *kāl-dī-ŋ* /ka“lidiynk/ ‘you came’ (*Tuḥfa* 57<sup>r</sup>6), or a single *n*, viz., /tanriy/ (*Durra* 2<sup>r</sup>6). In *Ḥilya* the *k* and the *n* reportedly assimilate with each other in speech, even though they remain fixed in orthography (*al-ḥaṭṭ*). [ŋ] is described as both a *k* assimilating with *n* in *tanḵiz*, i.e., [teŋiz] ‘sea’, and, conversely, as *n* assimilating with *k*, e.g., *sinkir* [siŋir] ‘sinew’ (75,1; cf. Cantineau 1966:206).

<sup>94</sup> According to Ibn al-Muḥannā ž in these words alternates with š (‘aršū ~ ‘aržū), s (*kusāk* ~ *kužāk*), and ġ (‘ağūn ~ ‘ažūn), respectively.

## 10 Velarised ɲ [ŋ]

Two sources posit a velar variant of the ɲ, here transcribed as ɲ. They probably did so because the palatal version is closely associated with *k* which is the palatal consonant *par excellence* and therefore cannot refer to anything velar. Not surprisingly, therefore, they describe the velarised ɲ in terms of *ġ*, viz., ɲ ‘nasalised *ġ*’ (*ġayn maġnūna*, *Qawānīn* 29,6), or as “*k* of resonance that is produced between *ġ* and *q* and [between] *n* and *q*” (*kāf al-ġunna al-mutawallida bayna l-ġayn wa-l-qāf wa-n-nūn wa-l-qāf*, *Dīwān* 7,1). Examples are, e.g., <sup>2</sup>*aŋla-dī* /<sup>2</sup>*aġla-dī*/ ‘he understood’ (*Qawānīn* 29,6), and *taŋrī* /*taġrī*/ ‘God’ (*Qawānīn* 58,1; 74,5).

<sup>2</sup>Abū Ḥayyān describes this velarised ɲ in phonological terms, rather than in the phonetic qualities of the consonants:

“As far as *šaġā* [‘to you’] is concerned, its base form is *šan-ġā*. The *n* was elided because of the frequency of its use; the base form is used less often.” (*wa-šaġā ʾašluhu šanġā fa-ḥuḍifat an-nūn li-kaṭra al-istiʿmāl wa-yaqillu stiʿmāl al-ʾaš*, *ʾIḍrāk* 127,2.)

In *ʾIḍrāk* this rare instance of velarised ɲ is understood as a crasis of *n* and the dative suffix *ġā* in the personal pronouns *man* ‘I’ and *san* ‘you’ (sg), producing [maɲa] and [saɲa], respectively. In *Iḍrāk* it is in these two instances reflected by means of a single *ġ* (127,2; 142,2).

In *Ḥilya*, surprisingly, the ‘dead’ *k* (*kāf mayyita*), apart from referring to palatal [g], can refer to a velar sound too, i.e., a ‘*k* flavoured of *ġ*’ (*kāf mušamma ʾilā l-ġayn*, 77,4). Ibn al-Muhannā gives the following description, viz.,

“When there is a *n* before a ‘dead’ *k* of this kind, the *k* is pronounced flavoured of the *ġ*, and the sound becomes more nasalised.” (*wa-matā kāna qabla mā hādā sabīluhu min al-kāfāt al-mayyita nūn nuṭiqat bi-hādīhi l-kāfāt mušamma ʾilā l-ġayn fa-yakūn aš-šawt bihā ʾaġann*, *Ḥilya* 77,14.)

Examples are, e.g., <sup>2</sup>*anġā* [aɲa] ‘to him’, *munkā* [muɲa] ‘to this one’, *sankā* [saɲa] ‘to you’, *mankā* [maɲa] ‘to me’. All these words are originally front, but shift to back in the dative case.

11 “Mixed *ħ*”

This phoneme, described in *Qawānīn* only, is a fricative velar phoneme, similar to but apparently not identical with Arabic *ħ*. It occurs in Turkic as an allophone of *q* only, within one language, or as a replacement of *q* throughout. In orthography occasionally reflected with *ħ* (as in <sup>2</sup>*aħšā* ‘dirham’, 57,21), this sound is described in various ways,

viz., ‘q mixed with a ġ’ (*qāf mašūba bi-ġayn mu ġama*, 76,3), ‘q between ġ and q, but which is closer to q’ (*qāf bayna l-ġayn wa-l-qāf hiya ʿaqrab ʿilā l-qāf*, 64,1). Two alternative descriptions are ‘a q between q and ħ’ (*qāf bayna l-qāf wa-l-ħā*’, 64,7), and ‘h which they pronounce mixed with ħ’ (*yantiqūna bi-[l-hā] mašūba bi-ħā<sup>95</sup>*, 4,14). This sound occurs in, e.g., **qalqān** [ħalħan] ‘shield’, **bardaḡ** [bardaħ] ‘cup’ and **ʿaħšam** ‘evening’ (latter spelled with ħ).

Although this phoneme is listed as a regular Turkic phoneme, the author evidently regards it as an allophone of q, which is evidenced by his comment that wherever ħ occurs, “the pure Turks pronounce [the word] with q” (*wa-t-turk al-ħullaş yaqūlūnahu bi-l-qāf*, *Qawānīn* 62,20). In *Tarġumān* too ħ interchanges in one occasion with q, but still occurs in some loan words (cf. Houtsma 73).

### 3.6.2.2 Doubling as a marker for a non-standard pronunciation

In *Durra* no listing of consonants is provided, and the quality of the phonemes can only be determined by interpretation of the markers that are put below and above some consonants. Doubling is the main instrument to indicate a non-standard pronunciation. A voiceless pronunciation of otherwise voiced basic phonemes is indicated by doubling, e.g., **ġġuwmgġġa** [čümče] ‘ladle’ (10<sup>v</sup>6) and **ʿūbb** [öp] ‘kiss’ (20<sup>r</sup>9). Doubling as a means to indicate voicelessness may go back to an older tradition. Ibn Sīnā, for example, uses the term ‘doubled *ḅ* (*bāʿ mušaddada*) for Persian *p* (ʿ*Asbāb* 16,15). In certain instances doubling indicates velarisation (see discussion in Section 3.6.1). Doubling also serves to indicate a fricative pronunciation, e.g., **kāšši** [keči] ‘goat’ (7<sup>r</sup>15); **ššūb** [čöp] ‘straw’ (6<sup>r</sup>15; also 5<sup>v</sup>15) (*Tuħfa* too refers to ‘doubling’ for indicating non-standard phonemes, see 3.6.1.3).

Doubling of voiceless consonants, on the other hand, indicates a voiced pronunciation, e.g., **kkāl** [gel] ‘come’ (20<sup>v</sup>10; 21<sup>r</sup>12), **kkāz** [gez] ‘walk’ (21<sup>r</sup>12) and **kkāt** [get] ‘go’ (20<sup>r</sup>10). (These words may be Oġuz which typically has voiced initial consonants).

A second method used in *Durra* to mark non-Arabic phonemes is scribbling a small consonant above or underneath a regular Arabic phoneme, instances of which are discussed in [č] and [p].

### 3.6.2.4 Summary

Out of the total of twelve phonemes whose descriptions are given above, seven [p, č, g, l, ž, ŋ, z] are also described as allophones in

<sup>95</sup> Em. for *ħā*ʿ.

Arabic.<sup>96</sup> For these phonemes the sources give, as expected, much the same, or in any case very similar descriptions (cf. 1.2.1). The remaining five, i.e. [v], 'dead ġ', velarised [ŋ], 'mixed [ħ]' and [ɟ], are foreign in the sense that they do not occur as Arabic allophones. Of these, 'dead ġ' and 'mixed ħ' are recognised as allophones that can also be expressed by means of a standard Arabic grapheme, or even more than one. The velarised ŋ, [ɟ] and [v] are entirely new. One possible way to analyse the two former ones is to regard them as variants of [ŋ] and [ɟ]. The sources, nevertheless, instead relate them to basic Arabic consonants.

For the Arab authors, there is a set of basic (*ʿaṣlī*) Arabic consonants each of which is associated with a given phonetic realisation. This phonetic realisation, much like our own definitions, is described in terms of the position of the tongue in the mouth, vis-à-vis the tooth and the palate. (In fact, there are two definitions; first, a prescriptive one, and second the ones that are based on the actual dialectal pronunciation, such as *ḍ* and *ẓ*; see discussion in 3.1.1.) The choice of the Uygur alphabet does not lead to different descriptions of non-Arabic phonemes. Kāšġarī describes all foreign phonemes in terms of Arabic phonemes.

As has been pointed out, in their descriptions of non-Arabic consonantal phonemes, the sources take one basic Arabic phoneme to which a particular characteristic of a second (and, occasionally a third) basic phoneme is added. This can be done in terms of a blend, or by positing the new phoneme between two (or more) basic ones. The characteristic of the added or blended second phoneme is often not named; the only terms used are *tafḥīm* (and *tarqīq*), *tašanšun* and *ġunna*. But in the majority of cases it is possible to do reconstruct the argumentation. For example, [p] consists of a (basic) [b] which is mixed with *f*. The aspect needed to derive [p] from [b] is 'voicelessness' (*tašanšun*, lit. 'crackling'), which is, in this case, supplied by *f*. An interpretation of the data is summarised below in table II:

<sup>96</sup> Although velarisation of r is often implied, it is nowhere described as such.

no.	phonetic value	basic con-sonant ( <i>tafḥīm</i> )	velari-sation ( <i>tašanṣun</i> )	voice-lessness	voiced-ness	nasality, reson-ance ( <i>gunna</i> )	sibil-ant	friction
2	p	b		f				
3	v	f			w			
7b	velar. d 1	d	t					
	2	t			d			
11b	velar. z	z	ʃ					
14	č	ġ		š				
15	ž	z					š	
18a	g 1	k				+		
	2	q			+			
18b	[g] 1	k			ġ			
	2	k	q		ġ	n		
	3	ç						ġ
20a	ŋ 1	k				n		
	2	n				+		
20b	velar. ŋ 1	ġ				n		
	2	n	ġ					
21b	velar. ħ 1	q						ġ
	2	q						ħ
	3	h						ħ

Table II Schematic description of mixing of consonants

### 3.6.3 Consonant assimilation

Consonant assimilation is a progressive feature in Turkic languages. This implies that the shape of the suffix changes depending on whether the final consonant of the verb or noun is voiced [+voiced] or voiceless [-voiced]. If it is voiceless, the initial consonant of the suffix is too. Similarly, if the word ends in a vowel or a voiced consonant, the first consonant of the suffix is voiced.

In Section 3.3 it is shown that most sources regard the distribution of palatal and velar suffixes as a phenomenon. Because in the opinion of the Arab grammarians (palatal - velar) vowel harmony is explicitly correlated with the qualities of the consonants, the form of the suffixes is influenced by both consonant assimilation and vowel harmony. One could say that to express both principles, ideally a type of extended consonant assimilation that matches two parameters is required. Palatal(ised) words ending in a voiceless consonant would get a suffix with an initial voiceless palatal consonant, whereas the suffix attached to a velar(ised) words ending in a voiced consonant would be both voiced and velar(ised). In this subsection it is pointed out for the past



tense suffix DI that these principles are only partially observed by the Arab grammarians. (3.6.3)

An important principle with regard to consonant assimilation in Arabic is *'ibdāl* 'substitution' (see Section 2.2). Although the term *'ibdāl* stands for a qualitative change in the pronunciation of a consonant, e.g., [ʃ] as [s], or [d] as [t] (which may occur phonetically conditioned, or else as a dialectal variant), in Arabic grammar it is defined in phonological terms, and interpreted as substitution of one consonant by another.

In regard to Turkic the grammarians hold similar principles, and it shall be seen that in the discussion of the consonant assimilation the notions 'substitution' (*'ibdāl*) or 'transformation' (*qalb*) of one consonant into the other play an important role. Research on Arabic linguistic theory traditionally relates voiceless and voiced to the terms *mahmūsa* and *mağhūra*, respectively. Contrary to what one would expect, though, the sources do not use these terms at all in relation to consonant assimilation in Turkic.

### 3.6.3.2 An instance of consonant assimilation: the past tense suffix -DI

A very frequently occurring suffix which is subject to consonant assimilation is the one used for the past tense DI (which in modern Turkic languages stands for *di*, *dī*, *dü*, *du* and *ti*, *tī*, *tu* and *tü*, respectively). After vowels and voiced consonants, DI is realised as [di], e.g., **suzla-dī** 'he spoke', **kir-dī** 'he entered', while

"this **d** is substituted by **t** because the place of articulation is close. You say **tāp-tī** ['he found'], **qāč-tī** ['he fled'], **sūk-tī** ['he tore apart'], **sīq-tī** ['he squeezed'] and it changes into **t** in order to protection against heaviness in speech." (*tubdal hādīhi d-dāl tā'an li-qurb al-mağrağ taqūl tābtī wa-qāğtī, wa-sūktī wa-sīqtī wa-tudgam fi t-tā' ittiqā'an li-tiql al-kalām, Tuḥfa 52'13.*)<sup>97</sup>

Although the rule appears to be sound and familiar, it is not entirely what one would have expected. The *mağrağ* 'place of articulation' in this context does not signify the places of articulation of **p**, **č**, **q** and **k** on the one hand, and **t** on the other, are meant, since they cannot be considered quite close, but most likely those of **d** and **t**. The phenomenon, thus, is not brought in direct relation with the preceding consonant.

<sup>97</sup> In these verbs **b** is interpreted as **p**.

Kāšġari's account, though, is quite to the point, and I quote him in full:

“Know that the past tense is bound [to be indicated] by means of **d** and **y** [i.e. **dī**] in all words. There is no exception to [this rule] except that the **d** changes into **t** [i.e. **tī**] when it is accompanied by the consonants of firmness because of the tightness of their place of articulation. The consonants of firmness in this language are four, the firm **p**, **t**, the firm **č** and the firm **k**... The **d** is changed into **t** because of the firmness of the [respective] places of articulation of these consonants... even though the base [of the suffix] is **d**, it is preferable to pronounce it as **t**.” (*wa-ʿlam bi-ʿanna l-māḏī muqayyad bi-d-dāl wa-l-yāʿ fi ġamīʿ l-ʿafʿāl faqaṭ lā yataġayyar ʿanhā ʿillā ʿanna d-dāl ʿidā ṣahibat ḥurūf aṣ-ṣalāba tanqalibu tāʿan li-šiddat al-maḥraġ. wa-ḥurūf aṣ-ṣalāba fi hādīhi l-luġa ʿarbaʿa wa-hiya l-pāʿ aṣ-ṣulba wa-t-tāʿ wa-l-ġīm aṣ-ṣulba, wa-l-kāf aṣ-ṣulba... ʿinnamā ġuʿilat ad-dāl tāʿan li-ṣalābat maḥāriġ hādīhi l-ḥurūf... wa-l-ʿaṣl fihā d-dāl wa-n-nuṭq bi-t-tāʿ aṣṣaḥ, Dīwān 281,14-16 and 282,4; similar statement to this effect on 266,4.)*

Examples with which he illustrates his statement are, e.g., **tap-tī** [tep] ‘to kick’, **tut-tī** ‘to hold’, **qač-tī** ‘to flee’, **baq-tī** ‘to look at’.<sup>98</sup> It is of great significance that Kāšġari here introduces a new category, i.e. the *ḥurūf aṣ-ṣalāba*, the ‘voiceless consonants’, rather than using the term *mahmūsa* which in Western studies is traditionally translated as ‘voiceless’. Kāšġari however does not mention [s, š] and [q].

Further three sources give no clues in regard to the principles of consonant assimilation, in spite of mentioning it as a phenomenon. In *ʿIdrāk* (114,6), for example, ʿAbū Ḥayyān regards the different forms of DI as substitution (*ʿibdāl*) of consonants, i.e. change of **d** into **t** and **ṭ**, respectively, i.e. as a secondary prosodic feature, without explaining the underlying principles. Some examples given elsewhere in *ʿIdrāk* are **ʿurt-tī** ‘he covered’ (*ʿIdrāk* 110,18); **kas-tī** and **bič-tī** both ‘he cut’ (*ʿIdrāk* 109,10) (Examples with **ṭ** are discussed below 3.6.3.3).<sup>99</sup> In

<sup>98</sup> In another instance (*Dīwān* 354,4ff) the alternation of the causative suffix DIR is noted, **tal-tur-** ~ **tal-dur-** ‘make (someone) pierce (a wall)’. This instance of alternation is compared to the non-conditioned change of *t~d* in the Arabic verb *qadara* ‘he decreed’ - *qatara* ‘he was miserly’ (Qurʿān 65/7 and 89/16). In regard to DIR, it seems that Kāšġari considers **tur** as the basic form of the causative suffix, and that he does not relate the change to phonetic conditions. Another likely explanation is that here is a difference between dialects; it may well be that Kāšġari’s Ḥāqānī Turkic did not observe consonant assimilation in this suffix.

<sup>99</sup> A similar alternation between the voiced and voiceless shapes of the suffix occurs in the causative suffix DIR, which in *ʿIdrāk* is also considered an instance of substitution (*ʿibdāl*) of a base from **-dur** with a secondary form **-tur**: **ʿiṣit-dur-dī** vs **ʿiṣit-tur-dī** ‘he made listen’ (*ʿIdrāk* 116, 19).

*Šudūr* consonant assimilation is only very marginally observed; in some instances, when the verbal stem ends in **t**, consonant assimilation is indicated with a *šadda* (◌̣), which indicates that the **d** of the suffix assimilates with the preceding **t**, e.g., *kat-dī* [ketti] ‘he went’; *’išit-dī* [išitti] ‘he heard’ (10<sup>v</sup>-11<sup>r</sup>). In all other instances, the default *-dī* is used. The same can be said of *Hilya* in which the principles of consonant assimilation are observed only occasionally, e.g., *’āč-dī* - *’āč-tī* ‘he opened’; *baq-dī* - *baq-tī* ‘he looked’ (79,14).

### 3.6.3.3 Extended consonant assimilation

The extended consonant assimilation requires that a stem ending in a voiceless consonant gets a voiceless suffix, while also agreeing in front and back quality (cf. 3.3.1). These two parameters yield four positions for the suffixes *Dī* and *Gīl*, respectively

	voiced	voiceless
back	<b>dī</b> / <b>ḡil</b>	<b>tī</b> / <b>qil</b>
front	<b>dī</b> / <b>ḵil</b>	<b>tī</b> / <b>kil</b> <sup>100</sup>

As far as *Gīl* is concerned, none of the sources are all four of these explicitly described at the same time. *’Idrāk*, for example, only has a basic set of two, i.e. a palatal and a velar form. In *Qawānīn* three are described, two of which are attached to velar words. However, the form of the suffix is related to the type of velar or velarised consonant that occurs *in* the word:

“The corroboration [of the imperative] consists of the addition of the word **qil**, i.e. a **q** vocalised with **i** and a silent **l**, if the verb contains one of the consonants of elevation. If it contains a consonant that resembles those, then change the **q** into a **ḡ** [i.e. **ḡil**] and if there is nothing of this [type] in the verb, then change the **q** into a **ḵ**<sup>101</sup> [i.e. **ḵil**].” (*wa-tawkīduhu bi-’an yuzād [sic] ’alayhi lafza qil wa-hiya qāf maksūra wa-lām sākina ’in kāna fi l-fi’l ḥarf min ḥurūf al-isti’lā’*. *wa-’in kāna fihi ḥarf min šibhihā fa-’abdīl al-qāf ḡaynan*. *wa-’in lam yakun fi l-fi’l šay’ minhā fa-’abdīl al-qāf kāfan*, *Qawānīn* 8,9f; similar statements on 11,21; 12,9; MG 44<sup>l</sup>t; 44<sup>v</sup>bm; cf. 3.1.6.3.)

<sup>100</sup> In fact, the ideal suffix should have eight forms, depending on a third parameter, i.e. [+/- rounded vowel]—which is dealt with in section 3.3.2.2—viz.,

	voiced	voiceless
	rounded/unrounded	rounded/unrounded
back	<b>ḡul</b> / <b>ḡil</b>	<b>qul</b> / <b>qil</b>
front	<b>ḵul</b> / <b>ḵil</b>	<b>kul</b> / <b>kil</b>

<sup>101</sup> Elsewhere in *Qawānīn* described as [g].

It is not clear to what extent the principle explained in the quotation really holds. One would rather say, as shown in the scheme above, that the attachment of **ġil** or **qil** depends on whether the last consonant of the stem is voiced or voiceless, rather than on the occurrence of a velarised consonant *in* the stem.

But let us see where the text leads us to if we nevertheless interpret this statement as referring to the final consonant of the stem. Then, the author of *Qawānīn* in the first place says that all elevated consonants—which for the Turkic in his concept cover **ş**, **ţ**, **đ**, **q**, **h** and **ġ**—require **qil**. In the second place, **ġil** follows after “the consonants that resemble those”—which refers to at least, velarised **r**, **l**, and **z**, and, in practice any velarised neutral consonant, including velarised <sup>ʾ</sup>*alif* /\_/ . The third rule collects the rest; palatal words simply take **kil**. In regard to the first rule: includes **đ** and **ġ** that are both voiced and not likely to take a voiceless suffix. For the latter there is no mention of a possibility to choose between **kil** [ġil] and **kil**, and about conditions that could be phrased similar to those of **ġ** (discussion continued below). (A similar, incomplete tripartite division recurs in *Tuḥfa* [53<sup>v</sup>8] for the future tense suffix **qāy/ġāy** versus **kāy**.) In <sup>ʾ</sup>*Idrāk*, there are only two basic forms, i.e. **ġil** and **kil**. These incomplete representations occur in spite of the fact that [g] is well described and listed as a basic consonant. Apparently, when it comes to suffixes, the shift [k - g] is a mere prosodic feature, which cannot be reflected in orthography and therefore is not worthy of explicit mention.

In regard to DI, depending on which set of emphatic consonants the respective sources take, most sources should be able to show at least three different suffixes in orthography. Only one, i.e. the voiced velarised position (which is only used in *Qawānīn*; cf. 3.6.3.4) should then be indicated with a label.

On this position, indeed, generally (neutral) **đ** is used, viz., <sup>ʾ</sup>**al-dī** [a] ‘he took’ (134,3); <sup>ʾ</sup>**ur-ul-dī** [uṛu-] ‘he was beaten’ (134,9) and **ṭur-dī** ‘he stood up’ (<sup>ʾ</sup>*Idrāk* 121,17; with vowel harmony 111,13). In one instance, however, <sup>ʾ</sup>*Idrāk* has **ţ**, i.e., **ṭur-ṭu-q** ‘we stood up’ (153,20). As far as I could check, in no instance **đ** is labelled as ‘velarised’. Only one source, i.e. *Qawānīn* apparently observes the extended consonant assimilation (discussed below in next subsection).

In regard to the voiceless velarised position, <sup>ʾ</sup>Abū Ḥayyān writes,

“The **t** is substituted by a **ţ**; they say **ṭuṭ-ṭī** [‘he held’]; its base form is **ṭuṭ-tī**.” (*tubdal* [at-tā] ṭāʾan qālū **ṭuṭ-ṭī** ʾaṣluhu **ṭuṭ-tī**, <sup>ʾ</sup>*Idrāk* 117,2.)

Further examples are **baq-ṭi-m** 'I looked' (139,11) and **ṣaṭ-ṭim** 'I sold' (*ʿIdrāk* 117,19). This form of consonant assimilation is also observed occasionally in the ablative case ending *DAn*, where the base form (*ʿaṣl*) is **d**-; "**d** is substituted for **ṭ**, and subsequently assimilates with [preceding] **ṭ**." *ʿubdilāt ad-dāl ṭāʿan wa-ʿudġimat fi ṭ-ṭāʿ*, *ʿIdrāk* 143,6.)

Nevertheless, although we have seen that the appropriate instruments are available, the principles of the extended consonant assimilation are far from being systematically observed in the sources, even where this is possible in regard to the available orthographic tools. After the final voiceless consonant of a velarised verb sometimes **-t** occurs on the voiceless velarised position, e.g., **ṣanġiš-tī** 'he battled (with someone)', but more often **-d**, **ṣanġ-dī** [*sanč-*] 'he stabbed' (111,3) and **ʿaq-dī** [*aq-*] 'he flowed' (*ʿIdrāk* 17), which is the 'base form' of the suffix.

#### 3.6.3.4 A closer look at consonant assimilation in *Qawānīn*

Only in *Qawānīn* the extended consonant assimilation is apparently structurally and fully maintained in orthography. However, here the regular equivalents of the terms 'voiceless' and 'voiced' are not used either. The distribution of the four markers of the past tense, i.e., **tī**, **dī**, **ḏī** and **ṭī**, runs according to four rules that are summarised as follows, viz.,

- 1 If the final consonant of the stem is an unvocalised **b** [*p*], **t**, **ġ** [*č*], **s**, **k**, **š** or **q**, then the marker of the past tense is **tī**. Several examples of each instance are given, for example, **tap-tī** [*tep-ti*] 'he kicked', **ʿup-tī** 'he kissed', **baq-tī** [*baqtī*] 'he looked', **buk-tī** 'he bent'. Note that here **b** and **ġ** are to be interpreted as voiceless, since words cannot end in **-b/-ġ**. Furthermore, the consonants mentioned here are exactly those which *Kāšġarī* calls *ḥurūf aṣ-ṣalāba*, i.e. the consonants after which the suffix has **t**- (see above 3.6.3.2).
- 2 If the final consonant is **d**, **r**, **z** or **l** (non-velarised), **n**, **y**, or if the last consonant is vocalised, the marker of the past tense is **dī**.<sup>102</sup> Examples, e.g., **kir-dī** 'he entered', **kal-dī** 'he came', **min-dī** 'to mount'.

<sup>102</sup> Here **m** is not listed, which may be an error. On the other hand, no examples with a verbal stem ending in **-m** are given, and the author of *Qawānīn* may have assumed that there are no Turkic verbs ending in **-m**. In fact, of the few verbs ending in **-m**, *Qawānīn* gives only one, i.e., **kum** 'bury!' (76,1).

Some of the verbs given, one with **-d**, e.g., **'izda-dī** 'he sought', and **-y**, viz., **ya-dī** 'he ate' end in a vowel; for this reason they can hardly serve as appropriate examples. Furthermore, **bar-dī** 'he went' and **'ur-dī** 'he beat' are given here, although they are characterised as 'velarised' elsewhere (22,15; 22,16; 8,16). In these instances one would therefore expect **-dī** instead.

- 3 If the final consonant is **z**, **r**, **l** (velarised), or **ġ**, then the marker of the past tense is **dī**. Some of the examples given are, e.g., **yaz-dī** 'he wrote', **'al-dī** 'he took'. To these he adds **w**, exemplifying with **yū-dī** /yuw-dī/ 'he washed'.
- 4 If the final consonant of the verb is **ṣ** or **ṭ**, the marker of the past tense is **ṭī**, e.g., **yuṭ-ṭī** 'he swallowed', **'aṣ-ṭī** 'he hung', and **quṣ-ṭī** 'he vomited'.<sup>103</sup>

Close examination of the rules themselves shows that they do not account for the occurrence of **ṭī** after neutral consonants, such as [p], [č] and [š] in back words, such as **-ṭ** in **ṭap-ṭī** [tap-tī] 'he found' (10,10).<sup>104</sup> This is, however, acknowledged by the author, and he gives a partial solution:

"The marker of the past tense in this word is **ṭ**, even though the final consonant of the verb is not one of [the consonants] I mentioned; [I refer to the first] **ṭ** which is meant as if it were the last consonant [of the stem]. [The **ṭ**] is a consonant of elevation, the **b** is a single consonant, not vocalised; a single unvocalised consonant is not considered an insuperable border. Therefore a marker of the same kind [i.e. a velarised consonant] is used according to the principle of the last [i.e. 4], with the intention of agreement and alleviation." (*fa-'inna 'alāma l-maḍiy fihā ṭā' wa-laysa 'āhir al-fi' l šay'an mim mā dakartu qultu [?] aṭ-ṭā' hunā bi-ma'nā al-'āhir wa-hiya min ḥurūf al-'isti'lā' wa-l-bā' ḥarf wāhid sākin wa-laysa l-ḥarf al-wāhid as-sākin bi-ḥāḡiz ḥaṣīn fa-ḡī'a bi-l-'alāma min ḡinsihā li-kawnihā fi ḥukm al-'āhir li-qāṣd al-munāsaba wa-t-tahfif, Qawānīn 10,10ff.)*

In other words, the effect of the initial **ṭ** reaches to the end of the word, without being hindered by **b** [p] and makes **-ṭī** acceptable. Even though he alludes to the velarising effect of the initial **ṭ**, he does not refer to the voicelessness of the final [p]. Note, furthermore, that the au-

<sup>103</sup> In neither one of these cases, the labial vowel harmony, [o/u ~ u] and [ö/ü ~ ü], is observed.

<sup>104</sup> The rules do not predict a voiced velarised suffix in back verbs ending in **n** or **y** either.

thor does not really amend his rules in order to give a more general and fuller coverage of all possible suffixes; he merely gives an addition, which has the appearance of an improvisation for a specific case.

The four rules still do not account for the ending of *'anla-dī* 'he understood' (29,6) and other verbal stems that end in a vowel. To complicate matters further, a number of verbs that end in a vowel are separately inserted between the rules, e.g., *'uqu-dī* 'he read' (9,14)<sup>105</sup>, *tuša-dī* [töše] 'he spread out' (9,11), two of them are actually presented as regular examples of verbs ending in -d, viz., *'izda-dī* 'he sought' and *'anda-dī* 'he called' (9,17), and one as a verb ending in -y, i.e. *ya-dī* 'he ate' (10,1).

In sum, even though the four rules constitute a fair starting point for the determination of the appropriate suffixes, they do not give a real insight into the underlying distributional principles; i.e. they have no full explicative and predicative value. The inclusion of verbs ending in vowels indicate that even *Qawānīn*'s author in fact does not in all instances relate the form of the suffix to the final consonant of the verbal stem, nor does he its velarity or palatality take into account.

### 3.6.3.5 Summary

My conclusion with regard to consonant assimilation is that in the source not all rules of the ideal extended consonant assimilation are observed. In one source, i.e. *Qawānīn*, consonant assimilation is based on a set of four potential markers whose distribution does not—as one would expect—depend on general Arabic principles that are interpreted as equivalent to voiced - voiceless and palatal(ised) - velar(ised). Except *Qawānīn*, the sources take *dī* as the base form from which the others are derived.

The sources in general deviate from the Arabic practice in the sense that, even though they are in most cases incomplete, their reflections of Turkic are probably closer to the phonetic reality than written Arabic usually is. They take pains to express a prosodic feature which as a rule is only marginally observed in Arabic orthography.

## 4. CONCLUSIONS

The differences between the sources in their enumeration of basic, secondary and tertiary consonants, the way they described them depends on two factors. The first is their factual perception of a given

<sup>105</sup> But cf. *ṭ* in *'uqu-ṭ* 'make read!' (69,10).

sound, and each author's subsequent choice of relating the new sound to his own concepts of the Arabic phonemes and allophones. The speech sounds one perceives as meaningful are, of course, related to one's concept of what type of sounds are likely to be meaningful. The second is the importance or the status the author assigns to the phoneme. In other words, is a given sound considered a phoneme, i.e. a meaningful sound that has to be indicated throughout, or is it regarded it as a mere allophone that occurs as a prosodic feature, perhaps worthy of signalling and describing as an isolated phenomenon, but nothing more.

In relation to these three factors we can say in the first place that the Arab authors did indeed perceive all meaningful phonemes of Turkic, vowels and consonants alike, and even describe sounds that are considered allophones in Western descriptions of Turkic, e.g., [h]. In this respect there are three types of Turkic phonemes. The first type are those that are identical with existing Arabic sounds, e.g., [k, q, z, m, etc.]. Second, there are phonemes that can be described in terms of a non-standard, e.g., [p, č, g, z, l, r], or dialectal pronunciation of Arabic sounds, e.g. [d, z]. This class includes neutral consonants that are labelled in passing as 'velarised', e.g., *hamza*, d, t, etc.. The third type are foreign phonemes for which new descriptions have to be invented, in terms of the basic Arabic phonemes, not as elaborations of the allophones. These phonemes and allophones are not necessarily identical with those posited for Turkic in Western analysis, such as [ɟ]. In relation to the second factor we can state that the status attributed to a given phoneme is determined by whether it can be correlated with an existing Arabic phoneme. This is evident in the only partial observation of most non-standard phonemes in the texts, e.g., [p, č, g], and the incomplete reflection of vowel harmony and consonant harmony in suffixes.

Vowel harmony is reflected only inasmuch as it involves a change that can be expressed by choosing another consonant. Furthermore, it appears that the sources did not have a real concept of voiced vs voiceless to which they could relate the distribution of the suffixes. In regard to the non-Arabic vowel phonemes, such as [ö, o], it is evident that although they were occasionally indicated by means of labels, they are not systematically described.

The differences that arise as a result of taking the Uygur alphabet as basic (Kāšgārī) on the one hand, and the Arabic alphabet on the other are obvious. However, the choice for the Arabic alphabet does not automatically lead to the same solutions for expressing certain Turkic



sounds. The authors apparently had various concepts of a number of Arabic phonemes, e.g., [ɖ, ʒ] that do not match the prescriptions in the Arabic sources. Here they most likely base themselves on dialectal pronunciations instead.

phon. value	Hilya	Dfwan	Idrak	Qawānīn	Targumān	Ṣudūr // Bulḡa	Tuḥfa
1 [b]	B bā'	B bā' (ṣaḥīḥa)	bā' ḥāliṣa	B bā' ḥāliṣa			bā'
2 [p]	S bā' mufahhama ka- annaka tarfaḥu bi-hā min ḥarīḡ as-ṣafatayn	S bā' ṣulba	bā' maṣūba	B/S bā' maṣūba bi- fā' muṣannana	S bā' mufahhama bayn al-bā' wa-l-fā'	pā' fārisiyya bayna bā' wa-fā'	S bā' maṣūba bi-l- fā'
3 [v]	S 1 fā' muṣamma 'ilā l- wāw S 2. fā' mufahhama	B 1. fā' (rakika) 2. bayna maḥraḡ al- fā' al-'arabiyya wal- bā' as-saḥiḥa					
4 [f]	S fā'	S fā' 'arabiyya					
5 [m]	B mīm	B mīm	mīm	B mīm			mīm
6 [w]	wāw	B wāw	wāw	B wāw			wāw
7a [d]	dāl		dāl	B dāl			
7b velar. d				B dāl	P dāl muṣamma bi- t-tā'	// B dāl farqahā tā' yunītaq baynahumā	tā'
8a [t]	tā'	B tā'	tā'	B tā'			tā'
8b velar. t	B 1 tā' P 2 tā' mufahhama		tā'	B tā'			tā'
9 [d]	dāl	B dāl	P dāl in Bulḡar (9)				
11a [z]	zāy	B zāy	zāy	B zāy ḥāliṣa			zāy
11b velar. z				B zāy maṣūba bi-ṣ- ṣād	S zāy mufahhama, tuṣbiḥ talaffuz nabat 'ahl as-ṣa' d bi-ḡ- dād		
12a [s]	ṣāḍ	B ṣāḍ	ṣāḍ	B ṣāḍ			ṣāḍ
12b velar. [s]	ṣād		ṣād	B ṣād			ṣād
13 [ḡ]	ḡīm	S ḡīm 'arabiyya	ḡīm ḥāliṣa	B ḡīm ḥāliṣa			ḡīm

phon. value	Hilya	Diwān	ʾIdrāk	Qawānīn	Tarḡumān	Šuḍūr // Bulḡa	Tuḥfa
14 [č]	1 ġīm mušamma ʾilā šīn S 2 ġīm mufaḥḥama	čīm	ġīm mašūba	S 1 ġīm mašūba bi-š- šīn B 2 ġīm mušansana	S ġīm mufaḥḥama bayn as-šīn wa-l- ġīm, tušbih talaffuḡ nabat bilād baʿalbakk bi-l-ġīm	čīm fārsiyya bayna l-ġīm wa- š-šīn	ġīm mašūba bi-š-šīn
15 [ž]	S 1 žāʾ... bayna maḥ- rağ al-ġīm wa-š-šīn S 2 zāy mufaḥḥama, tušbih talaffuḡ nabat ʾahl as-ša ʾid bi-đ-dād	S zāy mutawallida bayna maḥrağay az- zāy wa-š-šīn					
16 [š]	šīn	B šīn	šīn	(B šīn)			šīn
17 [y]	yāʾ	B yāʾ	yāʾ	(B yāʾ)			yāʾ
18a [g]	S 1 kāf kamā yanṯuqu l-badawī bi- ʾaqqi l-qāf P 2 kāf mayyita (dāʾiba)	S 1 kāf rakika 2 kāf mutawallida bayn al-kāf wa-l-qāf	kāf badawiyya	B kāf badawiyya (ma qūda)	S 1 kāf mutawallida bayn maḥrağay l-qāf wa-l-kāf P 2 wa-kāf ka-qāf al-ʾarab al-ma qūda	B kāf ʾağamiyya	S kāf ma qūda
18b [c]	P kāf mušamma ʾilā l- ğayn	kāf al-ğunna mutawallida bayna l-ğayn wa-l-qāf wa- n-nūn wa-l-qāf		B ʾayn bayna l-ʾayn wa-l-ğayn al- mu ʾama	P kāf bayna l-ğayn wa-l-kāf muğannana, maḥrağuhā min al- ḥayšūm		
19 [k]	kāf	B 1 kāf šāḥiha B 2 kāf sulba	kāf ḥāliša	B kāf ḥāliša			kāf
20a [t]	P kāf mayyita mudaggama bi-n-nūn	P al-ḥarf al-ḥayšūmī	nūn ḥayšūmiyya	B 1 nūn ḥayšūmiyya S 2 nūn mağnūna wa-hiya lafi taḥruğ min al-ḥayšūm	P nūn jiḥā šayʾ min al-ğunna, maḥ- rağuhā min sağf al- ḥalq ʾilā raʾs al-ʾanf		S nūn ḥayšūmiyya
20b velar. [t]	P nūn nuṯiqat... mušamma ʾilā l-ğayn (77)			P ɣayn mağnūna			

phon. value	Hilya	Dīwān	ʾIḍrāk	Qawānīn	Tarḡumān	Ṣuḡūr // Bulḡa	Tuḥfa
21a [q]	B -qāf-	B qāf	qāf	B qāf			qāf
21b [h] allophone of [q]				P 1 qāf mašūba bi- ḡayn mu ḡama P 2 qāf bayna l-ḡayn wa-l-qāf wa-hiya ʾaqrab ilā l-qāf P 3 qāf bayna l-qāf wa-l-hāʾ P 4 hāʾ mašūba bi- hāʾ			
22a [ḡ]	B ḡayn	S ḡayn	ḡayn				ḡayn
22b [w] all. of [ḡ]	P ḡayn maʾyrita (dāʾ-iba)						
23 [ḥ]	B ḥāʾ	B ḥāʾ		B ḥāʾ			
24 [n]	B nūn	B nūn	nūn ḥālisa	B nūn ḥālisa			nūn
25a [l]	B lām	B lām	lām	B lām ḥālisa			lām
25b velar l	P lām mufahhama			B lām mufahhama	S lām mufahhama	lām mufahhama	
26a [r]	B rāʾ	B rāʾ	rāʾ	B rāʾ			rāʾ
26b velar. r				P rāʾ mufahhama			
27 [h]	B ḥāʾ						ḥāʾ
28a [ʾ]	B ʾalif (=hamza)	B hamza-alif	hamza	B hamza			ʾalif - hamza
28b velar. [ʾ]		P taʾtīm al-hamza		P hamza mufahhama			
Total	31	28	24	32			22

Appendix to Chapter Three: an overview of the descriptions of consonantal phonemes

## CHAPTER FOUR CASES AND MARKERS

### INTRODUCTION

This chapter is meant as an introduction to Chapters Five and Six and deals with two main subjects. In Section A it discusses the concept of case in Arabic linguistic theory, and, second, some typological characteristics of case in Arabic and Turkic which may have formed the base for this concept. In addition, some preliminary statements are made in regard to the suitability of Arab grammarians' approach to language, especially as far as their method of morphological segmentation concerned.

In Section B this chapter gives an account of the way the sources apply the Arabic terms *kalīma* and *lafza* to Turkic, and the various means for expressing synonymy between Turkic and Arabic.

#### PART A 1. ʿALĀMA AND ʾĪRĀB

In *Tuhfa* the author proclaims: "They [sc. the Turks] do not have anything like ʾĪrāb in their speech" (*laysa fī kalāmihim šayʾ min al-ʾĪrāb*, 50<sup>v</sup>13; another remark to this effect is found in Ibn Fāris' *Šāhibī*, 161,12). If we accept ʾĪrāb as the Arabic term for 'declension' or 'case', this statement seems to contradict the communis opinio, for Turkic languages do have a system of case endings, at least in the Western understanding of case. How, then, can we explain this remark?

In this section we intend to show in detail how cases are defined by the Arab grammarians themselves, and point to the differences and similarities with the Western traditional conception of case. We shall elucidate some of the terms that play an important role in their discussion of the Turkic case system and discuss especially the terms ʿalāma 'marker' and ʾĪrāb 'declension'. These terms are closely connected, for, as we shall see, ʾĪrāb is regarded as a coherent set of ʿalāmāt.

In Arabic treatises the term ʿalāma 'marker' (pl. ʿalāmāt) is applied to various morphemes, whose common characteristic is the fact that

they do not govern. I wish to stress that in this context the notion of governor should not be interpreted as being identical with that in Generative Linguistics, but rather as a similar notion (see Section 1.2 for further discussion of *‘āmil*).

Although the Arab grammarians themselves do not specify this as such, it is possible to discern two categories of *‘alāmāt*. In the first place there is a category of markers that indicate a change in the meaning of the word, without the presence of a governor (*‘āmil*) in either the surface structure (*lafẓ*) or the underlying structure (*taqdīr*). The second category comprises markers that are caused by a governor (*‘āmil*). This second category of markers coincides with the Arabic concept of *‘i‘rāb*. This is worked out in more detail below.

### 1.1 *Markers without a governor*

The first category of markers comprises elements that occur to indicate a certain meaning, without a governor (*‘āmil*) being implied. In other words, an *‘alāma* of this type is a marker for a certain meaning; it has an inherent semantic load.

To this group, for example, belong the so-called *tā’ marbūṭa* ‘the connected *t*’ that serves to differentiate between feminine and masculine adjectives and nouns. This *t*, or rather the suffix *at*, is added to a masculine adjective or a noun. The case ending of the word follows after the *t*. Thus, *malik-un* ‘king’ is changed into *malik-at-un* ‘queen’, *ḡamīl-un* ‘beautiful’ (m) *ḡamīl-at-un* ‘beautiful’ (f) and *dārib-un* ‘(the) beating one (m)’ vs. *dārib-at-un* ‘(the) beating one (f)’. The Arab grammarians call this *t* more specifically *‘alāma at-ta’niṭ* ‘marker of the feminine’ (*Irtiṣāf* I 293).

Another *‘alāma at-ta’niṭ*, with the same status, is the *t* in the perfect verb, such as in (1). The verb *ḡaraba-t*, therefore, contains an agent, albeit not the *t*, but one hidden in the verb itself:

1	<i>ḡaraba-t</i>	<i>zayd-an</i>
	beat/PAST -f/3sg	zayd-ACC
	‘She beat Zayd.’	

Contrary to what one would expect, in Arabic theory the final *t* is not the agent (*fā‘il*) of the verb *ḡāma-t* in (1). The reason for this is the fact that an agent, e.g., *hind* can be inserted, viz.,

2	<i>ḡaraba-t</i>	<i>hind-un</i>	<i>zayd-an</i>
	beat/PAST -f/3sg	hind-NOM	zayd-ACC
	‘Hind beat Zayd.’		

If the *t* represented the agent too, the verb would have two agents, i.e. *hind* and *t*, which is impossible. As a consequence, the *t* can merely have the status of an *‘alāma*. Because this *t* remains vowelless, it is called *tā’ sākina* ‘silent *t*’. Širbīnī gives the following explanation:

“The *t* is the marker of the feminine; the pronoun hidden in it [sc. the verb] with the implicit meaning of *hiya* [‘she’] is an agent on the syntactic position of the *raf<sup>c</sup>* because of the preceding verb and it does not exhibit declension” (*at-tā’ ‘alāma li-t-ta’niṭ wa-ḏ-ḏamīr al-mustatīr fihi al-muqaddar fihi bi-hiya fā’il fi maḥall ar-raf<sup>c</sup> bi-l-fi’l alladī qablahu lā yazharu fihi ‘i’rāb*, Širbīnī 162).

In this case the agent of the verb *ḏaraba-t* is ‘hidden’, just like the pronoun of the agent is ‘hidden’ in *ḏaraba zayd-an* ‘he hit Zayd’. In other words, the *t* in the verb *ḏaraba-t* ‘she beat’ is the *‘alāma at-ta’niṭ* ‘marker of the feminine’, but it is not the agent, for the agent of the sentence is *mustatīr*, ‘hidden’, in the verb. For the Arab grammarians the fact that the *tā’ marbūṭa* is added to nouns and the *tā’ at-ta’niṭ* to verbs is not significant. For them it is basically a single morpheme that is applied to both verbs and nouns.

The *w* in the verbal form *katabū* /*katabuw*/, on the other hand, is not an *‘alāma* but the agent (*fā’il*) of the verb in sentences like *ḏarabū zayd-an* ‘they beat Zayd’:

“...*ḏaraba* ‘struck’, spelled with *a* after the *ḏ*, is a past tense verb, and *ū* [/uw/] ‘they’ (m) is an agent on the syntactic position of *raf<sup>c</sup>* through the preceding verb and does not exhibit declension.” (*fa-ḏaraba bi-fath aḏ-ḏād fi’l māḏīn wa-l-wāw fā’il fi maḥall raf<sup>c</sup> bi-l-fi’l alladī qablahu lā yazharu fihi ‘i’rāb*, Širbīnī 162.)

The basic reason for this argumentation is that Arabic sentences typically start with a verb. If the agent is a plural noun the verb agrees in gender, but not in number, e.g., *ḏaraba l-mu‘allimūna zaydan* ‘the teachers beat Zayd’, but not \**ḏarabū l-mu‘allimūna zaydan*. If the agent is a pronoun, the number of the agent is expressed in the verb, e.g., *ḏarabū zaydan* ‘they beat Zayd’. According to the Arabic theory, the final *w* in /*ḏarabuw*/ *ḏarabū* is the agent on the position of the nominative (*raf<sup>c</sup>*), although it does not take the appropriate case ending.

Apart from the function of agent in some verbal forms, in nouns the *wāw* serves as the marker for the plural. In this case it is called *‘alāma ḡam<sup>c</sup> al-muḏakkār as-sālim* ‘marker of the sound masculine plural’. An example is *mu‘allim-ūna* /*mu‘allimūna*/ ‘teachers’, plural of *mu‘allim-un*. In other syntactic functions, such as *naṣb* and *ḡarr*,

the /w/ is replaced by a /y/, i.e. /iy/, viz., *mu<sup>ʿ</sup>allimāna* /mu<sup>ʿ</sup>allimiyna/. In the dual the <sup>ʿ</sup>*alif* /" / has a similar function (*Irtiṣāf* I 252): *mu<sup>ʿ</sup>allimāni* /mu<sup>ʿ</sup>allima"ni/. In these forms, the *wāw*, <sup>ʿ</sup>*alif* and *yā*, respectively, apparently combine two functions simultaneously, namely plural and declension (see Section 1.2 for further discussion).

### 1.2 Markers with a governor: <sup>ʿ</sup>*rāb*

The second category of <sup>ʿ</sup>*alāmāt* comprises the endings that are caused by a governor. In Arabic grammar this system of endings is called <sup>ʿ</sup>*rāb*.

#### 1.2.1 The assignment of declensional endings

The endings of <sup>ʿ</sup>*rāb* indicate the fact that the word is governed by an <sup>ʿ</sup>*āmīl* 'governor'. <sup>ʿ</sup>*rāb* becomes explicit in four endings: *u*, *i*, *a* and zero (*ḡazm*), the lack of any of these. Nouns and adjectives may get the endings *u*, *i* and *a*, and verbs may end in *u*, *a* or zero.<sup>1</sup>

The form and use of the endings of nouns is as follows:

3	<i>zayd-un</i> zayd-NOM 'Zayd is kind.'	<i>karīm-u-n</i> kind-NOM-INDEF
4	<i>kitāb-u</i> book-NOM/DEF 'Zayd's book.'	<i>zayd-in</i> zayd-GEN
5	<i>ḍarab-tu</i> beat/PAST-I 'I beat Zayd.'	<i>zayd-an</i> zayd-ACC

According to Western grammar the endings in *zayd* are equivalent with 'nominative', 'genitive', 'accusative', respectively.

Unlike the concept of case in western theory, <sup>ʿ</sup>*rāb* is not limited to nouns only; it also occurs in verbs in a specific verbal form (*muḍāriʿ*), which may end in *u*, *a* or *ḡazm* 'zero':

6	<i>ya-ḍrib-u</i> he-beat/IMPV-IND 'Zayd beats.'	<i>zayd-un</i> zayd-NOM
---	---	----------------------------

<sup>1</sup> In the analysis of Arab grammarians, the nunation, i.e. final *n* in indefinite nouns, e.g. *kitāb-u-n* (book-NOM-INDEF), is no part of <sup>ʿ</sup>*rāb* itself.



7	<i>kay</i> so that 'so that Zayd beats.'	<i>ya-ḍrib-a</i> he-beat/IMPF-SUBJ	<i>zayd-un</i> zayd-NOM
8	<i>lam</i> NEG 'Zayd did not beat.'	<i>ya-ḍrib-ø</i> he-beat/IMPF-APOC	<i>zayd-un</i> zayd-NOM

It is therefore difficult to find an English equivalent for  $\text{ʔi}^{\text{c}}\text{rāb}$  that covers this broad range. With regard to nouns  $\text{ʔi}^{\text{c}}\text{rāb}$  is usually translated in Western studies of Arabic with 'declension', and in the case of verbs 'mood' is often used.

A definition of  $\text{ʔi}^{\text{c}}\text{rāb}$  is given by 'Abū Ḥayyān:

" $\text{ʔi}^{\text{c}}\text{rāb}$  is a change at the last consonant of the word [because of a governor] which affects it, and the vowels are markers of  $\text{ʔi}^{\text{c}}\text{rāb}$  and an indication of it." (*al-ʔi<sup>c</sup>rāb huwa taḡyīr fī 'āḥīr al-kalima... [li-ʔāmil] daḥala 'alayhā nafsihā wa-l-ḥarakāt 'alāmāt al-ʔi<sup>c</sup>rāb wa-dalā'il 'alayhi, Irtišāf* I 413, 11.)

Western scholars equated these verbal endings with the Latin/Greek concepts of 'mood': 'indicative', 'subjunctive' and 'apococate', respectively.

A further main difference between the two conceptions is that in Western linguistic theory each of these forms has a different meaning, whereas the Arab grammarians concentrate on the morphological changes instead, the meaning residing in the particle that acts as a governor, thus causing the change.

In spite of their importance for indicating governance, the endings of  $\text{ʔi}^{\text{c}}\text{rāb}$  may be absent due to morphonological rules or in certain prosodic conditions. The word is supposed to show the effect of a governor, but does not do so. This does not imply a change in the relations of governance, which can be shown in the *taqḍīr*, the underlying level of the phrase. In the first place this includes nouns whose stem ends in one of the so-called 'weak' consonants, i.e. *w* and *y*. An example of this is the noun *qāḍīn* 'judge', having an ending in *-in* in both nominative and genitive (the accusative is 'regular': *qāḍīyan*). According to Arabic grammar its morphological structure is /qa<sup>n</sup>ḍiyun/ in the nominative, and /qa<sup>n</sup>ḍiyin/ in genitive, respectively, showing a regular ending in both cases (for an elaborate analysis of the Arabic theory of morphology and phonology, see Bohas 1982).

In the second place endings of  $\text{ʔi}^{\text{c}}\text{rāb}$  may be omitted under certain prosodic conditions. The Arab grammarians were well aware of this phenomenon which often occurs in normal speech, but is especially

frequent in poetry and readings of the Qur'ān. Ibn Ğinnī, for example, gives two occasions in which such a deletion may occur; as a pausal form (*waqf*) and in connected speech (*waṣl*):

“With regard to the pausal form, one may pause on every fully inflected noun which has nunation in the case of both *rafʿ* and *ğarr*; its *ʾiʿrāb* and nunation are deleted... if it is put in *naṣb* the nunation is substituted by an *ʾalif* [= *ā*].” (*fa-ʾammā l-waqf, fa-kull ism mutamakkin munawwan waqafta ʿalayhi fi rafʿihi ʾaw ġarrihi ḥadafta ʾiʿrābahu wa-tanwīnahu... fa-ʾin naṣabta ʾabdalta min tanwīnihi ʾalifan, Sirr Şināʿa* 518, 10ff; on this subject, see also Şirbīnī in Carter 1981:37.)

In a pausal form, *zayd-un* and *zayd-in* change to *zayd*, whereas *zayd-an* changes to *zayd-ā* (cf. *Mufaṣṣal* 162; Wright 1986 [1898] ii 368).

This type of deletion, however, is no indication of *ğazm*, for it concerns the deletion of an element from the surface structure; the deleted element subsists in the underlying structure (*taqḍīr*). Moreover, unlike *ğazm* in verbs, in these cases the absence of the ending of *ʾiʿrāb* is not caused by a governor.

When *ʾiʿrāb* is omitted from the surface, or when words have an ending that does not show *ʾiʿrāb*, word order may take over its function of distinguishing between, for example, agent and direct object. Ibn Ğinnī describes this phenomenon:

“...one may say ‘Yahyā hit Buṣrā’, but a distinguishing declension is not found in it, and likewise in similar expressions. [The answer is] when something like this happens, viz., that the case is not visible in the surface realisation, speech is subjected to what takes over the function of declension, namely preposing the agent and postponing the object.” (...*fa-qad taqūlu ɗaraba yahyā buṣrā, fa-lā tağidu hunāka ʾiʿrāban fāṣilan wa-kaḍālika naḥwahu. qīla: idā ttafaqa mā hāḍihi sabīluhu mim mā yahfi fi l-laḥz ḥāluhu, ʾalzama l-kalāma min taqḍīm al-fāʿil wa-taḥīr al-maḥʾūl mā yaqūmu maqām bayān al-ʾiʿrāb, Ḥaṣāʾiṣ* I 35,7ff.)

Ibn Ğinnī says here that the nouns *yahyā* and *buṣrā* both end in *ā*, and do not show the markers of declension, i.e., nominative for *yahyā* and accusative for *buṣrā*, respectively. For phonological reasons the case endings of /yahyayun/ and /buṣrayan/ are omitted, and they end in *ā*.

The fact that the endings of *ʾiʿrāb* may be omitted or fuse for phonological reasons does not lead to a change in the hierarchy of elements within the phrase; the respective functions of the elements remain the same, even though the relations of governance (*ʿamal*) are not visible in the surface structure.

## 1.2.2 Governance

The concepts of governance (*ʿamal*) and governor (*ʿāmil*) are indeed crucial for the understanding of *ʿiʿrāb*. An *ʿāmil* is any element, especially a verb (*fiʿl*) or a particle (*ḥarf*, pl. *ḥurūf*), that causes a morphological effect on another word. In terms of Arabic theory, though, the resulting ending is not part of the word's morphological structure but is part of the domain of syntax (*naḥw*). Some particles govern nouns only (e.g. *bi* 'with': *bi-s-sayf-i* 'with the sword', and *ʿinna*, a particle of topicalisation), whereas others only govern verbs (e.g., *kay* 'so that'). An example of a *ḥarf* governing a noun and causing it to take the ending *-a* is *ʿinna*:

9	<i>ʿinna</i>	<i>zayd-an</i>	<i>karīm-u-n</i>
	TOP	<i>zayd-ACC</i>	kind-NOM-INDEF
	'[topicalisation] Zayd is kind.'		

After *bi* the noun gets the ending *-i*, and after *ʿinna* it takes *-a*. A small number of *ḥurūf* may govern both verbs and nouns, causing verbs (in the *muḍāriʿ* form) to take the ending *-a* instead of *-u*. An example of a verb governed by a *ḥarf* is:

10	[ <i>daʿaw-tu</i>	<i>zayd-a-n</i>	<i>kay</i>	<i>ya-ḡīʿ-a</i>
	[called/PAST - 1 sg	<i>zayd-ACC</i> ]	so that	he-come/ IMPF-SUBJ
	'I called Zayd to come.'			

11	<i>lam</i>	<i>ya-ḍrib-ø</i>	<i>zayd-un (= 8)</i>
	NEG	he-beat/IMPF-APOC	<i>zayd-NOM</i>
	'Zayd did not beat.'		

The governor in question may be absent from the surface structure and reconstructed in the underlying structure (*taqdīr*) only. An example of such a governor in *taqdīr* occurs in the case of the genitive constructions. In early Arabic grammar (Sībawayh) it was accepted that nouns could govern other nouns. Thus the ending *-in* in *zayd-in* (12a) was explained in terms of governance by the preceding noun, *bayt-u* 'house':

12a	<i>bayt-u</i>	<i>zayd-in</i>
	house-NOM/DEF	<i>zayd-GEN</i>
	'Zayd's house'	

Later grammarians, however, had developed a different analysis of this construction. Rejecting the possibility of a noun governed by another noun, they posited a virtual particle in the underlying structure that acts as a governor on *zayd*. In this way they created a new syntactical

position of the genitive (*ğarr*). Thus, phrases of type (12a) are reconstructed as follows:

12b	<i>baytun</i>	<i>li-</i>	<i>zayd-in</i>
	house	for	zayd-GEN

The effect of the virtual particle *li*, namely the ending *-in*, is visible in surface structure. The reconstructed phrase (*taqdīr*) does not have the status of a good or correct sentence; its only goal is to elucidate the governance relations within the sentence (for a brief sketch of the historical development of this theory, see Owens 1990: 17).<sup>2</sup>

An instance of an equally invisible and even abstract governor is the notion of *ibtidāʿ*, 'the act of beginning'. This notion serves to account for the nominative case of the topic in nominal sentences, such as (3) *zaydun karīmun* 'zayd is kind', and instances such as, e.g., *zayd-un ḍaraba ʿamr-an*, in which *zaydun* is regarded as the topic (*muḥtadaʿ*) and *ḍaraba ʿamran* as its predicate (*ḥabar*) (cf., e.g., Ayoub 1991; cf. also Mosel 1975 on this term in Sibawayhi's *Kitāb*).

Verbs may govern too. In the first place they govern the agent and, secondly a possible object. In this respect the fact that the verb precedes agent and object is of importance, since governance can be exercised in one direction only. In (13) the verb governs two elements, namely *zayd* and *ʿamr*:

13	<i>ḍaraba</i>	<i>zayd-un</i>	<i>ʿamr-an</i>
	beat/PAST/3sg	zayd-NOM	ʿamr-ACC
	'Zayd beat ʿAmr'		

The verb causes *zayd-* to take *-u(n)* and *ʿamr-* to take *-a(n)*, in agreement with their syntactic functions: *zayd-un* is the agent (*fāʿil*) and *ʿamr-an* the direct object (*mafʿūl bihi*) to the verb, although the endings cannot be taken as direct references to their respective syntactic functions.

### 1.2.3 *ʿirāb* as an abstract notion

In *Irtiṣāf*<sup>3</sup> Abū Ḥayyān refers to a discussion among the Arab grammarians as to whether *ʿirāb* is identical with the endings themselves, i.e. *u*, *i*, *a* and *ḥaḍf*, or whether it is a more abstract notion for which the endings serve as markers (*Irtiṣāf* I 413,7ff). In the former case the *ʿirāb* is *lafẓī* (formal) and in the latter case he regards it as *maʿnawī* (abstract). In this view, the endings are mere indications of the abstract notions of *ʿirāb*, i.e. of *rafʿ*, *ğarr*, *naṣb* and *ğazm*.

<sup>2</sup> In the light of the opposition of semantic versus syntactic case, the Arabic genitive in (12a) could well be interpreted as a semantic. See discussion in section 2.3.

Versteegh (1985) analyses the views of Arab grammarians on this issue based on the accounts of the grammarian ʿUkbarī (d. 616/1219). ʿUkbarī lists some arguments in favour of the opinion that  $\text{ʾi}^{\text{rāb}}$  is an abstract, rather than a formal notion. The most important of these arguments is the fact that “declension uses different means—vowels, consonants—to express identical meanings” (Versteegh 1985:153). In other words, since a particular ‘meaning’—or rather function—may be conveyed in different ways, there is no correlation between an ending and a specific function (see discussion below on whether a consonant can be an indicator of  $\text{ʾi}^{\text{rāb}}$ ).

The grammarians in favour of the formal approach (*lafẓī*) hold that if declension is not visible in surface structure, there is no reference to the differences in the respective functions of the elements. This opinion is exemplified with the sentence *ḍaraba mūsā ʿīsā* ‘Mūsā hit ʿĪsā’. Here the agent and the object have no distinctive markers, which may lead to confusion. Therefore, the argument goes, the obvious conclusion is that the endings are crucial for indicating the syntactic functions of each element.

Whatever the opinion of the grammarians with regard to the exact nature of  $\text{ʾi}^{\text{rāb}}$ , i.e. whether the term refers to the vowels themselves or to an abstract meaning, they agree that  $\text{ʾi}^{\text{rāb}}$  is caused by governance, and that the effect on the endings caused by governance depends on the type of governor (see discussion in Section 2).

With regard to  $\text{ʾi}^{\text{rāb}}$  in plural and dual forms, the Arab grammarians hold that the *wāw* in *muʿallimūna* /muʿallim-uw-na/ is the marker of the sound plural (cf. Section 1.2) when the word occupies the syntactic function of *rafʿ* (cf. *Irtiṣāf* I 262 ff.). In the dual form, e.g. *muʿallimāni* /muʿallima"ni/ ‘two teachers’, the *ʾalif* /" / has an equivalent status. In other syntactic positions, sc. *naṣb* and *ḡarr*, the *wāw* and *ʾalif* are replaced with a *yāʾ*: *muʿallimīna* /muʿallimiyna/ in the plural, and *muʿallimayni* /muʿallim-ay-ni/ ‘two teachers’ in the dual, respectively. Thus it seems that *wāw*, *yāʾ* and *ʾalif* have two functions: they serve as markers of the plural, respectively the dual, and indicate the case of the word in question.

Nevertheless, the Arab grammarians could not accept the possibility of an element with that serves to convey more than one meaning. To put it in Versteegh’s (1985:157) terms, they rejected the “concept of a multifunctional linguistic element”. In their works, therefore, the grammarians discuss the status of *w*, *y* and *ʾalif*, and the question of whether a consonant, instead of a vowel (i.e. *w*, *y*, *ʾalif*), may serve as a

'marker of  $\text{ʔi}^{\text{c}}\text{rāb}$ '.  $\text{ʔAbū Ḥayyān}$  summarises the two opposing opinions:

"Al-Ḥalīl and Sībawayh hold the opinion that the vowels of declension were implied in the  $\text{ʔalif}$ , the  $w$  and the  $y$ ... The Kufans, Quṭrub and Zaġġāġī and a group of later [grammarians] maintain that these consonants are identical with declension" (*wa-ḍahaba l-ḥalīl wa-sībawayh ʔilā ʔanna ḥarakāt al-ʔi<sup>c</sup>rāb muqaddara fī l-ʔalif wa-l-wāw wa-l-yā*... *wa-ḍahaba l-kūfīyūn wa-quṭrub wa-z-zaġġāġī wa-ṭāʔifa min al-mutaʔaḥḥirīn ʔilā ʔanna hādīhi l-ḥurūf hiya l-ʔi<sup>c</sup>rāb nafsuhu, Irtiṣāf I 264*).

In *Manḥaġ* (9,20-21)  $\text{ʔAbū Ḥayyān}$  takes sides with Sībawayh by saying that these consonants (i.e.  $w$ ,  $y$  and  $\text{ʔalif}$ ) are 'the consonants of declension' (*ḥurūf al-ʔi<sup>c</sup>rāb*) like the  $d$  in *zayd*. This implies that he regards the glides in question as equivalent to the last consonant of the word that 'carries' the  $\text{ʔi}^{\text{c}}\text{rāb}$ , and, hence, that he does not consider them  $\text{ʔi}^{\text{c}}\text{rāb}$  themselves (*Manḥaġ* 7,21-22).<sup>3</sup> However, the question as to whether there is  $\text{ʔi}^{\text{c}}\text{rāb}$  or not in these cases is not directly answered by  $\text{ʔAbū Ḥayyān}$ . *Zamaḥṣarī* (*Mufaṣṣal* 9ff), on the other hand, holds a different opinion. He accepts the possibility of a *ḥarf* (i.e.  $w$ ,  $\text{ʔalif}$  or  $y$ ) taking the place of one of the vowels of  $\text{ʔi}^{\text{c}}\text{rāb}$ .

In this section we have briefly summarised two discussions between Arab grammarians. The first discussion is about the exact nature of  $\text{ʔi}^{\text{c}}\text{rāb}$ ; whether it should be interpreted as a formal notion (*lafẓī*) or as an abstract (*maʿnawī*) one. The second one deals with the question whether consonants can be interpreted as markers of  $\text{ʔi}^{\text{c}}\text{rāb}$ , next to vowels. We also saw that, in spite of their disagreement in these matters, the Arab grammarians agree that the basic characteristic of  $\text{ʔi}^{\text{c}}\text{rāb}$  is that it is the result of governance of a word by another element. In the following section it is pointed out which functions are indicated by  $\text{ʔi}^{\text{c}}\text{rāb}$ .

## 2. THE FUNCTIONS OF $\text{ʔi}^{\text{c}}\text{RĀB}$

This section discusses the functions of  $\text{ʔi}^{\text{c}}\text{rāb}$ . The endings of  $\text{ʔi}^{\text{c}}\text{rāb}$  assigned to the nouns and verbs themselves are no direct indications of

<sup>3</sup> $\text{ʔAbū Ḥayyān}$  attributes the remark about the *ḥarakāt muqaddara* 'virtual vowels' to al-ʔAʿlam (= aš-Šantamarī, d. 476/1083; *Manḥaġ* 9,20-21; cf. also Versteegh 1985:160).

their respective syntactic functions; rather they mark the position the word occupies in the syntactic structure of the sentence.

### 2.1 $\text{ʔi}^{\text{rāb}}$ and the markers of syntactic position

The function of  $\text{ʔi}^{\text{rāb}}$  is to indicate the position of the word in the syntactic structure; i.e. to serve as an indication of the type of governor that acts upon the word. A syntactic position (*mawḍiʿ*) involves a certain kind of government. In other words, *u* (*ḍamma*), for example, is not an indication of the fact that a certain noun is an agent in the sentence, it merely refers to the fact that the word in question occupies the syntactic position of *rafʿ*. Because the word occupies this position, a *ḍamma* is assigned to it. To put it in more general terms, the syntactic position is assigned by governors, and any word that occupies it is obliged to take the appropriate marker. In this respect, *ḍamma* (*u*) is an *ʿalāma li-r-rafʿ* ‘marker for the *rafʿ*’ (Širbīnī 46), *fatha* (*a*) is an *ʿalāma li-n-naṣb* ‘marker of the *naṣb*’ (Širbīnī 60), *al-kasra ʿalāma li-l-ḥafḍ* ‘*kasra* (*i*) is a marker for the *ḥafḍ* [= *ḡarr*]’ (Širbīnī 72), and *al-ḥaḍf yakūnu ʿalāma li-l-ḡazm* ‘deletion is a marker for the apocopate’ (Širbīnī 80). The terms *rafʿ* and *naṣb* are applied to verbs and nouns alike.

Of course, not all words are capable of taking every position. Verbs, for instance, may not occupy the *mawḍiʿ* of *ḡarr*, which is usually marked by the ending *i*.<sup>4</sup> In order to receive the *i*, other than as a result of phonological processes, the word must be in the position of *ḡarr*, which is assigned to the *muḍāf ʔilayhi* ‘possessor’ in a construction of *ʔidāfa* ‘annexation’ only, and a verb cannot be a possessor (cf. Zaḡḡāḡī, *ʔidāḥ* 108ff.). In the same way, the position of *ḡazm* ‘apocopate’ cannot be assigned to nouns (cf. Zaḡḡāḡī, *ʔidāḥ* 102ff.).

According to the Arab grammarians,  $\text{ʔi}^{\text{rāb}}$  is basically (*ʔaṣl*) a characteristic of nouns, and a verb may have  $\text{ʔi}^{\text{rāb}}$  insofar as it resembles a noun.<sup>5</sup> The type of nouns which a verb may resemble is more specifically the active participle (*ism al-fāʿil*).

<sup>4</sup> Some verbs do end in *i*, though, albeit for phonological reasons only, e.g. in connected speech *lam yaktub-i l-muʿallim-u* ‘the teacher has not written’, in which *yaktub* is originally an apocopate.

<sup>5</sup> This resemblance concerns some functional resemblances, such as the ability of being specified by particles, the internal pattern of consonants and vowels (CaCCiC = the pattern of both the verbal form /yaʿʿil/ and the active participle /faʿʿil/), and the fact that the active participle in some cases may alternate places with the *muḍāriʿ* form of the verb (cf. Owens 1988:208 for more details).

... the imperfective verb [i.e. *muḍāri*<sup>c</sup> form] has a number of resemblances to the noun, which is basically inflectable<sup>6</sup>, and because of these resemblances it becomes inflectable as well. (Owens 1988:207; cf. 66-8; Zağğāgī, *ʿIdāh* 77,3.)

The property of having *ʿi*<sup>c</sup>*rāb* is thus derived from nouns, and not inherent in verbs.

In verbs the addition of *ʿi*<sup>c</sup>*rāb* is limited to the *muḍāri*<sup>c</sup> form, excluding the *māḍī* (past tense). The *muḍāri*<sup>c</sup> ending in *u* expresses what in Western grammar is called the ‘indicative mood’ (cf. Wright 1986 [1898] i 51 and 57), even though the term *muḍāri*<sup>c</sup> itself does not express a tense but rather an alleged morphological resemblance with nouns. The third person singular of this form follows the pattern *ya-fʿal-u*. The first two vowels may vary in connection with changes in meaning or with certain verbs, e.g. *ya-ktub-u* ‘he writes’ (for complete paradigms, see, e.g., Wright 1986 [1898]). For Arab grammarians the final vowel, *u*, is the ending of *ʿi*<sup>c</sup>*rāb*, and it may be substituted with *a* (*fatha*), or disappear (*ğazm*).

In the way *ḍamma* is a marker for *raf*<sup>c</sup>—in both verbs and nouns—*raf*<sup>c</sup>, in its turn, is an indication of a certain function:

“each of the *raf*<sup>c</sup>, the *naṣb* and the *ğarr* is a marker of a [specific] meaning.” (*ar-raf*<sup>c</sup> *wa-n-naṣb wa-l-ğarr wa-kullu wāḥid minhā ʿalam ʿalā ma ʿnan*, *Mufaṣṣal* 10,19.)

Note that Zamaḥṣarī does not refer to the realisation *raf*<sup>c</sup>, *naṣb* and *ğarr* may have in the surface structure of the sentence. Due to certain phonological rules and processes the original endings (*u*, *i* and *a*) may have undergone changes and may have practically disappeared from the surface structure. Therefore Zamaḥṣarī assigns functions to the abstract notions of *ʿi*<sup>c</sup>*rāb*, rather than to their respective realisations on the surface level. For nouns, according to Zamaḥṣarī, *raf*<sup>c</sup> is the *ʿalam al-fā ʿiliyya* ‘marker of agency’, *naṣb* is the *ʿalam al-maf ʿūliyya* ‘marker of objectivity’, and *ğarr* is the *ʿalam al-ʿiḍāfa* ‘marker of annexation’ (*Mufaṣṣal* 10,19ff).

No such functional definitions are elaborated for verbs:

“Mention of the types of *ʿi*<sup>c</sup>*rāb* of the *muḍāri*<sup>c</sup>; they are *raf*<sup>c</sup>, *naṣb* and *ğazm*; these types are no markers of meanings like the types of *ʿi*<sup>c</sup>*rāb* of the noun...” (*ḍikr wuğūh ʿi*<sup>c</sup>*rāb al-muḍāri*<sup>c</sup> *hiya r-raf*<sup>c</sup> *wa-n-naṣb wa-l-ğazm wa-laysat ḥāḍihi l-wuğūh bi-ʿa lām ʿalā ma ʿānin ka-wuğūh ʿi*<sup>c</sup>*rāb al-ism...*, *Mufaṣṣal* 109,8ff.)

<sup>6</sup> As a translation of the term *ʿi*<sup>c</sup>*rāb*, in this book ‘declension’ is preferred to ‘inflection’, as opposed to Owens.



Zamaḥṣarī's statements are summarised in the following schemes:

nouns				
	indicates		indicates	
<i>ḍamma</i>	→	<i>raf<sup>c</sup></i>	→	<i>fā<sup>c</sup>iliyya</i>
<i>kasra</i>	→	<i>ğarr</i>	→	<i>ʾiḍāfa</i>
<i>fatha</i>	→	<i>naṣb</i>	→	<i>maf<sup>c</sup>ūliyya</i>
verbs				
	indicates			
<i>ḍamma</i>	→	<i>raf<sup>c</sup></i>		
<i>fatha</i>	→	<i>naṣb</i>		
<i>ḥaḍf</i>	→	<i>ğazm</i>		

Thus the category of *raf<sup>c</sup>*, for example, serves as a theoretical intermediate between *ḍamma* and *fā<sup>c</sup>iliyya*. The advantages of this reasoning are obvious. The *ḍamma* itself is not the exclusive indication of the agent—one of the main reasons, of course, is the fact that on surface level verbs, too, may end in *ḍamma*—and, hence, *ḍamma* itself cannot serve as a marker for ‘agency’ (*fā<sup>c</sup>iliyya*). Simultaneously, in this way the broader notion of *ḍamma* as an indication of *raf<sup>c</sup>* in both nouns and verbs is preserved. In the case of nouns in verbal sentences, *raf<sup>c</sup>* is an indication of *fā<sup>c</sup>iliyya*. In the same way *ğarr* indicates *ʾiḍāfa*, i.e. the fact of being possessor, and *naṣb* is an indication of *maf<sup>c</sup>ūliyya*, i.e. ‘objectivity’.

As can be inferred from the schemes above, no similar set of functions has been worked out for the declension of verbs. Zamaḥṣarī also gives a reason: “...because the verb originally has no *ʾi<sup>c</sup>rāb*, for it [sc. *ʾi<sup>c</sup>rāb*] is [derived] from the noun” (...*li-ʾanna l-fi l-fi l-ʾi<sup>c</sup>rāb ḡayr ʾaṣil bal huwa min al-ism*, *Mufaṣṣal* 109,9).

Since the Arab grammarians did not have a concept of ‘mood’, a further elaboration would have been complicated indeed. In fact, such a concept is not needed in their system. The so-called ‘moods’ of the verb, *raf<sup>c</sup>* for ‘indicative’, *naṣb* for ‘subjunctive’ and *ḥaḍf* for the ‘apocopate’, are in their views just different versions of one verbal form: *muḍāri<sup>c</sup>*. The respective endings change only when the verb is governed by a governor of a different type.<sup>7</sup>

<sup>7</sup> The Western concept of ‘mood’ presupposes a variation in semantic content of the respective verbal forms. Such a concept is absent from Arabic theory, which relates differences to governance only.

This rather indirect relation between the ‘vowels of  $\text{ʾi}^{\text{rāb}}$ ’ (*ḥarakāt al-ʾi<sup>rāb</sup>*) and the syntactic function of the nouns they occur on does not seem to have been the common opinion of all grammarians. Ibn as-Sarrāġ (d. 316/928), for example, equates the endings with the abstract meaning they represent. This becomes evident from the fact that he applies the terms *raf<sup>c</sup>*, *naṣb* and *ġarr* to the endings themselves, rather than interpreting the endings as *markers* of *raf<sup>c</sup>*, *naṣb* and *ġarr*, viz.,

“*ʾi<sup>rāb</sup>* occurs with three vowels, *u*, *a* and *i*. When the *u* occurs and disappears as *ʾi<sup>rāb</sup>* on the last consonants of nouns and verbs, it is called *raf<sup>c</sup>*. When the *a* is like this, it is called *naṣb*, and when the *i* is like this, it is called *ḥafḍ* and *ġarr*.” (*wa-yakūnu [l-ʾi<sup>rāb</sup>] bi-ḥarakāt talāṭ; ḍamm wa-faṭḥ wa-kasr fa-idā kānat aḍ-ḍamma ʾi<sup>rāb</sup>an tadḥulu fī ʾawāḥir al-ʾasmāʾ wa-l-ʾafʿāl wa-tazūlu ʿanhā summiyat rafʿan, fa-idā kānat al-faṭḥa kaḍālika summiyat naṣban wa-idā kānat al-kasra kaḍālika summiyat ḥafḍan wa-ġarran...*, Ibn as-Sarrāġ *ʾUṣūl* I 45,2-5.)

The markers of declension are needed to express the various functions the word can fulfill in the sentence, regardless of its being a noun or a verb. The grammarian az-Zaġġāġī (d. 340/951) who lived in the same period as Ibn as-Sarrāġ, uses the term *ma<sup>ʿnā</sup>* in this context:

“Meanings alternate on the nouns, since they can be agent and object and possessor and possessed, and there are no indications of these meanings in their form and their structure; they are homonymous [in all these functions]; therefore, the vowels of the declension are used to denote these meanings.” (*ʾinna l-ʾasmāʾa lammā kānat ta<sup>c</sup>tawiruhā l-ma<sup>ʿnā</sup>ni fa-takūnu fāʾila wa-mafʿūla wa-muḍāfa wa-muḍāf ʾilayhā wa-lam takun fī ṣuwarihā wa-ʾabniyatihā ʾadilla ʿalā ḥāḍihī l-ma<sup>ʿnā</sup>ni bal kānat muṣṭarika, ġuʿilat ḥarakāt al-ʾi<sup>rāb</sup> fihā tunabbiʾu ʿan ḥāḍihī l-ma<sup>ʿnā</sup>ni, az-Zaġġāġī ʾIdāḥ 69,6.*)

Versteegh (forthcoming) lists among the applications of the term *ma<sup>ʿnā</sup>* its use as a technical term meaning ‘syntactic function’. When az-Zaġġāġī uses *ma<sup>ʿnā</sup>* he does not refer to ‘meanings’, but rather to the syntactic functions of the noun. For az-Zaġġāġī, it seems, the vowels of declension are directly related to a syntactic function, such as agent (*fāʾil*), object (*mafʿūl*) and possessor (*muḍāf ʾilayhi*), the same functions mentioned by Zamaḥṣarī. This is no coincidence, for these functions are the only ones in which the type of declension is always predictable. With active verbs, an agent always has *raf<sup>c</sup>*, an object takes *naṣb*, and a possessor *ġarr*.

13	<i>ḍaraba</i> beat/PAST/3sg 'Zayd beat 'Amr.'	<i>zayd-un</i> zayd-NOM	<i>ʿamr-an</i> ʿamr-ACC
14	<i>hādā</i> this 'This is Zayd's house.'	<i>bayt-u</i> house-NOM/DEF	<i>zayd-in</i> zayd-GEN

The agent, *zaydun*, and the object, *ʿamran* are subjected to governance of the verb only.

All other instances in which *rafʿ* and *naṣb* occur are compared to the governance of the verb on its agent and object. For (9), repeated below, the governance of the particle *ʿinna* is compared to that of a verb:

9	<i>ʿinna</i> TOP '[topicalisation] Zayd is kind'.	<i>zayd-an</i> zayd-ACC	<i>karīm-u-n</i> kind-NOM-INDEF
---	---	----------------------------	------------------------------------

With regard to sentences of the type in (9), Zamaḥṣarī compares the governance of the particle *ʿinna* to the relation between a verb on the one hand and its agent and object on the other, although *ʿinna* is not a verb (cf. *Mufaṣṣal* 14,20ff. and for further discussion cf. Owens 1988:57 and 223).

In this respect the references to agency (*fāʿiliyya*), objectivity (*mafʿūliyya*) and annexation (*ʿidāfa*) must be understood in their broadest sense, rather than as references to semantic agents and objects (cf. Owens 1988:223; also 1990:120). Or, to put it in another way, the concept of syntactic function is correlated with that of syntactic position assigned by governance, regardless of the semantic associations this governance relation brings about. The goal of this correlation is, no doubt, to match the number of syntactic functions with that of syntactic positions.

These findings confirm Owens' (1988:58) assumptions with regard to the question of whether an element is governed by function or by governing item. Although syntactic position and function are related to each other, and certain functions are associated with particular syntactic positions and the appropriate case endings, the latter are basically assigned as a result of governance, not by their functions.

Summarising the discussion of *ʿirāb* in this section, it appears that the functions of the terms *rafʿ*, *naṣb*, *ḡarr* and *ḡazm* are threefold. In the first place they refer to an abstract (*maʿnawī*) governance relation of a certain type: each type of governor has its own effect. Secondly, they denote the endings caused by these respective governors, and are thus equivalent to the declensional endings (*u*, *i*, *a* and  $\emptyset$ ). Further,

they refer to the syntactic function of the word, albeit in a very broad sense.

## 2.2 Redundancy of <sup>ʔ</sup>iʿrāb?

In the first sections of this chapter we have seen that the Arab grammarians assign a clearly defined function to each of the endings of <sup>ʔ</sup>iʿrāb. However, the main impression one gets is one of a set of endings that do not themselves convey a meaning; the endings of <sup>ʔ</sup>iʿrāb as such do not automatically indicate certain syntactic functions (at least, not in a semantic sense). Furthermore, the respective functions of words could also—and sometimes even better—be derived from other characteristics, such as their place in the sentence or the construction. The fact that the endings of <sup>ʔ</sup>iʿrāb may be omitted for mere prosodic reasons sustains this impression.

One grammarian, Quṭrub (d. 206/821-2) a student of Sībawayh, advanced a theory on declension in which these arguments play an important role. He says:

“If declension were applied to speech because of the difference between the meanings [= syntactic positions], then it would be necessary to have a declension for each meaning in order to indicate it.” (*law kāna l-ʔiʿrāb innamā daḥala l-kalām li-l-farq bayna l-maʿānī la-waḡaba ʿan yakūna li-kulli maʿnan ʔiʿrāb yadullu ʿalayhi... Quṭrub apud Zaḡḡāḡi, ʿĪdāḥ 70,14ff.*)

Unfortunately, Quṭrub argues, the same declensional ending serves to express several these meanings, and, moreover, the same meaning is sometimes conveyed by means of different <sup>ʔ</sup>iʿrāb:

“There are very many similar examples of [words] whose declension is the same but that differ in meaning and [words] whose meaning is different but that have the same declension.” (*wa-miṭlu ḥādā kaṭīr ḡiddan mim mā ttafaqa ʔiʿrābuhu wa-ḥtalafa maʿnāhu wa-mimmā ḥtalafa ʔiʿrābuhu wa-ttafaqa maʿnāhu, Quṭrub apud Zaḡḡāḡi, ʿĪdāḥ 70,13.*)

Quṭrub illustrates this with examples: *lā māl-a ʿindaka* and *lā māl-un ʿindaka* both meaning ‘you do not have money’; in the former phrase *māl* is marked with *-a* (ACC) and in the latter with *-u(n)* (NOM), without any substantial semantic difference. In other instances different meanings are covered by the same ending, in this case *-an*, e.g. *ka-ʿanna zayd-an* ‘as if Zayd’ and *laʿalla zayd-an* ‘perhaps Zayd’. Quṭrub’s conclusion is that no direct relation exists between the case endings

and a certain function, and that, as a consequence,  $\text{ʔi}^{\text{c}}\text{rāb}$  itself has no inherent function.

This radical view, of course, is not shared by grammarians after Quṭrub, including Zaġġāġī who discusses his theories at length. Their arguments refer to the fact that the endings indicate  $\text{raf}^{\text{c}}$ ,  $\text{ġarr}$  and  $\text{naṣb}$ , respectively. They maintain that there is a correlation between  $\text{ʔi}^{\text{c}}\text{rāb}$  (i.e.  $\text{raf}^{\text{c}}$ ,  $\text{naṣb}$  and  $\text{ġarr}$ ) and certain functions, such as agent ( $\text{fā}^{\text{c}}\text{ʔil}$ ) and direct object ( $\text{maf}^{\text{c}}\text{ʔul}$ ); when governed by a verb, the agent would take the ending  $-\text{um}$  and the direct object  $-\text{an}$  ( $\text{ʔĪdāh}$  71,8ff.), and the possessor ( $\text{muḍāf}^{\text{c}}\text{ʔilayhi}$ ) takes  $-\text{in}$  when in a construction of annexation (see Section 2.1 above for a discussion). If Quṭrub were right, they say, the agent would indiscriminately receive the vowels  $u$ ,  $i$ , or  $a$ , which is not the case (for a discussion of Quṭrub's views, see Versteegh 1981a).

The discrepancy between the two views is obvious. While Quṭrub draws attention to the fact that  $\text{ʔi}^{\text{c}}\text{rāb}$  does not refer to the syntactic function of the word, the other grammarians argue that it indicates certain 'meanings' ( $\text{ma}^{\text{c}}\text{ʔānī}$ ), i.e. syntactic positions.

### 2.3 Summary

Summarising the data in the preceding sections, it seems that, in spite of the attempts of the later Arab grammarians to prove otherwise, it is only in a limited sense possible to speak of a correlation between verbal and nominal endings and a certain syntactic function.

The reason for this is in the first place the fact that the endings common to both verbs and nouns are difficult to collect under one single heading. *Ḍamma*, for instance, is the reflection of the same 'meaning' ( $\text{ma}^{\text{c}}\text{ʔnā}$ ), i.e.  $\text{raf}^{\text{c}}$ , in both verbs and nouns.  $\text{Raf}^{\text{c}}$ , thus, occurs in both verbs and nouns, although only for nouns does it serve in some instances as a label for a syntactic function, i.e. agency ( $\text{fā}^{\text{c}}\text{ʔiliyya}$ ).

In other cases, however, one might assert that a syntactic position is not equivalent to a syntactic function. A topic and a predicate, for instance, may have various endings, especially  $\text{raf}^{\text{c}}$  and  $\text{naṣb}$ , denoting the governance of an element, such as a particle or a verb of a special type. In this case the construction is compared with the governance relation between a verb and its object and agent complements.

It seems, therefore, that the endings of  $\text{ʔi}^{\text{c}}\text{rāb}$  are conceived of as merely a set of markers of governance. Their function is to indicate the fact that a word is governed, referring to the type of governor,

rather than real indicators of a specific syntactic function. The semantic content of the combination of governed word and governor depends on the governor rather than on *ʔiʕrāb*. It shall be seen that the Arab grammarians' concepts of declension is probably closely related to typological characteristics of Arabic case. From this it follows that *ʔiʕrāb* is quite distinct from the first category of markers that convey an intrinsic meaning and do not indicate governance.

### 3. TURKIC CASE ENDINGS

The conclusion of the survey in the preceding sections is that, notwithstanding some instances in which case fuses with other functions, such as plural and gender, Arab grammarians attempted to segment their speech into separate morphemes to each of which they assign separate meanings. In this section I give a brief sketch of the case system of Turkic languages, and show whether an analysis in which the principle of segmentation plays an important role can be suitable for Turkic.

Another matter are the typological characteristics of Turkic case. In order to find out how Turkic cases from a typologically point of view can be characterised, I carry out some simple tests. The findings are discussed in Section 4.

#### 3.1 *Turkic case endings and their functions*

Most Turkic languages possess a clear-cut case system. From the earliest stages, i.e. the 8th century Runic inscriptions, they show a remarkable consistency in their common morphological structure, lasting up to modern times. Even between modern Turkic languages the similarities are still striking, considering their physical and temporal distances.

As a the paradigm we here consider the declension of the noun **sanğar**, based on data found in our sources. Once again it is emphasised that all forms are quoted in a direct basic transliteration from the Arabic texts. The paradigm presented here is the conventional one in Western analyses of Turkic.

<b>sanğar</b>	NOM	<b>sanğar-nī</b>	ACC
<b>sanğar-niñ</b>	GEN	<b>sanğar-dā</b>	LOC
<b>sanğar-ğā</b>	DAT	<b>sanğar-dan</b>	ABL

The forms of the case endings of most Turkic languages are subject to the principles of vowel harmony and consonant assimilation (see brief outline below and Chapter Three).

The nominative is typically assigned to the agent and topic/predicate: **sanğar kal-dī** ‘Sanğar came’, and **sanğar kurklū-dur** ‘Sanğar is good’. The genitive usually occurs in combination with the possessive suffix:

15	<b>bī nin<sup>8</sup></b>	<b>’at-ī<sup>9</sup></b>
	chief GEN	horse-POSS/3sg
	‘the chief’s horse’ ( <i>Qawānīn</i> ).	

The genitive is also used as a predicate: **bū qul sanğar-niñ-dur** ‘this slave is Sanğar’s’ (*’İdrāk*).

The dative, locative and ablative cases convey meanings that in English are expressed by means of prepositional clauses: **sanğar-ğā baqtim** (Sanğar-DAT) ‘I looked at Sanğar’; **sanğar ’aw-dā** (house-LOC) ‘Sanğar is in the house’ or ‘at home’, **sanğar-dan kaldim** ‘I came from Sanğar’. The ablative also serves to express the partitive:

16	<b>turk-tan</b>	<b>bir</b>	<b>’ar</b>
	Turks-ABL	one	man-NOM
	‘a man from the Turks’ or ‘a Turk’ ( <i>’İdrāk</i> )		

After the **n** of possessive endings **ğā** changes into **-ā**:

17	<b>bir</b>	<b>’ar</b>	<b>qaṭ-i-n-ā</b>
	a	man	vicinity-POSS/3sg/-n-DAT
	‘to a man.’		

A place may be more specified by means of an extra noun denoting a time or a place:

18	<b>’a-niñ</b>	<b>ard-i-n-dā</b>
	he[OBL]-GEN	behind-POSS-n-LOC
	‘behind him.’	

The place of **dā** may be occupied by **ğā** DAT and **dan** ABL, respectively.

### 3.2 Typological characteristics of Turkic case

An important issue discussed by the Arab grammarians in regard to Arabic case endings is, as I have shown above, the fact that they may be omitted or fuse according to certain morphonological rules, without major consequences for the meaning of the phrase. Things are differ-

<sup>8</sup> Although the author of *Qawānīn* had the instruments to distinguish between **n** and **n̄**, he does not do so in the genitive case ending.

<sup>9</sup> After vowels the possessive changes into **-sī**: **’aṭa-sī** ‘his father’.

ent in Turkic. In general, case endings cannot be omitted without distortion of the meaning, and deletion of dative, locative and ablative case makes the phrase ungrammatical. In this section it shall be shown which Turkic cases may be omitted and in which conditions.

For the dative case, for example, deletion yields the following result (the examples with asterisk are construed; those without are taken from *ʿIdrāk*):

19a	[ʔaqğa-nī] [coin-ACC] 'I gave the coin to Sanğar.'	<b>bir-du-m</b> give-PAST - 1 sg	<b>sanğar-ğā</b> Sanğar-DAT
-----	--	-------------------------------------	--------------------------------

The result is an ungrammatical phrase:

19b	*[ʔaqğa-nī] [coin-ACC] '*I gave the coin Sanğar.'	<b>bir-du-m</b> give-PAST - 1 sg	<b>sanğar</b> Sanğar-∅
-----	---	-------------------------------------	---------------------------

Likewise, it is not possible to delete the locative and ablative case endings:

20a	<b>sanğar</b> Sanğar/NOM 'Sanğar is in the house.'	<b>ʔaw-dā</b> house-LOC
20b	* <b>sanğar</b> Sanğar/NOM '*Sanğar [is] a house.'	<b>ʔaw</b> house
21a	<b>ʔaw-dan</b> house-ABL 'I came from the house.'	<b>kal-di-m</b> come-PAST - 1 sg
21b	* <b>ʔaw</b> house/∅ '*I came house.'	<b>kal-di-m</b> come-PAST - 1 sg

The accusative case is an exception. The deletion of the accusative case ending probably denotes a change related to the degree of definiteness of the noun. The ending *nī* is used when a definite object is intended:<sup>10</sup>

22	<b>bāliq-nī</b> fish-ACC 'I ate the fish'.	<b>ya-du-m</b> eat-PAST - 1 sg
----	--	-----------------------------------

<sup>10</sup> The Arab grammarians do not explicitly explain this, therefore the translations of the respective phrases may serve as indirect evidence for this assumption.



In (22) **bāliq** refers to a specific fish known by the second person. When the accusative case is omitted, the object refers must be understood as a collective noun:

23	<b>'atmak</b>	<b>yi-yū</b>
	bread/ACC	eat-KONV
	'eating bread'.	

The object **'atmak** refers to 'bread' in the most general sense. An indefinite object is preceded by the indefinite article **bir** 'one' or 'a':

24	<b>kur-du-m</b>	<b>bir</b>	<b>uşlü</b>	<b>'ar</b>
	see-PAST-1sg	one/a	wise	man
	'I saw a wise man.'			

It is also possible to combine the indefinite article **bir** and the accusative suffix in one clause. In this case the object is not yet definite, but will be defined in a subsequent clause:<sup>11</sup>

25	<b>bir</b>	<b>'ar-nī</b>	<b>kur-du-m,</b>	<b>[ur-ul-miş</b>	<b>qul-ī]</b>
	one	man-ACC	see-PAST-1sg	[beat-PASS-PART	slave-POSS]
	'I saw a man whose slave was beaten.'				

There are two instances in the language material in *'İdrāk* in which the genitive case is omitted. In the first place so-called compound words:

26	<b>şanğış</b>	<b>kun-ī</b>
	attack/NOM	day-POSS
	'day of the attack' ( <i>'İdrāk</i> 111,3).	

Another example is **yuzum 'ağāş-ī** 'grape vine' (*Qawānīn* 59,3). The combination of the two nouns with the possessive ending, **kun-ī** 'day' and **'ağāş-ī** 'tree' refers to a general notion expressed by the compound, comparable to compound words like 'apple tree' in English.

Secondly, the genitive case is omitted—regularly, it seems—after proper names:<sup>12</sup>

27	<b>sanğar</b>	<b>'aṭa-s-ī</b>	<b>ṭur-dī</b>
	Sanğar-∅	father-s-POSS/3sg	stand up-PAST/3sg
	'Sanğar's father stood up.'		

Many sources provide examples in which the genitive case is omitted after proper names, e.g. **sanğar kuz-ī** 'Sanğar's eye' (*'İdrāk* 146,10), and **'altınbuğā 'uğl-ī** 'Altınbuğā's son' (*Qawānīn* 44,12), **zayd 'aṭ-ī**

<sup>11</sup> This explanation is to some extent tentative, for the issue has not yet been thoroughly investigated. The solution presented here was suggested for Turkish during a lively discussion at the IIIrd 'Turcologendag' on February 17th, 1995 (Utrecht, the Netherlands)

<sup>12</sup> See discussion in Chapter Five.

'Zayd's horse' (*Hilya* 84,15ff.)<sup>13</sup> but also with nouns perceived as proper names, such as titles **sultān qul-ī** 'the sultan's slave' (*Qawānīn* 44,10).<sup>14</sup> The assumption that this is a general feature is further confirmed by information supplied in *Qawānīn* (44,10) and the Margin Grammar (MG 59<sup>v</sup>rt/ult), where the deletion of **niḡ** is described as an option; all examples of omission concern proper names (there is also quite convincing evidence for this in *ʿIdrāk* 120,1-4). On the other hand, especially in *ʿIdrāk* many examples contain proper names, i.e. **saṅğar** and **sunqur**. In summary, it appears that the languages described in our sources share the same features with regard to the omission of the genitive case.<sup>15</sup>

One could say that the elision of the ending either conveys a meaning in itself (perhaps that of one semantic unit), or is conditioned by the type of noun it is attached to, i.e. proper names. In any case, in spite of the disappearance of the case ending, the meaning of the genitive case itself is preserved by means of the possessive and the sequence, and therefore the loss is never complete.

<sup>13</sup> In *Hilya*, all occurrences of a noun (i.e. proper names) without genitive marker (84-87) were 'corrected' by the editor Rif'at, who put a corrected form with the genitive between square brackets after each word: "Wherever I have indicated the words that are in my opinion not correct, I have put the correct form after that particular word with this sign [...] " (Yanlış olduğunu hüküm ettiğim kelimenin doğrusunu gösterdimse, doğrusunu o kelimenin yanına [] şu işaretle ilave ettim, *Hilya* 1). The assumption that **niḡ** is omitted with proper names is further confirmed by numerous data found in Qipçaq texts, for example the manual on archery *Kitāb fi 'İlm an-Nuṣṣāb* (cf. Öztöpcü [1990]). In this manual all omissions of **niḡ** are related to either a so-called short genitive, e.g., **oq tāmüri** 'the arrow's iron' (38a), **şahadat barmaqı** (39a) 'index finger', or, indeed, a proper name, e.g. **ʿAbü Hāşim-i Bāvardı qatında** (14b) 'with ʿAbü Hāşim-i Bāvardı', **Bahrām-i Gūr qavlı** (42b) 'Bahrām-i Gur's saying' (transcription by Öztöpcü [1990]).

<sup>14</sup> In view of the absence of a coherent grammatical analysis of the Turkic language(s) of these sources, including the remarks of the grammarians, I base this assumption on my own examination of the material in the sources. Furthermore, comparison with similar cases in monolingual manuscripts in XIV-Century Qipçaq seems irrelevant here, at least before the linguistic relations between them are made more evident, since certain features may occur frequently in one language or dialect and be absent altogether in the other.

<sup>15</sup> The possessive is almost never omitted; there is one instance in *Hilya* (87,3): *ğulām-u ʿanta* 'slave you', viz.,

<b>san-niḡ</b>	<b>qūl</b>	<b>san-niḡ</b>	<b>qūl</b>
you-GEN	slave	ʿanta	ğulām
'your slave'			

Omission of the possessive in this manner also occurs frequently in colloquial variants of Turkic languages.

### 3.3 Exception to the rule

The only exception to this pattern of regular changes in Turkic case is the accusative case. In a limited context, i.e. after a possessive, the suffix *-nī* is reduced to *-n*:<sup>16</sup>

- 28        *ʾāš-ī*  
             meal-POSS/3sg  
             'his meal'

Instead of *ʾāš-ī-nī*, as the rules would demand, the accusative is

- 29        *ʾāš-i-n*                      *ya-dī*  
             water-POSS/3sg-ACC    eat-PAST/3sg  
             'He ate his meal.' (MG)

Even though the Turkic case endings are variable because of the above-mentioned phonological changes, their forms are predictable throughout (loan-words being the only exceptions).

Because the suffixes do not fuse, even complex compound words are easily segmentable into morphemes:

- 30        *kur-kan-im-niḡ*                      *qul-ī*  
             see-KONV/PAST-POSS/1sg-GEN    slave-POSS/3sg  
             'the slave of [the one] I saw.' (*Idrāk*)

Even in a sequence of several suffixes, all morphemes are easily recognisable. We shall see that segmentability is an important element in Arabic theory.

### 3.4 Case markers in front and back words

In Chapter Three have given a survey of the phonemes of Turkic, and the way words are marked for a front or a back pronunciation. Our conclusion was that the Arab grammarians marked the words for either front or back in order to determine which type of suffix must be added to the word in question. Velar consonants indicate a back pronunciation, whereas neutral consonants indicate a front pronunciation. Back words get velar suffixes, and front words palatal ones. *ʾAw* 'house' is pronounced [ev] (front), and *ʾaw* 'game, hunt' [av] (back). In the case of the dative this is visible in the shape of the consonant: 'to the house' (house-DAT) is pronounced [evge], and 'to the game' (game-DAT) [avḡa]. In this ending the Arabic script represents, e.g., *ʾaw-ḡā* vs. *ʾaw-*

<sup>16</sup> The sources (*ʾIdrāk*, *Qawānīn*, MG) treat the different realisations of the accusative case as variants of the same morpheme. The deletion of final *-i* in the accusative is a feature of many Qipčaq languages (cf. discussion in Chapter Six. Further Tatar: Poppe 1963; Kazakh: SKJa 1962:166-7; Turkish: Lewis 1984: 41).

ġā. After unvoiced 'back' consonants ġā changes into qā, e.g., 'uġmaq-qā 'into heaven', and after voiceless 'front' consonants it is kā, e.g., kant-kā 'to the town'.

In order to get the cases for the plural, it suffices to add *-lar* to the stem. Thus 'aw-lar [evler] 'houses' (house-PLUR/NOM), 'aw-lar-niḡ [evlerniḡ] (house-PLUR-GEN), 'aw-lar-dā [evlerde] (house-PLUR-LOC), but qul-lar 'slaves' [qullar] (slave-PLUR/NOM) etc.<sup>17</sup>

#### 4. TYPOLOGICAL DIFFERENCES AND SIMILARITIES OF TURKIC AND ARABIC CASE

The present section briefly discusses the findings with regard to the functions of Arabic and Turkic case in the framework of modern linguistic typology. It shall be seen that there are considerable differences from a typological point of view. For our argumentation these are important features, since we assume that certain typological features of Arabic case formed the base for their linguistic theory. The two sections that follow discuss semantical and morphological typological matters and give some predictions as to the methods the Arab grammarians may apply to Turkic.

##### 4.1 *Semantic typology: semantic versus syntactic case*

It is argued above (Section 1) that the basic function of Arabic case endings is to indicate governance; Arabic case in general is an indication to the type of governance, rather than a marker for a specific syntactic function. As we have seen, other features such as word order indicate the syntactic function of a word when the case is omitted or is not manifest due to morphological reasons. In brief: it does not have an inherent semantic content.

On the other hand, in Turkic languages there is a fundamental constraint against the omission of case endings for it leads to serious distortion of the sentence. Only the accusative and genitive case may be omitted under certain restricted conditions. These are strong indications for typological differences between Turkic and Arabic case.

Similar typological distinctions between cases are described for Russian by Babby (1986:198ff). In his view there are two types of cases, syntactic case and semantic case. Syntactic case is caused by gover-

<sup>17</sup> In modern Kazakh the suffix *-lar/-ler* is also subjected to consonant assimilation, changing into *-tar/-ter* after voiceless consonants, and to *-dar/-der* after voiced consonants, respectively; hence *kisi-ler* 'men' vs. *köz-der* 'eyes' and *Qazaq-tar* 'Kazakhs'.

nance by other syntactic elements, thus making the occurrence of a given case ending obligatory and, as a consequence, predictable (e.g. after prepositions or transitive verbs). In this way “[t]he Syntactic Case makes no contribution to the sentence’s semantic interpretation” (Babby 1986:199).<sup>18</sup> The basic characteristic of semantic case, on the other hand, is that it does contribute to the sentence’s semantic interpretation and, therefore, cannot be omitted without distortion of the meaning of the sentence. The occurrence of a semantic case is not subjected to principles of governance, and, therefore, it is unpredictable in terms of governance.

Another aspect of syntactic case is that in languages in which it is realised morphologically, the case marker may not appear on surface level in certain conditions, or disappear altogether when the function of the noun is expressed in other ways, such as word order. Examples of this are the accusative case in Turkic which is not always expressed by means of a marker, and, to give a very different example, the now obsolete case endings in older stages of Standard Dutch (cf. Van der Wal 1992:141-2), respectively. Syntactic case can even be posited for languages with no morphological realisation of case, such as English. For those languages case is posited on a theoretical level only.

Semantic case cannot be assigned on a theoretical level only because it “appears to be found only in languages in which case is realized by means of inflectional morphology” (Babby 1986:170).

In the light of these distinction between semantic and syntactic cases, Arabic cases can be characterised as syntactic, Turkic cases—except the accusative, which is basically syntactic, and the nominative, which is difficult to classify—as semantic. However, for our purposes not only the typological characteristics of Arabic case as such are important for the development of a linguistic concept, of equal significance is the way these characteristics are perceived by the Arab grammarians, which is to be discussed in Chapters Five and Six.

#### 4.2 *Morphological typology: segmentability*

An important point in Arabic argumentation is, as I have shown above, the segmentability of the elements of speech and the subse-

<sup>18</sup> Babby (1991) subdivides syntactic case into lexical and configurational case, and semantic case into argument and adverbial case. It shall become clear in the course of this chapter that for our purposes the rather simple formal-syntactic distinction (as initially proposed in Babby’s publications), and the assumption that some cases can be used in either way, is sufficient.

quent assignment of a specific meaning to each morpheme. For the grammatical descriptions of Turkic words a second aspect is of interest, i.e. the degree to which segmentation can be successful in a morphological analysis of Turkic syntactic elements.

In his suggestions for a morphological typology of languages, Comrie (1983:39ff.) discusses two 'indices'. The first, the index of synthesis, refers to the number of morphemes per word. An isolating language has few, whereas an agglutinating language may have many. The second index, which is on issue here, is the index of fusion. For this index Comrie takes agglutination of invariant suffixes to the stem as the norm. The index of fusion, then, is the deviation from this norm in the sense that suffixes may fuse with each other or with the stem. Agglutination stands for a high degree of segmentability and invariance. Invariance refers to the ideal of the same morpheme always representing the same meaning under all circumstances. Phonological rules of the language—such as in Turkic front and back words—that affect the form of a suffix are not considered violations of the principle of invariance, because in practice they do not affect the predictability of the form. Applying this theory to the Turkic examples given in Section 3, it is possible to conclude that, apart from the accusative, Turkic case endings are both segmentable and invariant.<sup>19</sup>

In regard to the Arabic cases it is possible to conclude that although the declensional endings are both predictable and segmentable from the nouns and verbs to which they are attached, they fuse in many other instances. We have seen that the Arab grammarians, nevertheless, treat all case endings as if they were predictable and segmentable. For this they use the instrument of the underlying form.<sup>20</sup>

#### 4.3 *Predictions as to the Arab grammarians' interpretation of Turkic case*

Based on these observations, it is possible to predict that Arab grammarians, with their inclination to segment the elements of their own speech—for which they for non-regular forms recur to the concept of underlying level—will indeed recognise the Turkic case endings as

<sup>19</sup> Comrie came to the same conclusion with regard to Turkish.

<sup>20</sup> It is important to stress that, although the AG clearly define the declensional endings as separate segments, they do not consider them part of the morphological structure of the words, for their occurrence depends entirely on the syntactic position of the word in question in a sentence. If there is no governance, there can be no case ending either. As a consequence, the declensional endings belong to the domain of syntax (*naḥw*) rather than morphology (*taṣrif*).

separate morphemes. As we have shown, Turkic languages are quite susceptible to this kind of analysis, perhaps even more than Arabic. In view of the differences between Arabic and Turkic in terms of syntactic case versus semantic case, though, it is not likely that the Arab grammarians will regard Turkic case endings as equivalent to Arabic *ʾiʿrāb*, except the accusative case. The discussion on the application of these principles is continued in Chapter Five.

## PART B 5. GENERAL TERMS FOR TURKIC WORDS AND MORPHEMES

In this part of this chapter I give a short survey of the way Arab grammarians applied the terms *kalima* and *lafza* to Turkic elements of speech, and which terms they used to express synonymy between Arabic and Turkic linguistic elements. A brief introduction of this kind seems appropriate before engaging in the detailed discussion presented in Chapters Five and Six.

In the sources *kalima* and *lafza* are applied to Turkic words and morphemes. In Arabic grammar *kalima* is the general expression for 'word', both noun and verb, whereas *lafza* means both 'word' and 'expression'. The sources display different methods in their application of the available terminology to words. In *ʾIḍrāk* and *Tarǧumān*, for instance, the terms *kalima* (pl. *kalim*) and *lafza* are used, both of which may mean 'word'. In this section I first discuss the instances in which these terms are used in the sources and then compare this with the analyses given by Levin (1986) and Owens (1988).

### 5.1 Kalima

The term *kalima* seems to be applied exclusively to nouns and verbs. *Tarǧumān*, for example, discussing *kim* 'who' in the sentence *kim bardī* 'who went away?', states "you use it before the word" (*wa-taʿtī bihā fi ʾawwal al-kalima*, 51,13). In this case *kalima* obviously refers to a verbal form. In the same way, other elements are "used at the last consonant of the word" (*fi ʾāḥir kulli kalima*, 51,15).

In *ʾIḍrāk*, *kalima* is used exclusively in the sense of 'word', e.g. "with the palatalised word" (*maʿa l-kalima al-muraqqqaqa*, 145,11), and "they do not have a word that is synonymous with the conjunction *wa...*" (*lā kalima ʾindahum turādifu wāw al-ʿatf...* 149,23); "Morphology means knowledge of the rules of a word before its conjunction with another word" (*at-taṣrīf ʿilm bi-ʾaḥkām al-kalima qabla tarkībihā maʿa kalima ʾuḥrā*, 101,2); and "The word consists of the consonants

of the alphabet” (*wa-l-kalima nāsiʿa min ḥurūf al-muʿgam*, 101,2), “the essence of the word” (*nafs al-kalima*, 136,1).<sup>21</sup> *Kalima* is also found in the general introduction to *ʿIdrāk*, again as a general term for ‘word’: “...the first is the meanings of all simple words, which is called ‘lexicology’.” (...*ʾaḥaduhā madlūl mufradāt al-kalim wa-yusammā ʿilm al-luġa*, *ʿIdrāk* 5,10), “The word is an utterance, or rather what is intended by the utterance.” (*wa-l-kalima qawl ʾaw manwīy ma ʾahu mawḏūʿ li-maʿnan*, 101, 9.). The same holds for *Dīwān*, in which *kalima* is applied to nouns and verbs, e.g., *al-kalima ar-rakīka* “the palatalised word” (15,7; further numerous occurrences, e.g., 5,15; 26,1; 204,6; 581,3).<sup>22</sup>

## 5.2 Lafza

In *Tarġumān* and *ʿIdrāk* the term *lafza* is used too, although they show differences in the way it is applied. *Tarġumān*, for instance, applies it to various kinds of elements, such as personal pronominal endings (*siz* ‘you (pl.)’ [49,12]), pronominal endings in combination with a temporal suffix (*ġā-biz* FUT-‘we’ [48,9]), a temporal suffix alone (*ġāy* FUT [48,3]), case endings (*nī* ACC [52,16]), the particle of interrogation (*kim* ‘who’ [51,13]). Moreover, *lafza* is also applied to various Arabic constructions and adverbs, viz., *li-ʾaġli* ‘for the sake of’ (54,20), *tumma* ‘then’ (56,4).

In *ʿIdrāk* *lafza* is used less frequently, and it is applied especially to elements other than nouns and verbs, nominal suffixes (*liq*, used to denote the purpose of a given object [108,14]), verbal suffixes (*ġali* ‘since’ [145,9]), and *bar* ‘existent’ (132,23). *Lafza* is also used in the introduction to *ʿIdrāk*’s Turkic-Arabic word list as a general term for ‘word’: “and I mention the Turkic word and then its equivalent in the Arabic language...” (*fa-ʾaḏkuru l-lafza at-turkiyya wa-ʾutbi ʿuhā bi-murādifiḥā min al-luġa al-ʿarabiyya*, *ʿIdrāk* 5,16).

<sup>21</sup> In this respect *nafs al-kalima* probably refers to the notion of ‘stem’ which is not identical with the theoretical Arabic notion *ʾaṣl* ‘root’ (for which see, e.g., Baalbaki 1988). The expression *nafs al-kalima* is also fairly common in *Dīwān* (e.g. 411,13), whereas *Qawānīn* uses *ʾuss* ‘base’ (25,11). These expressions and terms seem to refer to a notion of the shape a word before the attachment of suffixes. Although this in itself is a very interesting issue, it cannot be dealt with further in the framework of the present study.

<sup>22</sup> Other syntactic elements are invariably called *ḥarf*, e.g., vocative particle (*ḥarf nidā*) *qī* (538,2); diminutive particle (*ḥarf taṣġīr*) *qiyā* (519,13) interrogative particle (*ḥarf istifhām*) *mū* (539,1); particle with the meaning of ‘if’ (*ḥarf bi-maʿnā law*) *sā* (526,2), I have not come across the word *lafza* (cf. also Dankoff and Kelly 1985:273).



In *Tarğumān* and *ʿIdrāk* alike *lafza* is, as far as we could deduce from the material, not used for nouns and verbs in particular. In *ʿIdrāk* the term *qawl* ‘utterance’ is used more or less synonymously with *lafza*. It is typically used to introduce Turkic sentences and phrases, e.g. *wa-qawluhum* ‘their utterance’ or ‘they say’ (cf. *ʿIdrāk* 106,17; 107,15; 136,2). In *Tuhfa* the term *ʿalāma* is applied indiscriminately to all categories of words and morphemes. In *Qawānīn* (4,5; 5,15; 6,1; 6,2; 53,16; 63,7) and *Ḥilya* the distribution of *kalima* and *lafza* seems to be less strictly determined.<sup>23</sup> Instead, *lafza* is applied to Turkic particles, nouns and verbs alike. In *Qawānīn*, for example, *lafza* is applied to verbs, e.g., *yaz-dī* ‘he wrote’ or ‘he failed’ (29,14), *bašla-dī* ‘he started’ (30,7) and the combination *ʿazd qal-dī* ‘little was left’ (29,14; in context to be translated with ‘almost’ or ‘near to’), the postpositions *ʿuṣun* ‘for’ (34,1) and *ḍakin* ‘until’ (42,10) and case endings. In *Ḥilya*, *lafza* is used for verbal forms, e.g., *bul-ğay* ‘may be’ [be-FUT] 99,10), *ʿidī* ‘he was’ (*lafza ġāmida māḍiya* “an indeclinable marker [for] the past tense”, 99,8), postpositions, e.g., *ʿayrūq* ‘except’ (97,6), but also for Arabic words, such as *ṣalā* ‘prayer’.

### 5.3 Summary

Summarising, it appears that in *ʿIdrāk* and *Tarğumān*, and also in the two instances in *Ḥilya*, the term *kalima* is used exclusively for ‘word’, especially with regard to noun and verb, but also sometimes for (Arabic) particle. *ʿAbū Ḥayyān*’s criterion for applying the term *kalima* may have been the question of whether or not the linguistic element can be used as an independent unit. The use of the term *lafza* in *ʿIdrāk* comes quite close to the modern notion ‘morpheme’ (although there is one instance in which it seems to convey ‘word’ in a general sense). In his final summary of the particles (*ḥurūf*), *ʿAbū Ḥayyān* considers all Turkic oblique case endings (*dā*, *dan*, *ğā*, *niḡ*) particles of annexation (except the accusative *nī*), *ʿuṣ* (particle of attention), *ʿawat* (‘yes’, particle of answer), and *maḡar* (particle of exception). *ʿAbū Ḥayyān* applies the criterion of independency to Turkic linguistic elements: “All of these are independent particles of meaning and [independent] words” (*wa-hāḍihi kulluhā ḥurūf maʿānin mustaqilla [wa]kalimāt*, *ʿIdrāk* 155,9). This statement, however, is in contradiction to what is stated elsewhere in *ʿIdrāk*. For example, *ma* (verbal suffix for negation), *sun* (suffix for the imperative of the third person singular), *sā*

<sup>23</sup> Apart from two occurrences in *Ḥilya* (89,15) *ʿaṣl al-kalima* ‘the root of the word’, and (102,1).

(suffix for conditional verbs), which are also included in the listing, are not considered independent elements. Moreover, he continues

“...As to what is added for one of the meanings that occur as part of the root of another word, e.g. the diminutive, the plural, the transitive, or the construction of a passive form, we do not intend to list it in this chapter, since it has already been mentioned...” (*wa-’ammā mā zīda li-ma’nan min al-ma’ānī wa-hiya fī sinḥ kalima ’uḥrā kamā dalla ’alā taṣḡīr ’aw al-ḡam’ ’aw at-ta’addī ’aw binā’ li-l-maf’ūl* /<sup>24</sup> *fa-laysa maqṣūdunā ’addahu fī hādā l-bāb wa-qad taqaddama dīkru dālīka...*)

This quotation, too, is in contradiction to other statements, for in Turkic these meanings do not involve a change within the word. Therefore, our conclusion in regard to this passage is that it must be interpreted as a reference to Arabic particles, since both statements do apply to Arabic.

In the other sources, *lafza* is used for various types of Turkic and Arabic morphemes and words, or combinations of these.

In regard to the term *kalima* this conclusion agrees to a great extent, albeit not fully, with Owens’ (1988) findings. According to Owens (1988:110ff.) and Levin (1986) *kalima* refers to two different concepts. In the first place it refers to an “orthographic word consisting of more than one morpheme” and, secondly, to a morpheme, albeit not all morphemes.<sup>25</sup> In the data we have examined, the term *kalima* never conveys the sense of morpheme; instead its use seems to be limited to those instances in which ‘word’ is intended.<sup>26</sup> The second term, *lafza*, is not clearly defined and, as far as we know, little used in general works in Arabic linguistics. In his article, Levin (1986) shows that *lafza*—as described by Ibn Ya’īṣ (d. 643/1245)—is a general term conveying our notion of ‘word’, whereas *kalima* refers to morphemes:

“[Ibn Ya’īṣ] distinguishes between two categories of *lafza*: one category denotes ‘a simple sense’ (*ma’nan mufrad*) such as the sense of *zaydun*—‘Zayd’, while the other category of *lafza* is according to him *murakkab*—‘(denoting a) composite (sense),’ as in the examples: *al-raḡulu*—‘the man’... *ḡarabā* ‘both of them hit and *ḡarabū*—‘they hit’... he believes

<sup>24</sup> This passage is found in almost literally the same form in *Qawānīn* (73; here it continues as follows: “...has been mentioned in the appropriate chapters *fa-qad taqaddama dīkruhā ’aydan fī ’abwābihā...*) and MG (63<sup>top</sup>), and may not be an original part of *’Idrāk*. The term *sinḥ al-kalima* recurs in *Dīwān* (283,2).

<sup>25</sup> See Owens (1988) and Levin (1986) for further discussion, and Versteegh (1993:102-3) for a survey of the earliest use of *kalima* as a grammatical term in the sense of ‘a lexical unit’ or ‘word’.

<sup>26</sup> In *Irtiṣāf*, too, ’Abū Ḥayyān uses *kalima* exclusively in the sense of ‘word’, rather than morpheme.

that each of these forms is a *lafza* consisting of two *kalimas*: the verb is a *kalima*, and each of the suffixes *-ā* [/'a"/] and *-ū* [/'uw/], contained in *ḍarabā* and *ḍarabū* respectively is a *kalima*, as it denotes the subject" (Levin 1986: 430).

*Lafza* is used in this general sense of 'word' or 'utterance' by Zamahšari in his definition of *kalima*: "A word is the utterance that indicates a simple sense [when put] in a syntactic position" (*al-kalima hiya l-lafza ad-dālla 'alā ma'nan mufrad bi-l-waḍ'*, *Mufaṣṣal* 4,9, also quoted by Owens [1988:331]; cf. also 'Ašbāh III 3,16). In this sense the meaning of *lafza* seems to come close to the meaning of the general term *qawl* 'utterance' in 'Idrāk (see quotation above).

In summary, although the term *kalima* may denote both 'word' and 'morpheme' for later grammarians as far as Arabic is concerned, with regard to Turkic it is used almost exclusively in the sense of 'independent unit'. *Lafza* is a term that is applied to both Turkic morphemes, as well as to words consisting of several morphemes. In 'Idrāk, in which both terms are used, *kalima* is applied to words, whereas *lafza* is used exclusively for morphemes and not for words.

In the preceding section we have shown that in the sources the terms like *kalima* and *lafza* are applied to the Turkic linguistic elements in various ways. In 'Idrāk and *Tarğumān* there is a tendency to reserve *kalima* for nouns and verbs, and to apply *lafza* to other elements that in Western grammar would be considered morphemes and case endings. In the other sources the term *lafza* is used indiscriminately for all Turkic—and in some cases also Arabic—elements, i.e. both nouns and verbs on the one hand, and morphemes and combinations of words on the other.

Finally, interesting to note is that in most sources the terms *fi'l* ('verb') and *ism* ('noun') are applied quite naturally to Turkic verbs and nouns; this does not hold for *Tuhfa*, in which the term 'alāma 'marker' is used throughout. The Turkic verbs are usually given in the past tense, i.e. with the suffix *-dī* (3sg), e.g. 'ur-dī 'he beat', which is the analogous form of the only verbal form in Arabic that shows the basic consonants of the verb, e.g. *ḍaraba* 'he beat' /ḍ-r-b/. Within the Arabic system of dividing speech into three basic categories, one would expect that all other elements that cannot be classified as verbs or nouns are characterised as particles (*hurūf*). The sources (except *Dīwān*) appear very cautious at this point, for they use the rather vague term 'word' (*lafza*) for syntactic elements that cannot be understood as verbs or nouns.

6. SYNONYMY BETWEEN ARABIC AND TURKIC: *FI* AND *DĀ*

In the sources the synonymy of Arabic and Turkic elements is expressed in various ways. In this section I give a brief survey of the terms they use, especially in connection with the Arabic particle *fi* and the Turkic locative ending *-dā*.

MA<sup>ʿ</sup>NĀ

Most sources contain statements of the type “*dā* has the meaning of *fi*” (*bi-ma<sup>ʿ</sup>nā fi*, *ʿIdrāk* 144,21; 154,2; 136,10; *Hilya* 98,6; MG 40<sup>v</sup>lt; 55<sup>v</sup>rt/bm), and, more specifically, “*dā* has the meaning of *fi* that governs in the genitive” (*bi-ma<sup>ʿ</sup>nā fi al-ğarra*, MG 58<sup>r</sup>rt).<sup>27</sup> This term must probably be understood in the sense of having the same lexical meaning as *fi*, without any reference to any similarity in function (cf. Versteegh [forthcoming] for further discussion of the term *ma<sup>ʿ</sup>nā*).

## MAQĀM

In *Tarğumān*, *dā* is said to “take the place of the Arabic *fi*” (*dā taqūmu maqāma fi l-ʿarabiyya*, 51,13). This expression, *taqūmu maqāma*, is used in six similar instances (*Tarğumān* 50,6; 50,9; 50,11; 51,13; 51,19; 52,2) and it is also found quite frequently in the Margin Grammar (MG 42<sup>r</sup>bm; 44<sup>v</sup>rt; 47<sup>r</sup>; 50<sup>r</sup>top; 56<sup>v</sup>top; 58<sup>v</sup>rt; 59<sup>r</sup>rt; 60<sup>l</sup>t/ult) and *Dīwān* (54,14; 444,10; 540,4).

According to Versteegh (1978:275), *maqām* as a grammatical term means that “there is a specific context in which a word or an expression is normally used, but now it is replaced by another word or expression, which acts, as it were, on its behalf.” In Arabic grammar the term *maqām* is used in combination with the notion of *ittisā<sup>ʿ</sup>*, meaning both ‘individual choice of the speaker’ and ‘flexibility of the Arabic language’ (cf. Versteegh 1990:293). In a case of *ittisā<sup>ʿ</sup>*, an element is deleted from a sentence, while its syntactic function is fulfilled (*yaqūmu maqāmahu*)—temporarily—by another element. Obviously, words may only assume the place of other words when they have the same capacities in terms of governance. Applied to *dā*, the term *maqām* would imply that it has a meaning and a function similar to that of *fi*, but, at the same time, that it is not its exact equivalent.

<sup>27</sup> In this survey I have listed only the terms that are applied to *dā*.

## YANÜBU ʿAN

Ḥilya gives the description “the d and ʿalif [sc. *ḍā*] substitute for the particle *fī*” (*ḥarfū fī wa-yanūbu ʿanhu dāl wa-ʿalif*, 92,16); in *Ḥilya*, the expression *yanūbu ʿan* is used quite frequently for other Arabic words and their equivalents in Turkic (cf. *Ḥilya* 93,15; 93,14; cf. also MG 64<sup>1</sup>t).

The expression *yanūbu ʿan* is also used when one Turkic element substitutes for another. This is for example the case for the possessive ending *ī*, such as in ʿāš-ī ‘his food’ (food-POSS/3sg). According to the Margin Grammar, in certain conditions *ī* can be abbreviated to *i*, especially when a consonant follows, such as in the accusative ʿaš-i-nī ‘his food’ (food-POSS/3sg-ACC), “the *i* substitutes for the *y* that has the meaning of the third person in Arabic” (*tanūbu l-kasra ʿan al-yāʿ al-latī bi-ma ʿnā ḍamīr al-ġāʿib fī l-luġa l-ʿarabiyya*, MG 55<sup>b</sup>m).

In Arabic, the root /n-w-b/ conveys the sense of ‘to substitute’, or ‘to deputise’ for someone who is absent. In Arabic grammar the expression *nāba ʿan* is, for example, applied in a discussion of the fact that some morphemes may fulfill the function of the *ḍamma* (u) as a marker of the nominative without being declensional markers themselves. In some instances, e.g. the plural *al-muʿallimūna* /*al-muʿallimuwna*/ ‘the teachers’, the Arab grammarians argue that the *w* “represents the *u*” (*tanūbu ʿan aḍ-ḍamma*, Širbīnī 46,6) in *al-muʿallim-u* ‘the teacher’. Another instance in which the term *yanūbu*—or a derivative form—is used concerns the form of the passive verb whose agent is not mentioned, e.g. *ḍuriba zayd-un* ‘Zayd was beaten’. According to the Arab grammarians, *zaydun* is not the agent of the verb, in spite of the nominative case ending, but rather its syntactic replacement: *yanūbu al-fāʿil ʿan al-mafʿūl* (“the agent represents the object”) or *al-fāʿil nāʿib ʿan al-mafʿūl* (“the agent is the substitute of the object”).<sup>28</sup> The essence of this term, then, is that the deputy element fulfils the function of the one represented, albeit without assuming a full equivalent status (cf. also *Ḥaṣāʾiṣ* II 274ff.).<sup>29</sup>

The meaning of the verb *nāba ʿan*, therefore, is here interpreted as ‘assuming, or representing the function of something which cannot stand at that particular position’. ‘Position’, in this context, can be in-

<sup>28</sup> This term was introduced by Ibn Mālik (d. 672-3/1274), the original term being *al-mafʿūl allaḍī lam yusamma fāʿiluhu* (“the object whose agent is not mentioned”) (cf. also *Manḥağ* 111,4ff. and Carter 1981:169).

<sup>29</sup> In Zamaḥṣarī’s *Mufaṣṣal, yaqūmu maqāma* is more or less equated with *yanūbu ʿan* in the example of passive verb: “the object fulfils its [sc. the agent’s] place” (*fa-ʿuqīma l-mafʿūlu maqāmahu*, *Mufaṣṣal* 116,4; also Širbīnī 168,6).

terpreted as either syntactic or morpho(no)logical position. In this sense, the *wāw* fulfils the function of *ḍamma*, because the *ḍamma* cannot stand at that particular morphological position in a word. Likewise, in the case of passive verbs, the agent cannot occupy that particular syntactic position and, therefore, it is represented by the object. The difference with *maqām* is that in the case of *maqām* the element represented could have occupied the position taken by the representative.

### NAẒĪR

In *Šudūr* the term *naẓīr* (lit. ‘peer’) is used in various contexts that give little foundation for any conclusions with regard to the status assigned to the Turkic equivalent: “and thus you apply it in the construction with *fī* whose peer is *dah*” (*wa-kaḍā ta<sup>ᶜ</sup>mal fī l-maẓhar at-tarkīb bi-fī naẓīruhu dah*, *Šudūr* 26<sup>v1</sup><sup>30</sup>). According to Versteegh (1993:70), *naẓīr* is used as a technical term in early grammar “to indicate words with the same syntactic status because of a resemblance in form.” In *Ḥaṣā’iṣ* (II 197,8f) *naẓīr* is used in the sense of ‘having the same pattern’, which does not necessarily imply an identical meaning or status. In *’Idrāk* (142,8) *naẓīr* is used to indicate a semantic similarity between two Arabic sentences: *dafa<sup>ᶜ</sup>tu d-dirhama ’ilā sanğara* ‘I handed the *dirham* to Sanğar’ is the *naẓīr* of *’a<sup>ᶜ</sup>ṭaytu sanğara d-dirhama* ‘I gave Sanğar the *dirham*’.

### MURĀDIF

Most sources agree that *dā* is a *ḥarf*. But the terminology is not always very specific about the kind of *ḥarf*. In some cases it is simply regarded as ‘identical’ with *fī*, e.g. “the particle *fī*” *ḥarfū fī* (MG 55<sup>v</sup>rt/bm).

A more detailed term is “the particle that is synonymous with *fī*” (*al-ḥarf al-murādif li-fī*, *’Idrāk* 146,3; 136,5; 122,8; *Qawānīn* 41,6; MG 56<sup>t</sup>top). The term *murādif* is also used for a literal interpretation of a Turkic sentence (*’Idrāk* 132,12; 146,18). In one instance the expression is used conversely, in the sense that the Arabic particle “*fī* is synonymous with *dā*” (*fī al-murādif li-dā*, *Tuḥfa* 72<sup>v</sup>9). The term *murādif* is, with its related form *mutarādif*, the usual term for ‘synonym’ in lexicography (cf. Lane; also Versteegh 1993:153). In other works of *’Abū Ḥayyān*, however, the term *murādif* is limited to ‘having the same meaning’, perhaps including the fact of belonging to the same class, but explicitly excluding full similarity in distribution. In *Irtiṣāf*, for ex-

<sup>30</sup> The term *maẓhar* is also frequently used in *Sirr*, e.g., I 329,9.

ample the locative (*zarf*) *'id* 'at the time, when' is discussed, and "*hīna* ['at the time'] is synonymous with it" (*yurādīfuhā hīna*), but its use, and, hence its function, is not equal, e.g. *'id* may follow *hīna*, *hīn-'id* 'when', but not the other way around (*Irtiṣāf* II 234,6). To give another example, in *Manhağ* 'Abū Ḥayyān discusses the locative *ladun* 'at', and states

"With regard to *ladun*, its equivalent is *'inda* and *'inda* 'at, with' may be used in its place, but *ladun* cannot be used in [*'inda*'s] place." (*'ammā ladun fa-'innahā turādīfu 'inda wa-taṣluḥu 'inda makāna ladun wa-lā taṣluḥu ladun makānahā*, *Manhağ* 293,12.).

This incomplete synonymy of particles is confirmed by Gully's (1994) findings. Gully states that "a particle could only replace another if the two meanings amounted to one, and if the meaning of the speech of which they were part was one, or, at least, could be traced back to that meaning." A linguistic element may be partially synonymous with another but not fully; in this way *'ilā* 'to' is only partially synonymous with *ḥattā* 'until'.





CHAPTER FIVE  
THE GENITIVE CASE (ĞARR)

INTRODUCTION

This chapter deals with the instances in which a genitive case occurs in Arabic and the way the constructions in which it appears are reflected into Turkic.

In Chapter Four we have seen that the Arabic grammarians acknowledged three types of governance relations, expressing the syntactic positions of *raf<sup>c</sup>*, *ğarr* (or *ħafđ*), *naşb* and *ğazm*, respectively. The syntactic positions are indicated in the surface structure by means of the declensional markers *u*, *i* and *a*. With respect to nouns, all instances in which these governance relations occur are reduced to three functional categories; *raf<sup>c</sup>* is related to agency (*fā'iliyya*), *naşb* to objectivity (*maf'ūliyya*), and *ğarr* to annexation (*'idāfa*). The genitive case (*ğarr*), the subject of this chapter, thus typically occurs because of annexation (*'idāfa*). The annexation construction is used to express a relation between two nouns. In the opinion of the later grammarians this construction of two nouns is possible only if a particle serves as the connective element. A special type of such a relation is the possessive relation in which the particle does not occur in surface structure. In this chapter I shall also deal with the locative (*zarf*). The locative is connected with the genitive case in two ways: in the first place because it is basically considered a relation between two nouns; and secondly, because the *zarf* includes the meaning of a particle, i.e. *fī* 'in'.

The present discussion of the genitive case will be a survey of the way the Arabic grammarians conveyed Arabic particles and locatives into Turkic. We shall see that most Turkic case endings are regarded as equivalents of the Arabic particles, and make some assumptions as to the status the Arabic grammarians assigned to these equivalents in terms of government. In the first place, we shall see how the problem of two Arabic particles with the same equivalent in Turkic was solved. The third issue will be the analysis of one Arabic particle which in Turkic is equivalent to a sequence of two elements. The final issue is the Turkic possessive construction and how it fits into Arabic theory.

Furthermore, in section 2.4.1, we shall discuss the Turkic equivalents of some Arabic annexation constructions and investigate how they fit into their theories of governance.

As has been argued in Chapter Four, it is my hypothesis that the principal place  $\text{ʔi}^{\text{c}}\text{rāb}$  and government occupy in Arabic linguistic theory can be accounted for with the assumption that these concepts are essentially based on Arabic syntactic case. It shall be seen in the present chapter and in Chapter Six that only in one instance, the accusative, a Turkic case ending is in fact assigned a status similar to that of an Arabic case ending, whereas all other Turkic cases are considered equivalent to Arabic particles. In our line of argumentation this is hardly a coincidence, for the accusative is the only syntactic case of Turkic.

## 1. ANNEXATION AND PARTICLES IN ARABIC

### 1.1 Annexation

According to ʔAbū Ḥayyān,

“annexation is a connective relation between two nouns that invariably causes a genitive case in the second noun.” (*al-ʔiḏāfa nisba bayna smayni taqayyudiyya tūgibu li-tānihimā al-ḡarr ʔabadan*, *Irtišāf* II 501,4; the same definition is found in *Manhaḡ* 263,7.)

The first noun of a so-called annexation construction is called ‘the annexed’ (*muḏāf*) and the second ‘the [noun] to which is annexed’ (*al-muḏāf ʔilayhi*). On the surface level the annexation is realised as in (1):

1	<i>bayt-u</i>	<i>zayd-in</i>
	house-NOM/DEF	zayd-GEN
	‘Zayd’s house’.	

In the theories of the so-called later grammarians—among whom ʔAbū Ḥayyān is to be reckoned—the two nouns are typically connected by means of a particle in the underlying structure, which causes the genitive case in the second word, viz. (2)

2	<i>bayt-u-n</i>	<i>li-</i>	<i>zayd-in</i>
	house-nom-INDEF	to	zayd-GEN
	‘A house to Zayd’.		

With regard to the fact that a particle connects the two nouns, this type of particles is often called a ‘particle of annexation’ (*ḥurūf al-*

<sup>ʿ</sup>*idāfa*). In this way a discussion of the genitive case is to a great extent equivalent to a discussion of the particles of annexation. In terms of governance relations, the particle *li* in (2) is the *ġārr*, ‘the [element] that governs in the genitive’, and the governed noun (*zaydin*) is called *maġrūr*, ‘the [element] governed in the genitive’. This particle accounts for the genitive case (*ġarr*), since—in the view of the later grammarians—a noun cannot govern and, hence, cannot cause a case: “The basis of the governance of the genitive is because of the particle, not because of the nouns.” (ʿaṣl ʿamal al-ġarr ʿinnamā huwa li-l-ḥarf lā li-l-ʿasmāʿ, *Manhaġ* 265,6, see also discussion in Chapter Four). A noun may only govern insofar as it substitutes for a particle,

“except that the Arabs limited the use of the particles of the genitive to certain syntactic positions and annexed nouns to each other, and the noun substitutes for the particle and exerts governance, i.e. the genitive.” (ʿillā ʿanna l-ʿarab iḥtaṣarat ḥurūf al-ġarr fī mawāḍiʿ wa-ʿadāfat baʿḍ al-ʿasmāʿ ʿilā baʿḍ fa-nāba l-ism al-muḍāf manāb al-ḥarf fa-ʿamila wa-huwa l-ġarr, *Manhaġ* 265,7-8.)

## 1.2 The locative

A special class of nouns, the *zurūf* (sg. *zarf*, ‘locative’), which can be annexed to other nouns, implicitly conveys the sense of a particle in the underlying structure, i.e. *fī* ‘in’. The *zarf*, also called *mafʿūl fihi* ‘the object in which’, is one of the optional objects of the verb (see Chapter Six; cf. also Owens 1988:131ff. and Mosel 1975:345ff.). The *zarf* depends on a verb which conveys an action and which is visible in the surface structure (*madkūr*), e.g.

3	<i>mašā</i>	ʿ <i>amr-un</i>	ʿ <i>amām-a</i>	<i>zayd-in</i>
	walk/PAST/3sg	ʿ <i>amr-NOM</i>	front-ACC/DEF	<i>zayd-GEN</i>
	‘Amr walked in front of Zayd.’			

In (3), the verb *mašā* governs ʿ*amām-a* in the accusative case (and ʿ*amr-un* in the nominative). The verb may also be absent from the surface structure,

4a	ʿ <i>amr-un</i>	ʿ <i>ind-a</i>	<i>zayd-in</i>
	ʿ <i>Amr-NOM</i>	with-ACC/DEF	<i>zayd-GEN</i>
	‘Amr is with Zayd’ or ‘at Zayd’s.’		

In that case the verb is implied in the underlying structure (*muqad-dar*), which can be reconstructed as:

4b	‘ <i>amr-un</i> ‘amr-NOM	<i>kā’in-u-n</i> be/PART - NOM -INDEF	‘ <i>ind-a</i> with-ACC/DEF	<i>zayd-in</i> zayd-GEN
----	-----------------------------	---	--------------------------------	----------------------------

ʾAbū Ḥayyān defines the *zarf* as follows:

“...’the object in which’, or the locative, is [a noun] conveying a time or place [e.g. *layl* ‘night’, ʾ*mām* ‘front’] that is assigned the accusative by implication of *fī* with respect to an action [occurring] in it.” (*al-mafʿūl fīhi wa-huwa z-zarf wa-huwa mā ntaṣaba min waqtin ʾaw makānin ʿalā taqdīr fī bi-ṭṭirād li-wāqi in fīhi, Irtiṣāf* II 225,2f.)

In early Arabic linguistic theory, the particle should not appear in the surface structure, since in that case the noun would depend on the particle instead of on the verb, and, as a result, it would stop being an object. The noun *dār* ‘house’, for instance, although denoting a place, is not considered a *zarf*, because it does not contain the meaning of *fī*. For this reason it cannot serve as a direct dependent of the verb in this sense, viz.,

5a	* <i>ḡalasa</i> sit/PAST/3sg	‘ <i>amr-un</i> ‘amr-NOM	<i>dār-a</i> house- ACC/DEF	<i>zayd-in</i> zayd-GEN
----	---------------------------------	-----------------------------	-----------------------------------	----------------------------

\*‘Amr sat Zayd’s house.’

Instead, with nouns like *dār*, *fī* must be used in the surface structure:

5b	<i>ḡalasa</i> sit/PAST/3sg	‘ <i>amr-un</i> ‘amr-NOM	<i>fī</i> in	<i>dār-i</i> house- GEN/DEF	<i>zayd-in</i> zayd-GEN
----	-------------------------------	-----------------------------	-----------------	-----------------------------------	----------------------------

‘Amr sat in Zayd’s house.’

Later grammarians, such as az-Zamaḥṣarī and ʾAbū Ḥayyān (*Irtiṣāf* II 253,7) distinguished two categories of locatives. First, a *zarf muḥtaṣṣ* ‘specified locative’ (*zurūf muwaqqata* ‘temporary locatives’ in Zamaḥṣarī, *Mufaṣṣal* 25,15, which includes nouns denoting a specified space or time (e.g. *dār* ‘house’, *masḡid* ‘mosque’, or *sūq* ‘market), and which can be used only with *fī* in the surface structure (see below Section 2.5.2; Owens 1988:136), and secondly, a *zarf mubham*, denoting an unspecified space or time (e.g. *inda*, or *ḥalfa*) and directly governed by the verb.

Locatives of time, on the other hand, never require *fī* in the surface structure: *qumtu l-yawma* ‘I stood up today’ and *sirtu yawman ṭawīlan* ‘I travelled a long day’ (*Irtiṣāf* 226). The locatives of time, too, are divided into *muḥtaṣṣ* and *mubham*. To the *muḥtaṣṣ* belongs, for example, the word *ṣahr* ‘month’, that can be annexed to the names of the months, e.g. *ḡiʾtu ṣahr-a ramaḍān-i* ‘I came [in] the month [of] Ramaḍān’ (cf. *Irtiṣāf* 226,19). The *zarf mubham* comprises nouns that

denote unspecified quantities of time, e.g. *waqt*, *zamān*, and *ḥīm* all meaning 'time', e.g. *ǧi'tu ḥīna qiyāmihi* 'I came [at] the time he stood up'.

Positing a particle in the underlying level, though, may lead to different effects on the surface level. In the locatives, the accusative is considered to 'contain' the meaning of the particle without showing any traces of governance thereof, for the accusative case is assumed to be caused by the verb (or by a verb in the underlying level), only the meaning of the particle being implied, not its governance. In other instances, especially in the possessive construction (see above Section 1.1) the particle is posited in the underlying level because of the apparent lack of a governor in the surface structure. This way of argumentation reveals an interesting paradox in the Arabic argumentation; the accusative in the locatives is assigned a semantic content, namely that of *fī*, which would make it a semantic case. At the same time, however, its appearance is accounted for in terms of governance, i.e. as syntactic case.

## 2. TURKIC EQUIVALENTS OF ARABIC PARTICLES

The status of a linguistic element is in the first place indicated by its assignment to one of the three main classes: nouns, verbs and particles. In this section it will be seen that the Turkic case endings and postpositions are basically equated to what in Western studies are considered particles. The status and governing capacities the grammarians assign to the Turkic elements varies according to their use in comparison to Arabic.

I have selected five items which are expected to cause varying difficulties in Arabic theory. The first case is *fī* 'in', which finds an equivalent in the Turkic locative case, which can be simply interpreted as a particle. The second is *bi* 'with', whose Turkic equivalent has several meanings, one of which is best expressed with the Arabic noun *ma'a* 'together with'. An important part of our discussion of the Turkic equivalent deals with the question what the status of the Turkic element should be. Thirdly is *'ilā*, which basically means 'to', but can also be used in the sense of 'until'. In the former sense, it is reflected with simply with a Turkic ending; in the second sense, however, it is used in combination with a postposition. It is expected that the grammarians will have difficulties in assigning a status to the postposition. The fourth instance is the particle *li* 'for' and the possessive construction. In the fifth and last place, I discuss the locative (*zarf*). We

shall see that an innovation of the later grammarians to include constructions in which the particle *fī* ‘in’ (or its translation for that matter) is visible in surface structure is especially convenient for the analysis of Turkic constructions.

### 2.1 *The case of fī*

In this section we examine how the particle *fī* is translated into Turkic and which terminology is used to describe the status of the equivalent. In this framework we will not be able to examine all instances in which *fī* occurs, so the discussion will be limited to those cases in which it is equated with *dā*. Further analyses with *fī* are given in the discussion of the locative (below in Section 2.5.)

The sources basically agree that *fī* is translated into Turkic as *dā*.<sup>1</sup> This becomes implicitly evident from the translations of phrases that contain *fī*, e.g. *ʿaw-dā* is translated as *fī l-bayt-i* ‘in the house’ (MG 58<sup>v</sup>rt). Apart from this rather implicit semantic relation with the Arabic particle *fī*, the sources also describe the status of *dā* in relation to *fī*. We have seen above that *fī* is a particle that serves to connect two nouns to each other, and as such it governs nouns and causes them to take the genitive case. In this respect, the assignment of the term *ḡarr* or *ḥarf ḡarr* to its Turkic equivalent, *dā*, and *maḡrūr* to the noun it is connected to are important indications of its status.

In western studies of Turkic, *dā* is generally considered a locative case ending whose form differs according to consonant assimilation *ʿaw-dā* ‘in the house’ - *kant-tā* ‘in the town’, while the pronunciation depends on whether the word is ‘back’, e.g., [taɲda] ‘in the morning’ or ‘front’, e.g., [evde] ‘in the house’ (for further details regarding vowel and consonant assimilation the reader is referred to Chapter Three).

#### ḤARF AL-ʿIDĀFA

In *ʿIdrāk*, *dā*, along with other Turkic equivalents of the Arabic particles, is classified as a ‘particle of annexation’ (*ḥarf al-ʿidāfa*): “These are the particles of annexation that come at the end of the word, as we showed, unlike the particles of annexation in the Arabic languages” (*wa-hādīhi ḥurūf al-ʿidāfa taʿti ʿaḥīran kamā maṭṭalnā bi-ḥilāf ḥurūf al-ʿidāfa fī l-lisān al-ʿarabī*, 145,18). The status of the Turkic particle as a governor is inferred only implicitly; the term *ḥurūf al-ʿidāfa* refers

<sup>1</sup> In CC (80) *dā* is translated into Latin as both ‘ad’ and ‘in’.

to a syntactic function rather than to a syntactic position.<sup>2</sup> In Chapter Four I pointed out that *ʔidāfa* is a syntactic function for which words are marked with the genitive case (*ğarr*). In practice, however, *ħarf al-ʔidāfa* refers to the same as *ħarf ğarr*, since annexation (*ʔidāfa*) always involves governance in the genitive case (*ğarr*). Therefore, its application to Turkic *ħurūf* can be safely interpreted as a reference to their syntactic position.

### ĤARF ĞARR

Although several sources (e.g. *Qawānīn* 44-46) have the term *ħarf ğarr*, ‘particle of the genitive’ or a closely related one, such as *mağrūr* ‘noun governed in the genitive’ in their chapter and section headings, these terms must be regarded basically as a reference to the Arabic particles rather than their Turkic counterparts. In addition, there are many instances in which the terms *ğarr* and *ħarf ğarr* are applied to the Turkic equivalent of the Arabic particle *fi* or the element it governs.

In *Qawānīn*, for example, *dā* is explicitly termed both a *ħarf ğarr* and the synonym of *fi*: “*dā* is the particle of the genitive which is synonymous with *fi*” (*wa-dā ħarf al-ğarr al-murādif bi-fi*, 41,6; also: 36,6). Indeed, not only *dā* but nearly all Turkic equivalents of Arabic *ħurūf al-ğarr* (as far as they exist in Turkic, cf. *Qawānīn* 41,2) are explicitly categorised as *ħurūf ğarr*. In one passage in *ʔidrāk*, ʔAbū Ĥayyān, too, assigns the status of *ħarf ğarr* directly to a Turkic particle: “it is permitted to use another particle of the genitive than *dā*” (*wa-yağūzu duħūl ħarf ğarr ğayr dā ʕalayhā*, 136,5). In *Tuħfa*, too, the term *ħarf ğarr* serves as a reference to Turkic ‘particles’: “...the particle of the genitive which is synonymous with *fi* in Arabic, which expresses the act of containing, and this [particle] is *dā*” (...*ħarf al-ğarr al-murādif li-fi ʕarabiyyatan allatī li-l-wi ʕā ʔ wa-huwa dā*, 66<sup>v</sup>3-5; also 72<sup>v</sup>9; also MG 58<sup>rt</sup>)

The fact that in Turkic the *ħurūf al-ʔidāfa* follow the noun instead of preceding it does not seem to have disturbed the grammarians, although in Arabic linguistics it is assumed that a governor always precedes the element it governs:

<sup>2</sup> In *ʔidrāk*, the *ħurūf al-ʔidāfa* are discussed under the heading *al-qawl fi l-ʔidāfa* (144,19, which is separated into two subdivisions, i.e. annexation with [144,19] and without particles [146,15]). This approach is quite unlike the one ʔAbū Ĥayyān applies in *Irtiṣāf* (II 426) and *Manħağ* (231), in both of which the *ħurūf al-ğarr* are treated in a separate chapter followed by a one on the *ʔidāfa*, although for *Manħağ* this may have been determined by the structure of Ibn Mālik’s *ʔAlfiyya*.

“These are the particles of annexation that come at the end [of the word], as we showed, unlike the particles of annexation in the Arabic language.” (*wa-hādīhi ḥurūf al-ʾidāfa taʾī ʾaḥīran kamā mattalnā bi-ḥilāf ḥurūf al-ʾidāfa fī l-lisān al-ʿarabī*, ʾIdrāk 145,18.)

This is stated in a similar way in *Qawānīn*:

“It must be known that the governor of the genitive in this language is connected to the last consonant of the governed [noun] in all circumstances, the opposite of the Arabic.” (*wa-l-yuʿlam ʾawwalan ʾanna l-ḡarr fī ḥādīhi l-luḡa ʾinnamā yattaṣilu bi-maḡrūrihi ʾaḥīran fī l-ʾaḥwālī kullihā ʿaks al-ʿarabiyya*, *Qawānīn* 40,19.)

In other words, the Turkic particle is the *ḡarr* and the noun that precedes is its *maḡrūr*, whereas in Arabic the word in the genitive follows its particle. The discussion of the *fī* continues in Section 2.5.

## 2.2 The case of *bi*

The second of the Arabic *ḥurūf al-ḡarr* I propose to discuss here is the particle *bi* ‘with’. The basic function of *bi* is to denote instrumentality (*istiʿāna*): *ḍarabtuhu bi-s-sayf-i* ‘I beat him with the sword’. Apart from this basic meaning, which will be the issue here, *bi* is used in various other meanings, such as accompaniment (*muṣāḥaba*), e.g. [*iṣṭaraytu l-farasa*] *bi-sarḡīhi* ‘[I bought the horse] along with its saddle’, compensation (*muqābala*), [*iṣṭaraytuhu*] *bi-dirhamin* ‘[I bought it] for a dirham’, the oath (*qasam*), *bi-llāhi* ‘by God’, etc. (cf. *Irtiṣāf* II 426ff.).

The Arabic grammarians found that the Turkic counterpart of *bi* in its sense of instrumentality is *bilā* which also serves as the translation of *maʿa* ‘together with’, which, in its turn, in Arabic is principally used to indicate accompaniment (*iṣṭiṣḥāb*), e.g. *ḡiʿtu maʿa zayd-in* ‘I came [together] with Zayd’.

In western grammars of Turkic, *bilā* (and its older variant *birlā*) is regarded as a postposition used for conveying the sense of both instrumentality and accompaniment.

In ʾIdrāk, *bilā* is used in the following sentences:

6	qalam pen ‘I wrote with the pen.’	bilā with	yaz-du-m write-PAST-1sg
7	saṅḡar saṅḡar ‘I came together with Saṅḡar.’	bilā with	kal-di-m come-PAST-1sg



In combination with pronouns (except 3pl), *bilā* is preceded by the respective genitive suffixes:

8a	<b>man-im</b> I-GEN 'with me'	<b>bilā</b> with
8b	<b>biz-iḡ<sup>3</sup></b> we-GEN 'with us'	<b>bilā</b> with

Apart from the clear difference in meaning, in Arabic grammar there is also a categorial distinction between *bi* and *ma<sup>ʿ</sup>a*. *Bi* is, as we have seen, a *ḥarf ḡarr*, whereas *ma<sup>ʿ</sup>a* is a noun: "noun for the place or time of accompaniment" (*ism li-makān al-iṣṭiṣhāb ʿaw waqtihi, Irtiṣāf* II 267,4ff. also II 449). In this sense, *ḡi<sup>ʿ</sup>tu ma<sup>ʿ</sup>a zaydin* 'I came with Zayd' could also be translated as 'in Zayd's company' or 'at the time Zayd came'. In other words, *ma<sup>ʿ</sup>a* is a noun used as a *zarf* (locative). This status of *ma<sup>ʿ</sup>a* is usually demonstrated by its use in combination with a *ḥarf ḡarr*, especially *min* 'from': *min ma<sup>ʿ</sup>i* 'by me', and, further, its full inflection (i.e. with nunation) when used adverbially *ḡi<sup>ʿ</sup>nā ma<sup>ʿ</sup>an* 'we came together'. Both governance by a *ḥarf ḡarr* and full inflection (with nunation) are typical characteristics of nouns.

In this respect the Arabic grammarians are confronted with the problem of assigning a status to *bilā*, which conveys two meanings that are associated with Arabic words belonging to a different category. The sources display two opinions.

The first opinion is that *bilā*, as an equivalent to *bi*, is primarily regarded as a *ḥarf ḡarr*. Furthermore, by extension, it may convey the meaning of *ma<sup>ʿ</sup>a*, albeit without assuming its status of a locative noun (*zarf*). This opinion is reflected in ʿAbū Ḥayyān's ʿ*Idrāk*, where *bilā* conveys "the meaning of both *bi* and *ma<sup>ʿ</sup>a*" (*bi-ma<sup>ʿ</sup>nā al-bā<sup>ʿ</sup> wa-bi-ma<sup>ʿ</sup>nā ma<sup>ʿ</sup>a*, ʿ*Idrāk* 144,21); "I wrote with the pen" *qalam bilā yaz-dum*, "I came with Saḡar" *saḡar bilā kaldim* (*katabtu bi-l-qalami, ḡi<sup>ʿ</sup>tu ma<sup>ʿ</sup>a saḡar*, ʿ*Idrāk* 145,17). ʿAbū Ḥayyān's opinion as to the status of *bilā* becomes explicit from his remark (after listing its use with the pronouns and their possessives): "*bilā* has the meaning of *ma<sup>ʿ</sup>a* as if it were a locative" (*wa-bilā bi-ma<sup>ʿ</sup>nā ma<sup>ʿ</sup>a ka-ʿannahā zarf*, ʿ*Idrāk* 146,3). In other words, ʿAbū Ḥayyān appears to be saying, in some instances *bilā* has the meaning of a *zarf*, although in reality it is not. In

<sup>3</sup> The fact that the sources have different forms, due to differences in languages and dialects, e.g. *man-iḡ* (1sg) or *biz-im*, *miz-iḡ* (1pl), etc. instead of the ones mentioned here, is not relevant to this discussion.

ʾAbū Ḥayyān's view, the major criterion for assigning to any Arabic element the status of a noun with the function of a *zarf* is the question of whether *fi* is implied. This, for example, is the case with *ʾinda* 'at, with' and *ʾamām-a* 'in front [of]'. For a Turkic *zarf* ʾAbū Ḥayyān seems to apply the same criterion, i.e. whether the meaning of *fi* is implied, which involves its equivalent in Turkic, i.e. *dā*. In practice this means that the Turkic equivalent of an Arabic *zarf* must have *dā* in the surface structure.<sup>4</sup>

"...the equivalent of 'in', which is *dā*, is not used with it, unlike *qaṭ* which has the meaning 'with'." (*wa-lā yaqḥulu ʾalayhā murādif fi llaḏi huwa dā bi-hilāf qaṭ bi-ma ʿnā ʾinda*, ʾIḍrāk 146,2-3.)

Abū Ḥayyān probably relates this to the fact that in the Turkic equivalents of many Arabic *zurūf* the 'particle' *dā* is used, e.g. *fawqa* 'above' ʾustun *dā*, *taḥta* ʾaltindā 'underneath'. In other words, it seems that ʾAbū Ḥayyān's main reason for not regarding *bilā* as a *zarf* is the fact that it cannot be construed with *dā*, as opposed to other Turkic *zurūf*.

The second opinion is that *bilā* is equivalent to *ma ʿa*, and is considered a noun with the function of a *zarf*. This opinion is evident in *Qawānīn*. First it is pointed out that *bilā* is used as a translation of *bi* (instrumental) in sentences like *qiliğ bilā ʾurdum ḍarabtu bi-s-sayfi* 'I beat with the sword'. Its use as an equivalent of *ma ʿa* (comitative) seems secondary, which is inferred from the use of the word ʾayḍan 'too': "the word *bilā* is also used with the meaning of *ma ʿa*, 'I came with the chief *bī bilā kaldum* (*wa-tusta ʿmal lafza bilā ʾayḍan bi-ma ʿnā ma ʿa ḡʾtu ma ʿa l-ʾamiri bī bilā kaldum*, *Qawānīn* 41,9). In another passage, however, he seems to assign the primary meaning of *ma ʿa* to *bilā* "the word *bilā*... and its meaning is *ma ʿa*" (*lafza bilā... wa-ma ʿnāhā ma ʿa*, *Qawānīn* 34,4). The most explicit statement with regard to the status of *bilā* is found in a discussion related to the equivalents of Arabic pronouns governed by *bi*. According to the author of *Qawānīn*, in Turkic pronouns are not governed by *bi*:

"I do not know in this language a pronoun that is governed in the genitive by *bi*; instead, they use *ma ʿa* whose equivalent is *bilā*." (*wa-ʾammā l-bā ʾfa-lā ʾa ʿrifu fi hāḏihi l-luḡa ḍamīran yuḡarr bi-l-bā ʾ wa-ʾinnamā yaḡurrūna bi-ma ʿa wa-yurādifuhā bilā*, *Qawānīn* 45,11.)

(This statement is followed by a listing of the Turkic pronouns in combination with *bilā*, e.g. *ma ʿi manim bilā* 'with me', and *ma ʿahu*

<sup>4</sup> This holds as far as locatives of place are concerned. According to Arabic grammar locatives of time cannot be used with *fi* in surface structure. In Turkic many locatives of time (adverbs of time) do not have *dā*.

'**anin bilā** 'with him', etc..) Although the author seems to consider **bilā** as the equivalent of *ma<sup>ʿ</sup>a* rather than *bi*, it is not clear whether he also assigns it the status of *zarf*. The use of the general term *lafza* 'word' for **bilā** gives no clues in this respect. In short, according to *Qawānīn* the Arabic particle *bi* has no equivalent in Turkic.

In *Tarğumān*, too, the primary meaning of **bilā** seems to be *ma<sup>ʿ</sup>a*. The fact that the word (*lafza*) *ma<sup>ʿ</sup>a* is listed as an entry among other *zurūf*, e.g. *al-wasaṭ* 'middle' (used in the sense 'between') and '*inda* 'with', may serve as a first piece of evidence (*Tarğumān* 54,3-6). A second indication may be the fact that in *Tarğumān bilā*, besides the expected combinations—*ma<sup>ʿ</sup>aka* 'with you' **sanin bilā**—is also used with **dā**:

9	' <b>a-nin</b>	<b>bilā-si-n-dā</b>
	he[OBL]-GEN	with-POSS-n <sup>5</sup> -LOC
	'with that one' ( <i>ma<sup>ʿ</sup>a dāka</i> ).	

Likewise, *ma<sup>ʿ</sup>a ʿulāʿika* 'with them' is '**an-lār bilā-lār-i-n-dā**, *ma<sup>ʿ</sup>i* 'with me' **bila-m dā** and *ma<sup>ʿ</sup>anā* 'with us' **bilā-muz dā**.<sup>6</sup> It is not clear whether **bilā** is assigned the status of *zarf*.

Šuḍūr's author Ibn Muḥammad Šāliḥ seems to have a preference for *ma<sup>ʿ</sup>a* as the main equivalent of **bilāh**, his version of **bilā**, as well.<sup>6</sup> He refers to one of the other meanings of *bi* (i.e. *muṣāḥaba* 'accompaniment'), and thus first equates *bi* and *ma<sup>ʿ</sup>a* in Arabic before translating them into Turkic. In this way "*ma<sup>ʿ</sup>a* and *bi* of accompaniment [are] **bilāh**" (*ma<sup>ʿ</sup>a wa-bāʿ al-muṣāḥaba bilāh*, Šuḍūr 26<sup>r</sup>2) are equivalent in meaning. Ibn Muḥammad Šāliḥ uses the term *naẓīr*:

"and thus you apply it in the construction with *ma<sup>ʿ</sup>a* whose peer is [both] **bilāh** and **lah**." (*wa-kaḍā taʿmal fi l-maẓhar at-tarkīb bi-ma<sup>ʿ</sup>a naẓīruhu bilāh wa-lah*, Šuḍūr26<sup>r</sup>7ff.)

The fact that **bilāh** is also the equivalent of *bi* seems of secondary importance: "likewise, 'by me' is **bilāh**" (*wa-kaḍālika bī bilāh*, Šuḍūr 26<sup>r</sup>9).

In the other sources neither opinion is obvious. In MG, for instance, both meanings of *bi* are expressed. In one instance **bilā** (along with the older variant **birlā**) is, as expected, mentioned as the equivalent of *bi* (cf. MG 58<sup>v</sup>rt). The author may have tried to solve the problem by discerning two dialectal variants of **bilā**. To one of them, **lah** (which is

<sup>5</sup> This **-n-** is inserted as an intermediate consonant after possessive endings (3sg and 3pl) when they are followed by cases.

<sup>6</sup> The orthographic differences in the reflection of **bilā** (**bilāh**, **bilā**, **bilā**) are due to different writing conventions.

probably Ottoman) he assigns the sense of *bi* and to the other *bilah*, that of *maʿa*, viz., *banūm-lah bi* ‘by me’ versus *manūm bilah maʿi* ‘with me’ (MG 59<sup>b</sup>bm).<sup>7</sup>

In *Hilya*, both *maʿa* and *bi* are regarded as a *ḥarf*, and, as a consequence, they may have one single equivalent: “[As for] the particle *maʿa* and the added [particle] *bi*, the word *bilā* substitutes both of them in Turkic.” (*ḥarf maʿa wa-l-bāʿ az-zāʿid wa-humā fi t-turkiyya yanūbu ʿanhumā lafza bilā*, *Hilya* 93,1.)

### 2.3 The case of ʾilā

This section discusses the way the meanings of ʾilā and *ḥattā*, and the notion ‘until’ are reflected in Turkic, and the analyses the Arabic grammarians give of the respective Turkic equivalents.

#### 2.3.1 ʾilā meaning ‘to’

The Arabic particle ʾilā is basically used to convey a motion or direction toward a place or until a point in time, e.g. *ḍahabtu ʾilā makkata*<sup>8</sup> ‘I went to Mecca’ and *baqītu ʾilā yawmi l-qiyāmati* ‘I waited until the day of Judgement’. When used in this sense, ʾilā is called *ḥarf al-intihāʾ*. By extension ʾilā is also used to express the end point of a motion (*al-ḡāya*), e.g. *waṣaltu ʾilā makkata* ‘I arrived at Mecca’, especially when it is opposed to *min*, ‘from’ (*Irtiṣāf* II 449,16; II 567,3; cf. Wright 1986 [1898] II 144ff.; Gully 1994:41). In this last meaning, ʾilā is synonymous with the particle *ḥattā*, ‘until’, e.g. *ʾakaltu s-samakata ḥattā raʾsihā* ‘I ate the fish until its head’, excluding the end point itself, i.e. *raʾsihā*, ‘its head’.

As in all Turkic languages, in the Turkic languages described in our sources, too, the notion ‘to’ or ‘towards’ is conveyed by means of the dative case:

9	<b>bak-imiz</b> chief-POSS/1pl ‘Our chief went to Khorāsān’ (ʿamīrunā mašā ʾilā ḥurāsān, <i>Hilya</i> 92,5).	<b>ḥurāsān qā</b> Khorāsān-DAT	<b>bār-dī</b> go-PAST/3sg
---	---	-----------------------------------	------------------------------

<sup>7</sup> MG (59<sup>b</sup>bm) also lists various other meanings of *bi* (accompaniment, compensation, instrumentality, etc.) and their respective realisations in Turkic. In this respect, interestingly, *bi* is equated with the ʾalif/ʾ in *ḡā /ḡaʾ/* — and other ‘elements’ ending in *-ā*, some of which, in fact, consist of the final consonant of a word and a case ending (dative) — *ṣattūm art-ḡā bi ʿtu bi-zāʿidin* ‘I sold [it] with a profit’.

<sup>8</sup> *Makka* belongs to a class of nouns that do not get the ending *i* in the genitive case.

2.3.2 *ʿilā* meaning ‘until’

Turkic case endings usually denote a very general motion or place, and a specific meaning, such as ‘until’, is conveyed by means of a postposition after the case ending. (It will be seen that this postposition is not the same in all sources.) In *ʿIdrāk* the dative case is followed by the postposition **daqin**:

10	<b>makka-kā</b> Mecca-DAT	<b>daqin</b> until, as far as	<b>yuri-di-m</b> walk-PAST-1 sg
	‘I walked as far as Mecca’ ( <i>sirtu ḥattā makkata, ʿIdrāk</i> 145,12).		

The issue we deal with in this section is how the grammarians coped with the problem of assigning a status to a combination of two elements, i.e. **kā** and **daqin**, which serve to express a notion that in Arabic is conveyed by means of one word.

The Turkic equivalent of *ʿilā* is **ḡā**, viz., “to the particles of the genitive belongs the word **ḡā**, with the meaning of ‘towards’ that governs the genitive” (*wa-min ḥurūf al-ḡarr lafza ḡā bi-maʿnā ʿilā l-ḡarra*, MG 58 top).<sup>9</sup> In *Qawānīn* (42,7), too, the first meaning of *ʿilā* is **kā** or **ḡā**:

11	<b>šār ḡā</b> city-DAT	<b>bar-du-m</b> go-PAST-1 sg
	‘I went to the city’ ( <i>ruḥtu ʿilā l-madīnati</i> ).	
12	<b>kant kā</b> town-DAT	<b>kat-tu-m</b> go-PAST-1 sg
	‘I went to the town’ ( <i>dahabtu ʿilā l-baladī, Qawānīn</i> 42,7).	

In *ʿIdrāk*, though, in the introductory list of particles, it is not **ḡā** but **daqin** that is mentioned as the particle conveying the meaning of both *ʿilā* and *ḥattā* (144,21). Furthermore, elsewhere (145,15), in the analysis of (10), it is specified that **ḡā** and **kā** indeed express the meaning of *ʿilā*, but that they are used pleonastically together with **daqin** (*maʿnā kullīn minhumā ʿilā lākinnahā tustaʿmal murdifatan bi-daqin*). In other words, in ʿAbū Ḥayyān’s opinion, the basic meaning of *ʿilā* is conveyed by means of **daqin**, whereas **ḡā** has a merely complementary function.

In *Qawānīn* the addition of this element is also discussed, but it is assigned a different status:

<sup>9</sup> In the Margin Grammar and *Dīwān* the meaning of the dative case ending **kā** is described as “particle-locative with the function of ‘to’” (*ḥarf zarf bi-manzila ʿilā*, MG 40<sup>r</sup>; identical with *Dīwān* 538,5). This expression is difficult to interpret since no choice is made between the terms *ḥarf* and *zarf*.

“and if [<sup>ʿ</sup>ilā’s] meaning is the reaching of the goal [i.e. ‘until’], then add the word **dakin** to this marker” (*wa-ʿin kāna ma-ʿnāhā intihā*<sup>ʿ</sup> *al-ġāya fa-zid ʿalā hādīhi l-ʿalāma lafza dakin*, 42,10).

This implies that **ġā** expresses the basic meaning, and that **dakin** is added as a complementary element.

### 2.3.3 Ibn al-Muhannā on ‘until’

A third solution for this problem is given in *Ḥilya* (91,3), where **takī** (which reflects the same meaning as **daqin** and **dakin** in the other sources) is regarded as an equivalent of the Arabic *ḥarf al-ġāya* (particle of the goal), i.e. both *ḥattā* and <sup>ʿ</sup>*ilā* that express the goal (*al-ġāʿiyyatayni*), e.g.,

13a	<b>tāwuk</b> so-and-so ‘So-and-so went as far as ‘Irāq.’	ʿ <b>Irāq-qā</b> ʿIrāq-DAT ‘Irāq.’	<b>takī</b> until	<b>bār-miš</b> go-INFER/3sg
-----	--	--	----------------------	--------------------------------

Underneath some of the Turkic words their respective equivalents in Arabic are (in Rifʿat’s edition) printed in a small font:

13b	<b>tāwuk</b> <i>fulān</i> so-and-so	ʿ <b>Irāq</b>	<b>qā takī</b> <i>ḥattā</i> until	<b>bār-miš</b> <i>mašā</i> walk-PAST/3sg
-----	---	---------------	---	--

However, Ibn al-Muhannā fails to describe the function and meaning of **qā**, and it seems that he regards **qā takī** as one single meaningful element. In addition, both *Qawānīn* and *ʿIdrāk* note that **ġā** may be added optionally after **daqin**, or **dakin**, resulting in the forms **daqin-ġā** and **dakin-ġā**, respectively (e.g. *ʿIdrāk* 145,14). In *Ḥilya* a similar form, **takinġā**, is given.<sup>10</sup>

In both *Qawānīn* and *ʿIdrāk* **dakin(ġā)** is analysed as a basic particle with an additional suffix (EDT ‘equative suffix’, see also *Fundamenta* I), although their opinions differ as to which of the two elements is used pleonastically. According to ʿAbū Ḥayyān, **ġā** is the complementary element, whereas in *Qawānīn* this is **dakin**.

In *Ḥilya* the analysis of **takinġā** is quite different from the one shared by *ʿIdrāk*, *Qawānīn* and, so to say, Clauson. In order to understand it fully, it is necessary to discuss briefly how, according to the Arabic grammarians, Arabic particles can be used with verbs, and, further the way the conjunction ‘until’ is conveyed in Turkic.

<sup>10</sup> EDT 477 and 484 distinguishes two postpositions.

I have already referred to the fact that *ʿilā* is also used with the notion ‘until a certain time’. However, the particle *ʿilā* cannot be followed immediately by a verb. The reason for this is, according to the Arab grammarians, the fact that a verb cannot occupy the syntactic position of the genitive, because this is a privilege of nouns only. This problem can be solved by means of a special kind of noun, the *maṣḍar*, translated with either ‘verbal noun’ or ‘infinitive’. The *maṣḍar*, apart from reflecting the meaning of a verb and possessing some verbal features, behaves like any other noun. As such the *maṣḍar* may be subjected to governance by means of a particle: *ʿilā maḡīʿ-i zayd-in* ‘until Zayd’s coming’ or, ‘until Zayd comes’. An alternative route, with a similar result, is the application of the particle *ʿan*, which, by governing the verb in the subjunctive, serves as an intermediate between the particle and the verb. The combination, then, behaves as a verbal noun (cf. *ʿUṣūl* II 297,1ff.):

14	<i>ʿilā</i>	<i>ʿan</i>	<i>yaḡīʿ-a</i>	<i>zayd-un</i>
	until	<i>ʿan</i>	comes-SUBJ	zayd-NOM
	‘until Zayd comes’.			

In Turkic the notion of the temporal ‘until’ is usually expressed by means of a suffix added to the stem of a verb. The resulting verbal form is not finite; it must be preceded by a pronoun:

15	[ <i>ṭur</i>	<i>mūn-dā</i> ]	<i>man</i>	<i>kal-kinḡā</i>
	[stand/IMP/2sg	here-LOC]	I	come-until
	‘[You stay here] until I come’ ( <i>ʿIdrāk</i> 151,3; also <i>Ḥilya</i> 91,9).			

In the sources (i.e. *Qawānīn*, *ʿIdrāk*, *Ḥilya*, MG) the suffix *kinḡā* (after velar stems *ḡinḡā*) is, with this meaning, regarded as one of the equivalents of *ʿilā* and *ḡattā*.

When this suffix is added to the stem *tak-* ‘to reach’, the result is *tak-kinḡā* (*tak-inḡā* in *Ḥilya*, 91,9f), a form quite similar to the one mentioned in *Qawānīn* and *ʿIdrāk*. In fact *ʿIdrāk* (150,20ff.) eventually derives *daḡin(ḡā)/dakin(ḡā)* from the verb *dak*, ‘to reach’, to which *-kinḡā* is added, allowing deletion of one *k* for alleviation.

Returning to *Ḥilya*, in the sentence

16a	<i>bālīq</i>	<i>yī-du-m</i>	<i>bāš-ī-n-ā</i>	<i>takin-ḡā</i>
	fish	eat-PAST-1sg	head-POSS-n-DAT	until (POSTP)
	‘I ate the fish until its head’ ( <i>ʿakaltu s-samakata ḡattā raʿsihā</i> ),			

Ibn al-Muhannā derives *takinḡā* directly from the verb *dak*, and, more importantly, he assigns it the status of a verb. This is obvious in his word-by-word analysis (*taʿrib*) of (16a):

16b	<b>bāliq</b> <i>samak</i> fish	<b>yī-du-m</b> <i>'akaltu</i> I ate	<b>bāš-ī-n-ā</b> <i>ḥattā ra'sihi</i> until its head	<b>takiṅā</b> <i>balaḡtu</i> I reached
-----	--------------------------------------	---	--	--

### 2.3.4 Summary

Summarising, both *Qawānīn* and *'Idrāk* analyse the postposition **ḍak-inḡā/ḍaqinḡā** in terms of a form **ḍakin** to which the optional suffix **-ḡā** may be added, in combination with **-ḡā**. The basic meaning of *'ilā* 'towards' is assigned to different elements, i.e. to **ḍaqin** in *'Idrāk*, and to **-ḡā** in *Qawānīn*. In *Hilya* **takiṅā** has the status of a verb.

This difference of opinion is related to the fact that in Arabic grammar a sequence of two particles that govern the genitive is unacceptable. The reason for this is obvious: in such a case one of the particles would be subjected to governance by the other, or both of them would govern the same noun, which is impossible. We have seen above that both **ḡā** and **ḍaqin** (**ḡā**) are regarded as equivalents of Arabic particles; in this respect the fact that they follow one another is basically impossible to explain in terms of Arabic grammar, and the analysis the two sources give is, in fact, contrary to the principles of Arabic linguistic thinking.

Ibn al-Muḥannā's approach to the form of **takiṅā** in terms of a verbal form conveying the meaning of 'reached', seems much more in agreement with these principles. Ibn al-Muḥannā regards the sequence **-ā + takiṅā** as one of a verb and a particle, which is, of course, quite possible. His analysis of **qā takī**, however, which he—implicitly—regards as one element (cf. [13]), remains unexplained.

### 2.4. *The possessive construction*

A special case of the use of the particles of annexation is the possessive construction. It is special since in Arabic the particle is usually absent in the surface structure: it is an element the (later) grammarians posit between two nouns in the underlying structure of an *'idāfa* construction. The reason for this is the apparent tendency in late Arabic grammar to reduce the number of governors. They did not, like their predecessors, accept the possibility of one noun governing another, hence causing the genitive case ending on the governed noun. Instead, they posited a *ḥarf ḡarr* in the underlying structure that is to account for the genitive case.



### 2.4.1 *Li* and the possessive construction

The insertion a particle can also be explained in terms of semantic and syntactic case (cf. Chapter Four 4.1.1). For example, when the genitive occurs in the possessive construction *bayt-u zayd-in* ‘Zayd’s house’, it could be interpreted as a semantic case (cf. Chapter Four 1.2.4).

However, it seems that the later grammarians preferred to analyse it as a syntactic case, i.e. in terms of government, thus enhancing the predictability of both governing capacities and declensional endings and smoothening their argumentation. The particle they posit is usually *li* ‘to’, for example, the underlying structure of *bayt-u zayd-in* ‘Zayd’s house’ is, in their opinion, something like *al-bayt-u li-zayd-in*, with *li* as the governing particle (see discussion above). The particle may also be *min* ‘from’, if the genitive conveys a partitive meaning, e.g. *ṭawb-u ḥazz-in* ‘a cloth [made] of silk’ is rephrased as *ṭawb-un min ḥazz-in*.

This principle in Arabic theory is explained clearly in the Margin Grammar, viz.,

“Sunqur’s slave’ i.e. \*‘a slave to Sunqur’; ‘that one’s slave’ i.e. \*‘a slave to that one’ with the implied *li*; ‘whose slave’, with [the underlying structure] \*‘to whom his slave’. *Li* is implied in the underlying structure.” (*mamlūku sunqurin* ‘ay \**mamlūkun li-sunqur wa-mamlūku dā* ‘ay \**mamlūk li-dā bi-l-lām al-muqaddar* ‘ay *mamlūku man bi-ma* ‘nā *li-man mamlūkuhu bi-taqdir al-lām*, MG 44<sup>rd</sup>md.)

To put it in another way, the phrase *mamlūku sunqura* ‘Sunqur’s slave’ is rephrased in the underlying structure as \**mamlūkun li-sunqur* ‘a slave to Sunqur’, with the addition of the particle *li*.

### 2.4.2 The possessive construction

This section discusses how the grammarians explained the possessive construction in Turkic. It will be shown that the concept of a particle in the underlying structure is convenient for the analysis of Turkic possessive constructions too.

In the sentence *al-bayt-u li-zayd-in* ‘the house [belongs] to Zayd’, the phrase *li-zaydin* ‘to Zayd’ is the predicate (*ḥabar*) to the topic (*mubtada*) *al-baytu* ‘the house’. Here the particle *li* cannot be omitted in the surface structure, for a phrase like, for example, \**al-bayt-u zayd-in*, without the insertion of *li*, is regarded as non-grammatical.

In Turkic it is of course also possible to construct predicative sentences of this type, but, unlike in Arabic, it suffices to put the predicate in the genitive<sup>11</sup>:

17	<b>bū</b>	<b>'at</b>	<b>zayd</b>	<b>niŋ</b>	<b>[durur]</b>
	this/NOM	horse	zayd	GEN	[CORR]
	'this is Zayd's horse' ( <i>hādā l-farasu li-zaydin</i> , <i>Ḥilya</i> 93,4).				

The sources usually interpret **niŋ** (with a variant **-iŋ** in Oğuz [*turkmāniyya*]) as the equivalent of *li*; it "has the meaning of" *li* (*ʿIdrāk*, 145,4). For *Qawānīn* the word (*lafza*) **nin** conveys the meaning of *li* for possession (*milk*) and the specification (*al-iḥtišās*), which is the way the function of *li* in sentences of the type in (1) is described in Arabic grammar

The status of this element **niŋ** in (17) is described slightly differently in *Ḥilya*:

"The last *n* [i.e. **ŋ**] belongs to the same category as the redundant [particle] *li*" (*fa-n-nūn al-ʿaḥīra bi-manzila al-lām az-zāʿid* [sic], *Ḥilya* 93,4).

This statement is interesting in two respects. In the first place it says something about Ibn al-Muhannā's analytical approach to **niŋ**, in the sense that he segments it into two parts, i.e. **n** + **ŋ**. This is possible in the Turkic language he describes, since in Oğuz Turkic languages **ŋ** alone represents the genitive case, i.e. **zayd-iŋ**. In the second place it is of interest because of the application of the terms *manzila* and *zāʿida* in this context. The term *manzila* refers to the status of **niŋ** compared to *li* in Arabic, and the term *zāʿid* is used to specify the position of *li* in the Arabic sentence.

In Arabic linguistic terminology the term *zāʿid* is used to indicate elements that are inserted, and, as a result, exert governance, but without adding any extra meaning to the sentence. For example, the particle *li* in *ḍarabtu li-zaydin* 'I beat [to] Zayd', does not cause ungrammaticality of the sentence, but it does not contribute significantly to its meaning either (cf. *Irtiṣāf* II 435, 4ff.; cf. also Versteegh 1993:144-5 and 151 for this term in early grammatical terminology). As a result, the particle *li* forms no part of the underlying structure, since it is semantically redundant. Interestingly, according to Arabic theory the *lām* in the translation of example (17) is not considered *zāʿid*, it is an essential part of the predicate of the sentence. In regard to the term *manzila*, Versteegh (1978: 264ff.) states

<sup>11</sup> The fact that in Turkic the word in the genitive can serve as a predicate may be interpreted as yet another indication for the typology of its case.

“If a word A is said to be at the same *manzila* as a word B, it belongs to the same class as word B... it may even take over some of the functions... of word B”.

The same definition applies in the case of Ibn al-Muhannā’s use of *manzila*.

It seems that Ibn al-Muhannā compares *niḡ* to *li* in two respects. In the first place both denote the sense of ‘property’ (*milk*), and secondly, both *niḡ* and *li* are, at least in Ibn al-Muhannā’s view optional, i.e. they may be deleted. This analysis of *li* probably relates to Ibn al-Muhannā’s variant interpretation of the same Turkic sentence elsewhere (85,12), which we shall deal with below.

### 2.4.3 The possessive ending

In Turkic a noun can be marked for a possessive relation to a pronoun by adding the appropriate pronominal marker:

18        ’aṭ-im  
            horse-POSS/1sg  
            ‘my horse’.

Likewise, ’aṭ-iḡ ‘your (sg.) horse’; ’aṭ-ī ‘his/her horse’, ’aṭ-imiz ‘our horse’, ’aṭ-iḡiz ‘your (pl.) horse’. In the case of ’aṭ-larī, two analyses—or even three—are possible, viz., first ’aṭ-larī ‘their horse’ and second ’aṭlar-ī ‘his horses’. In the first case *lar* is considered part of the reference to the possessor, which then must be plural (horse-their), whereas in the second it is considered part of the possessed noun (horses-his). A third possible interpretation for this form is that both possessor and possessed are plural, e.g., ‘their horses’ (horses-their), because the suffix cannot appear twice in the same word for double plurality \*’aṭlar-larī (cf. also *’Idrāk* 147,16f).

In order to stress (*ta’kīd*, *Qawānīn* 46,16) the possessive relation, the ‘possessed’ noun may be preceded by a personal pronoun which is marked for the genitive case, e.g. *ban-im* ’aṭ-im ‘my horse’, *san-iḡ* ’aṭ-iḡ ‘your horse’, *a-niḡ* aṭ-ī ‘his/her horse’, *biz-im* aṭimiz ‘our horse’, *siz-iḡ* ’aṭ-iḡiz ‘your (pl.) horses’ and *an-lar-niḡ* ’aṭ-ī or ’aṭ-lārī ‘their horse(s)’.<sup>12</sup> The plural ending *-lar* is inserted between the noun and the possessive ending, e.g. *’aṭ-lār-im* ‘my horses’. Case endings follow after the possessive ending, e.g. *san-iḡ qaṭ-iḡ-dā* (you-GEN side-POSS/2sg-LOC) ‘at your side’.

<sup>12</sup> The form *banim*, with *b-* and final *-m* is typically Oğuz; the sources also display variants from other Turkic languages, e.g. *maniḡ*, ’allarniḡ, bizniḡ etc..

In Turkic, two nouns can stand in a possessive relation for which both elements must be marked, the possessor with the genitive case, and the possessed with the possessive ending, respectively:

19	<b>bī-niŋ</b> chief-GEN 'the chief's horse'	<b>'aŋ-ī</b> horse-POSS/3sg
----	---	--------------------------------

After vowels, an *s* is inserted between the word and the possessive marker, e.g.

20	<b>bī-niŋ</b> chief-GEN 'the chief's mother'	<b>'anā-s-ī</b> mother-s-POSS/3sg
----	--	--------------------------------------

In the following we shall discuss the status of the possessive ending, and the genitive case ending **niŋ**. We shall see that the sources had no problem with assigning the status of pronoun to the possessive ending, except for the ending of the third person. Further, we shall find that **niŋ** is generally regarded as equal to the particle *li* 'to'.

The Turkic possessive endings are described in terms similar to the Arabic construction of annexation (*'idāfa*) to pronouns:

"the annexed noun precedes the [noun] it is annexed to, analogous to the Arabic." (*wa-taqaaddama [l-muḍāf] 'alā l-muḍāf 'ilayhi qiyāsa l-'arabiyya, Qawānīn 46,2*).

One would expect the suffixes to be analysed in a similar way. This assumption, however, holds only partially.

First of all, the Margin Grammar gives an analysis according to which the possessive endings are considered pronouns:

"The pronoun for the first person is **m**, and for the first person plural it is **miz**; for the second person it is **ŋ**, and for him and for the second person plural it is **ŋiz**; for the third person it is a silent **y**, and for the third person plural it is **lārī**." (*aḍ-ḍamīr li-l-mutakallim m wa-lahu wa-li-man ma'ahu miz wa-l-li-muḥāṭab ŋ wa-lahu wa-li-man ma'ahu ŋiz wa-li-l-ġā'ib y sākina wa-lahu wa-li-man ma'ahu lārī*, MG 59<sup>l</sup>t/bm; also 59<sup>r</sup>rt.)

*'Idrāk* and *Qawānīn* give very similar analyses for the first and second persons (*'Idrāk* 118,15; 136,17).

For the ending **ī** (or **i**) of the third person, however, *'Idrāk*, *Qawānīn* and *Ḥilya* supply less explicit information. Even though they state in several instances that it is attached "you vocalise it with an *ī*" (*taksiruhu*), e.g. **qul-ī** 'his slave' (*mamlūkuhu*, *'Idrāk* 120,1f), nowhere is the status of this ending described. In fact, in some cases it is entirely disregarded. *'Abū Ḥayyān*, for example, writes with regard to **qul-lari ṭur-du-lar**

“i.e. ‘their slaves stood up’. *lar* is attached to the singular if you annex to a singular [noun], and [its] *r* is vocalised with an *i*, this indicates the plural of the annexed; it may also indicate the plural of the ones to whom is annexed. This can be deduced from the context.” (*ʿay mamālikuhum qāmū fa-lar talhaqu l-mufrad fa-ʿidā ʿuḏīfa ʿila mufrad wa-kusirat ar-rāʿ dalla dālika ʿalā ḡam ʿ al-muḏāf wa-yadullu ʿayḏan ʿalā ḡam ʿ al-muḏāf ʿilayhim wa-yatabayyanu dālika min siyāq al-kalām, ʿIdrāk 147,17f.*)

From this statement it appears that he does not assign a distinctive meaning to *i* and hence, does not consider it a pronoun (*ḡamīr*).

In *Tuḥfa* a parallel is seen with the endings of the Turkic imperfect tense in *-ḡī*: “The marker of the third person is the silent *y* in nouns and verbs” (*ʿalāma al-ḡāʿib yāʿ sākina fi l-ʿasmāʿ wa-l-ʿafʿāl, Tuḥfa 39<sup>o</sup>6*). Indeed, the verbal endings are, apart from the first person plural, identical with the possessive endings in nouns: *kāldīm* ‘I came’, *kāldīn* ‘you (sg.) came’, *kāldī* ‘he/she came’; *kāldik* ‘we came’; *kāldīniz* ‘you (pl.) came’; *kāldīlār* ‘they came’.<sup>13</sup> However, because *Tuḥfa* applies the term *ʿalāma* ‘marker’ indiscriminately to all words and morphemes, the status of these ‘markers’ remains unclear.

In *Ḥilya* (85,9) the possessive endings are considered markers too. For *ḡul-um* ‘my slave’ *ḡulām-ī* Ibn al-Muḥannā writes

“the silent *m* is the marker of the annexation to the speaker himself” (*wa-l-mīm as-sākina ʿalāma al-ʿidāfa ʿilā nafsi l-mutakallim, Ḥilya 86,1*).

According to *Qawānīn* (59,4) the *y* is a marker of annexation (*ʿalāma li-l-ʿidāfa*), rather than a pronoun. *ʿIdrāk* assigns no function to the *y* exclusively.

The reason for the apparent hesitance in *ʿIdrāk* and *Qawānīn* with regard to assigning the status of pronoun of the third person to *ī* (or *i*) becomes more understandable when we recall what ʿAbū Ḥayyān states in the first part of the grammatical section of his work:

“All three weak consonants [sc. *ʿalif, wāw* and *yāʿ*]... arise from the lengthening of the vowels.” (*ḡamīʿ ḡurūf al-madd wa-l-līn at-ḡalāḡa... ʿinnamā hiya nawāšīʿ an ʿišbāʿ al-ḡarakāt, ʿIdrāk 101,10*.)

No meaning can be assigned to the glides, ʿAbū Ḥayyān intends to say, they are secondary since they originate from the vowels. Assigning the status of pronoun to a vowel is impossible within the framework of Arabic grammar, which concentrates on consonants rather than vowels. In Arabic grammar the *y* can have the function of a pronoun, for instance, in *ḡulāmī* /*ḡulām-iy*/ ‘my slave’, the *y* is the pronoun of

<sup>13</sup> In verbs like *ʿur-sa-ḡ* (beat-COND-2sg) ‘if you beat’ the *ḡ*, too, is called pronoun of the second person (*ḡamīr al-muḡḡāḡab, ʿIdrāk 146, 20*).

the first person. The preceding *i* merely follows the glide. In Chapter Four we showed that in Arabic grammar vowels can only serve as markers as the result of governance, and are never considered as governing elements themselves.

This indeed seems to be the status assigned to *ī*/*ī* in *Qawānīn*, *ʿIḍrāk* and *Ḥilya* i.e. ‘a marker of annexation’, i.e. a sign that the word is involved in an annexation construction. We shall discuss this in greater detail below.

#### 2.4.4 The intermediate *s*: various opinions

We have already pointed to the fact that when the second word of the Turkic sequence ends in a vowel, it gets an intermediate *s* before the possessive ending *ī*, such as in *ʿanā-s-ī* ‘his mother’ (cf. above 20). In Arabic grammar the *n* can fulfil a similar function, e.g., *ḍaraba-n-ī* /*ḍaraba-n-iy*/ ‘he beat me’, in which *n* is inserted between the final vowel of the verb, i.e. *a*, and the *i* that precedes the pronoun *y*. In Arabic grammar this *n* is called *nūn al-wiqāya* ‘protective *n*’. It is not considered a part of the pronoun that is at the position of the object, since it does not appear after particles, e.g. *lī* ‘to me’ and *ma ʿī* ‘with me’, and when the pronoun is governed by an active participle *ḍārib-ī* ‘the one who beats me’ (cf. *Irtiṣāf* I 470,8ff.). In the Margin Grammar, for instance, the function of the Turkic intermediate *s* is compared to that of this Arabic *n*

“You add to [the annexed element] an *s* vocalised with an *i* if its last consonant is weak [i.e. if it ends in /iy/, /a/ or /uw/], it is [like] the protective *n* in Arabic in verbs or in particles that resemble [verbs], e.g. *ḍaraba-n-ī* ‘he beat me’.... This is in nouns that end in an *a* with a lengthened vowel to which an *ʿalif* is added, [which serves to] protect [the *ʿalif*] against [contact with] the *i*.” (*talḥāq [al-muḍāf] sinan maksūra ʿin kāna ʿāḥiruhu muʿtallan wa-hiya nūn al-wiqāya ʿarabiyyatan fī l-fiʿl ʿaw al-ḥarf alladī ʿašbahahu, naḥwa ḍarabānī... lākinna hādā fī l-ism al-maftūḥ al-ʿāḥir al-mušbaʿ al-ladī laḥiqathu al-ʿalif wiqāyatan lahu min al-kasr*, MG 59<sup>o</sup>rt.)

In the case of *ʿanā-s-ī* /ʿana"-s-iy/ ‘his mother’, therefore, *s* is inserted to prevent the *ʿalif* /ʿ/ from being directly followed by *i*, since *ʿalif* cannot be vocalised.

A similar statement with regard to the *s* is found in *Qawānīn*, viz.,

“The secret in this [i.e. the insertion of the *s*] is that the last consonant of the annexed noun is an *ʿalif* and the marker of the annexation is the *y*, both of them weak consonants. Therefore they insert the *s* between them in order to prevent a sequence of two weak consonants to occur.” (*wa-s-sirr fī dālīka ʿanna l-ism al-muḍāf ʿāḥiruhu ʿalif wa-ʿalāma al-ʿidāfa yāʿ wa-humā*

*ḥarfā ʿilla wa-ʿadḥalū as-sīn baynahumā li-ʿallā yatawālā ḥarfā ʿilla, Qawānīn 44,20f.*

Here the intermediate *i* is not considered at all.

In *Dīwān* (536,13ff; copied in MG 39<sup>v</sup>rt) the insertion of *sī* is accounted for with the same kind of phonological arguments. If the last consonant of a word is vocalised in annexation, in the way the *l* in *ʿuḡul* ‘son’ is vocalised with an *i*, *ʿuḡl-i/*, only *y* is added instead of *sī*, hence *ʿuḡliy/*, schematised this is reflected as follows:

a. *ʿuḡul/* → vocalisation *ʿuḡl-i/* → addition of */y/* = *ʿuḡul-iy/*

In some cases the last consonant cannot be vocalised, for example if it is *ʿalif* *ʿ/*. Here *Kāšgarī* seems to presuppose the addition of two *y*’s, */y<sub>1</sub>-y<sub>2</sub>/*. If two *y*’s (*bi-yāʿayni*) were added after the *ʿalif*, he says, one would get a sequence of three weak consonants, i.e. *ʿ-ʿy<sub>1</sub>-y<sub>2</sub>/*, viz., *\*ʿata-ʿy<sub>1</sub>-y<sub>2</sub>/*, which is impossible. The first */y<sub>1</sub>/*, then is replaced (*ʿuwwidat*) with */s/*, resulting in *ʿata-s-iy<sub>2</sub>/* *ʿatāsī* ‘his father’. In a schematised way his way argumentation can be represented as follows:

b. Theoretical form *\*ʿata-ʿy<sub>1</sub>-y<sub>2</sub>/* → replacement of */y<sub>1</sub>/* with */s/* → *ʿata-s-iy<sub>2</sub>/* = *ʿatāsī*

The argument of two *y*’s seems also applicable to words that take a final vowel, e.g.,

c. Theoretical form *\*ʿuḡul-ʿy<sub>1</sub>-y<sub>2</sub>/* → deletion of */y<sub>1</sub>/* → *ʿuḡul-y<sub>2</sub>/* (insertion */i/*) → *ʿuḡul-iy<sub>2</sub>/* = *ʿuḡlī*

There are still some problems, though. For example, it is not clear at which point exactly the vowel */i/* is inserted. For (c) this does not matter much, but in (b) we might get the sequence *ʿi/*, which we wanted to avoid from the start. Therefore one is inclined to assume that in (b) */s/* takes the vowel. In either case */y<sub>1</sub>/* is either replaced or deleted. *Kāšgarī*’s argumentation with two */y/s* rather than one probably relates to the fact that in Arabic theory replacement of consonants is easier to explain than insertion.<sup>14</sup>

<sup>14</sup> In *Dīwān* and MG the text runs as follows: “*sī* is a particle of annexation which is attached to the last consonants of the nouns if the last consonant of the word is silent, but if it is vocalised the *y* [alone] suffices to serve as its indicator. They say *ʿatā* (*ʿata/*), i.e. ‘father. The *ʿalif* is silent, and if something is annexed to it they say *ʿaniḡ* *ʿatāsī* ‘his father’ and they say *ʿay* and they say *ʿanā* (*ʿana/*) ‘mother’. The *ʿalif* is silent too. It is not possible to say *ʿaniḡ* *\*ʿatāyī* with two *y*s, because in that case three weak consonants would stand in a sequence. The middle one is substituted with the *s* so that the speech becomes euphonious and its softness increases. The vocalised *i*s, e.g., *ʿuḡul* ‘son’, they say *ʿuḡlī*, i.e. ‘his son’. The *s* is not needed here, because the *l* is vocalised in the annexation....” (*sī ḥarf ʿidāfa yalḥaḡu bi-ʿawāḡir al-ʿasmāʿ ʿidā kāna ʿāḡir al-kalīma sākinan wa-ʿidā kāna mutaharrikan yaktafi bi-l-yāʿ bayānuhu yuḡāl ʿatā wa-huwa l-ʿab wa-l-ʿalif minhu sākina fa-ʿidā ʿudīfa yuḡāl ʿaniḡ ʿatāsī ʿay ʿabūhu wa-yuḡāl ʿanā li-l-ʿumm ḡumma yuḡāl ʿaniḡ ʿanāsī al-ʿalif minhu sākina kaḡālīka fa-lam yumkin ʿan yuḡāl*

Another account of the insertion of *s* is found in *Ḥilya* (85,1ff):

“If the last consonant of the annexed noun is a weak consonant, then add an *s* before this consonant, and vocalise the consonant before the *s* with an *i*” (*fa-ʿin kāna ʿāḥir al-muḍāf ḥarf ʿilla, fa-zid qabla l-ḥarf al-muʿtall sīnan maksūran mā qablahā*).

He illustrates this with the word **qamḡī /qamḡ-iy/**<sup>15</sup> ‘whip’. If /s/ is inserted between /ḡ/ and /y/, and subsequently /ḡ/ is vocalised with /i/, the result is **qamḡ-is-ī** ‘his whip’. However, the same procedure does not hold for words like, e.g., **yā /ya/** ‘bow’. In this case insertion of *s* would result in *\*/y-is-a/*, whereas the correct form is **yā-sī** ‘his bow’, which —with some other examples that all end in *-ā*— is nevertheless given by Ibn al-Muhannā.

<sup>15</sup>Abū Ḥayyān, not accepting *ī* (or *i*) as a pronoun, associates *s* with the ‘annexation’ itself:

“*si* is the indicator of the annexation to the third person, if the last consonant of the noun is vocalised” (*wa-si dalīl al-ʿidāfa li-l-ḡāʿib ʿidā kāna ʿāḥir al-ism mutaḥarrikan, ʿIdrāk 147,5*).

Note that he uses the word *dalīl*, ‘marker, indicator’, for *s*, instead of assigning a definite status. <sup>15</sup>Abū Ḥayyān does not regard *s* and *i* as separate morphemes; in other instances the *s* is simply “for the annexation” (*li-l-ʿidāfa, ʿIdrāk 147,13*) or “attached for the annexation” (*lāḥiqa li-l-ʿidāfa, ʿIdrāk 152,2*), both of which amount to the same thing.

In *Tuḥfa* the same evasive terminology is used, it seems, with regard to this *s*. The principle of its attachment is described but its status remains basically unexplained: “the *s* is added for the annexation” (*wa-tuzād as-sīn li-l-ʿidāfa, Tuḥfa 89<sup>v</sup>7, also 60<sup>v</sup>8*).

A case similar to that of the *s* is the insertion of another consonant, viz., *n*. This is put directly after the possessive ending of the third person when it is followed by a locative or ablative case ending:

21	ʿard space behind someone- ‘behind him’.	-i- POSS/3sg-	n-dā n-LOC
----	--	------------------	---------------

<sup>15</sup>*ʿaniḡ \*ʿatāyī bi-yāʿayni li-ʿannahu kāna yaḡtamiʿu fiḥā ṭalāṭa ʿaḥruf min ḥurūf al-līn fa-ʿuwwidat al-wāsiṭa minhā bi-sīn ḥattā ʿaduba al-lafz wa-rtafaʿa l-līn wa-ʿammā l-mutaḥarrik nahwa qawlihim ʿuḡul li-l-ibn ṭumma yuqāl ʿaniḡ ʿuḡli ʿay ibnuhu fa-lam yuḡtaḡ ḥāhunā ʿilā s-sīn li-ʿanna l-lām qad taḥarrakat fi l-ʿidāfa... Dīwān 536,13ff = MG 39<sup>v</sup>rt.)*

<sup>15</sup> Cf. EDT 626.



To be sure, after the other possessive endings, no such **n** is inserted (22), and hence **ʾard-imiz-dā** ‘behind us’ etc.:

22	<b>ʾard-</b> space behind someone- ‘behind you (sg.)’.	<b>iḡ-</b> POSS/2sg-	<b>dā</b> LOC
----	--	-------------------------	------------------

This **n** (in 21) is described in *ʾIdrāk* as follows:

“The pure **n** indicates annexation to the third person [and the nasal **n** (i.e. **ḡ**) indicates the second person].” (*fa-n-nūn al-ḡālīṣa tuṣʿir bi-l-ʾiḡāfa li-l-ḡāʾib* [*wa-l-ḡayṣūmiyya li-l-muḡāḡib*], *ʾIdrāk* 136,18.)

In these contexts we have understood the references to the **i**, **s** and **n** with the terms *ʿalāma al-ʾiḡāfa*, ‘marker for the annexation’, or *li-l-ʾiḡāfa*, ‘for the annexation’, as deliberately vague, rather than as implicit indications for the annexation to the third person singular, and hence the acceptance of **-ī** (or **i**) as a pronoun.

#### 2.4.5 The word sequence of the possessive construction

The other important element in the Turkic possessive construction is the genitive case ending and the fact that, compared with Arabic, the elements stand in the reverse order. I first deal with the sequence of the elements, and continue with the ending **niḡ**.

A striking difference between the Arabic and the Turkic possessive constructions is that the sequence of the elements involved is reversed, e.g. (19) **bī-niḡ ʾaḡ-ī** (chief-GEN horse-POSS) versus *faras-u l-ʾamīr-i* (horse-NOM the chief-GEN). As has been shown above, this is not the case when possessive suffixes are added to a noun. In terms of Arabic theory this reverse sequence presents a problem, since in their view governance works in one direction only, i.e. from the beginning of the sentence towards the end, so that in principle the governance relations in the Turkic constructions would be the reverse of those in Arabic.

All sources pay repeated attention to this point, e.g. “The element to which is annexed precedes the annexed in this language.” (*al-muḡāf ʾilayhi yataqaddamu fi ḡāḡihi l-luḡa ʿalā l-muḡāf*, *ʾIdrāk* 146,16; also *Ḥilya* 84,15f; *MG* 59<sup>l</sup>t/bm; *Qawānīn* 44,2). In the example above **bī** is the *muḡāf ʾilayhi*, and **ʾaḡ-ī** the *muḡāf*, reverse in sequence, but analogous to the analysis of the Arabic phrase *faras-u l-ʾamīr-i* (*muḡāf - muḡāf ʾilayhi*). This remains without consequences for governance. The inverse sequence recurs in the case of the particles of the genitive, as has been shown above, and further, for example, with attributes (*naʿt*), like adjectives in which the adjective precedes the qualified

noun. The grammarians seem to accept this awkward sequence in Turkic without much discussion.

#### 2.4.6 Various interpretations of *nin*

We now continue the discussion of the interpretations the sources give of the genitive case ending *nin*. We have seen above that the grammarians equated the ending *nin* with the particle *li* when used in predicative sentences, which in that case seems quite obvious, since *li* is typically used in predicative sentences of this type in Arabic. In regular genitive constructions in Arabic things are different, since in the surface structure *li* does not appear. The grammarians are supported by their analysis of Arabic possessive constructions in which they posit the particle *li* in the underlying structure as a connective element.

ʿAbū Ḥayyān gives the following sentence:

23a	<b>kim-nin</b>	<b>qūl-ī</b>	<b>san</b>
	who-GEN	slave-POSS/3sg	you-NOM
	‘whose slave are you?’ ( <i>ḡulāmu man ʿanta</i> , <i>ʿIdrāk</i> 146,17).		

Furthermore, he gives a word-by-word analysis of (23a), which sheds light on the way the respective functions of the Turkic words and morphemes are interpreted:

23b	<b>kim-nin</b>	<b>qūl-ī</b>	<b>san</b>
	<i>li-man</i>	<i>mamlūku-hu</i>	<i>ʿanta</i>
	to whom	his slave	you

In this analysis, it transpires that *nin* is regarded as the equivalent of the particle *li*.<sup>16</sup>

ʿAbū Ḥayyān is not the only one to equate *nin* with *li*, also in other sources this association is made, e.g.,

“[The particle] *li* of annexation, i.e. *nin* is inserted to the noun to which is annexed” (*wa-tadhulu lām al-ʿidāfa ʿalā l-mudāf ʿilayhi wa-hiya nin*, *Qawānīn* 44,5; cf. similar statements in MG 59<sup>rt</sup>/ult; 43<sup>lt</sup>; also called *ḥarf al-ʿidāfa*, *Qawānīn* 73,2).

In *Tuḥfa* (89<sup>f3</sup>), the Margin Grammar (59<sup>rt</sup>), and *Hilya* (85,9) the term *ʿalāma al-ʿidāfa* is applied to *nin*. In the case of *Tuḥfa* this is not very significant, since it uses the term *ʿalāma* for almost all Turkic nouns and morphemes. In *Hilya* it appears to be connected with Ibn al-Muhannā’s view of the Arabic possessive construction.

Let us now return to Ibn al-Muhannā’s twofold interpretation of the element *nin* in (17): *bū ʿat zayd nin durur*. One of his interpreta-

<sup>16</sup> Also, the equivalent of *qul-ī* is *mamlūku-hu* ‘his slave’, but we concluded above that the *yāʿ* (ī) is not explicitly assigned the status of a pronoun.

tions is given above; Ibn al-Muḥannā regards *niḡ* as the equivalent of the redundant particle *li*. This means that in his view both *niḡ* and *li* can be deleted from surface structure, which as a matter of fact does not agree with Arabic theory on this point. Ibn al-Muḥannā's analysis (93,4) may be reconstructed as follows:

- |                               |                  |                                   |
|-------------------------------|------------------|-----------------------------------|
| a) <i>bū 'at</i>              | is equivalent to | <i>hādā l-farasu</i> (this horse) |
| b) <i>zayd niḡ</i>            |                  | <i>li-zaydīn</i> (to zayd)        |
| [c] the copula <i>durur</i> ] |                  |                                   |

This amounts to the same as the analyses in *'İdrāk* and *Qawānīn* on the one hand, and the Western analysis on the other. In another instance (85,11), however, Ibn al-Muḥannā translates this same Turkic sentence with *hādā faras-u zayd-in* 'this is Zayd's horse' (followed by a similar example, translated in the same way):

- |                               |                  |                            |
|-------------------------------|------------------|----------------------------|
| a) <i>bū</i>                  | is equivalent to | <i>hādā</i> (this)         |
| b) <i>'at</i>                 |                  | <i>faras-u</i> (horse-NOM) |
| c) <i>zayd niḡ</i>            |                  | <i>zayd-in</i> (zayd-GEN)  |
| [d] the copula <i>turur</i> ] |                  |                            |

In the first sentence *hādā l-farasu* is the topic and *li-zaydīn* the predicate, whereas in the second *hādā* is the topic, and *farasu zaydīn* the predicate.

All this gives us reason to believe that Ibn al-Muḥannā did not see any basic difference between the two Arabic sentences. In fact, he states explicitly that he regards *li* as *zā'id*, i.e. 'redundant', or 'optional', and in this respect, he probably considers the two Arabic sentences as variants that are equivalent to each other in meaning and construction. With this optionality of *li* he accounts for the fact that in Turkic *niḡ* is deleted in regular possessive constructions when constructed with proper names, e.g. *zayd 'atī* 'Zayd's horse' (*Ḥilya* 84,16). One could say that Ibn al-Muḥannā regards the two sentences (i) *hādā farasu zaydīn* and (ii) *hādā l-farasu li-zaydīn* as equivalent, rather than viewing (ii) as the underlying structure of (i).

This approach not only has consequences for his analysis of both Arabic sentences, but also for that of the Turkic phrase, and the element *niḡ* in particular.

#### 2.4.7 Summary

In the preceding sections I have tried to show that only one source directly applies the status of pronoun (*ḍamīr*) to the possessive ending *ī*, whereas the other sources seem to be more hesitant in assigning any

major function to it. The reason for this is probably that, in the view of most authors, **y** is an extension (<sup>ʔ</sup>*šbā*) of the vowel, and in Arabic grammar vowels cannot in principle assume the function and position of a pronoun.

The term ‘marker of annexation’ (*ʿalāma al-ʔidāfa*) also conjures up associations with two related terms in Arabic grammar, namely ‘marker of objectivity’ (*ʿalāma al-mafʿūliyya*) and ‘marker of agency’ (*ʿalāma al-fāʿiliyya*). In Chapter Four I showed that these terms are related to the abstract notions ‘genitive’ (*ğarr*), ‘accusative’ (*naşb*), and ‘nominative’ (*raf*), respectively, linking each of them to a specific syntactic function. In this respect, *i*, originally only the marker of the genitive case, is identified with the genitive case itself, and, by extension, it is also interpreted as a marker for the function of annexation (*ʔidāfa*).

In regard to the application of the term *ʿalāma al-ʔidāfa* to the Turkic ending **ī**, it should not be interpreted as a reference to the function of ‘grammatically possessed’ (*muḍāf*) and hence as an indicator for governance, but rather as a reference to a more general notion, namely the fact that the noun is involved in a possessive relation.

The labels assigned to **s** and **n**—the second referred to in *ʔidrāk*—which are not considered basic parts of the nouns, as they occur in limited morpho(no)logical contexts only, give some support to this idea. In *ʔidrāk* this **s** is called “indicator of the annexation” (*dalīl al-ʔidāfa*), which indicates the assumption that there are morpho(no)logical reasons for its insertion, and the **n** “indicates [lit. ‘makes feel’] the third person” (*tuşʿir bi-l-ʔidāfa li-l-ğāʿib*). In neither case is there direct assignment of function, although the relation with the ‘annexation’ is indicated. As far as *ʔidrāk* and *Qawānīn* are concerned, no element is explicitly assigned the function of pronoun of the third person.

The association of **nij** with the Arabic particle *li* is made by all sources. They may have had two major reasons for this association. In the first place the application of **nij** in predicative sentences as a direct equivalent to *li*, and, secondly, the fact that *li* is posited in the underlying structure of annexation constructions. In *Ḥilya*, Ibn al-Muḥannā does not differentiate between these different applications of *li*. He regards the underlying structure as a variant of the sentence, considering *li* a redundant particle (*zāʿid*) that can be deleted from the surface structure without distortion of the meaning. In both *Ḥilya* and the Margin Grammar, **nij** is called the ‘marker of the annexation’ (*ʿalāma al-ʔidāfa*).

## 2.5 The locative

The concept of *zarf* (locative) is related to three main themes in Arabic grammar. In the first place it is related to the notion of governance; more specifically the governance of optional objects by the verb. Secondly, it is connected to the principle of governance by the particles of the genitive, especially *fi*, further, the concept of annexation plays an important role. In our hypothesis the Arabic *zarf* is an instance of semantic use of the accusative case. It shall be seen that in Turkic locatives the accusative plays no role at all (An introduction on Arabic locatives is given above in Section 1.2).

### 2.5.1 Two types of locatives

In Arabic grammar the locative (*zarf*) is originally regarded as one of the optional objects to the verb, 'the object in which' (*al-maf'ūl fihi*), with the particle *fi* implied in the underlying structure and absent in the surface structure. Later grammarians, however, also admitted the appearance of *fi* in the surface structure, introducing semantic arguments for distinguishing a functional class of *zurūf* (see above 1.2). The locatives are typically divided into two classes: the locative of time (*zarf zamān*), and the locative of place (*zarf makān*). *Qawānīn* gives the following general definition of a locative:

"In Arabic [the locative] is as a rule expressed with [a noun that] regularly includes [the meaning] *fi*. In this language it is as a rule expressed with the word *fi*, i.e. [dā], which they compulsorily put after [the locative], whether the latter is of time or place." (*wa-yu'abbirūna 'anhu fi l-'arabiyya mā taḍammāna fi bi-ṭṭirād wa-'ammā fi hādīhi l-luḡa fa-huwa mā ṣuriha fihi bi-lafza fi bi-ṭṭirād fa-'innahum yuṣarriḥūna wuḡūban wa-yu'aḥḥirūnahā 'ay [dā] 'an az-zarf zamānan kāna 'aw makānan, Qawānīn, 34,11.*)

To start with the locative of time, however, *Qawānīn* does not give any examples with *dā* to illustrate this statement. 'Abū Ḥayyān's description of the locatives of time too gives the impression that at least some of them are used without *dā*. For example, he gives the following locatives of time: **kunduz** 'during daytime' (*nahāran*), **tunlā** 'at night' (*laylan*), **kaḡā** 'in the evening' (*masā'an*), **quṣluq** 'in the early morning' (*duḡan*), **ṭanjlā** (with variant **ṭanjdā**) 'in the morning' (*ṣabāḡan*) (*'Idrāk*, 135; similar examples in mg 55<sup>rt/bm</sup>). The exemplifying sentences he gives are **tunlā ṭurdum** 'I stood at night' and **bukun sanḡar ṭurmiṣ daḡul** 'Today Sanḡar is not standing', in which **bukun** means 'today', and **ṭurdum 'uḡ-dā** 'I stood up before' (*qumtu qablu*), **ṣunrā ṭurdum** 'I stood up later' (*qumtu ba'dan [sic]*) (*'Idrāk*, 136,6ff.).

Although the Turkic adverbs of the type **kunduz** and **kağā**, do not contain any suffix that conveys the meaning of *fī*<sup>17</sup>, the sources do not hesitate translating them with Arabic equivalents which carry the accusative case.

The Arabic locatives of time, *baʿd* and *qabl* are, like other nouns—but unlike most other locatives of time—annexed to nouns and pronouns, i.e. *ğīʿtu baʿda-ka* ‘I came after you’ and *ğīʿtu qabla-ka* ‘I came before you’. In this sense, the locatives *baʿda* and *qabla* are annexed (*muḍāf*) and the pronoun *-ka* ‘you’ is the noun that is annexed to (*muḍāf ʿilayhi*).

In the Margin Grammar the phrase **ʿaşr-dan burun** ‘before the evening prayer’ in (24) is regarded as a regular annexation of a locative (**burun**) to a noun (**ʿaşr**):

24        **ʿaşr-dan**                      **burun**        **kal-di-m**                      **sağā**  
              evening prayer-abl        before        come-past-1sg                you/dat  
              ‘I came to you before the evening prayer’  
              (*ğīʿtu ʿilayka min qabli l-ʿaşri* ..., mg 56<sup>top</sup>).

25a        **kal-di-m**                      **san-dan**        **şuñ-rā**  
              come-past-1sg                      you-abl        after-loc ?  
              ‘I came after you’ (*ğīʿtu baʿdaka*).

<sup>2</sup> Abū Ḥayyān must have realised that the construction of (25a) is quite different from the Arabic, and he gives an Arabic word-by-word analysis in which he paraphrases this sentence:

25b        **kal-di-m**                      **san-dan**        **şuñ-rā**  
              *ğīʿtu*                                      *minka*        *fī baʿdin*  
              I came                                      from you        in later

In (25b) it is shown that *rā* in **şuñrā** is regarded as synonymous with **dā**, which, in its turn translates *fī*, and **dan** as a particle that governs **san**. The same holds for locatives like **ʿilkarū** ‘early’ (*qabla*), in which **ʿilk** means ‘first’ (*ʿawwal*) and **rū** conveys the meaning of **dā**, e.g. **kal-di-m san-dan ilkarū**, meaning ‘I came before you’ (*ğīʿtu qablaka*), and also for **lā** (*al-lām*) in **tunlā** ‘at night’ and **tañlā** ‘in the morning’ (cf. *ʿİdrāk* 136,10ff.).

When the words **şuñ** and **ʿuñ** are not annexed to a pronoun, <sup>3</sup>Abū Ḥayyān considers them locatives of time, meaning ‘after’ and ‘before’, respectively. The same holds when the particle **dā**—or its equivalent—is added: **ṭurdum ʿuñ-dā qumtu qablu** ‘I stood up early’ and **şuñ-rā / şuñ-dā ṭurdum qumtu baʿdu** ‘I stood up later’. When annexed to a

<sup>17</sup> Perhaps **-düz** could be interpreted as a suffix, although, if so, it is certainly not productive. In EDT **kunduz** is considered an early compound.

pronoun, they become locatives of place,  $\text{ṣun-i-n-dā}$  *šamālan* ‘at the left’ and  $\text{ʿun-i-n-dā}$  *yamīnan* ‘at the right’, respectively (cf. *ʿIdrāk* 136,7; 25  $\text{ʿun}$  *al-yamīn* ‘right’; see discussion below).<sup>18</sup>

<sup>2</sup>Abū Ḥayyān’s twofold interpretation of  $\text{ṣun}$ , depending on whether or not  $-\text{dā}$  (or  $-\text{rā}$ ) is attached, is only partially reflected by the etymological analyses provided in ed. The meanings ed. (832) attributes to “ $\text{son}$ ”—his transcription of  $\text{ṣun}$ —are: “ $\text{son}$  originally perhaps physically ‘the end’ or ‘back’ of something, but normally used of time, as an Adverb or Postposition ‘afterwards, after’ (w. *Abl.*)...”

Clauson’s remarks with regard to the respective etymologies of “ $\text{on}$ ” and “ $\text{ön}$ ”, leave little room for <sup>2</sup>Abū Ḥayyān’s interpretation of  $\text{ʿun}$ . According to Clauson (ed. 166) “ $\text{on}$ ” means “left”, whereas “ $\text{ön}$  [means] ‘the front’ of anything.” Apparently <sup>2</sup>Abū Ḥayyān confused the two words, because of the similar form they have in Arabic script, or, perhaps their pronunciation had—for some reason—merged in the language he described.

### 2.5.2 Later innovations in the concept

In late Arabic theory the locative of place (*zarf muhtaṣṣ*) comprises all nouns that express a place (*ḡiha*) in themselves, such as *dār* ‘house’ and *masḡid* ‘mosque’ (see above Section 1.2). The verb is transitive to this type of locatives by means of the particle *fī*. If another particle is used, such as  $\text{ʿilā}$  ‘to’, the construction is not considered a locative of place. <sup>2</sup>Abū Ḥayyān applies the same criterion to Turkic:

“The locative of place is only used with the particle that is synonymous with *fī*, as long as it is a locative” (*wa-zarf al-makān lā yustaʿmal ʿilā bi-l-ḥarf al-murādif li-fī mā dāma zarfan*, *ʿIdrāk* 136,4).

Let us see now how this principle is applied.

As explained above in 1.2, in *Irtiṣāf* <sup>2</sup>Abū Ḥayyān divides the Arabic locatives of place into two categories. The first category is formed by the ‘specified locatives’ (*zurūf muhtaṣṣa*). This category of locatives always involves the particle *fī* (or *bi*, insofar as it is used to denote a locative) through which the verb governs the *zarf*. The second category involves the ‘unspecified locatives’ (*zurūf mubhama*). These locatives belong to the so-called six orientations (*al-ḡihāt as-sitt*, *Qawānīn* 35,6;

<sup>18</sup> The assumption that all these suffixes (i.e.  $-\text{rā}$ ,  $-\text{lā}$  and  $-\text{dā}$ ) convey the meaning of  $-\text{dā}$ , is close to Clauson’s opinion (EDT 144 and xl); he regards  $\text{ʿilkarū}$  as an “abbreviated directive form of *il̄k*” (>\*“*il̄kgerū*”), in which  $-\text{gerū}$  is considered a directive suffix, whereas  $\text{ṣunrā}$  can be interpreted as a combination of “ $\text{son}$  ‘end’... ‘later’” and the suffix “ $-\text{ra}$ ... [that] forms Loc[ative] Adv[erbs]” (832 and xl). Similarly, the ending  $-\text{lā}$  in the words *tunlā* and *ṭanjlā* is considered an adverbial suffix.

mg 55<sup>rt/bm</sup>; *Tuḥfa* 63<sup>6</sup>; *al-gāyāt* in *Mufaṣṣal* 67,2ff.) and they typically occur annexed to a noun or pronoun (*lāzima* ‘alā l-’*idāfa*, *Mufaṣṣal* 38,12).

The sources, especially mg and *Qawānīn*, list various words that can be used as locatives of the first category, along with their respective Turkic translations, i.e. ‘aw ‘house’ (*al-bayt*), bazar ‘market place’ (*as-sūq*) and kant ‘town’ (*al-balad*). In this way the following locatives are construed: bazar-dā ‘on the market place’ (*fi s-sūqi*), kantā (for kant-tā) ‘in the town’ (*fi l-baladi*); ‘aw-dā ‘in the house’ (*fi l-bayti*, *Qawānīn*, 35,1,10; similar examples in mg 55<sup>rt/bm</sup>). The verb governs the noun, which in Arabic is inferred from the accusative case ending in -a, e.g. *umkuṭ hādā l-bayt-a* ‘stay [in] this house!’, the Turkic of this sentence is bu ‘aw-dā ‘aklān<sup>19</sup> (mg 55<sup>rt/bm</sup>), with dā as the equivalent of the implied particle *fi*.

For ‘Abū Ḥayyān—and probably also for Zamaḥṣarī—the concept of *zurūf al-makān* further includes all other instances in which the particle *fi* is used or implied. This also holds for verbs that are typically used with *fi*, e.g. *daḥaltu l-madīnata* ‘I entered the city’ for *daḥaltu fi l-madīnati* ‘I entered into the city’,<sup>20</sup> even though semantically speaking there is an important difference with other verbs. Verbs such as *daḥala* ‘he entered’ express a movement or a direction, whereas this notion is absent in the ‘regular’ locative of place. For Turkic this has the consequence that with verbs that express a direction the dative case must be used instead of the locative case.

The sources apply this extended concept of the *zarf* to Turkic too. Therefore -gā/-kā is not only considered the equivalent of *fi*, but—analogueous to -dā—also a particle which is used for expressing the locative of place, viz., mg (56<sup>top</sup>): *ṭala<sup>c</sup>tu l-qal<sup>c</sup>ata* [acc] ‘I went out [to] the castle’ *qal<sup>c</sup>a-gā ṣiqtum*, and *daḥaltu l-madīnata* [acc] ‘I entered the city’ *ṣar-gā<sup>21</sup> kirdim*, *bāg-qā kir udḥul fi l-karmi* ‘go into the vineyard!’ (mg 40<sup>lt</sup>). The fact that these phrases are still regarded as *zurūf* is inferred from the following statements in the Margin Grammar, viz.,

“The locative of place is mostly only used with the particle that is synonymous with *fi* as long as it is a *zarf*...” (*zarf al-makān fi l-gālib lā yusta<sup>c</sup>mal<sup>c</sup> ‘illā bi-l-ḥarf al-murādif li-fi mā dāma zarfan*, MG 56<sup>top</sup>)

<sup>19</sup> Cf. TS (III 1399): “eğlenmek... ‘beklemek, kalmak’”, ‘to wait’.

<sup>20</sup> ‘Abū Ḥayyān mentions a discussion among grammarians who ascribe to Sībawayh the opinion that, e.g. *ṣām* ‘Syria’ in *daḥabtu ṣ-ṣāma* ‘I went Syria’ is a *zarf* because it gets the accusative after the deletion of ‘ilā, *daḥabtu ‘ilā ṣ-Ṣāmi* ‘I went to Syria’, and other similar instances.

<sup>21</sup> Short for *ṣahr* ‘city’ (Persian). The vocalisation of the Turkic phrases in this passage is by interpretation.



and

“qā is a particle of the locative with the meaning of *fi*” (*qā ḥarf ẓarf bi-ma<sup>c</sup>nā fi*, mg 40<sup>ft</sup>).

In the preceding sections (2.3), and in Chapter Four it is shown that according to Western grammar *ġā/qā* is, of course, a dative rather than a locative case. In the same sections we have also pointed out that the Arabic grammarians were aware of the meaning of *-ġā*, inasmuch as they equated it with the particle *ʾilā* ‘to(wards)’. Nevertheless, they equate *fi* with this suffix as well. We shall discuss this in greater detail below.

The category of the ‘unspecified’ locatives of place includes, e.g., *ʾust-un-dā* i.e. ‘above’ (*fawqa*); *ʾalt-in-dā* i.e. ‘underneath’ (*taḥta*); *ʾun-in-dā* i.e. ‘at the right’ (*yamīnan*) and *ʾsun-in-dā* i.e. ‘at the left’ (*šamālan*); *ʾaln-in-dā* i.e. ‘in front of’ (*ʾamāman*); *ʾard-i-n-dā*, i.e. ‘behind’ (*ḥalfan*) (*ʾIdrāk*, 135). The annexation is shown in *Qawānīn* (36,6) for *qāṭindā* ‘with you’ or ‘next to you’ (*ʾindaka*) and similar forms, e.g. *qāṭinizdā* ‘with you [pl].’ (*ʾindakum*), *qāṭlārindā* ‘with them’ (*ʾindahum*):<sup>22</sup>

“There is only one word for ‘with’, i.e. *qāṭ*, there is no other, and *dā*—or *ḍā*—is the particle of the genitive; what stands between them are the pronouns of the referents.” (*luġa ʿinda muġarrada hiya qāṭ lā ġayra wa-dā ʾaw ḍā hiya ḥarf al-ġarr wa-mā baynahumā ḍamā<sup>ʿ</sup>ir yu<sup>ʿ</sup>tā bihā li-man hiya lahu*, *Qawānīn* 36,6; a similar statement on mg 55<sup>rt/bm</sup>.)

In *ʾIdrāk*, *ʾAbū Ḥayyān* gives a similar analysis for *ʾard-i-n-dā* ‘behind’ (also partially quoted above):

“The *n* indicates the second person if it is nasal [i.e. *ṇ*], and the annexation if it is pure [i.e. *n*]. These two can never be combined; they never say *\*ʾard-in-iṇ-dā* with one of the two *nūns* being a nasalised *nūn* and the other a pure *nūn*. The pure *nūn* expresses the [annexation to] the third person and the nasalised *nūn* the [annexation to] the second person.” (*wa-ḥāḍihi n-nūn... ʾin kānat ḥayšūmiyya fa-hiya li-l-ḥiṭāb wa-ʾin kānat ḥāliṣa fa-hiya li-l-ʾiḍāfa, lā yuġma<sup>c</sup> baynahumā, fa-lā yuqāl \*ʾardiniṇdā wa-takūnu ʾaḥaduhumā ḥayšūmiyya wa-l-ʾuḥrā ḥāliṣa fa-n-nūn al-ḥāliṣa tuš<sup>ʿ</sup>ir bi-l-ʾiḍāfa li-l-ġā<sup>ʿ</sup>ib wa-l-ḥayšūmiyya li-l-muḥāṭab*, *ʾIdrāk* 136,17ff.)

In western grammar, forms like *qāṭlārindā* and, e.g. *ʾardimizdā*, and all other locatives of this type are analysed in a way that is very similar to the one prevalent in the sources:

<sup>22</sup> Cf. Lewis 1984 [1967] for a survey of similar adverbs (193-205) and postpositions (85-95) in Turkish.

- 26      **qāt-lāri-n-dā**  
           with-poss/3pl-n-loc  
           ‘with them’

In this analysis, **qāt** is a noun denoting a space next to or near something else.<sup>23</sup> However, in contrast to the analysis in the sources, the **n** in **qāt-lāri-n-dā** is considered merely an intermediate between the possessive suffix **-lari** and the locative case **dā**, and does not serve as a pronoun.

The same holds for the locative **’ustun-dā** ‘above you’, whose base form, **’Abū Ḥayyān** says, is **’ustun** (*’Idrāk* 135,19ff.; cf. also 13,6). He goes to some pains in explaining that, since the form **’ustun-un-dā** is too heavy because of the two **n**’s, the basic **n** must be elided, thus resulting in **’ustun-dā**. In the Western analysis, however, **’ust** is the base form, rather than **’ustun**.

- 27      **’ust-um-dā**  
           top-1sg-loc  
           ‘above me’ or ‘on top of me’

In this analysis “**üst** [means] upper surface, top” (edt 242). The word **’ustun** **’Abū Ḥayyān** refers to is interpreted by Clauson as an adverb [and as an adjective] “connoting motion onto or a situation on (something)... liable to be confused with oblique cases of **üst**” (edt 242). This confusion is caused by the insertion of **n** after the possessive **u** in dat, acc and abl. Elsewhere (edt 130), Clauson suggests that **üstün** is a form derived from **üst**. In other words, **üstün** cannot receive cases or pronominal endings, since it is itself an adverbial form.<sup>24</sup>

In *Ḥilya*, the Turkic locative is paraphrased in a word by word translation:

“the meaning of ‘at, with’ is **qātindā**, you say ‘so-and-so has a horse’ **tāwuk qāt-i-n-dā ’aṭ bār** [‘So and so has a horse’] its analysis in Arabic is ‘so-and-so with him in a horse existent’.” (*wa-ma ’nā ’inda qāt-i-n-dā taqūlu ’inda fulānin farasun tāwuk qātindā ’aṭ bār ta’ribuhu fulān ’indahu fi faras mawḡūd*, *Ḥilya* 98,3.)

This is schematically represented in (28):

28	<b>tāwuk</b>	<b>qātin</b>	<b>dā</b>	<b>’aṭ</b>	<b>bār</b>
	<i>fulān</i>	<i>’indahu</i>	<i>fī</i>	<i>faras</i>	<i>mawḡūd</i>
	so-and-so	with him	in	horse	existent

<sup>23</sup> For an etymology of **qat** as a noun cf. EDT 593.

<sup>24</sup> In *’Idrāk* (22) **’Abū Ḥayyān** gives a similar analysis of **’altindā** ‘underneath’, taking **’altin** (*at-taḥt*) as its base form, whereas this is probably **alt**.

In Arabic, when a *zarf* is preceded by a particle that governs the genitive, especially *min*, the *zarf* stops being a locative because in those cases it acts as an ordinary noun, e.g. *min qabli* 'before'—lit. 'from before'.<sup>25</sup> The reason for this is the fact that *fī* is no longer implied, for the new particle *min* takes its place. In terms of governance one could say that *qabl* cannot simultaneously contain the meaning of one particle, i.e. *fī*, and be governed by a second one, i.e. *min*.

In *ʿIdrāk* it is suggested that some locative words may be construed with a particle other than *dā*, although the resulting construction "stops being a locative" (*fa-yahruḡu ʿan az-zarfiyya*). The example mentioned is *ʿadraka min ḡalfika* 'he caught up from behind you [sg.]' *ʿard-in dan yat-tī* (*ʿIdrāk* 136,6). In the same way the literal equivalent of *min qablu* in Turkic, *burun-dan* 'later', is dismissed as a locative of time, because it is construed with the equivalent of *min*, i.e. *dan* (MG 56<sup>top</sup>; also *Qawānīn* 36,18).

### 2.5.3 Summary

Summarising the findings with regard to the *zurūf*, it is possible to say that in Arabic grammar the *zarf* is primarily a noun conveying a space or time, which denotes that the action of the verb takes place in it. The verb—which may be present in the underlying structure only—governs the locative, which, as a result, is conceived of as an object to the verb (*mafʿūl fihi*). With regard to the syntactic elements they regarded as locatives in Turkic, the Arabic grammarians made use of the fact that most of them can easily be identified as compounds of a noun and a locative marker, *dā*, which they equated with their particle *fī*. In this sense they apparently accepted the fact that *fī* may have various realisations, viz., *rā*, *lā* and *rū*, although these were in the first place regarded as synonymous with the Turkic particle *dā*, which in turn, is equivalent to the Arabic particle *fī*. In some instances, however, *fī* is translated by *ḡā/ḡā*, the dative suffix. In other places *ḡā/ḡā* is equated with the particles *ʿilā* 'to(wards)' and *li* 'to', but this apparently did not disturb them.

The various realisations of *fī* also give some clues as to the way Turkic phrases and sentences were constructed, in other words, the Turkic sentences and phrases are translations from the Arabic. Arabic issues were taken as points of departure and their respective translations into Turkic were analysed. If it had been the other way around,

<sup>25</sup> Not all locative nouns have a full declension.

the grammarians would have found that, for example, *ġā/kā*, has different translations in Arabic, i.e. *ʿilā* and *fi*.

It seems that the notion of *zarf* in Arabic grammar, at least with the later grammarians, became related to the particle *fi* in a very mechanical way, regardless of its semantic interpretation. This was quite unlike the former conception of *zarf* in which it was regarded as denoting a more or less fixed place without the particle appearing in the surface structure. Especially interesting is that a semantic feature such as directionality apparently does not play a significant role.

The analytic approach the Arabic grammarians applied to the Turkic locatives is in accordance with their approach to Arabic; they segment every word into morphemes. In some instances their conclusions and analyses agree with western findings, in others the two approaches differ.

### 3. CONCLUSIONS

The main conclusion with regard to the translation and subsequent analysis of instances in which in Arabic the genitive case occurs is that the sources do not equate the Arabic case endings which are part of the system of *ʿirāb* with Turkic, nor vice versa. Instead the Turkic morphemes that are regarded as case endings in Western analysis are considered particles, analogous to the Arabic particles of the genitive. In one instance, though, the possessive ending in *ī /iy/*, they seem to come close to a comparison with an Arabic case ending, in the sense that the *y* is considered a mere lengthening of *i* and cannot serve as a pronoun. In this way it only serves to indicate that the noun that ends in *ī* is involved in an annexation construction.

It is possible to draw another conclusion with regard to the relation of the Turkic and Arabic sentences. From the examples and the way they were analysed, it becomes obvious that the grammarians' primary material consisted of their usual Arabic sentences and phrases which they translated, subsequently discussing the translations. Turkic seems to be the original in very few cases. This is evident, for example, in the use of *fi*. In Arabic, *fi* can be applied with verbs that convey a rest, e.g., *qāma fi l-bayt-i* 'he stood up in the house' and verbs that express a movement, e.g., *daħaltu fi l-madīnat-i* 'I entered into the city'. In Arabic grammar, the semantic difference between the two instances is not noted, and in both cases the construction with *fi* is considered a locative of place. Even when confronted with the different translations of *fi* in Turkic, *-dā* (LOC) *-ġā* (DAT) in this respect, they make

no attempts to generalise the meanings of *fi*. The only case in which they do so is in the translations of *ḥattā* and *ʿilā*, which already share a common meaning in Arabic, i.e. 'until'.



CHAPTER SIX  
THE ACCUSATIVE CASE (NAŞB)

INTRODUCTION

The aim of this chapter is to give an insight into the way Arabic grammarians applied their concepts of objects and transitivity to Turkic languages, special attention will be paid to the views of 'Abū Ḥayyān al-'Andalusī. It further contains a brief analysis of Turkic object constructions and transitive and intransitive verbs as they occur in the sources. In the third section, it shall be seen how the Arabic grammarians applied their theories to Turkic constructions and the role of their notions of object and transitivity. I refrain from engaging in a detailed discussion of transitivity in Arabic linguistics (for which cf. Owens 1988 and 1990, Bobzin 1983, Levin 1979 and Taha 1995<sup>1</sup>), but rather confine the discussion to an introduction.

In this chapter I intend to point out that the Arab grammarians not only assigned the same lexical meaning of Arabic verbs to their Turkic equivalents, but also similar governing capacities. Although the objects the verb governs take certain markers, these do not always have the form the grammarians expected. This confrontation leads to interesting observations where the Turkic verbs govern through the dative case, two objects, or the so-called 'optional objects'.

The accusative case is of special importance, because it is the only syntactic case in Turkic. It shall be seen that the analyses given by the Arab authors is quite similar to the one given for Arabic.

1. ARAB GRAMMARIANS ON TRANSITIVITY VS. INTRANSITIVITY

The main goal Arab grammarians set themselves was to give an explanation of the cases of declension in the Arabic language. In this study it is argued that this approach is based on formal - syntactic rather than

---

<sup>1</sup> By the time I got the chance to study a copy of Zeinab Taha's most interesting dissertation on the views of Sibawayh, al-Mubarrad and Ibn as-Sarrāğ on transitivity, this book was already in the final stage of preparation. Therefore the results of her research could not be included in this study.

semantic criteria (cf. Chapter Four 1). The Arabic scholars' views on objects and transitivity originate from their concern to account for the ending *a* in nouns. In Arabic linguistic theory, this ending is typically caused by the governance of verbs, or particles which are said to have a resemblance to verbs and are therefore entitled to govern like verbs.<sup>2</sup>

The verb, thus, governs two cases, nominative and accusative. As a result of this government, the noun on the syntactic position of the nominative (*rafʿ*) gets *u*, and the noun on the position of the accusative (*naṣb*) gets *a*. The function of agent (*fāʿil*) position occurs on the syntactic position of the nominative (*rafʿ*), and the object (*mafʿūl*) occurs on that of the accusative (*naṣb*). In Arabic grammar there are various types of objects, all of which receive the accusative case ending.

One such object is the direct object (*mafʿūl bihi*). The direct object can be assigned to a special class of verbs only, the *ʿafʿāl mutaʿaddiya*, roughly equivalent to 'transitive verbs'. The term *mutaʿaddin* is an elliptic expression for *fiʿlun mutaʿaddin fāʿilahu ʿilā mafʿūlin* 'a verb that passes by its agent to an object'<sup>3</sup> (cf. Bobzin 1983:95). An example of a transitive verb with its *mafʿūl* is, e.g.,

1	<i>ḍaraba</i>	ʿamr-un	<i>zayd-an</i>
	hit/PAST/3sg	ʿAmr-NOM	Zayd-ACC
	'Amr hit Zayd.'		

Not only transitive verbs may govern objects, for some objects may be governed by both transitive and intransitive verbs alike. These are the so-called optional objects, which include the absolute object (*mafʿūl muṭlaq*), the object of reason (*mafʿūl lahu*), the concomitant object (*mafʿūl maʿahu*), the locative, i.e. object that expresses the time or place in which an action takes place (*mafʿūl fihi* or *zarf*).

2	<i>qāma</i>	<i>zayd-un</i>	<i>qiyām-a-n</i>	<i>al-yawm-a</i>	<i>ʿamām-a-ka</i>
	stand up	zayd-NOM	standing-	today-	front-
	/PAST/3sg		ACC-INDEF	ACC/DEF	ACC-you
			<i>mafʿūl muṭlaq</i>	<i>mafʿūl fihi</i>	<i>mafʿūl fihi</i>
	'Zayd stood up in front of you today'				
	(literally: 'stood up a standing').				

In (2), both *al-yawm* 'today' and *ʿamāma* 'front' are locatives (a detailed discussion of the locative is found in *Irtiṣāf* II 225ff), and *qiyām-*

<sup>2</sup> The same holds for verb-like particles like *ka-ʿanna* 'as if', e.g. *ka-ʿanna zayd-an ʿamr-un* 'as if Zayd (ACC) [were] ʿAmr (NOM)', which will not be discussed here.

<sup>3</sup> For later Arabic grammarians this elliptic expression became the only name for transitive verbs.



*an* 'standing' is a verbal noun (*maṣḍar*), that occurs as an absolute object.

The object of reason expresses the reason for which an action is carried out, e.g.,

- 3a      *ġi<sup>2</sup>-tu-ka*                      *ḍarb-a*                      *zayd-in*  
 come/PAST-1sg-you beat/INF-ACC/DEF zayd-GEN  
 'I came to you to beat Zayd' (*Irtiṣāf* II 221; 223,14).

This is paraphrased with

- 3b      [*ġi<sup>2</sup>-tu-ka*]                      *li-ḍarb-i*                      *zayd-in*  
 [I came to you]                      for-beat/INF-GEN/DEF zayd-GEN

In the paraphrasis, introduced with *'ay* 'that is', the implied particle *li* 'for, in order to' is shown in the surface structure.

Other objects are the excepted (*muṣtaṭnā*), and the specification (*tamyīz*), and the circumstantial expression (*ḥāl*; in Owens [1988] translated as 'condition'), which denotes the condition of the agent (or object). The circumstantial expression may have the form of the active participle marked with the accusative case, caused by governance of the verb:

- 4              *ġā<sup>2</sup>a*                      *raġul-u-n*                      *dāḥik-a-n*  
 come/PAST/3sg man-NOM-INDEF laughing-ACC-INDEF  
 'A man came laughing' (*'Idrāk* 138,17; cf. Owens 1988:85).

### 1.1 Different types of government and direct objects

Intransitive verbs, such as *ġā<sup>2</sup>a* 'he came' and *qāma* 'he stood up', cannot govern a direct object. However, in Arabic linguistics there are three ways for an otherwise intransitive verb to become fit for governing a direct object, all of which involve a so-called *ḥarf at-ta'diya*. The first case is the use of the intransitive verb with a particle that governs the genitive case (*ḥarf ḡarr*). The other cases involve a change in the pattern of the verbal stem: the doubling of the middle consonant of the verb and, thirdly, an initial *hamza* added to the stem of the verb (*Mufaṣṣal* 115,8-20; also Owens 1988:175ff). In the first instance *ḥarf* must be translated as 'particle', and in the other two as 'consonant'. The following discussion deals with the way a particle is used to make an intransitive verb transitive.<sup>4</sup> After that follow the remaining two options.

<sup>4</sup> According to Ibn Ğinnī, the particle may be considered a part of (*ba'd min*) the verb, or of the noun. When a part of the noun, the verb becomes transitive; this procedure is similar to the doubling of the middle radical (*takrīr*) or the prefigation of the *hamza*.

With regard to the first option, the *ḥarf ḡarr*, <sup>2</sup>Abū Ḥayyān gives the following statement:

“The intransitive verb may be implicitly connected to an object; it becomes especially transitive by means of a particle... e.g. ‘I passed by Zayd’ and ‘I got angry with ‘Amr’, if the verb does not especially require [the particle], e.g. ‘I went out to Zayd’... the correct [opinion] is that it is called transitive.” (*wa-qad yu‘allaqu l-lāzim bi-maf‘ūlin bi-hi ma‘nan fa-yu‘addi bi-ḥarf al-ḡarr maḥṣūsan... nahwa marartu bi-zaydin wa-ḡadibtu ‘alā ‘amrin... fa-‘in kāna l-fi‘l lā yaqtaḏihi bi-ḥuṣūsihi nahwa ḥaraḡtu ‘ilā zaydin wa-ṣ-ṣaḥīḥ ‘annahu yusammā muta‘addiyan... , Irtiṣāf III 50,11f.*)

In other words, <sup>2</sup>Abū Ḥayyān’s concept of transitivity (*ta‘diya*), does not only include transitive verbs that have a direct object, but it also comprises all transitive verbs that are made transitive by means of a particle, regardless of whether or not the verb is typically used with a particle, such as *marartu bi-zaydin* ‘I passed by Zayd’, or incidentally, e.g. *ḥaraḡtu ‘ilā zaydin* ‘I went out to Zayd’.<sup>5</sup> This opinion with regard to the direct object is also evident in Ibn Sarrāḡ’s *‘Uṣūl* (II 65; see Owens 1988: 176 for further discussion).

<sup>2</sup>Abū Ḥayyān’s argument for considering these nouns ‘direct objects’ is that the particle may be elided exceptionally (*ṣudūdan*) in poetry, regularly (*iṭṭirādan*), or because of frequency of use (*kaṭra al-isti‘māl*). Elision (*ḥaḍf*) means that the element disappears from the surface structure, but is still posited at the underlying level (*taqḍīr*) (cf. on *ḥaḍf* Owens 1988:186 and Carter 1991). After elision of the particle, the verb governs the object directly which, as a result, adopts the accusative case. Examples are, e.g., *daḡaltu d-dāra* ‘I entered the house’, vs. *daḡaltu fī d-dāri* ‘I entered into the house’ and *ḍahabtu ṣ-ṣāma* instead of *ḍahabtu ‘ilā ṣ-ṣāmi* ‘I went to Damascus’. This process of elision of the particle and the subsequent direct governance of the intransitive verb is called *ittisā‘*, ‘flexibility’, and it is comparable with other instances in which an intransitive verb governs a direct object. In his article Versteegh (1990), describes three instances of *ittisā‘* in Sibawayh’s *Kitāb*, two of which concern a change in the governance of

When it is considered part of the verb, the combination of particle and noun is in the syntactic position of the accusative (*kāna ma‘a mā ḡarrahu fī mawḍi‘ an-naṣb*), which can be illustrated with the accusative of *‘amr-an* in *marartu bi-zayd-in wa-‘amr-an* ‘I passed Zayd and ‘Amr’ in which *zayd-GEN* is governed by the particle, and *‘Amr-ACC* by the verb (*Ḥaṣā‘iṣ* I 341,6ff).

<sup>5</sup> Contrary to Owens (1988:298 n 219), I believe that the Arabic grammarians (including Ibn Ġinnī *Ḥaṣā‘iṣ* I: 106,10; 342) did not consider *bi* and other particles ‘marker[s] of objectivity’, because this term is reserved for the accusative case and, by extension, the accusative case ending (see Chapter Four).

a verb, i.e., the use of optional objects such as the locative (*zarf*) and the verbal noun (*maşdar*) as direct objects of a verb.

<sup>2</sup>Abū Ḥayyān assumes an elision of the particle in the case of the transitive verbs *ʾaḥaḍa* ‘he took’ and *raʾā* ‘he saw’, which, according to his opinion, may be used either with or without a particle. He bases this analysis on occurrences of these verbs with the particle in many instances in the Qurʾān (e.g. 43): ﴿ʾa-lam tara ʾilā lladīna ḥaraġū min diyārihim﴾ ‘Did you not see the ones who went from their lands’, in which *raʾā* is transitive with the particle *ʾilā* ‘to’. A second example is (II 150) ﴿wa-ʾaḥaḍa bi-raʾsi ʾaḥīhi﴾ ‘And he took his brother’s head’, in which *ʾaḥaḍa* is transitive by means of the *ḥarf bi* ‘with’.<sup>6</sup> Although the use of *raʾā* and *ʾaḥaḍa* with the particle is, in fact, exceptional, the grammarians may have considered it more economical to posit a particle that may be elided and reappear in certain instances, than one that must be inserted (see 3.2.4 for the consequences of the implied particle in the analyses of Turkic objects).<sup>7</sup>

### 1.1.1 Two types of objects

<sup>2</sup>Abū Ḥayyān makes a distinction between the two types of objects mentioned in the preceding section. The object that directly depends on the verb is called a ‘proper object’ (*mafʿūl ṣarīḥ*) and the object which is governed through a particle is called an ‘improper object’ (*mafʿūl ġayr ṣarīḥ*). The object remains ‘improper’ even after elision of the particle, because the particle is still posited in the underlying structure (*ʾIḍrāk* 121,22). Although the notions of *mafʿūl ṣarīḥ* vs. *mafʿūl ġayr ṣarīḥ* seem to have been developed within the context of Arabic linguistics, the terms do not occur in *Irtiṣāf* and *Manḥaġ*.

In practice there is no difference in status between the direct object of a directly transitive verb and one that is transitive by means of an (elided) particle. According to Owens (1988: 298 n. 219) the grammarian al-ʾAstarābādī (d. 686/1286), too, accepted objects that were governed by a verb by means of a particle as direct objects. To my knowledge, though, he did not use the terms ‘proper object’ (*mafʿūl bihi ṣarīḥ*) and ‘improper object’ (*mafʿū bihi ġayru ṣarīḥ*).

<sup>6</sup> I thank Monique Bernards for her kind help in finding these places in her copy of *al-Baḥr al-Muḥīṭ*.

<sup>7</sup> With the particle, *raʾā* conveys the meaning of admiration (*taʿaġġub*) (*al-Baḥr al-Muḥīṭ* II, 258, cf. *Lisān al-ʾArab* XIV 299<sup>b</sup>11 and Bayḍawī *Tafsīr* I, 93). In the case of *ʾaḥaḍa bi*, however, the particle *bi* does not seem to cause any fundamental difference in meaning.

The concept of *mafʿūl ʃarīḥ* versus *mafʿūl ǧayru ʃarīḥ* is linked to yet other characteristics that ʾAbū Ḥayyān attributes to intransitive and directly transitive verbs. In *Manḥaǧ* (126,9-10), he describes the directly transitive verbs (*ʾafʿāl mutaʿaddiya*) as strong (*qawiya*) and the intransitive verbs (*ʾafʿāl lāzima*) as weak (*ḍaʿīfa*); only strong verbs are capable of governing a direct object, whereas weak verbs are not.<sup>8</sup> It is possible, though, to strengthen (*taqwiya*) a weak verb by means of a particle, as we have seen.

### 1.1.2 The strengthening particle *li*

Directly transitive verbs, such as *ḍaraba* ‘he hit’, may also be followed by a particle, i.e. *ḥarf ǧarr li* ‘to’, although in this case it does not imply that they are weak:

5	<i>ḍarab-tu</i>	<i>li</i>	<i>zayd-in</i>
	beat/PAST-1 sg	to	zayd-GEN
	‘I beat Zayd.’		

*Li* is here regarded as a strengthening element (*muqwiya*) for the governance (*ʿamal*) of the governor (*ʿamil*). Unlike the particle used with weak verbs, in this case it is considered redundant (*ziyāda*), since the meaning of the sentence is not influenced by it (*Irtiṣāf* II 435,4; cf. also Carter [on *ziyāda*] 1981:435, and 51; 111). In *Manḥaǧ* (244, 20, 24-5) ʾAbū Ḥayyān mentions that this use of *li* is for expressing transitivity (*li-t-taʿdiya*). Ibn Sīdah (d. 458/1066) states that a characteristic of a redundant particle is that it is not implied in the underlying structure (*taqdīr*), because the “meaning does not create a need for it” (*wal-maʿnā lā yuḥwiǧu ʾilayhi, al-Muḥaṣṣaṣ* 72,24f).

This use of the particle *li* is not comparable with *li* in the *mafʿūl lahu*, ‘the object of reason’, which can be elided from the surface structure, but remains posited in the underlying structure of the sentence (cf. 3; see discussion below in 3.2.2).

### 1.2 Adding transitivity to the verbal stem

We return now to the two other possibilities for adding transitivity to the verbal stem. In the first case, *taḍʿīf* ‘doubling’, the middle consonant of the verb is doubled; the verbal pattern *faʿa/i/ula* becomes *faʿʿala*.<sup>9</sup> In the second case the verb gets a supplementary *hamza* and

<sup>8</sup> In this particular context the doubling of the middle radical of the verbal stem is not explicitly mentioned.

<sup>9</sup> In *Mufaṣṣal* (115,9) *taṭqīl al-ḥašw*, ‘reduplication of the middle radical’.

adopts the pattern  $\text{'af}^{\text{c}}ala$ . For this option the term *naql* 'transfer' is used, an elliptic expression for *naql al-ḥaraka*, i.e. the vowel shifts from  $C_1$  to the prothetic *hamza* (cf. Owens 1988:183).

After either procedure the new verb is transitive to one or, when applied to a transitive verb, to two or even three objects. Thus, *fariḥtu* 'I rejoiced' and *ḍahabtu* 'I went' become *farraḥtu-hu* 'I made him rejoice', and *'adhābtu-hu* 'I made him go', respectively. From a transitive verb, e.g. *kafala zayd-un 'amr-an* 'Zayd supported 'Amr', a new verb form is derived which is used with two objects, e.g.,

6	$\text{'a-kfal-tu}$	<i>zayd-an</i>	$\text{'amr-an}$
	CAUS-support/PAST-1sg	zayd-ACC	$\text{'amr-ACC}$
	'I made Zayd support 'Amr' ( <i>Irtiṣāf</i> III 53,18).		

These newly formed verbs that already were transitive before the process now have two object complements instead of one, both of which are equal in status. In other words, both *zayd-an* and  $\text{'amr-an}$  are direct objects to  $\text{'akfaltu}$ .

Transitivity is also conveyed with the pattern *istaf<sup>c</sup>ala*, although this pattern is mainly used to express a demanding or asking for, e.g. *ḍarabtu zayd-an* 'I hit zayd'—*istaḍrabtu zayd-an 'amr-an* 'I wanted Zayd to hit 'Amr' (*Manḥağ* 127,26; cf. also Wright 1986 [1896] I:44).

Although all bitransitive verbs, insofar as they have not been formed by a previous operation of transitivity, may in theory become tritransitive, the procedure is limited to a few semantic entries only. It concerns basically those stems that express a transfer of information or knowledge,  $\text{'a}^{\text{c}}lama$  'he made known', and  $\text{'a}^{\text{c}}ḥbara$  'he informed' and the like. A second constraint is the fact that tritransitivity only occurs with the verbal pattern:  $\text{'af}^{\text{c}}ala$ :

7	$\text{'a-lamtu}$	<i>zayd-an</i>	<i>al-faras-a</i>	<i>musarrağ-a-n</i>
	CAUS-know	zayd-ACC	ART-horse-	saddled-ACC-INDEF
	/PAST/1sg		ACC/DEF	
	'I informed Zayd [that] the horse is saddled'			

It will be seen below (cf. 3.3.5) that the Turkic translation of this sentence contains a part that is direct speech. With regard to the Arabic sentence (7), therefore, it is important to note that the second part, i.e. *al-farasa musarrağan*, is dependent on the verb  $\text{'a}^{\text{c}}lamtu$ , for which both elements are marked with the accusative case. This phrase cannot serve as direct speech, for in that case both elements should have been marked with the nominative case.

In this discussion we shall concentrate on verbs that are directly transitive to two objects and, further, discuss the exact status of the objects concerned in greater detail.

### 1.3 Three types of bitransitive verbs

ʾAbū Ḥayyān (*Irtiṣāf* III 55) distinguishes three categories of this type of bitransitive verbs. The first category he mentions concerns verbs that are transitive to two objects: the verb is directly transitive to one of them, whereas it is transitive to the other one by means of a *ḥarf ḡarr*. For example, *sammaytu zayd-an ʿamr-an* or *sammaytu zayd-an bi-ʿamr-in* ‘I called Zayd ʿAmr’. The bitransitive verbs of the two other categories are directly transitive to both objects, the difference between them being relationship between the two objects. In one class of verbs the two objects do not refer to the same noun. This is the case with verbs of the type of ʾa ʿṭā ‘he gave’, and *kasā* ‘he clothed’, e.g.,

- |   |  |                            |                                       |
|---|--|----------------------------|---------------------------------------|
| 8 | <i>ʾa ʿṭay-tu</i><br>give/PAST-1sg<br>‘I gave Zayd a dirham.’        | <i>zayd-an</i><br>zayd-ACC | <i>dirham-a-n</i><br>dirham-ACC-INDEF |
| 9 | <i>kasaw-tu</i><br>dress/PAST-1sg<br>‘I dressed ʿAmr with a kaftan’. | <i>ʿamr-an</i><br>ʿamr-ACC | <i>ḡubbat-a-n</i><br>kaftan-ACC-INDEF |

*Zayd* and ʿ*Amr*, obviously, are not identical with *dirham* and *ḡubba*, respectively. Zamahṣarī (*Mufaṣṣal* 116,21) calls the objects of such verbs *mafʿūlāni mutaḡāyirāni*, i.e. ‘two differing objects’. In ʾAbū Ḥayyān’s the verb is directly transitive (*bi-nafsihi*) to both of them, i.e. without mediation of a particle: “[the verb] is sometimes transitive by itself to two [objects]...” (*wa-[yata ʿaddā l-fi ʿlu] tāratān ʾilā itnayni... bi-nafsihi...*, *Irtiṣāf* III 55,15.).<sup>10</sup>

In ʾ*Idrāk*: ʾAbū Ḥayyān gives a paraphrase of (8)

“I gave Saṅḡar the *dirham*’ i.e. ‘to Saṅḡar’. The giving actually occurs to the *dirham* and Saṅḡar is the one to whom the *dirham* is handed. The equivalent of this in Arabic is ‘I handed the *dirham* to Zayd’. It is not permitted [to

<sup>10</sup> There are two alternative ways to look upon the objects *dirham* and *ḡubba*. The first is considering them both instrumentals, much like in Russian *ya odaril ego rublĕm* ‘I bestowed him with a rubel’ or *ya nakryl ego ḡubbay* ‘I covered him with a ḡubba’, in which these objects take the instrumental case ending. From this perspective, the second accusative is here used semantically. The second is regarding *dirham* a direct object, and *zaydan* an indirect object (which is not possible for [9]), i.e. *zayd* is the semantic case. Based on these scarce seems that considering *zayd* an indirect object is essentially inspired by Western Grammar, not an ‘absolute analysis’.

*sanğara*<sup>11</sup> *fa-ʿinna l-ʿitā* ʿinnamā *waqaʿa haqīqatan bi-d-dirham wa-sanğar huwa l-madfū* ʿilayhi *ad-dirham wa-nazīruhu fi l-lisān al-ʿarabī dafaʿtu d-dirhama* ʿilā *zaydin wa-lā yağūzu* \**dafaʿtu d-dirhama zaydan*, ʿIdrāk 142,7f).<sup>12</sup>

A semantic paraphrase is permitted with an alternative verb that conveys the same lexical meaning as ʿaʿtaytu, i.e. *dafaʿtu* ‘I handed’. This verb, however, is transitive to one of the objects with the particle ʿilā ‘to’, viz.,<sup>13</sup>

10a	<i>dafaʿtu</i>	<i>d-dirham-a</i>	<i>ʿilā</i>	<i>zayd-in</i>
	hand/PAST-1sg	ART- <i>dirham</i> -ACC/DEF	to	zayd-GEN
	‘I handed the <i>dirham</i> to Zayd.’			

The role of the two objects, both marked with the accusative in Arabic, is explained with the aid of a paraphrase; the governance of one of the objects (*sanğara*) by the verb is expressed by means of *li* (*li-sanğara*). We have seen that in Arabic linguistic theory the *ħarf li* may be used as an extra element to strengthen the government of the transitive verb.

In the case of *dafaʿtu* the particle cannot be deleted from the surface structure, i.e. the verb cannot directly govern both objects.

10b	* <i>dafaʿtu</i>	<i>d-dirham-a</i>	<i>zayd-an</i>
	hand/PAST-1sg	ART- <i>dirham</i> -ACC/DEF	zayd-ACC
	*‘I handed the <i>dirham</i> Zayd.’		

Another possible reason for giving both sentences is that on a semantic level *zayd-an* in (8) has the same function as *li-zayd-in*, in which *li* expresses the meaning ‘to’, equivalent to ʿilā, rather than serving as a strengthening element. However, the governance of the verb ʿaʿtā ‘he gave’ is unlikely to be paraphrased with a particle, because the verb ʿaʿtā only allows direct objects as complements.

In the second class of bitransitive verbs, the two objects refer to the same noun, e.g.,

11	<i>zanan-tu</i>	<i>zayd-an</i>	<i>ħāriğ-a-n</i>
	think/PAST-1sg	zayd-ACC	leaving-ACC-INDEF
	‘I thought Zayd [to be] leaving’.		

<sup>11</sup> The noun *sanğar* probably belongs to the class of diptotic nouns that does not take the ending *i* in the genitive case, but *a* instead. Nouns of this class do not have final *n* either: *ħarabtu sanğara* ‘I beat Sanğar’, instead of *ħarabtu \*sanğar-an*.

<sup>12</sup> This statement is given in the context of the Turkic sentence ʿaqğā-ni bir-du-m sanğar-ğā. It is possible that *li-sanğar-a* is a mere translation of the Turkic *sanğar-ğā* ‘to Sanğar’ and hence not a paraphrase of the Arabic (see discussion below in Section 3.2).

<sup>13</sup> The term *nazīr* in this context signifies that (8) has the same lexical meaning as (10a).

Verbs like *zanantu*, *ḥasibtu* ‘I reckoned’, *‘alimtu* ‘I knew’ belong to the category of verbs that are *dāḥila* ‘*alā l-mubtada*’ *wa-l-ḥabar*, i.e. they are used with a nominal sentence consisting of a topic and a predicate, and govern both of them (see Owens 1988: 223ff. for a discussion on *daḥala* as a technical term; cf. also Saad 1975). According to Arabic theory, (11) is derived from a nominal sentence (12) in which one of the objects is the topic and the other a predicate:

12	<i>zayd-un</i>	<i>ḥāriḡ-u-n</i>
	<i>zayd-NOM</i>	leaving-NOM -INDEF
	‘Zayd is leaving’.	

In *Irtiṣāf* ’Abū Ḥayyān states, “[the verb] may also [be transitive] to two [objects]; their origin is the topic and the predicate.” (*wa-tāratan [yata‘addā l-fi’l] ‘ilā itnayni wa-’aşluhumā mubtada’ wa-ḥabar, Irtiṣāf* III 55,15 and 56ff; cf. *Manḥaḡ* 90,3.)<sup>14</sup> The verb governs the connection (*nisba*) between the topic and the predicate, not the nouns themselves,

“...the act originates from you and what is dependent on it is the relation between the two nouns, not the nouns [themselves].” (...’*innamā l-fi’l waqa‘a minka wa-muta‘alliquhu an-nisba llatī bayn al-ismayni lā l-ismāni*, ’Abū Ḥayyān in *Manḥaḡ* 92,6).

According to ’Abū Ḥayyān the semantic connection (cf. Owens 1988:304; Carter 1981:135) between the two objects, the former topic and predicate, constitutes the link between the verb and its objects, rather than a sort of direct government of each individual object by the one verb.

One of the objects to *zanna*, *ḥāriḡ-un*, can be replaced with a verb, e.g.,

13	<i>zanan-tu</i>	<i>zayd-an</i>	<i>ya-ḥruḡ-u</i>
	think/PAST -1sg	<i>zayd-ACC</i>	3sg-leave/PRES -IND
	‘I thought Zayd [to be] leaving.’		

The verbal form *yaḥruḡu* stands on the syntactic position of the accusative because it is governed by the verb, but it does not take an accusative ending.

This link between *zayd* and its predicate *ḥāriḡ / yaḥruḡu* is related to another difference between the classes of bitransitive verbs. In nominal sentences, e.g., *zayd-un ḥāriḡ-un* ‘Zayd is leaving’, and *’inna*

<sup>14</sup> This category of verbs is also called *’af‘āl al-qulūb* ‘verbs of the heart’, for most of these verbs “signify an act that takes place in the mind” (Wright 1986 [1898] II:48); they may also express doubt, an opinion or an act of learning. In many grammatical works the *’af‘āl al-qulūb* are treated in a separate chapter (*Irtiṣāf*, *’Idrāk*).



*zayd-an ḥārīḡ-un* '[topicalisation] Zayd is leaving', it is impossible to delete either the topic or the predicate. The same holds when both elements are governed by a verb, such as *zanna*:

14a \**zanantu*                      *zaydan*  
 \*'I thought Zayd.'

14b \**zanantu*                      *ḥārīḡan/yahruḡu*  
 \*'I thought leaving/leaves.'

For *ʾa ʿṭā* 'he gave' and other verbs of the same class, on the other hand, it is possible to elide either one of the objects

15a *ʾa ʿṭaytu*                      *zaydan*  
 'I gave [to] Zayd.'

15b *ʾa ʿṭaytu*                      *dirhaman*  
 'I gave a dirham.'

(*Mufaṣṣal* 118,1-7; also *Irtiṣāf* III 56-7; *ʿUṣūl* I 78ff; Owens 1988:174 and 240).

This indeed shows a basic difference between the two classes of bitransitive verbs. Arabic grammarians further developed a test to determine whether a given object is a direct object (*mafʿūl bihi*) or an optional one (*ḥāl, zarf*). The test consists of passivising the verb and seeing which one of the former objects takes the nominative. The noun that can take the nominative is a direct object. The passive voice of the verb is called 'the verb whose agent is not mentioned' (*al-fiʿl alladī lam yusamma fāʿiluhu*). In the view of the Arabic grammarians 'the object substitutes for the agent' (*al-mafʿūl bihi yanūbu ʿan al-fāʿil*, Ibn Mālik *apud Manḥaḡ* 111,4; see also Owens 1988: 180-5).

16 *ḍaraba*                      *zayd-un*                      *ʿamr-an*                      *al-yawm-a*  
 beat/PAST/3sg    Zayd-NOM                      ʿAmr-ACC                      ART-day-ACC/DEF  
 'Zayd beat ʿAmr today.'

When the agent is not mentioned, i.e. in the passive, the direct object takes its place, taking the nominative, while the optional object remains in the accusative:

17 *ḍuriba*                      *ʿamr-un*                      *al-yawm-a*  
 beat/PAST/PASS/3sg    ʿamr-ACC                      ART-day-ACC/DEF  
 'ʿAmr was beaten today.'

The fact that the term 'object' (*mafʿūl*) is maintained for the function of *ʿamr* in (17) indicates that the underlying case roles are what determines the construction and, hence, the case ending that is typically assigned to an agent (cf. also Owens 1988:57ff).

Optional objects cannot take the place of the agent of the passivised verb:

- 18        \**ḍuriba*                      *al-yawm-u*  
             beat/PAST/PASS/3sg      ART-day-NOM/DEF  
             \*‘Today was beaten.’

Zamaḥṣarī (*Mufaṣṣal* 117,1-3) applies this test to sentences with two objects. Only a direct object may take the nominative. Thus, in the passive sentence (8) becomes either

- 19a        <sup>ʔ</sup>*u ṣṭiya*                      *zayd-un*              *dirham-a-n*  
             give/PAST/PASS/3sg          zayd-NOM          dirham-ACC-INDEF  
             ‘Zayd was given a dirham.’

or

- 19b        <sup>ʔ</sup>*u ṣṭiya*                      *dirham-u-n*              *zayd-an*  
             give/PAST/PASS/3sg          dirham-NOM-INDEF      zayd-ACC  
             ‘A dirham was given [to] Zayd.’

This time, both tests result in acceptable sentences and thus the two objects are direct objects. In Zamaḥṣarī’s view—and that of most other Arabic grammarians—both nouns in the passivised construction retain their function of object, since the relation with the act expressed by the verb does not change essentially. In regard to (19a) and (19b) Zamaḥṣarī mentions a preference for (19a):

“But the construction with the [element that] is the semantic agent is preferable, i.e. Zayd, for he is [the] recipient.” (<sup>ʔ</sup>*illā ʔanna l-ʔisnāda ʔilā mā huwa fī l-ma ʔnā fā ʔil ʔaḥsanu wa-huwa zaydun li-ʔannahu ʔāṭin*, *Mufaṣṣal* 117,1-3; cf. Owens 1988:181 for a discussion of the term <sup>ʔ</sup>*isnād*.)

Zamaḥṣarī has as similar preference for *kusiya ʔamr-un ḡubbat-an* ‘Amr was dressed [in] a kaftan’, in which *ʔamr* serves as the agent of the passive verb, rather than *kusiyat ḡubbat-un ʔamr-an* ‘a kaftan was dressed on ‘Amr’, because ‘Amr is “the one that is dressed” (*muktasin*). The reason for this preference is explained in terms of case roles, i.e. the nouns Zayd and *ʔAmr* are the ones that carry out the action of ‘receiving’ and ‘being dressed’—i.e. they are the agents—of the active verb that expressed the basic notion. Zamaḥṣarī uses these terms to express a preference for a construction, and not to judge its grammaticality.

In this section we have seen that the main point in the analysis of the Arab grammarians is that they base their analysis of all objects on formal-syntactic principles. In fact, in Arabic grammar all occurrences of

the accusative case are regarded as a result of governance by a verb or verb-like particles. The differences between the objects (direct object, locative, circumstantial expression), whose only common point is an ending in *a* are not explained semantically, but in terms of distribution. Regarding the two objects in (8), *zaydan* and *dirhaman* as equal elements, too, a morpho-syntactic approach is followed, rather than a semantic one, for it is solely based on the fact that both carry the accusative case ending.

In Section 3 below it shall be shown how the Arab grammarians dealt with this and other issues related to the marking of objects in Turkic.

## 2. OBJECTS AND TRANSITIVITY IN TURKIC

In this second section I give a brief survey of Turkic object constructions. All Turkic languages have a set of endings, traditionally called cases, of which only the nominative case is unmarked. We shall concentrate here on the accusative and the dative cases as far as they occur in object constructions.

### 2.1 *The accusative case*

The accusative case is in the sources generally marked with **ni** or **nī**:

20	<b>ʾağāš-ni</b> stick-ACC 'I took the stick' ( <i>Qawānīn</i> 31,6).	<b>ʾal-ḍu-m</b> take-PAST-1sg
----	--	----------------------------------

The accusative suffix is also put after pronominal possessive suffixes, e.g.,

21	<b>qul-um-nī</b> slave-POSS/1sg-ACC 'I beat my slave' ( <i>ʾIdrāk</i> 147,14f).	<b>ʾur-du-m</b> beat-PAST-1sg
----	---	----------------------------------

Likewise, **qul-umuz-nī ʾur-du-q** 'we beat our slave', **qul-uṅ-nī ʾur-du-ṅ** 'you [sg.] beat your slave', etc.

The accusative is generally omitted when the object is undetermined, which is expressed by the use of the numeral **bir** 'one', e.g.,

22	<b>bir</b> a / one 'I gave a coin' ( <i>ʾIdrāk</i> 147,10).	<b>ʾaqğā</b> coin	<b>bir-di-m</b> give-PAST-1sg
----	---	----------------------	----------------------------------

It may also be omitted when referring to a collective, e.g. **’aḷtun bir-** ‘to give gold’ (*’İdrāk* 132,11).

In one instance, namely when it occurs after the possessive ending of the third person singular, **nī** is reduced to **n:**<sup>15</sup>

23a	<b>’aš-i-n</b>	<b>ya-dī</b>
	food-POSS/3sg-ACC	eat-PAST/3sg
	‘he ate his food’ (MG 60 <sup>rt</sup> ).	

But this elision of the **i** apparently does not always take place, since we also find **nī**:

23b	<b>’aš-i-nī</b>	<b>ya-dī</b>
	food-POSS/3sg-ACC	eat-PAST/3sg
	‘he ate his food’ (MG 60 <sup>rt</sup> ).	

The elision of **i** seems to be arbitrary, that is to say, it follows no obvious rules. The occurrence of **nī** after a possessive may be a dialectal feature.

## 2.2 The dative case

Some verbs require the dative case, which is marked by the suffix **GA** ([**ğa/qa**] in ‘back’ words and [**ke/ge**], cf. Chapter Three—in ‘front’ words, depending on the rules of vowel harmony and consonant assimilation. The dative case is typically used with verbs that express a movement or a direction, e.g.,

24	<b>bay-kā</b>	<b>baq-ṭu-m</b>
	chief-DAT	look-PAST-1sg
	‘I looked at the chief’ ( <i>Qawānīn</i> 31,10).	
25	<b>’av-ḡā</b>	<b>čiq-ti-m</b>
	hunt-DAT	go out-PAST-1sg
	‘I went out hunting’ ( <i>’İdrāk</i> 145,14).	

Turkic verbs may be connected to two noun complements too. In this case the indirect object is always marked with the dative case:

<sup>15</sup> This assumption is confirmed by many examples in the Qipčaq text *Kitāb fi ’İlm an-Nuṣṣāb* (cf. Öztopçu [1990]), in which both accusatives occur, e.g., **bāšin** ‘his head’ (31a), **kirišin** ‘his bow’ (32b) vs **ālīni** ‘his hands’ (38a) (transcr. according to Öztopçu). There are also examples of this form of the accusative in *Dīwān* (366,5) **’ar at-i-n tur-ḡur-dī** ‘the man stopped his horse’.

26	<b>ʾaqğa-nī</b> coin-ACC 'I gave Saṅgar the coin' ( <i>ʾIdrāk</i> 142,7).	<b>bir-du-m</b> give-PAST-1sg	<b>saṅgar-ğā</b> Saṅgar-DAT
----	---	----------------------------------	--------------------------------

### 2.3 Verbal forms: Konverbs

One of the complements may be a verbal form:

27	<b>saṅgar-nī</b> Saṅgar-ACC 'I thought Saṅgar had left' ( <i>ʾIdrāk</i> 139,7).	<b>çiq-miš</b> go out-PAST	<b>ʾuranla-di-m</b> think-PAST-1sg
----	---	-------------------------------	---------------------------------------

The first part of (27) is a subordinate sentence, for which in English usually the conjunction 'that' is commonly used, e.g., 'I thought that Saṅgar had left'.

In (27), **saṅgar-nī**, however, is an object to **ʾuranladim**, and **çiqmiš** is a predicate to **saṅgar**. In *Qawānīn* the accusative ending on the direct object is omitted in this construction, e.g., **bay min-miš şāgin-di-m** 'I reckoned [that] the chief was riding' (*ḥasibtu l-ʾamīra rākiban*, *Qawānīn* 31,18). Instead of a past tense ending in **miš**, it is possible to use another tense, e.g., the 'aorist' in (A)r, which in the sources is used as the present tense,<sup>16</sup> e.g., **bay-nī bin-ar ʾuranla-di-m** 'I thought the chief [was/is] riding'.<sup>17</sup>

In the Turkic language(s) described in the sources, the suffix **miš** after the stem denotes the so-called inferential, which indicates that the speaker has not witnessed the action expressed by the verb.<sup>18</sup> (*ʾIdrāk* 106,21f; MG 45<sup>top</sup>; *Dīwān* 297,15), viz.,

28	<b>ʾaybak</b> ʾaybak 'Aybak—apparently—has stood up', 'is apparently standing.' (‘is surely standing’, <i>qāʾimun yaqīnan</i> , <i>ʾIdrāk</i> 107,1).	<b>ṭur-miš</b> stand-INFER
----	--	-------------------------------

<sup>16</sup> (A)r stands for ir, ır, ar, er, ur and ür. The vowel is omitted if the stem of the verb ends in a vowel. Further, (l)p— following—stands for ip, ıp, üp, up, the various forms of both suffixes may have, according to the vowel harmony. In the sources it is generally reflected as (i)b, or (u)b, because of the limitations of the Arabic script.

<sup>17</sup> A similar construction is possible in Turkish: "**ben seni öldü biliyordum** 'I was thinking you were dead' ('I was considering you <as> "he has died"') (Lewis 1984, 274). It is not clear whether or not other tenses of the verb may be used in the language(s) described in the sources.

<sup>18</sup> The feature described here is also typical of modern Oğuz languages such as Turkish (Lewis 1984: 122) and Turkmen (Hanser 1977: 82; 115). In modern Qipçaq (and other Turkic) languages this function is usually expressed by means of the verbal suffix **gan/gen**.

By extension, **miš** is also regarded as a general marker of the (active) participle in the past tense (<sup>ʔ</sup>*Idrāk* 106,12), viz.,

29	<b>kun</b>	<b>duḡ-miš</b>
	sun	be born-PAST
	‘The sun has risen.’	

In <sup>ʔ</sup>Abū Ḥayyān’s terms (29) means ‘the sun was rising in the past’ (*aš-šams ṭāli‘a fimā maḍā*). In *Ḥilya* (101,15), **miš** is basically regarded as the ‘active participle’ (*ism al-fā‘il*), with no reference to temporal value (also in *Dīwān* 298,3f).

In the language described in <sup>ʔ</sup>*Idrāk* and *Tuḥfa* the stem of the verb in (27) may also bear the ending of a so-called ‘Konverb’ or ‘gerund’ in (I)p, e.g., **bī-nī ḡīq-īb ṣā’ n-dī-m** ‘I reckoned the chief had gone out’ (*Tuḥfa* 77<sup>v</sup>6). ‘Konverb’ and ‘gerund’ are terms used in Western grammars of Turkic languages for infinite verbal forms whose agent and tense must be deduced from the syntactical or semantic context. The conjugated verb typically follows at the end of the sentence. The converb in (I)p usually signifies that the action of the verb in (I)p precedes the action expressed by the conjugated verb.<sup>19</sup> In the Margin Grammar (53<sup>v</sup>bm/lt; also 61<sup>v</sup>bm) this function of (I)p is described in terms of resemblance in function to the connective particle in Arabic *wa-* ‘and’, e.g.,

30	<b>kal-ib</b>	<b>bar-dī</b>
	come-KONV	go-PAST/3sg
	‘He came and went away’ ( <i>ḡā’a wa-rāḥa</i> , MG 53 <sup>v</sup> bm/lt).	

Alternatively, the verb in (I)p is occasionally interpreted as expressing a simultaneity, and is analysed as the equivalent of an Arabic *ḥāl*, which takes the accusative, viz.,

31	<b>yikir-ib</b>	<b>suwla-dī</b>
	to be angry-KONV	speak-PAST/3sg
	‘He spoke angrily’ ( <i>taḥaddaṭa ḡaḍbāna</i> , <i>Qawānīn</i> 38,1).	

In the language(s) of our sources the gerund in -(I)b is also used as a finite form. With this function, the verb in (I)p can also be used predicatively, especially when followed by the corroborative element -Dīr, e.g.,

<sup>19</sup> In modern Qipčaq languages such as Tatar (Poppe 1963: 76; 102) and Kazakh (SKJa 318) this is still a main function of the suffix.

32	<b>saᅇar</b>	<b>ᅇur-ub-ᅇur</b>
	saᅇar/NOM	stand-KONV-CORR
	‘Saᅇar is standing’ ( <i>saᅇaru qā’imun</i> , <i>’Idrāk</i> 122,4).	

The predicative use in (I)p(-D)Ir however, is perhaps limited to the third person singular. The fact that the form in (I)p(-D)Ir may be used predicatively is for the Arabic grammarians an important argument for equating it with the function of the active participle in Arabic: *qā’im* ‘standing’ (see discussion below). In this sense, its use is comparable to that of *miš*, which they also relate to the Arabic active participle. According to the Margin Grammar **-b-tur** is used by some speakers to express the past tense (‘*alāma al-māᅇi*, MG 38<sup>rt</sup>lt; 38<sup>top</sup>; *Qawānīn* 11,7-8).<sup>20</sup> (See for occurrences of these suffixes in other Turkic languages *Fundamenta I*; esp. Doerfer 1959:388 and Pritsak 1959:84 for Armeno-Qipčaq).

The verb in (I)p, with an optional suffix **-An** also serves to denote what is called in Arabic grammar the ‘circumstantial expression’ (*ᅇāl*, *’Idrāk* 137,9ff; also MG 54<sup>rt</sup>ult; 54<sup>bm</sup>lt; 54<sup>lt</sup>bm; *Qawānīn* 37, 14ff).<sup>21</sup> The circumstantial expression denotes the condition of the agent (or the object) during the action expressed by the verb, e.g.,

33	<b>’ar</b>	<b>kal-dī</b>	<b>kul-uban</b> <sup>22</sup>
	man/NOM	come-PAST/3sg	laugh-KONV
	‘The man came laughing’.		

#### 2.4 Denominal and causative verbs

After this summary of object constructions and dative cases, we shall now give an account of the ways to derive verbs and construct causatives in Turkic.

In Turkic verbs can be derived from some nouns by adding the suffix **lā**:

<b>kūt</b>	‘lock’	<b>kūt-lā</b>	‘to lock’
<b>ᅇāš</b>	‘stone’	<b>ᅇāš-lā</b>	‘to stone’
<b>baš</b>	‘head’	<b>baš-lā</b>	‘to start’

<sup>20</sup> The numerous instances in *’Idrāk* in which Turkic verbs in *miš* (e.g., 112,13, 117,19, 126,5ff; 131,18, 132,5, 137,20) or (I)b occur are translated into Arabic with an active participle (or vice versa), in some cases with indication of the past tense (cf. 122,4f; 129,5; 137,1ff).

<sup>21</sup> ‘The *nūn* expresses the intensification of the circumstantial expression, as if you repeat it.’ (*’Idrāk* 137,20).

<sup>22</sup> The ‘Konverb’ in (I)p-An is found in Crimean Tatar (Doerfer 1959: 386).

(cf. MG 38<sup>v</sup>top; also *Qawānīn* 38,3ff; *ʿIdrāk* 121,10; *Hilya* 125-6; *Dīwān* 15,16ff.).

In Turkic the notion of causative is conveyed by adding a suffix to the verbal stem. The form of this suffix depends on whether the stem ends in a vowel or a consonant, and vowel harmony and consonant assimilation (although these are not always expressed in our sources). Causativity is expressed by means of four types of suffixes, i.e. -DlR, -lR/Ar, -t, and -Glz/ zlR, of which DlR is probably the most frequent and productive, and therefore usually regarded as the basic form, viz.,

ʿul- ‘to die’—ʿul-dur- ‘to kill’

sawin- ‘to rejoice’—sawin-dur- ‘to make happy’.<sup>23</sup>

ʿiṣit- ‘to hear’—ʿiṣit-tur- ‘to make listen’ (*ʿIdrāk* 14; 116,19)

In some verbs causativity is expressed by means of the suffix -lR, viz.,

čiq- ‘to leave’—čiq-ar-dī ‘to make leave’ (*ʿIdrāk* 44)

ʿiğ- ‘to drink’—ʿiğ-ur-dī ‘to make drink’ (*ʿIdrāk* 110,3).

The suffix may have various other forms, of which Glz and zlR occur in our sources (for these and other causative suffixes in Turkic languages see further *Fundamenta* I):

ṭur- ‘to stand up’—ṭur-ğuz- ‘to raise’

kur- ‘to see’—kur-kuz- ‘to show’

ʿam- ‘suckle’—ʿam-zur- ‘to make suckle’.

When the stem ends in a vowel or r, -t must be used, e.g.,

yuru- ‘to walk’—yuri-t- ‘to make walk’<sup>24</sup>

### 2.5 Causative verbs in syntax

After a transitive verb has been equipped with a causative particle, it takes two objects, one of which is an indirect object. The direct object is marked with the accusative, the indirect object takes the dative case:

34        ʿul            ʿanī            bak-kā            qirğa-t-tī  
           he            he-ACC        chief-DAT        be angry-CAUS-PAST/3sg  
           ‘He<sub>1</sub> incited the chief to be angry with him<sub>2</sub>’ (*Dīwān* 433,7).

35        ʿul            maṅā<sup>25</sup>        sūz                kizla-t-tī  
           he            I/DAT        word                hide-CAUS-PAST/3sg  
           ‘He urged me to keep the words secret’ (*Dīwān* 437,12).

<sup>23</sup> Vowel harmony, e.g., (öldür), (sewindir) is not always, and mostly only partially reflected in Arabic script (cf. Chapter Three).

<sup>24</sup> For a comparative inventory of causative suffixes in *Dīwān*, *Hilya*, *ʿIdrāk*, *Tuhfa*, *Tarğumān*, *Bulğa*, and *Qawānīn*, see Čaykovskaya (1981:52ff).

<sup>25</sup> maṅā is spelled /manka/ in *Dīwān*.



When the verbal stem **bil-** ‘to know’ is equipped with the suffix **dir**, it means ‘to make know’ or ‘to inform’. This verb, too, takes two objects, one of which takes the dative case, e.g.,

36	<b>’ul</b>	<b>maṅā</b>	<b>’iṣ</b>	<b>bil-tur-dī</b>
	he	I/DAT	matter	know-CAUS-PAST/3sg
	‘He informed me of the matter’ ( <i>Dīwān</i> 354,17).			

The second object may be replaced with a verbal form, e.g.,

37	<b>bī-kā</b>	<b>bil-dir-du-m</b>	<b>’āṭ</b>	<b>’ayarla-n-ub-tur</b>
	chief-DAT	know-CAUS- PAST-1sg	horse	saddle-PASS- KONV-CORR
	‘I informed the chief the horse has been saddled’ ( <i>’Idrāk</i> 129,5).			

The word order of (37) is rather puzzling, for in Turkic languages the verb is usually found at the end of the sentence, such as in (36). The sentence in (37) very much resembles the word order of the Arabic equivalent (see discussion below) and it cannot be ruled out that the wording of this sentence has undergone an influence of Arabic. This is discussed in greater detail below in Section 3.3.3.

Another reason for the inverse word order may be the fact that the second part is direct speech.<sup>26</sup> In modern Turkic languages some form of *de-* ‘to say’ is usually placed between the direct speech part and the conjugated verb. This form of *de-* is *di-y-e* (*say-KONV*) in, for example, Turkish (cf. Lewis 1984: 175), and *de-p* (*say-KONV*) in Qazaq, a Qipčaq language, e.g., *Bastyq-qa at jertte-l-gen de-p ait-ty-m* ‘I told the chief [DAT] “the horse [NOM] has been saddled” [saddle-PASS-PAST]’. Another way to separate the conjugated verb, **bildirdum**, from the direct speech part is to change the word order. This inverse word order is also evident in yet another example in which direct speech is used without a separating element in a derivative form of *de-*, e.g., **saṅgar ’ayit-tī sunqur ṭur-miṣ** ‘Saṅgar said Sunqur is standing’ (*qāla saṅgaru sunquru qā’imun*, *’Idrāk* 154,14f). The second part of the Arabic equivalent, i.e. *sunquru qā’imun* ‘Sunqur is standing’ is also direct speech.

After this exposé of constructions in Turkic languages we shall see in the following section how they were interpreted by the Arabic grammarians.

<sup>26</sup> It is not clear to what extent sentences with indirect speech were possible in fourteenth-century Qipčaq. No example is found in our sources. It is possible to have constructions with two object complements: the indirect object marked with a dative case and the direct object generally consisting of a nominalised verbal form (or a subject participle) marked with an accusative case ending. For Turkish it would result in a sentence like \**At-ın eyerle-n-diği-ni bey-e söyledim* ‘I told the chief that the horse has been saddled’ (cf. similar forms in Old Anatolian; Gujzev 1990:124).

## 3. ARAB GRAMMARIANS ON TURKIC OBJECT CONSTRUCTIONS

The first part of this section deals with the analyses of Turkic sentences whose Arabic translations consist of a verb and an object, either with or without a *ḥarf ḡarr*. After that follows a discussion of constructions in which two or more objects are involved.

3.1 *The status of the Turkic marker of the accusative*

The five main sources (*Ḥilya*, *Tuḥfa*, *Qawānīn*, MG and *ʿIdrāk*) agree that the marker of the direct object is *nī* placed after the object:

38	<b>bitik-ni</b>	<b>yaz-ḍu-m</b>	
	book-ACC	write-PAST-1sg	
	'I wrote the letter' ( <i>katabtu l-kitāba</i> , <i>Qawānīn</i> 31,7).		

"The marker [of the direct object] is an *n* vocalised with an *i* [following] immediately after the direct object' ( *ʿalāmatuhu nūn maksūra ʿaqīb al-mafʿūl bihi*, *Qawānīn* 31,1). In *Ḥilya* *nī* is explicitly followed by *y*, resulting in /niy/: "You add to its [sc. the object] basic consonants an *n* vocalised with an *i*, and [you add] a *y*" (*tuzīd ʿalā ḥurūfihi l-ʿaṣṣiya nūnan maksūratan wa-yāʿan*, *Ḥilya* 88,12-6), e.g.,

39	<b>zayd-nī</b>	<b>qilīğ</b>	<b>bilā</b>	<b>ʿūr-du-m</b>
	zayd-ACC	sword	with	beat-PAST-1sg
	'I beat Zayd with the sword' ( <i>Ḥilya</i> 88,14).			

The status of the ending *nī* (or a part of it, as we shall see below in 3.1.1) is described in various terms:

1. *ʿalāma al-mafʿūliyya* 'marker of the objectivity' (*ʿIdrāk* 139,2).
2. *ʿalāma al-mafʿūl bihi* 'marker of the direct object' (*Ḥilya* 88,16;<sup>27</sup> MG 55<sup>lt/md</sup>).
3. *ʿalāma an-naṣb fi l-mafʿūl bihi* "marker of the accusative as far as the direct object is concerned" (MG 55<sup>r/top/rt</sup>).
4. *ʿalāma an-naṣb hādā fi l-mafʿūl bihi aṣ-ṣarīḥ* "marker of the accusative as far as the proper object is concerned" (*ʿIdrāk* 139,3).<sup>28</sup>
5. *ʿalāma al-mafʿūliyya wa-ʿalāma an-naṣb ʿaydan* 'both the marker of objectivity and the marker of the accusative' (*Qawānīn* 31,2); "this [holds] if [the verb] is transitive by itself" (*hādā ʿidā kāna l-fi ʿl*<sup>29</sup> *yata ʿaddā bi-nafsihi*, *Qawānīn* 31,8).

<sup>27</sup> In *Ḥilya* (88,6) the term 'marker of agency' (*ʿalāma al-fāʿiliyya*) occurs too.

<sup>28</sup> In *Tuḥfa* (77<sup>r</sup>10) the term *mafʿūl bihi aṣ-ṣarīḥ* 'proper object' is used.

<sup>29</sup> Em. for *al-mafʿūl*

Before going into further detail in regard to these definitions and descriptions, it is useful to recall the Arabic theory concerning the endings of declension (<sup>2</sup>i<sup>1</sup>rāb). In Chapter Four we saw that in Arabic grammar the ending *a* is basically regarded as a marker for the accusative (*naṣb*), which, in its turn, is a marker for a function, i.e. the object (*mafʿūl*). The term *naṣb* is used for the ending *a* in nouns and verbs; it is the formal general term to describe all instances in which the ending *a* occurs, i.e. governance by verbs and particles.

The term *mafʿūl*, on the other hand, refers to the function of the noun in the sentence, i.e. the object of a verb, including the optional objects. The term *al-mafʿūl bihi* is reserved for those instances in which the verb directly governs the object, e.g., *ḍarabtu zayd-an* 'I beat Zayd'. It is also used in instances of flexibility of the language (*ittisāʿ*) for verbs that govern a direct object in some instances but are normally used with a particle, e.g., *nazartu zayd-an* 'I looked [at] Zayd' instead of *nazartu ʾilā zayd-in* 'I looked at Zayd'. The expression *al-mafʿūl bihi aṣ-ṣarīḥ* 'the proper object' excludes all instances of governance of objects where a particle is involved. The functions (agent, object and element to which is annexed) have no visible marker in the surface structure; their respective markers are the abstract notions of the syntactic position. In other words, the ending *a* itself is not the marker of objectivity (*mafʿūliyya*). We have seen in Chapter Four that in Arabic grammar the ending *a* was (at least by Ibn as-Sarrāġ) identified with the syntactic function of the noun it occurs on, i.e. 'accusative' (*naṣb*). Only in this sense is it possible to understand *a* as a 'marker of objectivity' (*ʿalāma al-mafʿūliyya*).

In regard to the terms used for the Turkic suffix *nī*, 'marker of objectivity' (*ʿalāma al-mafʿūliyya*) in descriptions (1) and (4), or the like, is a general reference to the function of the noun in the sentence, the object in its most general sense. In most descriptions (2, 3, 4) it is further specified that *nī* is used for 'the direct object' (*al-mafʿūl bihi*) or 'the proper object' (*al-mafʿūl bihi aṣ-ṣarīḥ*, *ʾIdrāk*), thus excluding other types of objects. *Hilya* and MG apply the term 'marker of the direct object' (*ʿalāma al-mafʿūl bihi*).

In Arabic grammar the term *ʿalāma al-mafʿūl bihi* does not exist, simply because the direct object has no exclusive marker. In this sense, it can be considered an innovation, albeit based on a development in Arabic grammar itself. The specification with regard to the direct object as opposed to another type of object is necessary since, as we shall see, in Turkic the marker of the object may vary according to its function.

The terms *‘alāma an-naṣb* and *‘alāma al-maf‘ūliyya* (1, 3, 4, 5) are far less innovative; they combine the regular descriptions of accusative (*naṣb*) and direct object (*maf‘ūl bihi*) in the same way as they are found in works on Arabic grammar. In these sources the specification for the direct object, in the other sources expressed with the term *maf‘ūl bihi* which is lacking in *Qawānīn*’s first definition (5), is found in the additional statement. The use of the term ‘accusative’ (*naṣb*) for Turkic further refers to governance relations, i.e. governance of a verb on its object.

The use of the term *maf‘ūl* can be interpreted as a functional reference. The use of *naṣb*, however, is of far greater significance: it is a formal term and therefore a clear indication that *nī* is here perceived as a the marker of governance.

A term which is also used in this context without being a technical term is *dalīl al-maf‘ūliyya*, ‘indicator of objectivity’, (*‘Idrāk* 147,6;11; 142,6 ‘indicates’ [*tadullu*]). Here is no reference to the Arabic declensional system. (See 3.2.3 for an interpretation of the dative as marker of the object.)

### 3.1.1 Morphological analyses of *nī*

Before proceeding with the discussion of objects that are governed by a verb with implication of a particle, it may be interesting to pay attention to the various morphological analyses of *nī* in the Margin Grammar, *Hilya* and *‘Idrāk*.

#### 3.1.1.1 The Margin Grammar

According to the analysis in the Margin Grammar, for instance, the object marker is the *n* alone, whereas the *y* (i.e. *i*) is added to express an additional meaning. The evidence lies in object markers that occur after a possessive suffix of the third person singular. We have seen that in those cases the final vowel can be deleted, e.g.

40/23a	<i>‘aṣ-i-n</i>	<i>ya-dī</i>
	food-3sg-ACC	eat-PAST/3sg
	‘he ate his food.’	

In the Margin Grammar the Arabic equivalent of this sentence is

23a"	<i>‘akala</i>	<i>ṭa‘ām-a-hu</i>
	eat/PAST/3sg	food-ACC/DEF-POSS/3sg
	‘he ate his food’ (MG 55 <sup>b</sup> bm).	

But it is possible to have both the possessive suffix and *nī*:

41/23b	<sup>2</sup> aš-i-nī	ya-dī
	food-3sg-ACC	eat-PAST/3sg
	'he ate his food.'	

In the Margin Grammar this difference is compared to the insertion of the *ḥarf li* with transitive verbs in Arabic. Thus the Arabic equivalent of (41) is:

23b"	<sup>2</sup> akala	li	ṭa <sup>6</sup> ām-i-hi
	eat/PAST/3sg	to	food-GEN/DEF-POSS/3sg
	'he ate his food.'		

In Arabic grammar, as is pointed out above in 1.1.2, a transitive verb may be followed by an additional particle *li* (*lām zā'idā*), which serves as a strengthening element. This particle is not posited in the underlying structure. In the Margin Grammar, the function of *y* (ī) in the accusative ending *nī* is compared to that of *li* in Arabic:

"You add a *y* at the end of the word which takes the place of *li* of transitivity in Arabic". (*zidta yā'an fi 'āḥir al-kalima taqūmu maqām lām at-ta<sup>6</sup>diya fi l-<sup>6</sup>arabiya*, MG 60<sup>r</sup>t; also 55<sup>b</sup>m.)

The fact that the *y* may be omitted in this one occasion is taken as evidence for its being a mere additional element (*ḥarf zā'id*), whose function is to strengthen the government of the verb. This point of view is also applied in other instances in which the suffix *nī* occurs (although in these cases *ī /y/* cannot be omitted):

"If [*miz*] occurs on the syntactic position of an object, you add *nī* to it... and it only occurs with *li* of transitivity, you say <sup>2</sup>āt-imiz-nī min-dī which means 'he rode our horse'." (*fa-<sup>2</sup>in waqa<sup>6</sup>at mawqī<sup>6</sup>a maf<sup>6</sup>ūlin zidta fi 'āḥirihā lafza nī... wa-lā yakūnu 'illā fimā lām at-ta<sup>6</sup>diya, fa-taqūlu 'ātimiznī mindī 'ay rakiba li-farasinā*, MG 61<sup>t</sup>op; also 60<sup>r</sup>t.)

We summarise this statement as follows. The Turkic sentence in (42)

42	<sup>2</sup> āt-imiz-nī	min-dī
	horse-POSS/1pl-ACC	ride-PAST/3sg
	'He rode our horse,'	

has the following equivalent in Arabic:

43	rakiba	li	faras-i-nā
	ride/PAST/3sg	to	horse-GEN/DEF-POSS/1pl.

This implies that in the Margin Grammar all instances in which *nī* occurs are analysed as the object marker *n* on the one hand and a *ḥarf zā'id*, i.e. */y/*, on the other, which serves to strengthen the governance of the verb.

3.1.1.2 *Ḥilya*

Another interesting morphological analysis of *nī* is found in *Ḥilya*, based on the suffixing of *nī* after the possessive ending of the first person singular, e.g.,

44a	ʾāṭ-im-nī horse-POSS/1sg-ACC 'I will exhaust my horse' ( <i>'ut ʿibu farasī, Ḥilya</i> 132,14).	ʾar-dur-ġay be tired-CAUS-FUT	man I
-----	---	----------------------------------	----------

According to Ibn al-Muhannā's analysis, in ʾāṭ-im-nī, ʾāṭ is the noun used for a 'horse' (*ism al-faras*), *man* means 'I' (*bi-ma ʿnā ʾanā*), and the *y* is an addition for the object (*ziyāda li-l-mafʿūl*). This analysis is schematised in (44b):

44b	ʾāṭ-man-ī <i>faras-ʾanā-ziyāda li-l-mafʿūl</i> horse-I-addition for the object
-----	--

In other words, the combination of the possessive suffix (*i*)**m** and the accusative case ending *nī*, both considered morphemes in Western analysis and in most of our sources, is segmented in the pronoun *man* and the accusative ending *ī* /*iy*/. Moreover, the *y* /*iy*/ is regarded as the distinctive marker of the object, instead of *nī* (although elsewhere [*Ḥilya* 88,15-6] it is stated that the *n* and the *y* together form the marker of the direct object). A possible explanation for the analysis in (44b) may be the fact that Ibn al-Muhannā regards the *n* and the *y* as separate morphemes, and in this way accounts for the occurrence of both markers. On the other hand, this is the only instance in which he gives this description of the accusative.

Another point is that Ibn al-Muhannā's analysis involves considerable shifts and changes of vowels that are quite unlikely to have occurred in real usage. The regular form is (a), whereas (b) is inferred from Ibn al-Muhannā's description: (a) ʾatimnī → (b) \*ʾatmanī. His analysis involves the deletion of *i* before *m*, and the insertion of a vowel *a* between *m* and *n*. This focus on consonants is typical of Arabic linguistic thinking. Because of the imperfect vocalisation of the text, these differences in vocalisation are not shown in Rifʿat's edition of the text.

3.1.1.3 *ʾIdrāk*

The respective analyses in the Margin Grammar and *Ḥilya* are quite different from the one found in *ʾIdrāk*. ʾAbū Ḥayyān regards *nī* as a derivative form of the regular marker in *i*, with *n* as the basic marker of

the object (also *ʿIḍrāk* [147,6]), with a possibility to delete *i* or the *y* (*ī*). In this sense, *i* (or *ī*) is not regarded as a morpheme:

“I beat [like] Saṅḡar’s beating’. *ʿur-du-m saṅḡar uruṣ-i-n...* But as to the ending in a *n*, which is attached here after the *ī* of the annexation, its base form is *ʿur-uṣ-i-nī*. *nī* is the marker of the accusative and *ī* [indicates] the annexation for the pronoun of the third person... Then you elide the *y* and leave the *n* unvocalised. It is permitted to pronounce the base form, so you say *ʿuruṣ-i-nī*.” (*ḍarabtu ḍarba saṅḡara ʿurdum saṅḡar uruṣin... wa-hāḍā t-tanwin al-lāḥiqa hunā baʿd kasra al-ʿidāfa ʿaṣluhu ʿuruṣinī fa-nī ʿalāma an-naṣb wa-l-kasra li-l-ʿidāfa li-ḍamīr al-ḡayba ḡumma ḥadafta al-yāʿ wa-ʿabqayta n-nūn sākina wa-yaḡūzu n-nuṭq bi-l-ʿaṣl fa-taqūlu ʿuruṣinī*, *ʿIḍrāk* 135,3-5.)

This coincides with *ʿAbū Ḥayyān*’s statement that, as a rule, the weak consonants (*ʿalif, wāw, yāʿ*) arise from the lengthening of the vowels (*nawāṣiʿ* ʿan *ʿiṣbāʿ al-ḥarakāt*) and form no part of the root of the word (*ʿIḍrāk* 101,11-3). We have seen in Chapter Five 2.4.3 that this point of view also plays a role in his analysis of *ī*, the possessive ending of the third person.

### 3.1.2 Attachment of the accusative to the possessive ending

When the possessive ending is attached to the noun, the Turkic accusative suffix is added to the end of the compound, thus referring to the case of the combination, e.g. *ʿāṭ-imiz-nī* ‘our horse (ACC)’. This sequence of the morphemes differs from the one in Arabic, in which the case ending precedes the possessive suffix:

45	<i>ʿāt-imiz-nī</i>	[min-dī]
	horse-POSS/1pl-ACC	ride-PAST/3sg
	‘He rode our horse.’	
46	[rakiba]	<i>faras-a-nā</i>
	ride/PAST/3sg	horse-ACC/DEF-POSS/1pl
	‘He rode our horse.’	

In the Margin Grammar this leads to the following analysis:

“If [miz] occurs in the place of an object, you ad *nī* to it... *ʿāṭ-imiz-nī min-dī*<sup>30</sup> which means ‘he rode our horse’.” (*fa-ʿin waqaʿat mawqiʿ mafʿūlin zidta fi ʿāḥirihā lafza nī... fa-taqūlu ʿāṭimiznī mindī ʿay rakiba li-faras-inā*, MG 61<sup>top</sup>.)

According to this statement, *miz*, the possessive suffix of the first person plural, stands on the place of the object (*mafʿūl*). This analysis is

<sup>30</sup> This Turkic fragment in MG is imperfectly vocalised.

obviously based on Arabic grammatical theory in which each morpheme is followed by the appropriate case ending.<sup>31</sup> From this perspective, *faras* 'horse' is marked for the accusative (*naṣb*) with *a*, while it is followed by the pronoun *nā* 'our' (which stands in the position of the genitive [*ğarr*] because of the annexation). In Turkic the order of the morphemes is reversed and the marker of the object *nī* is attached to the pronominal ending *miz*, 'our'. This has led the author of the Margin Grammar to the assumption that in Turkic the pronoun *miz* stands on the place of the object and is accordingly marked, rather than 'horse'.

### 3.2 Transitivity by means of a *ħarf ğarr*

We have seen in the first section of this chapter that Arabic intransitive verbs (*ʿafāl lāzima*) may become transitive to an object by means of a particle of the genitive (*ħarf ğarr*). This holds, for example, for the verb *waqafa* 'he stood still' which may be used with the particle *li* 'for':<sup>32</sup>

47	<i>waqaf-tu</i>	<i>li</i>	<i>s-sultān-i</i>
	stand still/PAST - 1 sg	for	ART-sultan-GEN/DEF
	'I stood still for the sultan' ( <i>Qawānīn</i> 31,13).		

Note that this particle cannot be deleted from the surface structure. If the verb is transitive with *li*, in Turkic *ğā* is used, viz.,

48	<i>sultān-</i>	<i>ğa</i>	<i>tur-du-m</i>
	sultan	DAT	stand-PAST - 1 sg
	'I stood still for the sultan' ( <i>Qawānīn</i> 31,13)		

In Arabic some intransitive verbs are typically used with a particle (see also above 10a). The verb is regarded as transitive by means of this particle. An example of such a verb is:

49a	<i>naẓar-tu</i>	<i>ʿilā</i>	<i>l-ʿamīr-i</i>
	look/PAST - 1 sg	to	ART-chief-GEN/DEF
	'I looked at the chief.'		

In some instances the particle *ʿilā* may be deleted from the surface structure, after which the object is assigned the accusative case ending, because the verb governs it directly. This process is called *ittisāʿ* (or

<sup>31</sup> In those instances in which the case endings, i.e. governance relations, are not evident in the surface structure, they are posited in the underlying structure, e.g. the accusative ending *a* is not visible in *ʿatʿabtu faras-ī /faras-a-ī/* (horse-ACC-my) 'I exhausted my horse'.

<sup>32</sup> See for a full account of the meanings of *li Irṭiṣāf* II 433-4. In *Qawānīn* the expression *waqafa li* 'he stood still for' is considered an example of transitivity by means of a particle. It is discussed under the heading *al-mafʿūl bihi* 'the direct object' (31).



*tawassu* ʿ), ‘flexibility’, which is needed here, because an intransitive verb cannot normally govern a direct object, viz.,

49b     *nazar-tu*                             *l-ʿamīr-a*  
           look/PAST-1sg                     ART-chief-ACC/DEF

In our sources, too, this possibility of governance of a direct object by an intransitive verb is described:

“If it is [a verb] which is transitive by means of ‘to’, either overt or deleted, according to linguistic flexibility, then the marker [of the object] is the element *ġā* or *kā*...” (*fa-ʿin kāna mimmā yataʿaddā bi-ʿilā malfūzan bihā*<sup>33</sup> *ʿaw maḥdūfatan ʿalā t-tawassuʿ fa-ʿalamatuhu lafza ġā ʿaw kā...*, *Qawānīn* 31,8-10.)

This implies that also in those cases where in Arabic there is no *ḥarf* visible in surface structure, the Turkic uses *ġā/kā*, the equivalent of the particle *ʿilā* ‘to’, and that there is only one Turkic equivalent for both (49a) and (49b), i.e.

50        *bay*                                     *kā*                                     *baq-ṭu-m*  
           chief                                 DAT                                     look-PAST-1sg  
           ‘I looked at the chief.’

### 3.2.1 The status of *ġā/kā*

From the quotation above it is difficult to draw any conclusions regarding the status of *ġā/kā*; the use of the term *ʿalāma* points at an interpretation as a marker of the object, albeit not very explicitly.

In *Tuḥfa*, however, *ġā/kā* is regarded unequivocally as a particle, rather than as a marker of the object:

“If it is [a verb] which is transitive by means of ‘to’ (*ʿilā*) in the Arabic language, whether it is stated or deleted, according to linguistic flexibility, they use the particle when [*ʿilā*] is stated.” (*wa-ʿidā kāna fī l-ʿarabiyya mimmā yataʿaddā bi-ʿilā maṭṭūqan bi-hā ʿaw maḥdūfa ʿalā t-tawassuʿ ʿataw fī l-maṭṭūq bihā bi-ḥarf al-ġarr, Tuḥfa* 77<sup>8</sup>f.)

The term ‘marker of the improper object’ for *ġā* is not used in all instances in which the particle is elided in Arabic. Let us consider, for example, the case of a verb that is typically used with a particle, i.e. *fī* or *ʿilā*, *daḥala fī/ʿilā* ‘he entered [into]’. The verbal noun governs the object in the same way, viz.,

<sup>33</sup> In *ʿIdrāk* (139,10) *maṭṭūqan bihā* ‘uttered’ is used instead of *malfūzan bihā* ‘stated’.

51	<i>ʿāman-tu</i>	<i>li</i>	<i>duḥūl-i-n</i>	<i>ʿilā</i>	<i>l-ḡannat-i</i>
	believe/	for	entering-	to	ART-heaven-
	PAST - 1sg		GEN -INDEF		GEN/DEF
	'I believed in order to go to heaven.'				

The verbal noun can be placed in an annexation construction with the object when the original particle is deleted, viz.,

52	<i>ʿāman-tu</i>	<i>li</i>	<i>duḥūl-i</i>	<i>l-ḡannat-i</i>
	believe/	for	entering-	ART-heaven-
	PAST - 1sg		GEN/DEF	GEN/DEF
	'I believed in order to go to heaven' ( <i>ʿIdrāk</i> 142,6).			

Even though the noun *al-ḡanna* stands in an annexation construction with the verbal noun *duḥūl*, *al-ḡanna* is regarded as the object to *duḥūl* (cf. *Irtiṣāf* III 174; also Wright 1986 [1898] II 57; 61).

The verbal noun can exert governance on the object when it is made independent from it. This is possible by means of the article or the annexation of the verbal noun to the pronoun of the agent, viz.,

53	<i>ʿāman-tu</i>	<i>li</i>	<i>duḥūl-i</i>	<i>l-ḡannat-a</i>
	believe/PAST - 1sg	for	entering-POSS/1sg	ART-heaven-ACC

In (53) the verbal noun *duḥūl-i* governs *al-ḡanna* in the accusative, whereas in (52) it does not.<sup>34</sup>

In *ʿIdrāk* (54a) is given as the Turkic equivalent of (52), viz.,

54a	<i>kirtun-du-m</i>	<i>kir-mak-um</i>	<i>ʿuḡun</i>	<i>ʿuḡmaq-qā</i>
	believe-PAST - 1sg	enter-INF-POSS/1sg	for	heaven-DAT
	'I believed in order to go to heaven.'			

### 3.2.2 Two analyses of the verb and its object

In terms of Arabic linguistics there are two possible ways to analyse the relationship between *kirmakum* and *ʿuḡmaq-qā*. In the first place it is possible to consider *ʿuḡmaq-qā* the object of *kirmakum*, since it is defined by the annexation to the pronoun of the first person (**m**). Further, there are other instances where, according to *ʿAbū Ḥayyān*, *ḡā/qā* serves to indicate the object (cf., for example, 50). This first option is reflected in the word-by-word-analysis of (54a) which *ʿAbū Ḥayyān* gives, viz.,

<sup>34</sup> The particle can also be reinserted: *ʿāmantu li-duḥūl-i ʿilā al-ḡannat-i*, in which case the verbal noun governs through the particle.

54b	<b>kirtundum</b>	<b>kirmak-um</b>	<b>ʾuğun</b>	<b>ʾuğmaq-</b>	<b>qā</b>
	<i>ʾāmantu</i>	<i>duḥül-ī</i>	<i>lām</i>	<i>al-ğanna</i>	<i>tadullu</i>
			<i>al-ʿilla</i>		<i>ʿalā l-mafʿūl</i>
	I believed	entering-1sg	li of	ART-heaven-	indicates
			reason		the object

Here, **qā** is regarded as an element that indicates the object (*tadullu ʿalā l-mafʿūl*). Note that he does not use the term *ʿalāma* ‘marker’.

The second analysis is to regard **qā** as the Turkic equivalent of the particle *ʾilā*, which is an association made by ʾAbū Ḥayyān elsewhere (145,15; see also Chapter Four 3.3). In fact, the verb *daḥala*—and therefore also the verbal noun *duḥül*—is normally transitive by means of the particle *ʾilā*. The particle is deleted from the surface structure of the Arabic sentence (52), but it remains in the underlying structure. In this sense, the Turkic phrase would reflect the underlying structure of the Arabic sentence.

Both analyses are reflected in ʾAbū Ḥayyān’s interpretation of the status of **qā**, viz.,

“The **q** that is vocalised with a... indicates the object; **qā**—or **ğā**—are used to indicate the meaning of ‘to’ whose meaning is the goal.” (*wa-l-qāf al-maftūḥa... tadullu ʿalā l-mafʿūl wa-qā ʾaw ġā ʾinnamā takūnu fimā yuṣʿiru bi-maʿnā ʾilā maʿnāhā al-ğāya*, ʾIḍrāk 142,6.)

It seems that there is indeed some confusion as to which status should be assigned to **qā**. ʾAbū Ḥayyān uses rather vague descriptions as ‘indicates the object’ (*tadullu ʿalā al-mafʿūl*) and ‘indicates the meaning of’ (*yuṣʿiru bi-maʿnā*, lit. ‘makes feel’), rather than the term ‘marker’ (*ʿalāma*). From these rather vague descriptions one could conclude that ʾAbū Ḥayyān comes close to perceiving it as a marker for an improper object (see 3.2.3 for a similar analysis of a dative case as a marker).

A different analysis of GA is given for the object of **ʾuqṣadī**. In ʾIḍrāk it is translated with the Arabic verb *ʾaṣbaha* ‘he resembled’, a verb that governs its object directly in the accusative. In Turkic, though, the object of **ʾuqṣadī** is marked with **ğā**, the dative, viz.,<sup>35</sup>

55	<b>saṅğar</b>	<b>ʾarslān-ğā</b>	<b>ʾuqṣa-r</b>
	saṅğar/NOM	lion-DAT	resemble-PRES/3sg
	‘Saṅğar resembles a lion’ (ʾIḍrāk 128,3). <sup>36</sup>		

<sup>35</sup> In Western terms, **ʾuqṣa-** governs its object in the dative case (EDT 97).

<sup>36</sup> In ʾIḍrāk (55) is given as the translation of *ka-ʾanna saṅğara ʾasadun ʿas if Saṅğar [were] a lion’.*

In (55), “*ġā* has the meaning of *li* that conveys [the meaning] of objectivity” (*bi-ma‘nā l-lām allatī tu‘ī l-maf‘ūliyya*, *’Idrāk* 128,3). Here *li* must be interpreted as the so-called ‘strengthening particle’ whose most important characteristic is that it is redundant; the verb does not really need it in order to govern (see discussion above in 1.1.2).

### 3.2.3 The object of reason

In the preceding section we have seen that after deletion of the particle *li* when it denotes a cause or a reason, the verb directly governs the object, ‘the object of reason’ (*maf‘ūl lahu*) (cf. [3a]). For Turkic the sources give a similar construction:

56a	<b>kal-du-m</b>	<b>’āš</b>	<b>ya-ma-kā<sup>37</sup></b>
	come-PAST-1sg	food	eat-INF-DAT
	‘I came in order to eat the food’		
	<i>(ġi’tu li-’akl-i t-ta‘ām-i</i> , <i>Qawānīn</i> 33,16).		

In the analysis which is given of this sentence, **yamak** is the verbal noun (*mašdar*), and “the **a** in [the verbal noun] is the marker of objectivity” (*al-faḥa allatī fihi ‘alāma al-maf‘ūliyya*), viz,

56b	<b>kaldu-m</b>	<b>’āš</b>	<b>yamak-ā</b>
	<i>fi’l māḍī-fā‘il</i>	<i>ism li-t-ta‘ām</i>	<i>mašdar-‘alāma al-maf‘ūliyya</i>
	verb of-agent	noun ‘food’	verbal noun-marker of
	past tense		objectivity

Of great significance here is that **ā** is regarded as a marker, rather than the equivalent of a particle, which also would have been possible. After all, in Arabic the meaning of the *maf‘ūl lahu* is by definition paraphrased by means of a particle. Possible reasons for this analysis are in the first place that weak consonants, such as *’alif*, are only reluctantly interpreted as governing particles. Second, for Arab grammarians the link between **ā** and **kā/ġā** may not have been obvious (even though after possessive endings 3sg the dative is reduced to **ā** too). The same may have been true for the possibility that **yama** in itself may serve as a verbal noun and as such be governed by particles. This analysis of **ā** is very similar to that of the dative in Turkic translations of Arabic sentences from which the particle is elided. In that instance too, there seems to be a preference for analysing the Turkic object as being directly governed rather than conveniently positing the elided particle.

<sup>37</sup> In Western analysis this infinitive in *ma* is a so-called short infinitive, which can take the necessary case and possessive endings.

Furthermore, note that here not the term ‘marker of the accusative’ is used, but rather a ‘marker of objectivity’ (cf. 3.2.1-2; for further discussions of the object of reason with different examples *ʿIdrāk* 141-2; MG 56<sup>v</sup>rt; on the object marker see 3.1).

### 3.2.4 Structurally deleted particles

The opposite case—i.e. the deletion of a particle from the Arabic sentence, while the particle in question remains absent from the Turkic construction—is possible too. It concerns those Arabic verbs that have a *ḥarf* in the underlying structure that only occasionally appears in the surface structure, e.g., *ʾaḥaḍa* ‘he took’ (*Tuḥfa* 77<sup>v</sup>10), *raʾā* ‘he saw’ (*Tuḥfa* 77<sup>v</sup>9; *ʿIdrāk*, 139,11), and *rakiba* ‘he mounted’ (*Tuḥfa* 77<sup>v</sup>10).<sup>38</sup> We have seen above in 1.1 that the Arabic verb *ʾaḥaḍa* can be used with the *ḥarf bi* ‘with’ and, albeit with a more specific meaning, *raʾā* with *ʾilā*.<sup>39</sup> In this sense, we can reconstruct (57a) as the basic sentence of (57b):

57a	<i>raʾaytu</i>	<i>ʾilā</i>	<i>sanğar-a</i>
	see/PAST-1sg	to	sanğar-GEN
	‘I saw Sanğar (with amazement).’		

After deletion of the particle, the verb directly governs the direct object:

57b	<i>raʾaytu</i>	<i>sanğar-a</i>
	see/PAST-1sg	sanğar-ACC
	‘I saw Sanğar.’	

The Turkic equivalent of both sentences is:

58	<i>sanğar-nī</i>	<i>kur-du-m</i>
	sanğar-ACC	see-PAST-1sg
	‘I saw Sanğar’ ( <i>ʿIdrāk</i> 139,11).	

In both *ʿIdrāk* and *Tuḥfa* (58) is regarded as an example of deletion of the particle, and is therefore considered an exceptional instance of *nī* occurring in an ‘improper object.’ In the Turkic sentence, however, no particle is found. It appears that the attribution of Arabic governing capacities is given priority over a reinterpretation of Turkic material.

<sup>38</sup> Unfortunately, *Tuḥfa* only gives the Turkic translations of the Arabic verbs meant here. But since these translations are fairly consistent in comparison with those in the other sources, it seems safe to interpret *kürdüm* as a translation of *raʾaytu* ‘I saw’, *mindim* for *rakibtu* ‘I mounted’ and *ʾaldim* for *ʾaḥaḍtu* ‘I took’.

<sup>39</sup> The verb *rakiba* ‘he rode’ may be used with the particle *ʾalā* ‘on’, although some Arab grammarians consider this as a *zarf* rather than a *ḥarf* (*Irtiṣāf* II 451,10).

### 3.3 Transitivity by means of internal change, and bitransitive verbs

The other way to make an intransitive verb transitive is a morphological change, i.e. the addition of a morpheme to the verbal stem. We have pointed out above that this applies to both Arabic and Turkic.

Because the morphological process of adding an element to the stem in order to gain an additional meaning is familiar to the Arabic grammarians, the sources deal quite briefly with this issue. In the first place, it is possible to derive a verb from a noun by means of the suffix *lā*: *kīt* 'lock' → *kīt-lā* 'to lock' (see above 2.4).

#### 3.3.1 Opinions on the denominal suffix *lā*

In *Ḥilya*, Ibn al-Muḥannā explicitly describes the views of the Arabic grammarians with regard to the derivation of verbs from nouns:

"Know that, while according to the Kufans the Arabic verbal noun originates from the verb, and that the verb originates from the verbal noun, according to the most famous of the Basran grammarians, in the Turkic language some verbal nouns do not originate from the verb but from a noun or what resembles it." (*wa-ʿlam ʿannahu lammā kāna l-maṣḍar al-ʿarabī yanšaʿu ʿan al-fiʿl ʿalā raʿy al-kūfiyyīn wa-yanšaʿu al-fiʿl ʿanhu ʿalā raʿy aš-šahīr min nuḥāt al-baṣriyyīn fa-fi l-luġa t-turkiyya yanšaʿu baʿḍ al-maṣādir lā ʿan al-fiʿl bal ʿan ism wa-mā kāna sabīlahu*, *Ḥilya* 125,14-17; the same discussion is found in *Irtiṣāf* II 202,7ff; cf. also Bohas 1982:189ff)

In some other sources, the suffix is said to serve ʿiʿmāl or ʿamal, i.e. 'governance'. The governance meant here is obviously not syntactic governance but some other kind of influence:

"*lā* reflects governance... the governance in it is that it changes<sup>40</sup> its ʿalif [i.e. ā] in a y... which you vocalise with an i." (*tušʿir bi-l-ʿamal... fa-l-ʿamal fihi ʿan taqliba ʿalifuhu yāʿan... wa-taksiruhā*, *Qawānīn* 38,3ff; similar statement in *ʿIdrāk* 121,10.)

Indeed, unlike other stems ending in a vowel, the stem of denominal verbs changes in the 'present tense' and the 'converb' in (I)b: *suz* 'word' *suz-lā-y-ur* 'he talks' (*ʿIdrāk* 121,11)—*suz-la-y-ib* 'talking' (*Qawānīn* 38,5; *ʿIdrāk* 113,12). In *ʿIdrāk*, however, these forms are also explicitly said to occur without *y*, viz., *suz-lā-r* and *baš-lā-r*.

In the Margin Grammar *lā* is related to the patterns *tafʿīl* and ʿifʿāl that stand for references to the doubling of the second consonant of the root, and the addition of the *hamza* before the stem, respectively:

<sup>40</sup> Cf. Chapter Three 1.3.2 on *qalb*.

“Know that the l in all [these] positions is an expression for the particle of transitivity from the characteristic of [the pattern] <sup>ʔ</sup>if<sup>ʕ</sup>āl...” (*wa-ʕlam ʔanna l-lām fi ḡamīʕ al-mawāḏiʕ ʕibāra ʕan ḡarf at-taʕdiya min mīza al-ʔif<sup>ʕ</sup>āl...*, MG 38<sup>v</sup>top; cf. also *Dīwān* 597,4.)<sup>41</sup>

This supposed relation of *lā* with the Arabic patterns *taf<sup>ʕ</sup>īl* and <sup>ʔ</sup>if<sup>ʕ</sup>āl is interesting. The Margin Grammar gives the following examples: **qūltūq-la-dī** ‘he took (something) under his arm’ (<sup>ʔ</sup>*abbāṭa*), **qiliḡladī** ‘he hit with a sword’ (*sayyafa*), **ṭāš-la-dī** ‘he stoned’ (*ḡaḡḡara*). In Arabic most roots may serve as a basis for a verb. In this sense the verbs <sup>ʔ</sup>*abbāṭa*, *sayyafa* and *ḡaḡḡara* can theoretically be derived from the roots /ʔ-b-ṭ/, /s-y-f/ and /ḡ-ḡ-r/, respectively. In practice, however, the meanings associated with these verbs in the Margin Grammar seem at best very rare, and perhaps even non-existent. The verb *ḡaḡḡara*, for instance, means ‘he limited’ rather than ‘he stoned’, and the meaning of ‘he hit with a sword’ is better expressed with *sāfa* (although it must be noted that the verbal form with a doubled middle consonant is also used to express an intensified action).<sup>42</sup> The verb <sup>ʔ</sup>*abbāṭa*, too, does not exist in the given sense, the meaning ‘he took under his arm’, is expressed with *taʔabbāṭa*. It seems that these and some other verbal forms given in the Margin Grammar are denominative verbs rather than derivations from the root itself (cf. also Bohas 1982:171).

### 3.3.1.1 Excursus: Ibn al-Muhannā on denominal verbs

In *Ḥilya*, Ibn al-Muhannā continues his discussion of denominal verbs with the description of a suffix to derive verbs from nouns. This suffix, though, is not *lā* but, instead, an unvocalised l, viz.,

“The marker of this is a silent l after the basic consonants of the verb and before the marker of the verbal noun.” (*fa-ʕalāmatuhu lām sākina baʕd ḡurūf ʔašl al-fiʕl wa-qabla ʕalāma al-maṣḏar*, *Ḥilya* 125,16.)

The ‘marker of the verbal noun’ is, of course, the suffix **maq/mak**, which is attached to the stem.

However, most examples Ibn al-Muhannā gives can be traced back to a compound of a noun and the verb <sup>ʔ</sup>**al-maq** ‘to take’, e.g., <sup>ʔ</sup>**urīḡ-al-maq**<sup>43</sup> (*ar-rišwa*) ‘to take bribes’, **tusū-l-maq** ‘to benefit’, for **tusū**

<sup>41</sup> It is also associated with the passive and reflexive forms of the verb: **ṭāš-la-dī** ‘he stoned’ - **ṭāš-la-n-dī** ‘he was stoned’ (*taḡaḡḡara*); **kītlādī** ‘he locked’ - **kit-la-n-dī** ‘it was locked’ (<sup>ʔ</sup>*uḡliqa*).

<sup>42</sup> In *Lisān* and Lane. In *Dīwān* (573,3) a paraphrase is used instead for **ṭāš-lā-dī** *ḡaraba... bi-l-ḡiḡārati* ‘he hit... with the stone’ (cf. also *Dīwān* 586ff for many more Turkic verbs in -lā).

<sup>43</sup> Contrary to EDT 234 “**urī:nçlamak**”.

**al-maq** (*an-nafʿ*) lit. ‘to take benefit’, (cf. EDT:554), **ṣāt** [i]n **al-maq** (*aš-širāʿ*, *Hilya* 126,1ff) ‘to purchase’, lit. ‘to take as a buy’.<sup>44</sup> These are, once more, examples in which Ibn al-Muhannā comes to surprising conclusions due to his interpretations of the vocalisation of the text.

### 3.3.1.2 Particles of transitivity attached to verbal stems

The respective shapes of causative suffixes of Turkic are outlined in 2.4 and 2.5. The suffixes are divided into four groups, DIr, Ir/Ar, and -t after vowels, and one fourth group of less common suffixes, such as GIz, zIr and others. Most sources discuss the causative suffixes quite briefly (*ʿIdrāk* 110,3ff; *Qawānīn* 68,7ff). They are recognised as morphemes that in function resemble certain Arabic particles and therefore are called ‘particles of transitivity’ (*ḥurūf at-taʿdiya*, *ʿIdrāk*; *Qawānīn* 68,6), ‘*ʿafʿaltu* [1sg.] for transitivity’ (*ʿafʿaltu li-t-taʿaddī*, *Hilya* 130,13), ‘particles that indicate transitivity’ (*ḥurūf tadullu ʿalā t-taʿdiya*, MG 37<sup>1</sup>t). The first denomination is exactly the one applied to the Arabic equivalents.

The sources typically select one basic particle. In a number of instances this is **-dur**, e.g., **min-dur** ‘make mount!’. The choice for any of the other suffixes is made on different grounds; -t is usually associated with stems that end in a vowel, but the other forms cause analytical problems.

Most sources state that after vowels the suffix is **t**: “If... the last consonant of the verb is vocalised, then add a silent **t**” (*wa-ʿin kāna... ʿāḥir al-fiʿl mutaharrikan fa-zid ʿalayhi tāʿan sākina*, *Qawānīn* 69,9; similar statement in *ʿIdrāk* 113,17), e.g., **yuru-t** ‘make walk!’.

The suffix DIr is indeed regarded as the base form. From this it is possible to derive -Ar/-Ir, by means of deletion of -D, viz., **ʿiğ-** ‘to drink’—**ʿiğ-ur** ‘make [him] drink!’, **čiq-** ‘to leave’—**čiq-ar** ‘make leave!’,

“They make verbs transitive with the **r** alone, and delete the preceding consonant. This is heard in a limited number of words that have to be learned by heart [in their language], and [these words] should not be taken as a basic rule.” (*wa-qad ʿaddaw ʿafʿālan bi-r-rāʿ faqaṭ wa-ḥadafū l-ḥarf alladī qablahā sumīʿa dālika fi ʿalfāz maʿdūda tuḥfaz wa-lā yuqās ʿalayhā*, *Qawānīn* 69,1-3.)

In other words, **dur** is regarded as the basic form, from which in these verbs the **d** is deleted. In Arabic grammar, each consonant that is inserted into the basic root is considered a separate morpheme that adds

<sup>44</sup> Most of these words are imperfectly vocalised.



a meaning. In this concept it is not possible to have suffixes consisting of more than one consonant (less even to have suffixes of different shapes that convey the same meaning). A good example is the disagreement among Arab grammarians as to the status of /w/, /y/ and /ʾ/ in the regular plural and dual forms of the noun, the basis of which is that in Arabic theory each one of these cannot signify gender, number and case at the same time (cf. Chapter Four 1.2.3).

For Turkic, the possibility of deleting -**d** must mean that it is basically superfluous, and that the meaning of the suffix is carried by -**r** alone (but see following discussion), viz.,

“The **t**, the **ğ** and the **k** [of yet other suffixes] are not what causes the verbs to be transitive, but rather it is the **r** alone that does this.” (*fa-t-tāʾ wa-l-ğayn wa-l-kāf hunna lasna bi-muʿaddiyāt li-l-ʾafʿāl wa-ʾinnamā l-muʿaddiya ar-rāʾ faqat*, *Dīwān* 366,10.)

The fact that the two suffixes mentioned above are considered the usual ways to add ‘transitivity’ to the verb, as opposed to others is evident in the Margin Grammar (38<sup>7</sup>lt). There is a fourth type of causative suffixes, i.e. GIZ/zIr which cannot be that easily derived from the basic suffix. For this it is necessary to distinguish between ‘basic rule’ (*qiyāsī*) and ‘practical usage’ (*samāʿī*).

The forms in -**dur** and -**t** are said to be *qiyāsī* ‘analogous with the basic rule’ whereas other suffixes are said to be *samāʿī* ‘depending on practical usage’ (on *qiyās* in Arabic grammar see Versteegh 1980). Examples of these verbs are, e.g., **ṭur-ğuz** ‘raise!’, **kur-kuz** ‘show!’ and -**zur**, e.g., **ʾam-zur** ‘suckle!’. The same distinction between basic rules and practical usage is also made in *Qawānīn* and *ʾIdrāk*, viz.,

“A few words do not obey [the rules] we mentioned, their [forms] can be determined from what is heard.” (*qad ḥarağa [sic!] ʾammā dakarnā ʾalfāz qalīla ġiddan fa-sabīluhā s-samāʿī*, *Qawānīn* 69,12.)

According to ʾAbū Ḥayyān, who gives the same verbs,

“it is allowed to use **dur** with these verbs. The use of **dur** is the rule.” (*wa-yağūzu l-mağīʾ fi hādīhi l-ʾafʿāl bi-dur wa-huwa l-qiyās*, *ʾIdrāk* 110,10.)

He gives the following alternatives: **ṭur-dur**, **kur-dur**, **ṭam-dur** and **ʾam-dur**. In this way he escapes from giving rules for either deriving the exceptional forms from the basic ones, or devising certain rules that would explain why certain verbs take an irregular suffix. Although *Qawānīn*’s opinion differs, he does not give further explanations either, viz.,

“These forms are not heard otherwise, and other [forms] are not permitted [with these words].” (*wa-hādihi l-ʾalfāz lam tusmaʿ minhum ʾillā hākaḏā fa-lā yaǧūzu fihā ǧayruhā, Qawānīn* 69,16; cf. also *Ḥilya* 131,11; on causatives with -z cf. *Dīwān* 312.)

We now return to Kāšgārī, who in addition to DIr, discerns an additional form, i.e. GAR (394,2). As we learned from the quotation above, he considers -r sufficient for conveying causativity. Instead of arguing that in certain circumstances D- is deleted, as the other sources do, Kāšgārī says the opposite, namely that -r is basic, and that any other, secondary accompanying consonant is inserted, viz.,

“... the reason for the insertion of the t, ġ or k is for ease of pronunciation.” (...*wa-ʿilla duḥūl at-tāʾ wa-l-ǧayn wa-l-kāf li-suhūla taqaʿu fī l-lafz, Dīwān* 366,8ff.)

A reason Kāšgārī mentions for the insertion of t, ġ or k (before for r) is, for example, an unacceptable sequence of three rs. Such a sequence may result when a transitivity verb is conjugated for the ‘future tense’ (‘aorist’), e.g. \**sūwra-r-ur* ‘he will give water’:

“One of these rs would belong to the root, the second would be the r of transitivity, and the third would be the r of the future tense.” (*yakūnu ʾiḥḏā ar-rāʾāt ʾašliya wa-t-tāniya yakūnu rāʾ at-taʿdiya wa-t-tāliya takūnu rāʾ al-istiqbāl, Dīwān* 366,15f.)

Therefore, it is necessary to insert an additional consonant to this stem, viz., *sūw-ǧar-ur*.<sup>45</sup>

Statements in *Ḥilya* too point to a perception of d and r as distinct morphemes: “The d and the r are two markers of transitivity” (*wa-d-dāl wa-r-rāʾ ʿalāmatā t-taʿdiya, Ḥilya* 132,14) or “two additions for transitivity” (*zāʾidā t-taʿdiya, 132,11-2*), although Ibn al-Muhannā does not elaborate further on this.

### 3.3.1.3 An unusual analysis of causative sentences in *Dīwān*

In his syntactic analysis of sentences with transitivity verbs, Kāšgārī exposes a view that differs from the usual one found in the works on Arabic grammar. Instead of assuming two objects to the newly formed verb, he posits two agents.

The regular transitive verb expresses an

<sup>45</sup> For unclarified reasons the first r disappears. As an alternative one could regard this procedure as an instance of change of r into ġ. Such an argumentation, though, is far from being likely because of the difference in status between the two consonants: r is basic whereas ġ is secondary, as it is associated with the suffix.

“action which originates from one agent to an object” (*fi l yanša'u min fā'ul wāhid fa-yaqa'u 'alā maf'ul...*),

viz.,

59	'ar	bitik	biti-dī
	man/NOM	book	write-PAST/3sg
	'The man wrote a book' ( <i>kataba r-rağulu l-kitāba</i> ).		

When a transitivity particle is added, the result is the following,

60	'ul	'aņar	bitik	biti-t-ti
	he/NOM	he/DAT	book	write-CAUS-PAST/3sg
	'he <sub>1</sub> made him <sub>2</sub> write a book' ( <i>'aktabahu l-kitāba</i> ). <sup>46</sup>			

For these causative sentences Kāšğarī gives the following analysis:

“...the verb has become transitive to one object from two agents.”  
(*yata'addā l-fi l'ilā maf'ul min fā'ilayni, Dīwān 353,8; 13*)

One of the said agents is the one that orders (*'āmir*), in (60) 'ul 'he', and the other agent is the one that performs the action (*mubāšir*), 'aņar 'him' (*Dīwān 366,2; also 15,14 en 445,3ff.*). In this view, the only object in the sentence is *bitik* 'book'.<sup>47</sup>

<sup>46</sup> *Dīwān* is the only source in which sentences containing a causative verb and two objects are given.

<sup>47</sup> There are a number of differences regarding the terminology between Kāšğarī's *Dīwān* on the one hand, and the later sources on the other. The terms used in *Dīwān* are quite different from the ones used in regular treatises on Arabic grammar and in the other descriptions of Turkic. Some of these terms clearly stand outside the canonical (Basran) tradition (for a recent discussion of the Basran and the Kufan traditions, see Bernards 1993). The ones used here (sc. *'āmir* and *mubāšir*) are not the only examples. The same holds for the terms used for the vowels, i.e. *raf'* (280,2,7) for *u*, *ħafđ* (280,2) for *i*, and *naşb* (280,1) for *a*, which alternate with *đamm*, *kasr* and *fath*, respectively, even within a word. In the Basran tradition, starting with Sibawayh, *raf'*, *ğarr* and *naşb* are used for the declensional endings, whereas *đamm*, *kasr* and *fath* are non-declensional; the Kufan grammarian al-Farrā' (d. 207/822) does not make this distinction in the same way (cf. Owens 1990:159; also Versteegh 1993:18). Al-Farrā's system is as follows:

	declensional	non-declensional
u	<i>raf'</i>	<i>đamma/raf'</i>
a	<i>naşb</i>	<i>fath/naşb</i>
i	<i>ħafđ</i>	<i>kasra/ħafđ</i>

The use of these terms in *Dīwān* appears to stand very close to the practice in the Kufan tradition.

Further, the unusual term *ğābir* occurs quite often in *Dīwān* in the sense of 'future tense' (18,14; 280,6; 283,2,4,5; 284,6; 280,10ff) alternating with the regular term *istiqbāl*, or *muđāri'*. In the instances mentioned here (which is far from being a full inventory of all occurrences) it occurs in the following combinations: *'alāma ai-ğābir* 'marker of the future tense', *al-fi l'al-ğābir* 'the verb of the future tense' and *al-'af'al al-ğābira* 'the verbs of the future tense' (In one instance the diacritical dot on the *ğayn* is not legible because of the *fath*, and one could read 'ābir 'past tense' [18,14] instead, although this is un-

The addition of -t is referred to as “a proces of transitivity of intransitive verbs to two agents” (*taʿdiya al-ʿafʿāl al-lāzima ʿilā fāʿilayni*, 121,1; cf. also 365,12 and 444,15; also 426,11 and 17). In practice this is correct; after transitivity instead of one, two agents are involved, whereas the verb may still be intransitive, e.g. *bat-* ‘to sink’—*bat-ur-* ‘to cause to sink’.

In his analysis, Kāšgarī does not refer to the Arabic translation of the sentence, *ʿaktaba-hu l-kitāb-a*, in which both *-hu* ‘him’ and *al-kitāb-a* ‘book’ are marked as objects, and according to the canonical theory regarded as such. Kāšgarī, instead gives an analysis which from a semantic perspective is possible too, but is not in accordance with the way the elements are marked.

In summary, the grammarians regarded both **-dur** and **-t** after vowels as the basic ‘particles of transitivity’. Furthermore, the other ‘particles’ are either derivatives from **dur**, e.g. **r**, or exceptional forms, e.g. **guz** and **gur**. In this respect their consensus is that **r** alone suffices to express the meaning of transitivity.

In what follows other types of verbs are on issue, i.e. verbs transitive to two and three objects, respectively.

### 3.3.2 The first category of bitransitive verbs: ʿa ʿṭā

As we have seen above in 1.3, in Arabic grammar there are two categories of verbs with two objects. The first category includes verbs whose objects do not refer to the same noun, e.g., *ʿa ʿṭā* ‘he gave’ (cf. [8]), in which both objects take the accusative case. The second category involves verbs whose objects do refer to the same noun, e.g. *ḡanna*. With regard to the first category, according to Western analysis the indirect object in Turkic gets the dative case, and the direct object the accusative (cf. 2.2). As for Turkic sentences of the second category, one of the ‘objects’ may be a verbal form and as such never get a case ending.

As a starting point in the discussion we take the following remark in *Qawānīn*, viz.,

---

likely in the context.). Biesterfeldt (1990) notes that the term *ḡābir* is noted in Ibn Fāriḡūn’s *Ḡawāmiʿ al-ʿUlūm*, together with some other unusual linguistic terms. The term *ḡābir* also often occurs in *K. al-ʿAyn* (cf. Talmon 1997). It is too early yet to draw any conclusions, but this scanty evidence seems to indicate that *Dīwān* stands in the Kufan tradition, rather than in the Basran.

“Know that they never make the verb transitive by itself to two objects.”  
 (wa-<sup>ʿ</sup>lam <sup>ʿ</sup>annahum lā yu<sup>ʿ</sup>addūna l-fi<sup>ʿ</sup>la bi-nafsihi li-maf<sup>ʿ</sup>ūlayni <sup>ʿ</sup>abadan,  
 Qawānīn 31,15; cf. also MG 55<sup>1</sup>lt/md.)

In other words, according to the author of *Qawānīn*, Turkic verbs never govern two objects directly. We have seen above that the notions ‘directly transitive’ (*muta<sup>ʿ</sup>addin bi-nafsihi*) or ‘proper object’ (*maf<sup>ʿ</sup>ūl bihi šariḥ*) imply for Turkic that the object is marked with *nī*, whereas in Arabic, there is no exclusive marker for the direct object, since all objects are indistinctively marked with *a*. The author of *Qawānīn* probably comes to this statement because a Turkic verb can govern only one object in the accusative with *nī* at the time.

In *ʿIdrāk* the same phenomenon is recognised, albeit in less explicit terms:

“[The verbs] that are transitive to two objects in the language of the Arabs are, in this language, transitive to one of them with *nī* and to the other with *ḡā* or with *ḡā*.” (wa-<sup>ʿ</sup>ammā fimā yata<sup>ʿ</sup>addā fi l-lisān al-<sup>ʿ</sup>arabī <sup>ʿ</sup>ilā iṭnayni fa-<sup>ʿ</sup>innamā ta<sup>ʿ</sup>addā [sic] fi hādā l-lisāni bi-<sup>ʿ</sup>aḥadihimā bi-nī wa-li-l-<sup>ʿ</sup>aḥar bi-*ḡā* wa-*ḡā*..., *ʿIdrāk* 139,3ff.)

This is exemplified by

61	<sup>ʿ</sup> a <sup>ʿ</sup> taytu	sanḡar-a	ṭawb-a-n
	give/PAST-1sg	sanḡar-ACC	cloak-ACC-INDEF
	‘I gave Sanḡar a cloak.’		

which is translated into Turkic as

62	sanḡar-ḡā	ṭün-nī	bir-du-m
	sanḡar-DAT	cloak-ACC	give-PAST-1sg
	‘I gave Sanḡar the <sup>48</sup> cloak.’		

The criterion <sup>ʿ</sup>Abū Ḥayyān applies in the assignment of the respective markers is the sequence of the two objects:

“In [the case of] the first [word] which is the first object in the Arabic language, *ḡā* is attached to the base form, and *nī* [is attached] in [the case of] the second [word], which is a second object in the Arabic language, and the opposite is not permitted.” (*fa-talhaqu fi l-<sup>ʿ</sup>awwal alladī huwa maf<sup>ʿ</sup>ūl <sup>ʿ</sup>awwal fi l-<sup>ʿ</sup>arabī ḡā wa-fi t-ṭānī <sup>ʿ</sup>alladī huwa ṭānin fi l-lisān al-<sup>ʿ</sup>arabī nī alā l-<sup>ʿ</sup>asl<sup>49</sup> wa-lā yaḡūzu l-<sup>ʿ</sup>aks*, *ʿIdrāk* 139,6-7.)

<sup>48</sup> In our discussion of this sentence we disregard the fact that the object is indefinite in Arabic, whereas it is probably definite in the Turkic phrase.

<sup>49</sup> In this context <sup>ʿ</sup>asl cannot be understood as reference to the theoretical notion of ‘root’, which does not exist as such in Turkic, but something more like ‘stem’, or ‘base form’.

Abū Ḥayyān's description is limited, for it only refers to the syntactic sequence of two objects, rather than their respective functions, and no explicit terminology is applied to describe the function of *ġā*.

Elsewhere in *ʿIdrāk*, the status of *ġā* is more explicitly described in the context of the passivised bitransitive verb *ʿa ʿtā* 'he gave', viz., *ʿu ʿtiya sanġar-u dirham-an* 'Sanġar was given a *dirham*' (19a). Note that in Arabic *sanġar* is marked with the nominative case. For (19a) the following translation into Turkic is given:

63	<b>bir-il-dī</b> give-PASS-PAST/3sg 'A coin was given to Sanġar' ( <i>ʿIdrāk</i> 134,12f).	<b>sanġar-ġā</b> sanġar-DAT	<b>bir-aqġā</b> one-coin
----	--	--------------------------------	-----------------------------

For (63) the relation of the respective objects and the verb are analysed as follows:

"[The verb] is transitive to the first object with the particle of annexation, which is *ġā*, and the verb dominates the second object." (*fa-ta ʿaddā li-l-ʿawwal bi-ħarf al-ʿidāfa alladī huwa ġā, wa-tasallaḡa l-fi ʿalā l-mafʿul aṭ-ṭānī, ʿIdrāk* 134,13f.)

It follows that here *ġā* is explicitly assigned the status of a 'particle of annexation' (*ħarf al-ʿidāfa*). In view of the fact that *ʿa ʿtā* 'he gave' is directly transitive to both objects, the term *ħarf al-ʿidāfa* must be interpreted as a reference to the strengthening particle *li* which can only be posited with transitive verbs. Any other interpretation, such as positing it as a translation of the particle *ʿilā* 'to', would violate the Arabic principle of direct governance of the verb *ʿa ʿtā*.

This assumption is confirmed in *Qawānīn*, where *ġā* is described in a very similar way:

"If the second [object] of the two is not identical with the first one, you attach to the first the marker of transitivity by means of *li*, and [you attach] to the second one the marker of objectivity." (*wa-ʿin kāna ṭ-ṭānī minhumā ġayra l-ʿawwal ʿalħaḡta bi-l-ʿawwal ʿalāma t-ta ʿdiya bi-l-lām wa-[bi]-ṭ-ṭānī ʿalāma al-mafʿūliyya bihi, Qawānīn* 31,19; also very similar in MG 55<sup>1t/md</sup>.)<sup>50</sup>

From this quotation it follows that, according to *Qawānīn*, too, *ġā* indicates that the object is governed by means of the strengthening particle *li* that is posited in the underlying structure of all transitive verbs.<sup>51</sup>

<sup>50</sup> Although in MG (55<sup>top/rt</sup>) both *ġā/kā* and *nī* are called *ʿalāma an-naṣb fi l-mafʿul bihi* in a general sense, this term is not applied in a specific context.

<sup>51</sup> It may be of importance to note that this statement follows shortly after a brief discussion of sentences of the type *katabtu li-sunqura sunqur-ġā yaz-ḡu-m* 'I wrote to Sunqur', in which the particle is used in the surface structure.

In practice, the two terms, *‘alāma al-maf‘ūliyya bihi* and *‘alāma at-ta‘diya* in *Qawānīn* and the Margin Grammar, respectively, amount to the same. A verb that is transitive with the particle of transitivity is by definition transitive by itself, i.e., transitive to a direct object. The difference between the terms is that ‘marker of transitivity’ (*‘alāma at-ta‘diya*) refers to governance of the verb, rather than to the type of object, and indicates the way the verb is transitive to the object.

### 3.3.3 The second category of bitransitive verbs, *zanna* e.a.

We have now come to the second category of bitransitive verbs, i.e. the verb whose both objects refer to the same noun. We have already seen above in 1.3 that this category mainly contains verbs that belong to the subclass of the *‘af‘āl al-qulūb*, i.e. *zanna* ‘he thought’, *ḥasiba* ‘he reckoned’ and *‘alima* ‘he knew’. ‘Abū Ḥayyān dedicates a separate chapter in his *‘Idrāk* to the Turkic equivalents of these verbs, i.e. *‘uranla-dī*, *şağın-dī* and *bil-dī*, respectively (*‘Idrāk* 128-9), which he begins as follows:

“As for *‘uranladī*, its meaning is ‘he thought’ and in this language it is semantically connected to two objects as in Arabic, even though in reality the connected element is the relation [between the two objects].” (*‘amma ‘uranladī fa-ma‘nāhu zanna wa-tata‘allaqu bi-maf‘ūlayni fi hādā l-lisān ka-l-lisān al-‘arabī wa-‘in kāna fi l-ḥaqīqa ‘innamā muta‘alliqhā [sic] an-nisba*, *‘Idrāk* 128,12f.)

With the last part of this statement ‘Abū Ḥayyān means that the connection (*ta‘alluq*) between the two objects and the verb is the fact that the two nouns together form a nominal sentence consisting of a topic and a predicate.<sup>52</sup> In Arabic both objects are governed by the verb, which is made explicit with the accusative case, viz.,

64	<i>ḥasib-tu</i> reckon/PAST - 1 sg ‘I reckoned	<i>sanğar-a</i> sanğar-ACC	<i>ḥāriğ-a-n</i> leaving-ACC-INDEF
----	--	-------------------------------	---------------------------------------

In Turkic the objects to these verbs do not get the same marker:

“You suffix *nī* to the first object and you leave the second [object] without [any marker], suffixing neither *nī* nor *ğā* to it.” (*fa-tudḥilu nī ‘alā l-maf‘ūl*

<sup>52</sup> This passage is identical with the statement from *Manḥağ* discussed above in Section 1.3, and [13]). The fact that it is the very same phrase can be interpreted as an indication of the fact that ‘Abū Ḥayyān saw no basic difference between the two languages in terms of government and, hence, underlying structures.

*al-ʿawwal wa-tuhmilu t-tānī fa-lā tudḥilu ʿalayhi nī wa-lā ḡā, ʿIdrāk 139,7.)*<sup>53</sup>

This can be exemplified with (65a) and (65b):

- |     |  |                              |   |
|-----|--|------------------------------|---|
| 65a | <b>saṅḡar-nī</b><br>saṅḡar-ACC<br>'I reckoned Saṅḡar leaving' (ʿIdrāk 139,7).                                | <b>čiq-miš</b><br>leave-PAST | <b>ṣaḡan-du-m</b><br>reckon-PAST - 1 sg |
| 65b | <b>bī-nī</b><br>chief-ACC<br>'I reckoned the chief leaving' ( <i>ḡasibtu l-ʿamīra ṭāliʿan, Tuḡfa 77ʿ5</i> ). | <b>ḡīq-īb</b><br>leave-KONV  | <b>ṣāʿan-dī-m</b><br>reckon-PAST - 1 sg |

*Qawānīn* has a similar analysis:

"If the verb is transitive to two objects in Arabic, and the second one of the two is identical with the first one, it is permitted, not obligatory, to attach the marker of the direct object to the first, without attaching any marker to the second [object]." (*fa-ʿiḏā kāna l-fiʿl yataʿaddā li-mafʿūlayni fi l-ʿarabiyya wa-t-tānī minhumā huwa l-ʿawwalu fa-ʿinnaka tulḡiqu ʿalāma l-mafʿūl bihi li-l-ʿawwal minhumā ḡawāzan lā wuḡūban wa-tuhmilu t-tānī min al-ʿalāma, Qawānīn 31,15-8.*)

The point both sources make is that although the Turkic forms ending in **miš** and **īb** both serve as the equivalent of the Arabic participle (see discussion on suffixes in **mİŞ** and **(I)p** above), they do not get the marker of the direct object. Nevertheless, they are considered objects.

### 3.3.4 Objects without apparent marker

The apparent lack of any marker of declension in **īb** and **miš** (in 65a/b) is accounted for in various ways. One is to assign to them the status of marker of the object, or a similar status. This is possible because of its association with the *ḡāl*, the circumstantial expression. The *ḡāl* is one of the optional objects to the verb and, hence, receives the accusative case, viz.,

"Know that the **b** in **min-īb-an** ['riding'] is the marker of the circumstantial expression..., that is, the marker of the object." (*fa-ʿlam ʿanna l-bāʿ fi minīban ʿalāma al-ḡāl... ʿay ʿalāma al-mafʿūl, MG 54ʿlt/ult*; similar association in *ʿIdrāk 129,21 and 137,1ff.*)

In the early stages of the Arabic linguistic tradition, the Kufan grammarian al-Farrāʿ (d. 207/822) interpreted the accusative case of the second object as a circumstantial expression (*ḡāl*) (cf. *Irtiṣāf 56,4f*; cf. Owens 1990 for Farrāʿ' s theory on *ḡāl*). Although this does not reflect

<sup>53</sup> From this it is possible to conclude that both **nī** and **ḡā** are markers of the object; see discussion in the previous section.



the opinion of most later grammarians, it is a theory which is possible within the framework of the Arabic linguistic tradition. Moreover, it is not in contradiction with their interpretation of the Turkic data.

The second object of the sentence can also have the form of the 'present tense',

"[nī] is attached to the first object and you use the second [object] in the form of the imperfect tense." (*tulḥiqu fi l-maf'ūl al-'awwal wa-ta'tī bi-t-tānī bi-ṣiġa al-muḍāri'*, *ʿIdrāk* 128,13.)

An example of this is, e.g.,

66	<b>bay-nī</b> chief-ACC 'I thought [that] the chief [was] riding.'	<b>bin-ar</b> <sup>54</sup> ride-PRES	<b>ʿuranla-du-m</b> think-PAST-1sg
67a	<i>ḡanan-tu</i> think/PAST-1sg 'I thought the chief [was] riding.'	<i>l-ʿamīr-a</i> ART-chief-ACC/DEF	<i>rākib-a-n</i> riding-ACC-INDEF

With the first object (*al-maf'ūl al-'awwal*) ʿAbū Ḥayyān obviously refers to **bay-nī** 'chief' and with the second (*aṭ-tānī*) he means the verbal form, in this case **bin-ar** 'he rides'. The fact that the second object has the form of the *muḍāri'* 'imperfect tense' is no problem, since in Arabic, too, *rākiban* 'riding', the second object, can be replaced with the *muḍāri'* form of the same verb, without consequences for the meaning of the sentence, e.g.,

67b	<i>ḡanan-tu</i> think/PAST-1sg 'I thought the chief [was] riding.'	<i>l-ʿamīr-a</i> ART-chief-ACC/DEF	<i>ya-rkab-u</i> 3sg-ride/IMPF-IND
-----	--	---------------------------------------	---------------------------------------

The fact that the second object does not bear the accusative marker is of minor importance: it takes the form of the imperfect tense<sup>55</sup> which discharges it from taking case endings. On the underlying level, however, the verbal form **bin-ar** takes the syntactic place of the object, just like *yarkabu* in (67b).

It is also interesting that both sources describe the two objects in term of 'first' and 'second'. Indeed, in Arabic theory the only way to distinguish syntactically between the two objects, sc. *ḡaydan* and *ḡāriġan*, is their sequence. The reason for this is that, syntactically speaking, the objects are equal in status, both being governed by the same verb. The remarks ʿAbū Ḥayyān makes with regard to the link

<sup>54</sup> In some Turkic languages verbs with **m-** have **b-** instead.

<sup>55</sup> Both *ʿIdrāk* and *Qawānīn* give more examples of this class of verbs but with different verbal forms, e.g. **min-miṣ** 'had ridden', **min-ib** 'rode'.

(*muta'alliq*) between them refer to the connection between the former topic and predicate and not to the way the verb governs the objects.

### 3.3.5 Tritransitive verbs

We have seen in 1.2 that, according to the Arabic grammarians, some verbs can take three direct objects. In Arabic, all objects are marked with the accusative case (cf. above [7]), e.g.,

68	'a-' <i>lam-tu</i>	<i>al-'amīr-a</i>	<i>al-faras-a</i>	<i>mulğam-a-n</i>
	CAUS-know/ PAST-1sg	ART-chief- ACC/DEF	ART-horse- ACC/DEF	bridled- ACC-INDEF
	'I informed the chief [that] the horse [has been] bridled'			
	('Idrāk 129,21).			

The grammarians assumed a similar relation between the verb and its three complements in the Turkic equivalents of the Arabic originals. Their discussions concern Turkic sentences of the type already mentioned above in (37), which is repeated below for the sake of convenience:

37	<b>bī-kā</b>	<b>bil-dir-du-m</b>	<b>'āṭ</b>	<b>'ayarla-n-ubtur</b>
	chief-DAT	know-CAUS-PAST-1sg	horse	saddle-PASS-PAST
	'I informed the chief "the horse has been saddled"' ('Idrāk 129,21)			

In Turkic, however, only **bī** 'chief' gets a case ending: in our terms a dative case. Although they are not marked as objects, 'Abū Ḥayyān considers all Turkic equivalents of the Arabic objects as objects:

"To the first object, [sc. **bī**] which was the agent before transitivity [i.e. before the verb was made transitive by addition of the suffix], is added the marker for the improper object... As for the second object [sc. **'āṭ**], it remains without a marker of either the proper or the improper object. For the third object [sc. **'ayarkanubtur**] you use the form of the circumstantial expression..." (*tudḥilu 'alā l-maf'ūl al-'awwal allaḍi kāna fā'ilan qabla n-naql 'alāma al-maf'ūli ġayri ṣ-ṣariḥ... wa-tuhmilu t-tāni min 'alāma al-maf'ūl aṣ-ṣariḥ wa-min 'alāma ġayr aṣ-ṣariḥ wa-ta'ti bi-t-tāli<sup>56</sup> bi-ṣiġa al-ḥāl...*, 'Idrāk 129,5-8).

In short, according to 'Abū Ḥayyān, the sentence has three objects, **bī** 'chief', **'āṭ** 'horse' and **'ayarkanubtur** 'saddled'. The only object to get a marker is **bī**, which takes **kā**, which, in its turn, is defined as the marker of the improper object. The ending in (**I**)**ubtur** is regarded as expressing the *ḥāl*, the circumstantial expression, in Arabic. The *ḥāl* is

<sup>56</sup> Em. for *aṭ-tāni* 'second'.

governed by the verb too and is therefore assigned the accusative case, albeit not as a direct object complement but as an optional object (see discussion above in Section 1). The term 'form of the circumstantial expression' (*şîğa al-hāl*) probably suffices to associate it with an accusative case.

In western terms, however, the second part of the Turkic sentence does not show a dependency relation; it is direct speech. More precisely, *'ayarlanubtur* stands in a predicative relation to *'aṭ*, and therefore neither of them is marked with the accusative case. In Arabic too, *mulğaman* is a predicate to *al-farasa*, but both of them are objects to the verbal form *'a lamtu*.

In *Tuḥfa* another version of this same sentence (cf. [37]) is given, e.g.,

69	<b>bī-nī</b>	<b>bil-dir-dī-m</b>	<b>'aṭ-nī</b>	<b>'iyārlā-n-ibtir</b>
	chief-ACC	know-CAUS	horse-ACC	saddle-PASS-PAST
		PAST-1sg		

'I informed the chief the horse has been saddled' (*Tuḥfa* 70<sup>r</sup>10).

In this case, both *bī* and *'aṭ* are assigned the accusative case, which in Turkic is typically used for direct objects. In our terms this can be analysed in terms of the respective functions. In sentences of this type one expects one object to be marked with the dative case for the function of indirect object (cf. [37]). In (69), however, these functions are not distinguished. For example, *bī*'s function of indirect object is not evident here, and it is difficult to picture how it should be understood as a direct object of the verb *bıldır-*. The other accusative case, *'aṭ-nī*, is suspect, too. In this part of the sentence that is direct speech there is only one instance in which the noun *'aṭ* could get an accusative case, namely when it would depend on an active verb, such as *'iyārlā-* 'to saddle', which is not the case here.

In brief, it appears that the surface structure of the Arabic sentence (68) *'a lam-tu al-'amīr-a al-faras-a mulğam-an*, with three objects marked with an accusative case, shines through the Turkic sentence in (69). The differences between the examples given in *'Abū Ḥayyān's 'Idrāk* and the one in *Tuḥfa* can be shown in a more schematic way. Since the Arabic verb *'a lamtu*, 'I informed', may govern three direct objects in Arabic, these same capacities are assigned to its Turkic equivalent, *bıldirdum*, e.g.,

<i>'a lamtu</i>	<i>al-'amīr-a</i>	<i>al-faras-a</i>	<i>musarrağ-an</i>	surface structure
verb	obj. 1 <i>naşb</i>	obj. 2 <i>naşb</i>	obj. 3 <i>naşb</i>	underlying structure
verb	obj. 1 <i>-kā</i>	obj. 2 $\emptyset$	obj. 3 <i>hāl</i>	Turkic sentence <i>'Idrāk</i>
verb	obj. 1 <i>-nī</i>	obj. 2 <i>-nī</i>	obj. 3 (?)	Turkic sentence <i>Tuḥfa</i>

ʾAbū Ḥayyān applies the underlying structure of Arabic to the Turkic sentence, without trying to impose markers from the Arabic surface structure on it: he accepts that on the surface level Turkic has a different realisation than on the underlying level. *Tuḥfa*'s author, on the other hand, sticks to the surface structure of the Arabic sentence, thus creating a Turkic translation that is probably ungrammatical.

In *Dīwān* the only instances in which the verb **biltur-** occurs with two objects, one of them is marked with the dative case too, e.g., ʾul **maḡā** (DAT) ʾiṣ **bilturdī** 'He informed me-DAT of the matter' (ʿ*arrafa-nī al-ʾamr-a*, *Dīwān*, 354,17; also 368,5: **bilduz-**).<sup>57</sup>

#### 4. CONCLUSIONS

In this concluding section I present some general observations on the analysis of the Arab grammarians on governance in terms of semantic and syntactic case. Furthermore, I give a summary of the discussion on some terminological innovations made in order to describe the unfamiliar Turkic constructions.

##### 4.1 Analyses of different types of objects

Theoretically speaking, the grammarians could have limited the assignment of the function of object to those nouns that actually bear the same object marker, as in Arabic. Instead, to some extent they seem to accept different types of object markers for Turkic.

A possible interpretation may be that they were used to assigning the function of object (*mafʿūl*) to nouns, even if they do not show the marker of the accusative (*naṣb*). In Chapter Four it is shown that this occurs in Arabic, for instance, when the word ends in a glide, or when the case endings are omitted in pausal forms. In those cases the governance relations between the verb and its object(s) can be made explicit in the underlying structure of the phrase. The underlying structure of the Arabic sentence thus could serve for both Turkic and Arabic.

A similar analysis would, indeed, do for instances where there is no marker at all (such as in ʾaṭ in 37), but it does not cover the manifold realisations of the object marker. The fact that the terminology used to describe *nī* to a large extent resembles the terms applied to the Arabic

<sup>57</sup> According to EDT (334) the verb **'biltür-** is typically used with two objects: "to make (something *Acc.*) known (to someone *Dat.*).'" In EDT the sentence in *Tuḥfa* (69) is emended without further reference as "biye [sic] bildirdim atnı eyerleniptir".

marker of the object is, according to our hypothesis, no coincidence, because it is, in fact a syntactic case (cf. 3.1).

In Chapter Four it was shown that the Arabic genitive case does not have a corresponding Turkic case that behaves in a similar way; in terms of our hypothesis the explanation is that the Turkic oblique cases cannot be explained as syntactic case. As we have seen in the present chapter, things are different for the accusative. In some instances, notably the endings *nī*, and those of the *ḥāl* (here *-īb*), these are particular markers, whose use, although unusual, is restricted to one type of object complement. In this way, they can nonetheless still be related to governance of a verb.

The main problem constitutes *ḡā*, whose function as a governing element (as demonstrated in Chapter Five 2.3) is incompatible with that of mere marker it is supposed to have here. In Arabic linguistic argumentation semantic considerations as a rule are not allowed; therefore *ḡā* cannot simply be considered 'marker of the indirect object' (although 'Abū Ḥayyān appears to come close to such an interpretation).

Instead, the problem is partially successfully approached with the help of an (existing) subdivision of the object into 'pure' and 'non-pure' objects in which the criterion is the use of a particle. In this way they attempt to solve it—as usual—by means of positing certain elements in the underlying structure.

#### 4.2 Innovations in terminology

In this chapter we have seen that the Arabic grammarians applied their morphological principles to Turkic objects and verbs. With regard to verbs, they posited a number of morphemes that—in their view—add transitivity. These analyses lead to some interesting innovations in terminology.

As to objects, they found that the two types of 'direct objects' they recognised in Arabic grammar are marked differently in Turkic. The morphemes that serve as object markers are called 'marker of the accusative' (*'alāma an-naṣb*) in some sources (MG, *'Idrāk Qawānīn*). This is a term used in Arabic linguistics for the 'case ending' *a*. Another term, 'marker of objectivity' (*'alāma al-maf'ūliyya*), was originally applied to express the function of words that occupy the syntactic position of the 'accusative' (*naṣb*), but was then associated with all nouns with the 'case' ending *a*. The Turkic ending *nī* is especially associated with the 'accusative' (*naṣb*), although the sources indicate that *nī* typi-

cally occurs in those instances in which the verb directly governs the object, i.e., without the implication of a particle. The use of the terms ‘marker of the direct object’ (*‘alāma al-maf‘ūl bihi*) or ‘marker of the proper object’ (*‘alāma al-maf‘ūl (bihi) aṣ-ṣarīḥ*) in this respect are innovations, since in Arabic the direct object has no exclusive marker.

For the same reason the term ‘marker of the improper object’ (*‘alāma al-maf‘ūl ḡayri ṣ-ṣarīḥ*) can be considered innovative. It is applied to the morpheme *ḡā/kā*, and associated with objects that are governed by means of a particle, whether this is implied or deleted.

Inasfar Arabic theory does not permit an analysis as an underlying particle this analysis therefore seems to come close to the Western notion of ‘marker of indirect object’. This is even the case for *-ā* in the object of reason (cf. 3.2.3).

It has become clear that the Arabic grammarians assigned the functions and governing capacities of Arabic verbs to their Turkic equivalents. Verbs like *ḍaraba* / *‘urdī* ‘he beat’ are transitive to one object, *‘a‘ā* / *birdī* ‘he gave’, *ḡanna* / *ṣaḡandī* ‘he thought’ to two objects, and *‘a‘lama* / *bildirdī* ‘he informed’ to three. In other words, the governing capacities of Arabic verbs are transferred to their Turkic equivalents.

The morphemes to add transitivity—in our terms ‘causativity’—to a verb, are called ‘particles of transitivity’ (*ḥurūf at-ta‘diya*), analogous to the Arabic particles and consonants that are used to indicate transitivity. In both languages this process can be described in terms of the addition of a morpheme to the verbal stem. Even though construction of denominal verbs is basically impossible in Arabic linguistic theory, for this process the same terminology is used. In this sense, then, the suffix *-lā* ‘adds transitivity’ or ‘governance’ to a noun (cf. 2.3 and 3.3.1).

The tendency to a morphological analysis leads the author of the Margin Grammar to separate *nī* into two morphemes, *n* as a marker of the object and *y* (*ī*) as an optional strengthening element, equivalent to the Arabic particle *li*. This analysis is based on the fact that *nī* changes into *n* after possessive suffixes of the third person.

## CHAPTER SEVEN

## CONCLUSIONS

### INTRODUCTION

In this study I have dealt with various of issues relating to Arabic grammatical analysis of Turkic. After a general outline in Chapter One, the sources were classified according to external and internal evidence in Chapter Two. It was established that there is not only internal evidence that links *ʿIdrāk* to *Tuḥfa*, the connection between them is also evident from the way both works are organised, which is quite similar to that of ʿAbū Ḥayyān’s *Irtiṣāf*. In this structure, the first division is into the domains of lexicology, morphology, and syntax. All other grammars show a different division which is primarily organised according to the three elements of speech, nouns, verbs and particles. This division is the canonical organisation of Arabic grammar.

In Chapter Three it is shown that the Arab grammarians systematically followed the principles of Arabic phonology and phonetics in assigning labels for velarisation and palatalisation to Turkic words. It was pointed out that these labels were assigned for morphological reasons, rather than phonetic ones. The main criterion for the assignment of the labels is to determine which form of the suffix has to be attached to the word in question. An indication for this is the only partial coverage of the distinction between front and back suffixes, since suffixes that do not contain any of the distinctive consonants are not indicated as either front or back. Turkic consonants and vowels that do not occur in Arabic are described with terms used for Arabic allophones.

In Chapters Four, Five and Six, the most important conclusions are that Arabic case is predominantly syntactic whereas most Turkic cases are semantic. Furthermore, the Arab grammarians regarded the semantic Turkic case endings basically as particles, although in some cases the function of some endings (especially *ḵā/ġā*) merges with that of a marker. The hypothesis I propose is that the Arabic concept of case is based on this typological feature. In this chapter more observations are advanced on the use and the development of a descriptive model based

on syntactic case, followed by some comments on the attribution and development of linguistic concepts.

## 1. TURKIC AND ARABIC

The description of the application of the Arabic model on Turkic, forces one to think about the differences and agreements that may exist between the two languages. Here, various aspects come to one's mind, such as for example, definiteness, verbal forms (i.e. the manifold non-finite verbal forms of Turkic), word order, etc..

### 1.1 *Case and segmentability*

In Chapter Four 4.1.2, I briefly discussed the fact that segmentability is an important element in Arabic theory, although it is of course not exclusively linked with syntactic case. Nevertheless, in order to develop a theory based on declension, the ability to distinguish a word from its ending is a prerequisite. At an early point in the development of Arabic linguistic thinking this important step must have been made.

The grammarians based their theory on nouns both singular and with the so-called broken plurals and imperfect verbs, which take the three different endings, which they subsequently correlated with various types of governance. In later morphological analyses they attempted to account for instances of verbal and nominal endings that do not match the tripartite pattern. Most of these exceptions were associated with roots whose final consonant is a glide, for which the grammarians conceived a set of morphological rules with which they could explain the apparent lack of a declensional ending in the surface structure. Thus, with the help of the concept of 'underlying structure', the grammarians are nearly always able to reduce the numerous apparent deviations from the rule to instances of a mere morphologically conditioned feature.

In no instance the fourfold concept of declensional endings was given up, not even for the so-called regular forms of the plural and dual, which in fact, are highly irregular. The regular plurals have only two forms, i.e. the masculine nominal endings *-ūna* NOM/*-īna* GEN/ACC, and the feminine *-ātun* NOM/*-ātin* GEN/ACC, and the dual, viz. *-āni*/*-ayni* GEN/ACC. The opinions of the grammarians differed on how these and similar endings should be analysed in further detail (although they did agree on how to segment them). In particular, they were occupied with the status of /w/ and /y/ in /uwna/ and /iyna/, and



/ʾ/ and /y/ in /aʾni/ and /ayni/, respectively (see Chapter Four 1.1.1). The starting point in these discussions is the principle that each element represents only one meaning, according to which, for instance, /w/ and /y/ cannot not express simultaneously number, case and gender.<sup>1</sup>

These analyses are based upon and analogous to those of singular nouns and broken plurals which are more easily to segment into word and declensional ending.

## 1.2 *Syntactic case and ʾiʿrāb*

An appropriate point of departure for our study is the very base of Arabic grammatical theory, i.e. ʾiʿrāb. It seems reasonable to presuppose that the Arab grammarians applied it to Turkic in exactly the same way as they used it for Arabic. This immediately conjures up the question ‘what exactly is ʾiʿrāb?’. The answer to this question not only has to be in accordance with definitions that do right to Arabic case and verbal endings itself, it is also to cover Arabic interpretations of Turkic case (and, perhaps verbal endings). Thus, there are three main points of attention. In the first place a precise definition of ʾiʿrāb in Arabic theory. Second, a study of the typological features of Arabic declension which are covered by ʾiʿrāb —i.e. Arabic case and verbal endings— and, thirdly, a typological analysis of Turkic case.

In the previous chapters of this study I pointed out that in Arabic grammar ʾiʿrāb is conceived as a set of markers that indicate governance by other linguistic elements. This definition itself not only matches Babby’s description of syntactic case on all points, there is also evidence that Arabic case is, indeed, basically syntactic. The second type of case proposed by Babby is semantic case, which does not occur in Arabic (if we exclude the semantic use of the accusative). As for Turkic, out of its six cases, the genitive, dative, locative and ablative are semantic, whereas the accusative is syntactic. In both languages the nominative is difficult to classify as either semantic or syntactic, which may be a general typological feature of the nominative.

<sup>1</sup> Equally impossible, albeit for other reasons, is the assumption that the endings are mere lengthenings of their short pendants, i.e. *-un/ -in* and *-atun/ -atin* in the singular and broken plural forms of nouns.

### 1.3 Syntactic case as the base of the Arabic concept of $\text{ʔi}^{\text{rāb}}$

It is not unreasonable to postulate that the Arabic concept of  $\text{ʔi}^{\text{rāb}}$  is based on a language which has exclusively syntactic case—and, incidentally, verbal endings that can be accounted for in similar terms. (There are, however, some instances in which Arabic cases can be used semantically, see discussion below.)<sup>2</sup> For Arabic theory this means on the one hand that it has inherent difficulties in analysing semantic case in terms of  $\text{ʔi}^{\text{rāb}}$ , not only to inasfar as case is used semantically in Arabic (see the various types of optional objects, Chapter Six), but also semantic case in other languages. On the other hand, since the theory was especially devised for analyses of syntactic case, Turkic syntactic case should be recognised without many difficulties.

Although at first sight the picture appears somewhat blurred because of the differences between pure (*mafʿūl ṣarīḥ*) and non-pure objects (*mafʿūl ġayr ṣarīḥ*)—which, in fact, is a useful specification of the object in the later Arabic linguistic tradition—only the Turkic accusative is, indeed, described in similar terms as the Arabic cases.

The semantic cases of Turkic are quite straightforwardly considered equivalent to Arabic particles. Or, in different terms, it is impossible to incorporate Turkic semantic case in the concept of  $\text{ʔi}^{\text{rāb}}$ . Such an interpretation is impossible, since there would then be no governor to account for their occurrence; the the endings of  $\text{ʔi}^{\text{rāb}}$  are mere markers of governance, never governors themselves.

The absence of a governor from the surface level is apparently more serious than that of a declensional marker. Markers can easily be omitted from the surface level, or merge for (mor)phonological reasons, whereas without governors the whole structure becomes meaningless. It appears that governors are primary to markers (cf. *az-Zaġġāġī* in *ʔlal*, Versteegh 1995:95ff.).

### 1.4 Syntactic case and underlying structure

As we have seen, traditional grammar is basically semantically oriented, whereas modern linguistic theories, such as the Government and Binding theory and Case Theory, tend to analyse case in syntactic terms. In the latter theories, syntactic relations between linguistic elements are described in terms of government on a theoretical level,

<sup>2</sup> It goes, of course, too far to claim that a theory based on a language with almost exclusively syntactic case should *inevitably* develop a concept of case that only admits syntactic case.

which determine the shape of the surface structure. Whether or not case endings in fact appear in the surface structure is, in this type of argumentation, of secondary importance. On this abstract level case is also posited for languages that do not have case in surface structure, such as, for example, English. One could say that the concept of an abstract level is a very useful, if not indispensable aspect of any theory that posits governance relations between syntactic elements.

Similar statements can be made for Arabic theory. The concept of an underlying level, *taqdīr*, permits the grammarians to posit governance relations between elements even though their effect might be not visible on the surface level. Whether or not the markers of governance appear in the surface structure can be discussed in less basic morphological terms. The grammarians did differ in their opinions of, for example, which meanings are to be assigned to segments of certain verbal and nominal endings (see Chapter Four 4.1.2, and 1.3 below), but as a rule they agreed on the basic concepts of four types of governance and how governance is indicated.

When giving an analysis of those aspects in a foreign language the concept of an underlying structure is very useful too (although the Arab grammarians actually never claimed universal application of their model). With the underlying level one is able to account for unusual word sequences, awkward morphological forms and the absence of markers of governance without adapting the model to the new language. It allows one to analyse the foreign syntax and morphology according to a familiar model without having to seek recourse in weak ad hoc interpretations. There is no need to discuss or redefine matters such as governance and related subjects, because they are already extensively dealt with in regular grammatical treatises. For instance, it does not really matter which marker the object takes on the surface level, as long as it can be attributed to a type of governance that yields a similar distribution as the one attributed to Arabic verbs.

Indeed, only in instances in which the original model does not have any solutions, simply because they do not occur in the language on it is based, such as when a governing element or a marker of governance appear on unexpected positions (or with a verbs they never occur with in Arabic), when two governors appear in a sequence, or when verbs apparently have governing capacities Arabic verbs do not have, problems do arise. It is in the analyses of these aspects of Turkic that the sources give different solutions, and each of them is plausible within the Arabic model.

This procedure is not unlike what happens in modern linguistic theory. Originally exclusively based on English, its general rules are constantly adapted based on new data from languages that had not been analysed in this way before. The main difference between the two theories are, of course, their respective goals. The aim of modern linguistics is eventually to build a theory with universal validity, whereas the Arabic grammarians did not have such aspirations.

### 1.5 *Semantic case and governance*

Thus if we accept that governance is the only way to account for morphological syntactic case, a theory which is based on this is likely to have a certain concept of governance. Even if the cases have no morphological realisation, such a theory may have its merits (although it is unable to satisfactorily account for semantic case; cf. Babby 1991:2 n.3). Conversely, semantic concepts are of little use for analysis of syntactic case. In this respect I refer to the attempts of Hjelmslev (1972), Lyons (1971) and Jakobson (in Waugh and Halle 1984) to describe case in general abstract semantic terms, e.g.

Un cas, comme une forme linguistique en général, ne signifie pas plusieurs choses différentes; il signifie une chose, il porte une seule notion abstraite dont on peut déduire les emplois concrets (Hjelmslev 1972:85).

and

Although each case of the noun was given a label suggestive of at least one of its principal semantic functions (...), it was impossible to give a satisfactory general definition of case itself in semantic terms... (Lyons 1971:289).

Western grammar developed models in order to show theoretical links between these abstract notions, among which the semantic concept of 'direction' was taken as a base. From this point of view the dative case expresses a movement toward the subject, an ablative a movement directed from the subject, and a locative would convey a rest. The ideal was to link each theoretical case to a single meaning. Such an ideal, however, is difficult to achieve, since, as we have seen, not all cases can be satisfactorily explained in semantic terms.<sup>3</sup>

<sup>3</sup> Babby (1991:2) already refers to the different ways semantic case is used in language; in addition I would suggest that in some languages semantic cases can be used syntactically, and vice versa, whereas this use may be restricted in others.

## 2. CONCEPTS

It seems safe enough to assume that the concepts applied in the descriptions of Turkic are exactly the ones developed in the Arabic linguistic tradition. Indeed, there are no significant differences in structure and style from regular works on Arabic, and therefore, one should be careful in attributing special insights to their authors.

### 2.1 *Adoption of other concepts*

In previous studies Maḥmūd al-Kāšġarī and Abū Ḥayyān al-'Andalusī, the compilers of *Dīwān* and *Kitāb al-'Idrāk*, respectively, have been attributed other or better knowledge than that of their contemporaries. However, the sole scientific framework they and all other scholars knew was the Arabic tradition; it formed the very basis of their linguistic insights and their only starting point to describe language.<sup>4</sup> Unlike the modern western scholar who can choose among a variety of models to apply in certain studies, and who is able to understand the pros and cons of a given approach, it is difficult to imagine Arabic grammarians such as Kāšġarī and Abū Ḥayyān pondering on the most suitable theoretical framework for the description of Turkic. True, they did had a profound knowledge of foreign languages and scripts, but this fact alone may not necessarily have brought them to abandon their scholarly concepts. In the case of Arabic linguistics this is even less likely because of the religious associations with linguistic studies.<sup>5</sup>

### 2.2 *Development of new concepts*

Concepts of syntactic functions are only developed if there is a need to do so. For example, the concept 'indirect object' is not needed if both indirect and direct object are marked with the same marker, such as in Arabic. The marker of both objects can be accounted for by positing governance of the verb, affecting both of them in the same way. Different markers, though, are linked to a different function, such as *u* for the agent (*fā'il*), and *a* for the object (*maf'ūl*), respectively.

In Chapter Six we have shown that the Arabic grammarians found that in Turkic objects are marked differently, a fact that they relate to

<sup>4</sup> It goes without saying, however, that within the framework of Arabic linguistic each author could exert his creativity in the application of the instruments supplied.

<sup>5</sup> The question of whether or not the Arabic tradition as a whole was influenced by Greek or Syriac grammatical thinking (for Greek influence see, e.g., Versteegh 1977) is yet another matter.

the way the objects are governed. Thus they related *nī* to the direct object, and *ġā/ḵā* to the object that in Arabic is transitive by means of a particle.<sup>6</sup> In later Arabic theory these objects are distinguished too, even in cases in which the particle is absent from the surface structure. In some instances, as with the verb *ʾa ʿṭā* ‘he gave’, though, *ġā/ḵā* marks the object without the possibility to refer to a deleted particle, and the combination of both notions brings them—at least ʾAbū Ḥayyān—very close to positing a new kind of object, perhaps what in our system is called an ‘indirect object’. One could say that that there is a beginning of a trend to extend the concept of object. The same can be said of the possessive ending, which is regarded as a mere marker of the possessive rather than a possessive pronoun.

Notwithstanding all insights, it is quite unlikely that ʾAbū Ḥayyān applied these new concepts to Arabic as well. In his view and that of all other scholars of his time, the descriptive model they used for Arabic was not in want of any modifications or new concepts: it already perfectly suited its goals.

### 2.3 A transferred concept of language varieties

A common point in all sources is the reference to the Turkic language as *turkiyya*, which is often contrasted with other variants of Turkic. The sources that were compiled during the Mamlūk period (*Qawānīn*, *ʾIdrāk*, *Tuḥfa*, *Tarġumān*, *Bulġa*) especially mention Oġuz, which they call *turkmāniyya*, while the features of *turkiyya* itself seem to point at a Western Qipčaq language. In *Šudūr* it is called *al-luġa at-turkiyya al-ʿuṭmāniyya*, and the same source refers to the language described by ʾAbū Ḥayyān as *tatariyya*. Kāšġarī uses the term *turkiyya* too, but in respect to *ḥāqāniyya*. All this is quite confusing: each author has his own preference.

The attitude towards Turkic points to a preference for one dialect/language in particular which each author considers the ‘real’ Turkic. One could say that *turkiyya* has the status of a prestigious variant, and the attitude towards it is comparable to the approach to Classical Arabic in treatises on Arabic, which is, needless to say, held in very high esteem against less prestigious dialectal variants. In terms of concepts one could say that the concept of a ‘pure’, prestigious language versus non-prestigious variants is applied to the linguistic situa-

<sup>6</sup> The fact that verbs which govern by means of a particle in the later linguistic tradition are regarded as transitive is already an important extension of the concepts of transitivity and object.

tion of Turkic peoples (whether or not it is a genuinely reflection of the same is quite a different question).

The sources indeed display a normative attitude in which words and forms are given as 'correct' *turkiyya*. In *Qawānīn* the preference for *turkiyya* is accompanied by severe warnings against the use of *turkmāniyya* (cf. Chapter Two 1.5). In many cases the subjective preferences of the compilers or those of their informants may have played a role in the decision of whether or not to assign to a given word or form the label *turkiyya* (and hence 'correct'). At least in one fourteenth century source (*ʿIdrāk*), *turkiyya* in some instances refers to typically Qipčaq forms and to Oğuz in others (although in general the Qipčaq forms seem to be preferred). In most cases words and forms explicitly labeled as either Qipčaq or Oğuz can indeed be identified as such. Nevertheless, in spite of this seeming precision, it is not exactly clear what the terms *qibğāqiyya* and *turkmāniyya* in reality stand for, and with which modern languages they are related. For this is necessary to develop a set of linguistic and lexical criteria to distinguish between Qipčaq and Oğuz.

### 3. THE COMPILATION OF TURKIC GRAMMARS

There is one issue which has not been dealt with so far, i.e. the motivation of each compiler for writing a grammar of Turkic. This subject is related to two matters. First, the readership, and the way the grammars are conceived as didactical instruments, and, secondly, the interest in compiling manuals of Turkic.

#### 3.1 *The readership*

To start with the first point, *Šuđūr* is set up as a didactic instrument (cf. Chapter Two 1.7), and as such it stands in a tradition in which word lists of Ottoman, Arabic and Persian were especially developed for learners of those languages. With *Dīwān* Kāšğari probably intended to show his fellow scholars that in many respects Turkic can compete with Arabic. In regard to the other sources, however, the intended goal can be deduced less easily. The grammatical treatises compiled in Mamlūk times provide a complete means to learn a language (a word list, morphology [in *ʿIdrāk*] and an elaborate discussion of syntax). Although the purposes for their compilation may to some extent have been didactic, this is not explicit in the structure of the works, which points in the first place to a profound scholarly interest.

In Chapter Two I pointed out that the manuals are set up like regular studies of Arabic grammar, dealing with issues that are familiar to the Arabic scholar. In this way, the grammars take features of Arabic as starting points, rather than giving a gradual introduction to the new language. The fact that the Arabic linguistic tradition itself was initiated in reaction to mistakes committed by new (and old) members of the Islamic community does not automatically imply that special learners' grammars were also developed. On the contrary, one might say, the contents of Arabic linguistic manuals are usually quite complicated and deal with highly abstract matters. The necessity of having or developing a special didactic approach for second language learners probably did not exist as a concept in the minds of the compilers. Instead, they structured their grammars of Turkic according to the familiar patterns of Arabic linguistic treatises, leaving basic complicated concepts, such as underlying structure and governance without any reference. Apart from the fact that the readership must have been sufficiently acquainted with these issues, works of this type are indeed hardly the place to discuss or even elaborate new theories. Furthermore, it is hardly conceivable to envisage any need or intention on the part of the Arab grammarians to learn from descriptions of other languages in order to improve their descriptive model.

### 3.2 *The interest in Turkic*

With regard to the second point, for *Šudūr* and *Dīwān*, again, reasons for compilation can be found in the historical context. *Dīwān* was compiled at a time in which Turkic peoples played important political roles, while *Šudūr* dates from Ottoman times, in which Ottoman Turkish, which already had a flourishing literature, served as the main language of official communication. Furthermore, the Turkic grammars that date from Mamlūk times can easily be related to the ruling class in Cairo, which was of Turkic origin and which was constantly strengthened with new young recruits from Central Asia. However, there were almost no direct relations between the arabophone population which was largely illiterate, on the one hand, and the military aristocracy on the other. Between these two layers in Mamlūk society stood — more or less isolated as well — the class of the *ʿulamāʾ* (see, for example, Haarmann 1988), which to a large extent consisted of descendants of the Mamlūks. Children of Mamlūk soldiers and Arab women were usually kept outside the military establishment. Nevertheless, they were given a good education, and, as a result, some of them



must have known both Turkic and Arabic at a high level. This situation itself did not immediately call for manuals of Turkic, but it does not seem too far-fetched to suppose that some members of this class of 'ulamā' combined both the practical knowledge and theoretical linguistic background that were needed for the compilation of grammars of Turkic.<sup>7</sup> Scholarly interest shown by non-Turkic 'ulamā' may have been the main inducement to put down this knowledge in writing. It is interesting that this resulted in a 'boom' of grammars in the 13th and 14th centuries.

One could release this study from the rather tight bonds of linguistics, put it in a more general context, and regard it as a report on the way descriptive tools or concepts are applied to other issues than they were originally developed for. Then its issue would become the degree of flexibility in people's concepts in a general sense, or rather how flexible people are when it comes to describing the habits of people with different beliefs or cultural backgrounds.<sup>8</sup> In this respect one could concentrate on religious aspects, but also approach the matter from a sociological perspective.<sup>9</sup> This leads to yet another question, namely to what extent people are aware that they perceive reality from within a certain framework. The description of foreign languages with a model that has been developed for another language is only one of the many possible approaches.

---

<sup>7</sup> In this context, the fact that 'Abū Ḥayyān, who was not of Turkic origin, succeeded in mastering so many languages is even more surprising.

<sup>8</sup> For discussions of the religious practices of Jews as described by Muslim theologians, cf. Adang (1993).

<sup>9</sup> In this sense the accounts by Ibn Ḥaldūn, Ibn Baṭṭūta, and al-Ġāḥiẓ have already served as sources for a large number of Western studies (to mention only some as a reference, art. *Djuḡ rāfiyā* by Taeschner in *EI*<sup>2</sup>; Miquel 1967-88; Lewis 1990).



PART TWO

TRANSLATION OF

ʿABŪ ḤAYYĀN AL-ʿANDALUSĪ'S

*KITĀB AL-ʿIDRĀK LI-LISĀN AL-ʿATRĀK*



## INTRODUCTION

More than a decade ago, I reckoned it would be 'convenient' to have a Dutch translation of *Kitāb al-Idrāk*. I intended to append the translation to the MA thesis which, at the time, I was preparing at the University of Nijmegen. After graduating, in the summer of 1988, it seemed an equally 'logical step' to start translating the text into English in anticipation of engaging in a Ph.D. research project on Arabic grammars of Turkic. Naturally, I had very much underestimated the effort this enterprise would demand. My Dutch translation turned out to be completely mistaken at many points, not to mention the numerous new problems of interpretation and translation of Arabic terminology which I was confronted with.

Without any hesitation, I sent the first drafts of my work to my supervisor, Kees Versteegh, then director of the Netherlands' Institute in Cairo, who must have been quite surprised to find them in his mail. He managed to find the time for writing detailed comments on virtually all aspects of the translation and sent them to me. Later on, when I was preparing my Ph.D. thesis, on more than one occasion Prof. Versteegh and I had the opportunity to discuss passages from *Idrāk* again.

Even though he always maintains that his students should not explicitly thank him for his advice, I nevertheless would like to express my gratitude for his help and encouragement without which it would have been impossible indeed to translate this complicated text. Any mistakes are, of course, my own.

The present text has no further pretensions than to give a reliable and readable translation of 'Abū Ḥayyān al-'Andalusī's *Kitāb al-Idrāk li-Lisān al-'Atrāk*. Although *Idrāk* also contains a large Turkic-Arabic vocabulary, the present translation is limited to the second and third sections on morphology and syntax, respectively. Information about the author, 'Abū Ḥayyān al-'Andalusī, and the context of *al-'Idrāk* in the Arabic linguistic tradition is given in Part One of this book.

In the translation references are given to two manuscripts and their edition by Caferoğlu (1931). The first and most important manuscript

is the Velieddin ms 2896 (Beyazıt National Library, abbreviated VD), and the second is the İstanbul Üniversitesi Halis Efendi ms 6597 (Süleymaniyye Library, abbreviated İÜ). References to page numbers in Caferoğlu's edition are not preceded by any abbreviation. I checked Caferoğlu's edition against both manuscripts, and my conclusion is that apart from some minor points (such as occasionally omitted *hamzas*) it is a reliable reflection of the text as it appears in VD.

In some respects, *Kitāb al-ʾIdrāk* could be characterised as a rather dry but solid grammatical description of Turkic. There are almost no references to Arabic grammar, nor is there hardly any elaboration on the principles on which the author based his description. In fact, for a study of ʾAbū Ḥayyān's theories on grammar his *Irtiṣāf*, *Manhağ* or even his *tafsīr*, *al-Baḥr al-muḥīṭ* might be more appropriate choices. Nevertheless, I believe that the text in all its conciseness is as accurate as a fourteenth-century professional linguist in the Arabic tradition could write it; a grammar of a foreign language is not the place to discuss matters that relate to the describing model. The basis of the model is still Arabic, and any discussion of elaboration of the model should be related to that language.

The present translation may of interest for arabists in order to have an insight into how exactly the Arabic linguistic model is applied to foreign words and morphemes. Turcologists may be pleasantly surprised with the linguistic insights ʾAbū Ḥayyān displays as a non-native speaker in his descriptions, even though those are not necessarily identical with ours, and through them get a better understanding of fourteenth-century Turkic. The translation may enable general linguists to more easily compare the Arabic descriptive model with other linguistic traditions. For more details on ʾAbū Ḥayyān's analyses of Turkic the reader is referred to the first part of this book.

I have attempted to give translations for Arabic words and terminology that are as unified as possible. For example, 'equivalent' translates *murādif* but also the verbs *rādafa*, and other derived forms. Likewise, 'indicates', 'indicator' and the like are translations of *dalāla*, *dāll* or *yadullu*. In some instances, especially inasfar as more technical terminology is concerned, apt translations were difficult to find. For example, in *Idrāk* the regular term used for 'present tense' is the *muḍāriʿ*. In many instances, though, ʾAbū Ḥayyān applies the term *fiʿl al-ḥāl* or, elliptically, *al-ḥāl*. Here confusion with the *ḥāl*, here translated as 'circumstantial expression', is likely to occur. Therefore, wher-

ever ‘present tense’ translates *ḥāl*, the original Arabic is given in a label in the text.<sup>i</sup>

As translations of the Arabic terms used for the ‘declensional’ endings I have chosen the terms ‘accusative’ for *naṣb* and ‘genitive’ for *ğarr*. The term *rafʿ*, nor the verbal pendants of these terms occur in the text. Furthermore, I choose to translate *zarf* as ‘locative’ (following Talmon 1997), although I am aware that this might add to the terminological confusion.<sup>ii</sup>

For a better comprehension of the text two further remarks may be appropriate. In the first place, the ʾAbū Ḥayyān quite often states that a certain feature in verbs (such as, e.g., the addition of the Turkic passive suffix) is used in the present, future and past tenses alike. The reason that he keeps repeating this point is that in Arabic this type of adaptations typically takes place inside the root of the verb rather than suffixed to a verbal stem. Examples are, e.g., k-t-b ‘the root write’: *kataba* - *kutiba* - *kātaba* ‘he wrote’ - ‘it was written’ - ‘he corresponded’, etc.. Accordingly, all tenses have conjugations in the present and imperative that differ according to the voice of the verb, e.g., *yaktubu* ‘he writes’ - *yuktabu* ‘it is being written’ - *yukātibu* ‘he is corresponding’. Furthermore, the Arabic tradition does not have a concept of ‘stem’, and hence the sometimes awkward use of different terms (*nafs al-kalima*, ʾaṣl al-kalima) by the author. Second, in some of his morphological analyses ʾAbū Ḥayyān applies other Arabic morphological principles. For example, whenever in so-called ‘lengthened vowels’ are involved, they must be understood as combinations of (ā) *faṭḥa*+ʾalif /a/, (ū) *ḍamma*+wāw /uw/, or (ī) *kasra*+yāʾ /iy/, respectively. Only then expressions such as “as substitution of ʾalif with yāʾ” make sense.

A different problem was to find apt translations of ethnonyms that refer to Turkic peoples, such as ʾAtrāk, Qibğāq and *Turkmān*. I chose to translate them with ‘Turks’, ‘Qipčaq’ and ‘Oğuz’, respectively. Arguments for the proposed translations here are given in Part One, Chapter One.

In the text additional information that might facilitate reading is given between brackets. For example, I have included the Arabic originals of all exemplifying phrases and sentences, and original Arabic technical terms are inserted where they appear first and in other instances where it may be useful to know which term is used.

<sup>i</sup> At Zağğāği’s time (appr. 670 - appr. 350) the term *fiʿl al-ḥāl* was still controversial (cf. Versteegh, 1995: 145 and 207).

<sup>ii</sup> Carter (1981) uses “space/time qualifier”, Owens (1988, 1990) “circumstantial words” and Versteegh (1995) “adjunct”.

The translation of the exemplifying sentences is based on the Arabic examples; where no Arabic version is given by the author, or if this is apparently incorrect, a direct translation from the Turkic is provided between rectangular brackets. For sake of convenience, Turkic morphemes are separated from each other by means of a dot, except if they were already written separate in the Arabic text, in which case they are separated by a space. The translation starts with ʾAbū Ḥayyān's introduction to the work and then continues with the part on morphology and syntax. The first part, the Turkic-Arabic word list is skipped. All chapters and paragraphs have been numbered in order to facilitate searching and reference.

As pointed out above, there are three versions of the text, i.e. two manuscripts, i.e. the Veli ed-Dīn MS (VD) and the University of Istanbul MS (İÜ). The third is Caferoğlu's edition based on both. The three versions relate to each other in the following manner:

	ed. Caferoğlu .....	VD .....	İÜ
II. Morphology .....	101	32 <sup>v</sup>	46 <sup>v</sup>
III. The rules to which the word is subject .....	104	34 <sup>f</sup>	50 <sup>f</sup>
1. The diminutive .....	105	34 <sup>v</sup>	50 <sup>f</sup>
2. The reference .....	106	34 <sup>v</sup>	50 <sup>v</sup>
3. The plural .....	106	35 <sup>f</sup>	51 <sup>f</sup>
4. The active participle .....	106	35 <sup>f</sup>	51 <sup>f</sup>
5. The intensive form of the active participle .....	107	35 <sup>v</sup>	52 <sup>f</sup>
6. The addition for the superlative .....	107	35 <sup>v</sup>	52 <sup>f</sup>
7. The passive participle .....	107	36 <sup>f</sup>	52 <sup>v</sup>
8. The verbal noun .....	108	36 <sup>f</sup>	53 <sup>f</sup>
9. The noun of place .....	109	36 <sup>v</sup>	54 <sup>f</sup>
10. The instrument .....	109	36 <sup>v</sup>	54 <sup>f</sup>
11. The manner .....	109	37 <sup>f</sup>	54 <sup>f</sup>
12. The destination .....	109	37 <sup>f</sup>	54 <sup>v</sup>
13. The particle of transfer and transitivity .....	110	37 <sup>f</sup>	54 <sup>v</sup>
14. The consonant of the passive-reflexive form .....	110	37 <sup>v</sup>	55 <sup>f</sup>
15. The consonant of the medio-passive form .....	110	37 <sup>v</sup>	55 <sup>f</sup>
16. The consonant of reciprocity .....	111	37 <sup>v</sup>	55 <sup>v</sup>
17. The consonant of the imperfect tense .....	111	37 <sup>v</sup>	55 <sup>v</sup>
18. The consonant of the past tense .....	111	38 <sup>f</sup>	55 <sup>v</sup>
IV .....	111	38 <sup>f</sup>	56 <sup>f</sup>
19. The addition .....	111	38 <sup>f</sup>	56 <sup>f</sup>
20. The [phonological] substitution .....	116	41 <sup>v</sup>	61 <sup>f</sup>
21. The elision .....	117	42 <sup>f</sup>	61 <sup>v</sup>



22. The transfer of the vowel.....	117	.....42 <sup>f</sup>	.....61 <sup>v</sup>
23. The assimilation .....	117	.....42 <sup>f</sup>	.....62 <sup>f</sup>
V			
24. The rules of construction .....	117	.....42 <sup>f</sup>	.....62 <sup>f</sup>
25. The undetermined and the determined word ...	118	.....42 <sup>v</sup>	.....62 <sup>v</sup>
26. The verb.....	120	.....44 <sup>f</sup>	.....65 <sup>f</sup>
27. The topic and the predicate .....	122	.....45 <sup>v</sup>	.....66 <sup>v</sup>
28. The copulative verbs .....	123	.....46 <sup>f</sup>	.....67 <sup>v</sup>
29. Chapter on <i>kaškā</i> and its sisters.....	127	.....48 <sup>f</sup>	.....70 <sup>v</sup>
30. Chapter on <i>'uranla·dī</i> , <i>ṣaḡin·dī</i> and <i>bil·dī</i> .....	128	.....48 <sup>v</sup>	.....72 <sup>f</sup>
31. The verb and the agent.....	129	.....49 <sup>f</sup>	.....72 <sup>v</sup>
32. The negation in the verb .....	130	.....49 <sup>v</sup>	.....73 <sup>v</sup>
33. The interrogative .....	131	.....50 <sup>f</sup>	.....74 <sup>v</sup>
34. The prohibition .....	133	.....51 <sup>v</sup>	.....77 <sup>f</sup>
35. The replacing agent .....	133	.....51 <sup>v</sup>	.....77 <sup>f</sup>
VI The verb's conditions with regard			
to optional parts of the sentence.....	134	.....52 <sup>f</sup>	.....78 <sup>f</sup>
36. The verbal noun .....	134	.....52 <sup>f</sup>	.....78 <sup>v</sup>
37. The locative of time.....	135	.....52 <sup>v</sup>	.....78 <sup>v</sup>
38. The locative of place.....	135	.....52 <sup>v</sup>	.....79 <sup>f</sup>
39. The circumstantial expression .....	137	.....53 <sup>v</sup>	.....80 <sup>v</sup>
40. The direct object.....	139	.....55 <sup>f</sup>	.....82 <sup>f</sup>
41. Connection of the active participle			
to the direct object.....	140	.....55 <sup>v</sup>	.....83 <sup>f</sup>
42. The connection of the pass.			
participle to the direct object .....	141	.....56 <sup>f</sup>	.....84 <sup>f</sup>
43. The connection of the verbal noun			
to the direct object.....	141	.....56 <sup>v</sup>	.....84 <sup>f</sup>
44. The object of reason.....	141	.....56 <sup>v</sup>	.....84 <sup>v</sup>
45. The concomitant object.....	142	.....57 <sup>f</sup>	.....85 <sup>f</sup>
46. The excepted .....	142	.....57 <sup>f</sup>	.....85 <sup>v</sup>
47. The specification .....	143	.....57 <sup>v</sup>	.....86 <sup>f</sup>
48. The competing regency .....	144	.....58 <sup>v</sup>	.....87 <sup>f</sup>
49. The annexation.....	144	.....58 <sup>v</sup>	.....87 <sup>f</sup>
50. The oath .....	146	.....59 <sup>f</sup>	.....88 <sup>f</sup>
51. The annexation without a particle .....	146	.....59 <sup>v</sup>	.....88 <sup>v</sup>
52. The appositions .....	147	.....60 <sup>v</sup>	.....90 <sup>f</sup>
53. The conjunction.....	149	.....60 <sup>v</sup>	.....92 <sup>f</sup>
54. The corroborative .....	151	.....62 <sup>v</sup>	.....93 <sup>f</sup>
55. The [syntactic] substitution.....	151	.....63 <sup>f</sup>	.....94 <sup>f</sup>

56. The condition.....	152	.....	63 <sup>r</sup>	....	94 <sup>r</sup>
57. The quotation.....	154	.....	64 <sup>v</sup>	....	96 <sup>v</sup>
VII					
58. The particles .....	154	.....	64 <sup>v</sup>	....	96 <sup>v</sup>

TRANSLATION OF  
*KITĀB AL-IDRĀK LI-LISĀN AL-'ATRĀK*

INTRODUCTION

<5> In the name of God the merciful, the Compassionate,

5 O Lord, help us, Thou Respectable,

The wise, dilligent and precise worker, the learned grammarian that sets example, 'Aṭīr ad-Dīn 'Abū Ḥayyān Muḥammad ibn Yūsuf ibn 'Alī ibn Yūsuf ibn Ḥayyān al-'Andalusī the Šāfi'ite, immigrant in the Land of Egypt —may God protect it and cherish it— said:

10 "Praise be to God Who is praised in all languages, Who is free from signs of imperfection, Who comprises the good and beneficence of all creatures, Who has endowed the world of man with reason. Prayer be upon him whom were given all elements of speech and revelation, who was sent to the nations with the best of religions, who was preferred  
15 above the rest of common people, kings and ghosts: Muḥammad, the Guide to the path of delight. [Prayer be upon] his good kind, the first ones to be guided and to believe. May He be merciful with his companions, the supporters of the just and the suppressors of the unjust.

The precise knowledge of every language is obtained by knowledge of  
20 three things: the first are the meanings of all simple words, which is called 'lexicology' (*'ilm al-luġa*). The second are the rules of those simple words before their construction, which is called 'morphology' (*'ilm at-taṣrif*). The third are the rules in case of a construction, which is called by those that speak about the Arabic language: 'syntax' (*'ilm  
25 an-naḥw*).

I have already written and compiled a large number of books on the science of the language of the Arabs: *Kitāb at-Taqrīb*, *Kitāb al-Mubdi'*, *al-Mawfūr*, *Ġāya al-Iḥsān wa-Nukat al-Ḥisān*, *Kitāb at-Tadrīb* and other scientific works that please the ear and honour the  
30 paper.

The purpose of this book is to record a large part of the language of the Turks in lexicography, morphology and syntax. I registered this language consonant by consonant and arranged the lexicographical

part about according to the consonants of the alphabet in the Turkic language. In this book I first mention the Turkic word <6> and its equivalent (*murādifiḥā*) in the Arabic language. After this follow morphology and syntax.

5     What is in it of lexicography is taken from those I confide in with regard to the transfer [of knowledge]; I may have used a strange arrangement and peculiar summarisations. As to what is in it of morphology and syntax, I have not followed a [known] method but I extracted what was known latent by investigating and questioning. I  
10    reached with a nice attainment the best of goals and I gained with many questions the widest search and goal.

I have harvested the sweet fruits of heavenly inspiration from the orchards of this language. I extracted precious pearls from the width of knowing it, the objects of utmost desire. In this respect I reached my  
15    goal of compiling a book on this language; thus I attained a great success in the competition [of compiling books on Turkic].

Therefore I entitled my book 'Book for the Comprehension of the Language of the ʾAtrāk'.<sup>1</sup> I put a sign for what is palatalised (q), one for what is velarised (ḥ), one for what is mixed (š). I also put a sign for  
20    what is transferred from the language of the Persians (f) and from that of the Oğuz<sup>2</sup> (*turkmān*) (t), i.e. what I found suitable for my book.

I found disagreement among people talking in the language of the Turks in that they add or elide a consonant, or change a vowel in another, vocalise a silent consonant or silence a vocalised consonant  
25    etcetera. Know that these are variants among them in this language, for much of this language has changed in these realms, due to the mingling with arabicised peoples and other foreigners.

I divided my book into three parts: the first part deals with the lexicology, the second part with morphology and the third part deals with  
30    with syntax."

<sup>1</sup> ʾAtrāk also means 'competition; the reaching or attainment of a goal'.

<sup>2</sup> In this translation, *turkmān* and related adjective *turkmānī* are translated as 'Oğuz'. The use of 'Turcoman' is too strongly associated with present-day Turkmen; this association was probably not intended by the author.

## II MORPHOLOGY

1. [Morphology (*taṣrīf*) means] knowledge of the rules of a word (*kalima*) before its conjunction (*tarkīb*) with another word.

5 2. The word consists of the consonants (*hurūf*) of the alphabet. In this language (*lisān*) the alphabet has twenty-three consonants, i.e. the *hamza*, the pure (*ḥālīṣa*) *b*, the mixed (*mašūba*) *b*, the *t*, the pure *ǧ*, the mixed *ǧ*, the *d*, the *r*, the *z*, the *s*, the *š*, the *ṣ*, the *ṭ*, the *ǧ*, the *q*, the pure *k*, the Bedouin *k*, (*badawīyya*) the *l*, the *m*, the pure *n*, the post-palatal *n* (*ḥayšūmiyya*), the *w* and the *y*. If you find in a word another  
10 consonant than these, know that the word is not Turkic but transferred from [another] language into this, e.g. **ʾaḥšam**, **farman**, **firišti-lār** and **kulaf** and others.

15 3. The word is an utterance (*qawl*), or rather what is intended by the utterance. The utterance is created (*mawḏūʿ*) to indicate a meaning, namely a noun (*ism*), a verb (*fiʿl*) and a particle (*ḥarf*).

4. The noun is uniradical (*ʾaḥādī*), biradical (*tunāʾī*), triradical (*tulāfī*), tetradical (*rubāʾī*) or pentaradical (*ḥumāsī*).

20 5. The uniradical noun is vocalised (*mutaḥarrik*) with *u* (*ḍamma*), *a* (*fatha*) or with *i* (*kasra*), e.g., **ṣū** and **yā** and **ǧī**. The consonants (*hurūf*) following [the vocal signs] are a lengthening (*ʾiṣbāʿ*) and are no part of the root. All three weak consonants (*hurūf al-madd wa-l-līn*) [sc. *ʾalif*, *w* and *y*] are like this; none of them is part of the root in this language (*luġa*); they all arise from the lengthening of the vowels (*ʾiṣbāʿ al-ḥarakāt*).  
25

6. The biradical noun: logically (*al-qisma al-ʿaqliyya*) there are twelve possibilities (*qism*), all of which are used: *faʿ* like **san**<sup>3</sup> and *fiʿ* like **kim**, *fuʿ* like **yuz**, *faʿu* like **qapu**, *faʿa* like **ʾara**, *faʿi* like **ʾari**, *fuʿu* like **ʾurū**, *fiʿi* like **bitī**, *fuʿa* like **buġā**, *fiʿa* like **qiṣā**, *fiʿu* like **bisū**, *fuʿi* like **ṭulī**.<sup>4</sup>  
30

7. The triradical noun: logically there are many possibilities, of which twenty-six are used: *faʿl* like **ʾard**, *fiʿl* like **ṣirt**, *fuʿl* like **kurt**, *faʿlā* like **barġā**, *faʿlā* like **ṣaġrī**, *faʿlū* like **qarġū**, *faʿalā* like **yaraṣā**, *faʿalī* like

<sup>3</sup> The method of using consonantal patterns is, of course, a basic point in Arabic linguistic theory. The patterns can be reflected as follows (random examples): *faʿ* R<sub>1</sub>aR<sub>2</sub> / CAC, *fiʿ* lR<sub>1</sub>iR<sub>2</sub>R<sub>3</sub> / CICC, *fuʿ* ʿalū R<sub>1</sub>uR<sub>2</sub>aR<sub>3</sub>u / CUCACU *fuʿl* R<sub>1</sub>uR<sub>2</sub>R<sub>3</sub>uR<sub>4</sub> / CUCCUC, etc.

<sup>4</sup> Note that the author, in agreement with his preceding remark, does not distinguish between the reflection of long and short vowels in the script. Instead, he used the same basic patterns.

ṭarazī, faʿalū like ʾayakū <102> fiʿlā like sirkā, <VD 33ʾ> fiʿlī like dirkī, fiʿlū like ʾingū, fuʿlā like ʾuzkā, fuʿlū like kuprū, fuʿlī like bukrī, fuʿlū like ʾuyurū, fuʿalū like buqawu, fiʿalū like bilakū, faʿal like ʾatak, faʿil like ʾadik, faʿul like kazuğ, fuʿal like kuzak, fuʿul like 5 ʾuzum, fiʿil like kiğit, fiʿal like kišan and fiʿul like diluk.

8. The tetradical noun: logically there are many possibilities, of which twenty-three are used: faʿlal like ʾatmak, fuʿlul like bursuq, fiʿlil like čibğiq, fuʿlal like ʾuğmaq, fiʿlal like bizkak, fiʿlul like kirbuk, faʿlil like balṭir, faʿlul like ʾašqun, fuʿalul like ʾurağat, faʿilil like ʾanilik, 10 fuʿalul like ʾuyanuuq, fuʿulal like ʾuyukan, faʿalul like babağuk, faʿalal like ʾarağan, fuʿalil like buşariq, fiʿalil like bilazik, fiʿalal like čiganaq, fiʿilil like ʾisillik, fiʿillā like ʾisirğā, fiʿilli like ʾikindī, faʿilli like ʾalingī, fuʿullā like supurkā, faʿullā like ʾašurğā, faʿallū like qaraldū, fuʿullū like quburgū, fuʿulli like quyunği, faʿlil like qatirğā, 15 fuʿlalā like qurbağā, faʿlalī like ʾašpašapī, fuʿlalī like qulnağī, fuʿlalū like qunrawū, faʿlalū like damrakū, faʿill like ʾakird.

9. The pentaradical noun: logically there are many possibilities, of which twenty-three are used: faʿlalal like ʾarqaṭaq, fuʿlalal like ʾurmağak, fiʿlalal like ʾiřṭalan, faʿlilil like yaltirik, faʿlalul like čatlawuk, 20 faʿlalil like qašṭaliq, fuʿlulul like muštuluq <103>, faʿlulul like yaldurum, fiʿlalal like bildaraq, <VD 33ʾ> faʿallal like ʾaraslan, fuʿullal like ʾuşurmaq, fuʿullul like ʾuğurğuuq, faʿullal like ʾağurşaq, faʿillal like ʾağinğaq, fuʿallil like yuzarlik,<sup>5</sup> faʿillil like yağirliq, fuʿallul like čuwalduz, fiʿillal like sibildaq, fuʿullil like ʾuqurğin, faʿallul like 25 ʾağarğuuq, faʿlullā like qabṭurğā, faʿullulā like qamurşuğā and faʿallalī like kasaltakī.

10. They use nouns consisting of six consonants (*sudāsi*), although those are few, and some of them are in accordance with the following patterns: fiʿlillil like bildirğin, faʿillilal like čağiltılaq, faʿlillal like salkinğak, fiʿallalal like ʾařinğaqan, fiʿlullul like qilquyruq, faʿullulul 30 like kamulduruk, fuʿlullal like ʾulṭurqağ. These are the nouns of six radicals that need to be studied<sup>6</sup> and analysed (*iřṭiqāq*) in order to discover whether they are compound (*murakkaba*) or simple (*başıta*). Some of the words which are clearly<sup>7</sup> compound, are qilquyruq, which 35 is composed of qil which means 'hair' (*aš-šaʿr*) and quyruq which means 'tail' (*danab*), and ʾařinğiqan, which is a composition of ʾařarī which means 'yellow' (*aşfar*) and čiqan 'yellow colour' (*lawn aşfar*).

<sup>5</sup> Em. from İÜ for buzarlik.

<sup>6</sup> In İÜ *haşd*?

<sup>7</sup> *ittadağa* prob. err. for *ittadağa*

11. The verb is 1. uniradical, 2. biradical, 3. triradical and 4. tetra-radical.

12. The uniradical verb is vocalised with *u* or *a* or *i*. Examples of this are: *yū* and *yā* and *yī*<sup>8</sup> its letters are lengthened (*'išbā'*) just like we saw  
5 in the case of the uniradical nouns.

13. The biradical verb: logically there are twelve possibilities, of which ten are used: *fu'* like *'up*, *fa'* like *'aṭ*, *fi'* like *'iğ*, *fu'u* like *'ulu*, *fa'a* like *baza*, *fi'i* like *biši*, *fi'a* like *'ira*, *fu'i* like *čuzi*, *fu'a* like *buda* and *fa'i* like *dabi*.

14. The triradical verb: logically there are many possibilities, of which nineteen are used: *fa'l* like *ṭart*, <VD 34<sup>r</sup>> *fi'l* <104> like *qirb*, *fu'l* like *'urt*, *fa'al* like *'aman*, *fa'ul* like *'anuq*, *fa'il* like *ṭağil*, *fu'ul* like *supur*, *fi'il* like *kiriš*, *fu'al* like *čumal*, *fi'al* like *qizar*, *fa'la* like *'aqša*, *fi'la* like *'iqša*, *fu'la* like *bulğa*, *fa'li* like *barki*, *fu'li* like *bulqi*, *fi'ala* like *'ikala*, *fi'ila* like *'ikila*, *fu'ila* like *bunila* and *fa'ala* like *dapala*.  
10  
15

15. The tetradical verb: logically there are many possibilities, of which fifteen examples are used: *fa'lul* like *šabṭur*, *fa'lil* like *šaršil*, *fa'lal* like *tabran*, *fu'lul* like *qurṭul*, *fu'lal* like *'uḳrat*, *fa'lula* like *čašṭula*, *fu'lila* like *muštila*, *fi'lil* like *bildir*, *fa'lala* like *yağmala*, *fa'alla* like *bağašla*, *fu'ulla* like *sumulda*, *fi'illa* like *qimilda*, *fu'alla* like *'uyanla*, *fa'illa* like *yariłğa*, *fa'allal* like *čakalan*.  
20

16. Sometimes they use pentaradical verbs, although these are very few in number. Some of them are [constructed] according to the following patterns: *fa'lalla* like *'aykanla*, *fi'lilla* like *tizkinla* and *fa'lulal* like *šanqulan*.  
25

17. We have set up (*wazannā*) these patterns (*'abniya*) and applied them to these examples in order to classify them. It is necessary to study the structures of each of them, so that the primary radicals (*al-ḥarf al-'ašlī*) may be distinguished from the augmented radicals (*zā'id*).  
30 Only then can the primary radical be compared with the primary radical and the augmented radical with the augmented radical. Perhaps we will learn this in what is to come, with God's permission.

### III THE RULES TO WHICH THE WORD IS SUBJECT

1. The status of the simple words consists of two categories. One category concerns the nouns and the other concerns the verbs.  
35

2. The first category contains the diminutive (*tašğīr*), the reference (*nasab*), the plural (*al-ğam'*), the active participle (*ism al-fā'il*) and its

<sup>8</sup> Addition from İÜ.





**bu·n·ğuq, bu·n·ğuqas, bu·n·lar·ğuq and bu·n·lar·ğuqas; the *q* [in these words] may be changed into a *ğ*.<sup>11</sup>**

5. The pronoun is not subject to the diminutive.

## 2. Chapter on the reference

5 1. The reference indicates either an occupation (*şan'ā*) or something else.

2. When the reference indicates an occupation, you add *ğī* to the last consonant of the noun. Thus you say 'aş·ğī or 'cook' (*tabbāh*) and yā·ğī 'archer' (*qawwās*).

10 3. When the reference indicates something other than an occupation, you add *luğ* to the last consonant of the noun. Thus you say *rūm·luğ* 'Byzantine' (*rūmī*) and *šām·luğ* 'Syrian' (*šāmī*). The Oğuz change the *ğ* into a *w*<sup>12</sup> <106>. In that case you say *rūm·lū* and *šām·lū*, respectively. The *l* in these words, namely *luğ* and *lū*, often receives an *i*, [resulting in *liğ* and *lī*, respectively].

15 4. <VD 35<sup>r</sup>> [The word] *luğ* may also occur with the meaning of 'owner' (*dī*) or 'possessor' (*şāhib*). Thus you say for 'money-owner' (*dī māl*) *mal·luğ·dur* i.e. 'money-owner' (*dū māl*). *Luğ* is both the marker for the reference and for the possessor (*dī*) with the meaning of 'owner' (*şāhib*). The [element] to which it is linked (*ittaşala*) makes clear which one of the two meanings is meant.

## 3. Chapter on the plural

1. The marker for the plural is *lar*. The dual form in this language is a plural. Thus you say *qu·lar* ['slaves']. This is [also] applicable to two persons. If you want to emphasise (*tanşış*) that there are two men, you use the number that indicates (*dālla*) [their number]. This is yet to come in the [Chapter on] the Number (*'adad*) [below Section 47.3a-b]. You attach this marker to the verb as well—in accordance with what will be said in the [Chapter on] the Verb and the Agent [below Section 31]—to indicate that the verb is connected with a plural (*'isnād al-fi'l 'ilā l-ğam'*). The plural of the singular noun is formed like 'aṭ·lar ['horses'] and the plural of the collective noun (*ism al-ğam'*) like *baliq·lar* ['fishes'].

<sup>11</sup> Not in İÜ.

<sup>12</sup> The argumentation is as follows: /luğ/ → /luw/.

## 4. Chapter on the active participle

1. The marker for [the active participle] in the future tense (*al-mustaqbal*) is **dağī**. Thus you say **barğa·miz ʾul·dağī·biz** ‘we will all die’ (*kullunā māʾitūn*). Its marker for the past tense is **miš**. Thus you
- 5 say **kun duğ·miš** ‘the sun was rising in the past’ (*aš-šams ṭāliʿa fimā maḍā*). Both markers are attached to the last consonant of the verb —which is the original root (*al-ʾaṣl*)— as an indication (*dalāla*) of the agent in the two tenses (*zamānayri*). If you want to negate the active participle, you add the particle of negation (*ḥarf nafy*) [sc. **ma**] before
- 10 **miš** in the past tense and **dağī** in the future tense. Thus you say **sanğar ṭur·ma·dağī** i.e. ‘[Sanğar] is not standing’ (*ğayru qāyim*) or ‘the money’ (*al-māl*) **qal·ma·miš·dī**. ʾI·dī is attached to the last consonant of **miš** i.e. ‘the money was not remaining’ (*al-māl kāna ğayra bāqin*), i.e. ‘it remained not’ (*mā baqiya*).
- 15 2. Sometimes **ğī** is attached to the word as an indication of the permanence of the adjective (*dalāla ʿalā luzūm aš-šifa*) since it behaves like an occupation. Thus you say **kil·ağī** [and] **bar·ağī** ‘who keeps coming’ (*dāyim al-mağī*) and ‘who keeps going’ (*dāyim ar-riwāḥ*), respectively.
- 20 3. Their utterance **bil·kā** means ‘a wise man’ (*ʿālim*). This is a permanent adjective (*šifa lāzima*); the bedouin’s *k* [**ḵ**] (*al-kāf al-badawiyya*) is a substitute (*badal*) for **ğī**.
4. The last consonant of a word is either vocalised or silent. If it is vocalised, you add a *y* and you vocalise it with an *i*. You do this with the
- 25 permanent adjective, e.g. **čuru·yi·ğī** [‘rotting’]. If [the last consonant of the root] is silent, you vocalise it with an *i* <VD 35> if the preceding consonant is vocalised with either an *a* or an *i*, e.g. **bar·i·ğī** [‘going’] and **bir·i·ğī** [‘giving’]. You vocalise the last consonant of the root with an *u* if the consonant before it is vocalised with an *u*, e.g. **ṭur·u·ğī**
- 30 [‘standing’] and **ʾulṭur·u·ğī** [‘sitting’].
5. **Miš** is also attached as an indication of an adjective that is meditated about (*šifa muḥbar ʿanhā*) <107> when the speaker did not witness it personally but only heard of it. You say **ʾaybak ṭur·miš** i.e. ‘is surely standing’ (*qāyim yaqīnan*), even if you did not see him standing.
- 35 This meaning is observed (*malḥūz*) in every adjective to which **miš** is attached and in every instance in which it is attached. If they say e.g. **kun duğ·miš** ‘the sun is rising’ (*aš-šams ṭāliʿa*), this meaning is still preserved in its original sense (*ʾaṣl al-waḍʿ*), even though it is used differently here as a figure of speech (*ṭariqa al-mağāz*). Its original meaning is that it is used for what one knows but has not seen oneself.
- 40

## 5. Chapter on the intensive form of the active participle

1. You add **kan** to the last consonant of the verb when it is pronounced palatalised, and **ġan** when it is pronounced velarised. The consonant before the marker ends in *a*. Thus you say **kal·a·kan** ‘often coming’ (*ġayū*<sup>2</sup>) and **bar·a·ġan** ‘often going’ (*dahüb*). When the preceding consonant is silent, the form does not belong to this chapter; its meaning becomes ‘the one that did’ (*alladī fa‘ala*). This is yet to come, God willing, in the Chapter on the Relative [see below Section 25.11].

2. There is also a form **kul·ağ**, with a *ğ* as an alternative (*‘iwađ*) for the [combination of the] *k* with the *n*, i.e. ‘much laughing’ (*dahük*), the origin (*ma‘had*) is the spoken language (*samā*<sup>2</sup>), but the rule is **kul·a·kan**, which is used too.

6. Chapter on the addition for the comparative<sup>13</sup>

1. The marker for the comparative (*tafđil*) is **rak** when the word is pronounced palatalised and it is **raq** when the word is pronounced velarised. The markers are attached to the permanent adjective, that is in the same category (*manzila*) as the occupation, being a pure noun, whether the last consonant of the noun carries **ġī** or not. Examples of words ending in **ġī** are **bar·ġī·raq** ‘more going’ (*‘aktar dahāban*), and **bir·ġī·rak** ‘more giving’ (*‘aktar ‘i‘tā’an*).

2. Examples of a noun that does not carry **ġī** on the last consonant are their utterances **yik·rak** ‘better’ (*‘ahyar*);<sup>14</sup> **yik**, meaning ‘good’ (*ħayr*); **yaman·raq**—‘meaner’ (*‘ašarr*); **yaman**—‘mean’ (*šarr*); **bilka·rak**—‘more knowing’ (*‘a‘lam*); **bilka**—‘who knows’ (*‘ālim*) and **yawuz·raq**—‘worse’ (*‘ašarr*). **Yawuz** means ‘bad’ (*šarr*); <VD 36<sup>r</sup>> this word is Oġuz, for they say **yawuz** instead of **yaman**.

## 7. Chapter on the passive participle

1. The passive participle is formed from a passive verb only. You say **‘ur·ul·dī** for ‘he was beaten’ (*đuriba*) and **bir·il·dī** for ‘he was given’ (*‘u‘tiya*). When you mean the passive participle, you elide the marker of the verb in the past tense and you put **miš** instead of it. <108> You add either a silent *l* or a *n* before it, according to the detailed explana-

<sup>13</sup> In Arabic the form of the comparative is identical to the that of the superlative. The only difference is that the superlative is always defined, e.g. *šaġir* ‘small’; *al-‘ašġar* ‘the smaller one’ or ‘the smallest one.’

<sup>14</sup> The comparative form of *ħayr* is *ħayr*, not *‘ahyar*.

tion that is to come in the Chapter on the Construction of a Verb to the Passive Participle [see below Section 35]. Thus you say **saṅḡar ʾur-ul-miš** 'i.e. is beaten' (*maḡrūb*), and 'the coat is' (*aṭ-ṭawb*) **bir-il-miš** 'given' (*mu<sup>c</sup>tan*). [You also say] 'killed' (*mumāt*).<sup>15</sup> and **dapala-n-miš** 'killed' (*maqtūl*). This is the case in the past tense. With regard to the future tense, you say **ʾur-ul-daḡi**, **bir-il-daḡi**, **ʾul-dur-ul-daḡi** and **dapala-n-daḡi**.

2a Either a silent *k* with a palatalised word or a silent *q* with a velarised word indicate the passive and the active participle. This is the case when it is a permanent adjective, although this is not the rule for each verb. What actually occurs is **ʾuz-uk** 'cut' (*al-maḡṣūl*) from **ʾuz** i.e. 'split!' (*ʾiṣīl*), and **ʾaḡ-uq** 'opened' (*al-maḡṭūḡ*) from **ʾaḡ** i.e. 'open!' (*ʾiṭaḡ*). You say **čuru-k** 'rotten' (*al-bālī*) which is derived from **čuri-dī** i.e. 'he rotted' (*balā*).

2b. You may not apply this as a general rule; they do not say **\*ʾur-uk**<sup>16</sup> for 'beaten' (*maḡrūb*) in the case of **ʾur-dī**, nor **\*ṭur-uq** for 'standing' (*qā'im*) in the case of **ṭur-dī**.

2c. But [on the other hand] it is permitted to apply the general rule [s.c. the attachment of **miš**] to verbs whose passive participles may also be formed by means of a *k* or a *q*. So you say **ʾuz-ul-miš** 'cut' (*al-maḡṣūl*) and **ʾaḡ-il-miš** 'opened' (*al-maḡṭūḡ*). In the case of the active participle you say **čuri-miš** 'rotten' (*al-bālī*); this is in the past tense. In the future tense you say **čuri-daḡi**, which has already been mentioned in the Chapter on the active participle [see above Section 4].

## 25 8. Chapter on the verbal noun

1. The marker [for the verbal noun] is the attachment of **maq** to the imperative form of the verb if the preceding consonant is velarised. The marker is **mak** if the preceding consonant is palatalised. It is permitted to add the form **liq** to **maq** and the form **lik** to **mak**. It is also permitted to reduce [both markers] to a silent *m*. These three possibilities are the basis of the analogy (*muqīs*). <VD 36<sup>v</sup>> You may say either **kal-mak** 'coming' (*maḡī*) or **kal-mak-lik** or **kal-im**. And, likewise, you may say **bar-maq** 'going' (*dahāb*), **bar-maq-liq** and **bar-im**. The consonant before the silent *m* is vocalised with an *i*.

<sup>15</sup> This apparently strange form, where *maqtūl* would have seemed more plausible, contains all the features shown by **ʾul dur ul miš**: a causative in the construction of a passive participle.

<sup>16</sup> One would expect **ʾuruq** instead, since **ʾur-** is pronounced velarised.

2. Another marker for the verbal noun is a silent *š* attached to the final consonant of the verb [i.e. verbal root]. This indicates the meaning of the intensive form in the verbal noun. Thus you say **'ur·uš** and **ṭur·uš**. The final consonant of the verb is either vocalised or silent.

- 5 3. If the final consonant is vocalised, you add a *y* with an *i*. So in the case of **yi·dī** you say **yi·y·iš**. If the final consonant is silent, and the consonant before it is vocalised with an *u*, you give it an *u*, e.g. **'ur·uš** and **ṭur·uš**. [If the penultimate consonant is] vocalised with an *a*, you give it an *i*, e.g. **baq·iš** and **bir·iš**, 'look' (*naẓar*) and 'giving' (*'iṭā'*), respectively.

- 10 4. If you wish to give a noun the meaning of a verbal noun, you add **liq** or **lik** to the last consonant of the noun, in the same way you add it to the verbal noun. Thus you say **bāliq·liq** in the case of **bāliq** ['fish']; this means 'being a fish' (*samakiyya*). And in the case of **bay** <109> [*'chief*] you say **bay·lik** which means 'principality' (*'amīriyya*). In the case of **yak** you say **yak·lik** which means 'goodness' (*ḥayriyya*). In the case of **yuq** you say **[yuq·luq]**<sup>17</sup> which means 'lacking' (*ma'dūmiyya*) and they use it to express 'poverty' (*faqr*).

### 9. Chapter on the noun of place

- 20 1. You add to the imperative form of the verb **ḡak** or **ḡaq**, adding an *a* before the added element. [The addition is] according to the rules of velarisation and palatalisation. Examples of this are **kal·aḡak** and **ṭur·ḡaḡaq** i.e. 'place of arrival' (*makān al-maḡīr'*) and 'place of standing' (*makān al-qiyām*) respectively. This is the rule for each verb. In this language there is no noun of place derived from the verb.<sup>18</sup>

### 10. Chapter on the instrument

- 30 1. The instrument is indicated either by a *k* vocalised with an *u* or a *q* vocalised with an *u*. For 'he cut' (*qaṭa'a*) you say **kas·tī**. For the instrument [constructed] from this verb you say **kas·kū**. [Another form for] 'he cut' (*qaṭa'a*) is **biḡ·tī**. For the instrument [constructed] from it you say **biḡ·qū**. For 'he whetted' (*sanna*) you say **bila·dī** and for the instrument [constructed from it], which is the whetstone, you say **bila·kū**. The *k* in **bila·kū** is bedouin. And **'alak**,<sup>19</sup> which is used for the

<sup>17</sup> Addition from İÜ.

<sup>18</sup> 'Abū Ḥayyān here means the derivation of a noun of place in the same way nouns are derived from roots in Arabic, e.g. *madrassa* 'place of learning', derived from the root *d-r-s* 'to learn'.

<sup>19</sup> It is difficult to decide whether *k* here stands for *ḵ* or *k*.

instrument 'sieve' (*munḥal*), [is derived] from <sup>ʾ</sup>ala·dī <VD 37'> i.e. 'he sieved' (*naḥala*). Its base form is <sup>ʾ</sup>ala·kū, analogous (*miṭl*) to **bila·kū**, but it was alleviated by silencing the *k*. Thus they say <sup>ʾ</sup>alak. The first form [sc. ·kū] is the rule (*qiyās*) for those verbs from which an  
5 instrument is constructed.

### 11. Chapter on the manner

1. The manner (*hay'a*) is indicated by a silent š. Thus you say **min·iš** i.e. 'manner of riding' (*hay'a ar-rukūb*) and <sup>ʾ</sup>uṭur·uš i.e. 'manner of sitting' (*hay'a al-qu'ūd*). The consonant before the š receives an *u* if  
10 the consonant before it is vocalised with an *u*, e.g. <sup>ʾ</sup>uṭur·uš. But it receives an *i* if [the preceding consonant] is vocalised with either an *i* or an *a*, e.g. **min·iš** and **čal·iš**, in agreement with what we said in the Chapter on the verbal noun [see above Section 8]. You say <sup>ʾ</sup>uṭur·uš·im <sup>ʾ</sup>aybak <sup>ʾ</sup>uṭur·uš·ī 'my manner of sitting is <sup>ʾ</sup>aybak's'  
15 (*qi'datī qi'dat 'aybak*).<sup>20</sup>

### 12. Chapter on the destination

1. The marker for the destination (*'i'dād*) is either **liq** or **lik**. Thus you say **ṭun·luq**<sup>21</sup> 'what is meant for clothes' (*al-mu'add li-l-libās*); **yama·liq** 'a patch meant for mending' (*ar-ruq'a al-mu'adda li-t-tarqī'*) <110> and **biti·lik** i.e. 'what is meant for written things' (*al-mu'add li-l-kitāb*). In the Arabic language there exists no particular expression for this meaning.  
20

### 13. Chapter on the particle of transfer and transitivity

1. [The particle of transfer and transitivity (*ḥarf an-naql wa-t-ta'diya*) is as follows.] The last consonant of a verb is either silent or vocalised.  
25 If it is silent, you add [the particle of transitivity] **dur** to its final consonant. Thus you say **min·dur** for 'make [him] mount' (*'arkib*). If [the last consonant] is vocalised, you add a silent *t*. Thus you say **yuri·t** for 'make [him] walk' (*mašši*). You say **dapala·t** for 'make [him] kill' (*'aqtil*) and **'uqi·t** for 'make [him] read' (*'aqri*).  
30

2. The particle of transitivity (*ḥarf at-ta'diya*) is obligatory (*yalzamu*) in all categories (*'aqsām*) of the verb, i.e. the imperative —as in the examples above— the past tense, e.g. **min·dur·dī**, the imperfect tense,

<sup>20</sup> Em. for VD 37'7 *'abika* 'your father'.

<sup>21</sup> The suffix *liq* here changes into *luq*, due to vowel assimilation.

e.g. **min·dur·ur** and the future tense, e.g. **min·dur·kay**. Sometimes the *d* is elided and only the *r* remains, but this is not the rule (*lā yanqās*). You say for instance ‘make [him] drink’ (<sup>ʔ</sup>*asqi*) **’iğ·ur** and ‘make [him] leave’ (<sup>ʔ</sup>*ahriğ*) **çiq·ar**. But **çiq·tur** is the regular form.

- 5        3. Sometimes words are made transitive with something other than **dur**. The speakers say **tur·ğuz** for ‘raise’ (<sup>ʔ</sup>*aqim*) and **kur·kuz** for ‘show’ (<sup>ʔ</sup>*arī*). For ‘drip’ (*naqqiğ*) they say **tam·zur** and for ‘suckle’ (<sup>ʔ</sup>*arđi*) they say **’am·zur**. You may also use **dur** with these verbs. <VD 37> The use of **dur** is the rule (*qiyās*). Thus you say **tur·dur**, **kur·dur**,  
10        **tam·dur** and **’am·dur**.

#### 14. Chapter on the consonant of the passive-reflexive form

1. The consonant of the passive-reflexive form (*al-muṭāwa‘a*) is a silent (*sākina*) *l*. You say **kas·dī** for ‘he cut’ (*qaṭa‘a*) and **kas·il·dī** for ‘he was cut’ (*inqaṭa‘a*). You say **’uz·dū** for ‘he split’ (*faşala*) and for ‘it was split’ (*infaşala*) you say **’uz·ul·dū**.  
15

2. If the verb consists of one consonant, e.g. ‘he broke’ (*kasara*) **si·dī**, in the passive-reflexive form a silent *n* is used instead of a *l*. Thus for ‘he was broken’ (*inkasara*) you say **si·n·dī**.

#### 15. Chapter on the consonant of the medio-passive form

1. The consonant of the medio-passive form (*ittiḥād*) is a silent *n*. You say **yaşta·dī** ‘he propped him up on a pillow’ (*wassadahu*) and **yaşta·n·dī** ‘he used it as a pillow’ (*tawassadahu*) i.e. ‘took it as a pillow’ (*ittahādahu wisādatan*). This is derived from their expression **yaştuq** which means ‘pillow’ (*wisāda*). An equivalent (*nażiruhu*) for this is **’urtū** ‘covering’ (*al-ğitā*). When the speaker intends to say ‘he covered’ (*ğatṭā*) he says **’urt·tī**. And when he means ‘he was covered’ (*tağatṭā*), he says **’urt·un·dī**. This is the rule in those words that accept medio-passivity. You say **ṭun** for ‘coat’ (*ṭawb*) and then you say **ṭun·nan·dī** ‘he got dressed’ (*taṭawwaba*) i.e. ‘he took a coat’ (*ittahāda ṭawban*), i.e. ‘he dressed himself’ (*iktasā*) <111>.  
20  
25  
30

#### 16. Chapter on the consonant of reciprocity

1. The consonant of reciprocity (*muşāraka*) is a silent *ş*, like the *ş* of the manner. You say **’ur·dī** for ‘he beat’ (*ḍaraba*) and **’ur·uş·dī** for ‘he fought’ (*taḍāraba*). In case of ‘he stabbed’ (*ta‘ana*) you say **şanğ·dī** and for ‘he battled [with someone]’ (*taṭā‘ana*) [you say] **şanğiş·tī**.  
35

Hence the expression **ṣanğış kun·ī** ‘day of the attack’ (*yawm aṭ-ṭaʿān*). In the imperfect tense you say **ʾuruš·ur** and in the future tense **ʾuruš·ğā**. If the verb is constructed for the passive form, the rule would demand that they say **ʾuruš·ul·dī** for ‘he was attacked’ (*tuḏūriba*) or **ṣanğ·uš·ul·dī** for ‘it was fought’ (*tuṭūʿina*), but neither one of these forms is actually used.

#### 17. Chapter on the consonant of the Imperfect Tense

1. <VD 38<sup>r</sup>> The consonant of the imperfect tense (*muḏāraʿa*) is a silent *r*, like they say **ṭur·ur** i.e. ‘he stands up’ (*yaqūm*), **kal·ur** i.e. ‘he comes’ (*yağīʿ*), **ya·r** i.e. ‘he eats’ (*yaʿkul*) and **si·r** ‘he breaks’ (*yaksir*).

2. One may also use **yi·y·ur** and **si·y·ur** as if the [speakers] strengthen the verb with an extra radical, when it consists of only one. They would say **yu·y·ur** ‘he washes’ (*yağsil*), but more often they say **yu·r**.

#### 18. Chapter on the consonant of the past tense

1. The consonant of the past tense (*maḏī*) is a *d* that is vocalised with an *i*, if the preceding consonant is vocalised with an *i* or an *a*. [Furthermore, the consonant of the past tense] is vocalised with an *u*, e.g. **ṭur·dū**, **ʾuṭtur·dū**, **bar·dī** and **bir·dī**. In Oğuz the *d* always receives an *i*. The *d* may be changed in a *ṭ* or a *t* because their place of articulation is near that of the *d*.

### IV

This is a chapter in which the consonants of addition and their places are dealt with, and [further] the consonant of substitution, the elision, the transfer of the vowel and the assimilation.

#### 19. Chapter on the addition

1. The elements indicating the addition (*ziyāda*) are divided into two categories (*ṣayʿān*). The first one is etymology (*ištiqāq*) and the second one morphology (*taṣrīf*). Etymology means the deduction of the derived form (*farʿ*) on the basis of the base form (*ʿaṣl*). Morphology means the deduction of the base form from the derived form. This will



become clear <112> when the places of addition are explained. The consonants of addition are *r, n, s, b, t, ġ, d, z, q, k, ġ, y, m, š, l* and *w*.

2a. A *r* is added to the verb in the case of the present tense (*fi'l ḥāl al-mudāri<sup>c</sup>*), like **kal-ur** ['he comes'] and **'al-ur** ['he takes'].

- 5 2b. The *r* is also added when a verb is derived from a noun e.g. [the noun] **qayġū** ['grief']. When you derive something from this noun, you say **qayġur-dī**; **balkū** ['shine'] **balkur-dī**; **'aq** ['white'] **'aġ-ar-dī**; **qizil** ['red'] **qizar-dī**; **yašil** ['green'] **yašar-dī**; **kuk** ['blue'] **kuk-ar-dī** <VD 38<sup>v</sup>> and **buz** ['grey'] **buz-ar-dī**. This is the general rule for the colours.

2c. A *r* is added preceded by a *l* in the plural. In the case of **'aṭ** ['horse'] you say **'aṭ-lar** and in the case of **'it** ['dog'] you say **'it-lar**. **Lar** is also attached in the adaptation of the verb to the plural (*nisba al-fi'l 'ilā l-ġam<sup>c</sup>*), e.g. **kal-dī-lar** ['they came'].

- 15 2d. A *r* is added with a *k* in **rak** and with a *q* in **raq**, as an indication of the superlative (*dālāla 'alā t-tafḍīl*), e.g. **yak** [vs. **yik-rak**] and **yaman** [vs. **yaman-raq**].

- 2e. A *r* is added preceded by a *d*. [Together they] form the particle **dur** which is used to express transitivity. [For example,] in the case of **min-dī** ['he drove'] you say **min-dur-dī** ['he let drive']. The *d* may be elided while the *r* remains; in the case of **'iġ** ['drink'] you say **'iġ-ur** ['make drink']. Its base form, though, is **'iġ-dur**.

- 3a. A silent *n* is added to express the medio-passive form (*ittiḥād*). In the case of **yašṭa-dī** ['he took as a cushion'] you say **yašṭa-n-dī** and in the case of **'urt-tī** ['he covered'] [you say] **urt-un-dī**.

- 3b. A *n* is added to the verb when it is constructed for the passive form (*mā lam yusamma fā'iluhu*), according to the detailed information that will be given in the appropriate chapter [see below Section 35]. In the case of **yi-dī** ['he ate'] you say **yi-n-dī** ['he was eaten'] and in the case of **šina-dī** ['he tested'] you say **šina-n-dī** ['he was tested']. The *n* is added likewise in the case of the passive participle (*maf'ul*) whose agent is not mentioned, e.g. **šina-n-miš**.

- 3c. A *n* is added in the case of the plural (*ġam<sup>c</sup>*) of **'ar** ['man']; in the case of 'I saw sensible men' (*ra'aytu riġālan 'uqalā<sup>2</sup>*) you say **'uṣlū** **'aran-lar kur-du-m** and similarly you say **'a-n-lar 'ar-an 'uṣlū-lar-dur**.

- 3d. A silent *n* is added preceded by a *k* that is vocalised with an *a* [i.e. **kan**]. This serves as an indication of the intensive form of the active participle (*dālāla 'alā l-mubālaġa fi sm al-fā'il*). The *n* is also added preceded by a *ġ* [i.e. **ġan**]. In that case you say **kal-akan** and **bar-aġan**.

An exception (*šadda*) [to this rule] is **kul·ağ**. The rule is **kul·akan**, which is also used (*sumi<sup>ʿ</sup>a*).

3e. A *n* is added together with these two [sc. **kan** and **ğan**] while the preceding consonant remains silent. This serves as an indication of both the active participle (*ism al-fāʿil*) and the passive participle (*ism al-mafʿūl*) in the meaning of the past tense used as a relative clause (*bi-ma<sup>ʿ</sup>nā al-maḍī mawṣūlan*). Thus you say **kal·kan** and **bar·ğan** ‘the coming’ (*al-ğāʿi*) and ‘the going’ (*ağ-dāhib*), i.e. ‘the one that came’ (*allaḍī ġāʿa*) and ‘the one that went’ (*allaḍī dahaba*), respectively. You say **dapala·n·kan**, i.e. ‘the one that was killed’ (*allaḍī qutila*); **ʾur·ul·ğan** i.e. ‘the one that was beaten’ (*allaḍī ḍuriba*) <VD 39ʿ> and **bir·il·kan** i.e. ‘that was given’ (*allaḍī ʾu<sup>ʿ</sup>tā*) respectively.

3f. A *n* is added with an *a*, when it is preceded by a *k* vocalised with an *i*. This serves as an indication of the diminutive. Thus in the case of **qul** you say **qul·kinā** and in the case of **ʾaṭ** you say **ʾaṭ·kinā**.

3g. In the circumstantial expression (*ḥāl*) a silent *n* is added preceded by a *b* vocalised with an *a* [sc. **-b·an**]. This will be dealt with in the Chapter on the circumstantial expression [see below Section 39].

3h. A silent *n* is added in the case of **tuqşan** [‘ninety’] and **saksan** [‘eighty’]. The base forms (*ʾaşl*) [of these words] are **tuquz** [‘nine’] and **sakiz** [‘eight’], respectively. <113> The *n* indicates multiplication (*taḍʿif*) of the number by ten since **tuquz** means ‘nine’ (*tis<sup>ʿ</sup>a*) and together with the *n*, it means ‘ninety’ (*tis<sup>ʿ</sup>in*). **Sakiz** means ‘eight’ (*tamāniya*); together with the *n* it means ‘eighty’ (*tamānīm*).

3i. A *n* is added in the case of **şamaş** [‘obstinate’] when they want to derive a verb from it. They say **şamaş·na·dī** for ‘he was obstinate’ (*lağğa*), in order to differentiate between the noun and the verbal stem (*fi<sup>ʿ</sup>l*).

4a. A silent *s* is added after **ğuş** and **ğuk**, the markers for the diminutive in Oğuz, in every biradical noun whose second consonant is silent. You say **qul·ğuşas** [‘little slave’] and **ʾit·ğukas** [‘doggie’].

4b. A *s* is added to the last consonant of an annexed noun [in the case of] a pronoun of the third person singular, when [the last consonant] of the noun carries a vowel, like **quğa·s·ī**, **ʾaṭa·s·ī**, **ʾulu·s·ī** and **qari·s·ī**.

4c. A *s* is added for the third person singular (*ğāʿib*) or plural (*ğāʿibin*) in the negative form of the verb of the present tense (*al-ḥāl al-manfi*), e.g. **kal·ma·s** [‘he will not come’] and **kal·ma·s·lar**. And also for the second person both in the singular (*al-muḥāṭab*) and plural (*al-muḥāṭabīn*), e.g. **kal·ma·s·san** [‘you [sg.] do not come’] and **kal·ma·s·siz** [‘you [pl.] do not come’]; and for the first person both in

the singular (*al-mutakallim*) and plural (*al-mutakallimīn*), e.g. **kal·ma·s man** ['I will not come'] and **kal·ma·s biz** ['we will not come'].

4d. A doubled *s* (*mušaddada*) is added and it is vocalised with an *a* preceded by a *m* vocalised with an *i* [i.e. **missā**]. An example of this is the use of **kaškā** when its predicate (*ḥabar*) is not a verb, e.g. **kaškā sanğar kul·ar·mis·sa i·dī** ['If Sanğar had only laughed'] and also **kaškā sanğar 'aw·dā·mis·sa 'i·dī** ['If Sanğar had only been at home'] and the equivalent (*murādif*) for 'if not' (*law lā*), like **sanğar daḵul·mis·sā sunqur ṭur·miš 'i·dī** ['If it had not been for Sanğar, Sunqur would have stood up'].

5a. A silent *b* is added as a general rule (*qiyāsan muṭṭaridan*) in the circumstantial expression (*al-ḥāl*), e.g. **ṣur·ub** ['asking']; **kal·ib** ['coming'] and **kir·ib** ['entering'].

The <sup>ʿ</sup>*alif* in *lā*, which is added to the last consonant of the verb to indicate the governance (<sup>ʿ</sup>*amal*), changes into a *y*. Thus you say **suz·la·y·ub** ['saying'] and **'ağ·la·y·ub** ['weeping']. It is permitted to elide (*ḥadḥ*) the <sup>ʿ</sup>*alif*, because of its clustering (*iltiqā'*) with <VD 39<sup>v</sup>> the silent *b*. Thus you say **suz·la·b** and **'ağ·la·b**.<sup>22</sup> We already referred to the addition of the *n* [to this form] in the Section on the *n* [see above Section 19.3g and below Section 39].

5b. A silent *b* is added, with repetition of the first consonant of the word, in the case of the colours. In the case of **ṣarī** ['yellow'] you say **ṣab·ṣarī** and in the case of **qizil** ['red'] you say **qib·qizil**. In the case of **kuk** ['blue'] you say **kub·kuk**. This indicates the intensive form of the adjective: 'violent yellow' (*aš-šadīd aš-ṣufra*), 'violent red' (*aš-šadīd al-ḥumra*) and 'violent blue' (*aš-šadīd az-zurqa*) respectively.

5c. The *b* is sometimes substituted by a *m*, but this will be dealt with, God willing, in the Chapter on the consonants of Substitution [see below Section 20].

6. A *t* is added as a general rule to indicate transitivity in those verbs, of which the last consonant carries a vowel. In the case of **dapala** ['kill!'] you say **dapala·t** ['make kill!'] and in the case of **yuri** ['walk!'] [you say] **yuri·t** ['make walk!'].

7a. An isolated *ğ* is added in the case of reference to an occupation (*nasab 'ilā ṣ-šan'a*). You say **'aš·ğī** ['cook'] and **yā·ğī** ['archer'] as an indication of the permanence of the adjective (*luzūm aš-ṣifa*), so that it becomes an occupation, e.g. **bar·iğī** ['much going'] and **kal·iğī** ['much coming']. The expression (*qawluhum*) **bil·kā** with a Bedouin *k* is an

<sup>22</sup> The argumentation can be represented as follows (" represents <sup>ʿ</sup>*alif*): /la"/ → /lay/; elision of /' / before *b*: /la"/ → /la"b/ → /lab/.

exception (*šādā*); the rule is **bil-ġi** and this has been dealt with in the Chapter on the Active Participle [see above Section 4].

7b. Exceptionally, a *ġ* is added in the case of **kul·aġ** [‘much laughing’] as an indication of the intensive form in the active participle.

5 7c. A *ġ* is added together with a *q* and a *k* in **ġuq** and **ġuk** in the case of the diminutive which has been discussed earlier [see above 1].

7d. With both consonants [sc. *q* and *k*] the *ġ* is used vocalised with an *a*, as a marker for the noun of place (*ism al-makān*), like <114> **kal·aġak** [‘place of coming’] and **ṭur·aġ·ġaq** [‘place of standing’].

10 7e. A *ġ* vocalised with an *i*, is added preceded by a *d* vocalised with an *a* [i.e. **-daġī**]. [We discussed this] in the Chapter on the Active Participle in the future tense [see above Section 4.1]. Thus you say **ʾul·daġī** [‘he will die’].

15 7f. A *ġ* is added together with an *a*, lengthened (*mušbaʿa*) by an *ʾalif* in **ʾaq·ġā**, **qarā·ġā** and **šarū·ġā** as an indication of the diminutive which also conveys tenderness (*taḥbīb*).

8a. An isolated *d* is added, vocalised with an *i* or an *u*, as an indication of the past tense of the verb e.g. **kal·dī** and **ṭur·dī**.

20 8b. A *d* is added together with another consonant as has been explained above in the paragraph about the addition [of the *d*]. It is added <VD 40ʳ> preceding a *ġ* which is vocalised with an *i* as an indication of the active participle in the future tense [, i.e. **daġī**].

8c. A *d* is added together with a silent *r* in **dur** which is used to express transitivity. Sometimes they change it into **tur**.

25 8d. When the *d* indicates the past tense, [it is substituted for either a] *ṭ* or *t* in some cases, although this is not the rule. We claim that the base form is a *d*, because most of what is used is with a *d*. It only occasionally occurs with *ṭ* or *t*. Frequency (*al-kaṭra*) is an indication that something is the base form (*al-ʾiṣāla*) and rare occurrence (*qilla*) is an indication that something is the secondary form (*al-farʿiyya*).

30 9. A silent *z* is added together with either a *ġ*, a *k* or a *r* to express transitivity in exceptional cases, e.g. **ṭur·ġuz** [‘make stand up’], **kur·kuz** [‘make see’], **ṭam·zur** [‘make drip’], and **ʾam·zur** [‘make suck’].

35 10a. The addition of the *q* has already been discussed in the case of **ġuq** and **ġaq**.

40 10b. A *q* is added together with a *l* that is vocalised with an *i* to indicate the destination (*al-ʾiḍād*), e.g. **yamā·liq** [‘patch for mending’]. It serves also as an indication of the ‘verbal noun’ of the nouns (*maʿnā al-mašdar min al-ʾasmāʾ*), like **bāliq·liq** and further as a corroborative

(*ta<sup>h</sup>kīdan*) after the marker for the verbal noun, like **bar·maq·liq** ['going'].

10c. A silent *q* is added preceded by a *m* that is vocalised with an *a*, to serve as an indication of the verbal noun, e.g. **bar·maq** ['going'].

5 10d. A silent *q* is added occasionally as an indication of the active participle, e.g....<sup>23</sup> and also as an indication of the passive participle, e.g. **'ağ·uq** ['open'].

10e. A *q* vocalised with an *u* is added to indicate the instrument, e.g. **biğ·qū** in the case of every verb that is pronounced velarised (*mufah<sup>h</sup>-ham*).

11a. A single *k* vocalised with an *u* is added as an indication for the instrument, e.g. **kasa·kū** and **bila·kū** in each word that is pronounced palatalised (*muraqqaq*). In exceptional cases it occurs silent, e.g. **'ala·k**.

15 11b. A silent *k* is added preceded by a *m* vocalised with an *a* to indicate to the verbal noun, e.g. **kal·mak**.

11c. A *k* is added preceded by a *l* as a corroborative of the verbal noun, like **kal·mak·lik**. It is also added to serve as an indication of the 'verbal root' of the nouns, e.g. **bay·lik**, or as an indication of the destination, e.g. **biti·lik**.

20 11d. A silent *k* is added preceded by a *ğ* that is vocalised with an *u* in **ğuk** to indicate the diminutive.

11e. A silent *k* is added preceded by a *ğ* vocalised with an *a* in **ğak** in the case of the noun of place.

25 11f. <VD 40<sup>v</sup>> A *k* vocalised with an *a* is added to indicate the intensive form of the active participle [, e.g. in **bil·kâ** 'wise'].

11g. A *k* vocalised with an *a* is also added in the cases of **kinā** and **yak·rak**, which already have been discussed.

30 11h. A *k*, vocalised with an *u* is added with the preceding consonant vocalised with an *a* to serve as a marker for a collective of numbers (*al-iğtimā<sup>f</sup> fi l-<sup>c</sup>adad*) e.g. **'ika·kū**,<sup>24</sup> **'iğa·kū**, **durd·a·kū**, **bış·a·kū**, **yida·kū**, i.e. 'the collection of two' (*al-<sup>h</sup>īnāni al-muğtami<sup>c</sup>āni*) <115>, 'the collection of three' (*aṭ-<sup>h</sup>alāṭa al-muğtami<sup>c</sup>a*); 'the collection of four' (*al-<sup>h</sup>arba<sup>c</sup>a al-muğtami<sup>c</sup>a*); 'the collection of five' (*al-ḥamsa al-muğtami<sup>c</sup>a*); 'the collection of seven' (*as-saba<sup>c</sup>a al-muğtami<sup>c</sup>a*) respectively. This form is not used with **sakiz**. The rule would demand **saksa·kū**. The *k* is also added in the case of **bira·kū**. Its meaning is the singular *par excellence* (*al-mufrad bi-dātihi*), as if it were a collective of singularity.

<sup>23</sup> The Turkic example expected here is missing. An example that would fit the description is **'uyan·uq** 'awake'.

<sup>24</sup> Em. for **'ilakuw**.

- 11i. A *k* is added after the verb of the past tense, followed by *ġā* [, hence *k·ġā*]. Between them [i.e. the verb and *k·ġā*] (*mutawassiṭan*) stands any pronoun that is implicitly (*yastakinnu*) attached to the verb. This construction indicates that the *k* is the equivalent (*turādif*) to the meaning ‘whenever’ (*mahmā*). The verb is preceded by *tayma* and this together gives the meaning of ‘whenever’ (*kullamā*), e.g. **tayma kaldu·k·ġā**<sup>25</sup> *ʾaġirlaġa·man* [‘Whenever I come, I show respect’] and **sanġar tayma kaldu·k·ġā** *ʾaġirlaġa·man* [‘Whenever Sanġar comes, I show respect’].
- 10 11j. A *k* is added together with a silent *l* as a corroborative element in the imperative form of verb in the second person singular (*fiʾl al-ʾamr li-l-muḥāṭab*), e.g. **kal·kil** and **kul·kil**.
- 11k. A *k* is added in **supur·kā**, which is derived from **supur**.
- 15 12a. A *ġ* is added exceptionally followed by a *z* in the case of [the particle of] transitivity, e.g. **ṭur·ġuz**.
- 12b. A silent *ġ* is added together with a *l*, vocalised with an *u* as a reference to something else than an occupation. You say e.g. **rūm·luġ**.
- 12c. A *ġ*, vocalised with an *a*, is added followed by a silent *n* [, hence **ġan**] as an indication (*dalāla*) of the intensive form of the active participle, e.g. **bar·aġan**. It is also added as an indication of the active participle and the passive participle as relative clauses (*mawṣūlayni*), e.g. **yarat·ġan** and **yaraldi·ġan**.
- 20 12d. A *ġ*, vocalised with an *u*, is added to indicate the meaning of the collective of the number. They say **ʾalṭa·ġū** and **ṭuqṣ·aġū** ‘the collection of six’ (*as-sitta al-muġtama<sup>ʿa</sup>*) and ‘the collection of nine’ (*at-tis<sup>ʿa</sup> al-muġtama<sup>ʿa</sup>*).
- 25 12e. A *ġ* is added together with a silent *l* as a corroborative element in the form of the imperative verb, <VD 41<sup>r</sup>> in the second person singular, e.g. **ṭur·ġul** and **bar·ġil**.
- 30 13a. A *m* is added with a silent *š* as an indication of the active participle in the past tense [, i.e. **miš**].
- 13b. A *m* is added in the case of **yattī** [‘seven’] and **ʾalṭī** [‘six’]; they would say **yatmiš** [‘seventy’] and **ʾalṭmiš** [‘sixty’] as an indication of the multiplication [of the number]<sup>26</sup> by ten.
- 35 13c. The addition of the *m* has been treated above in the paragraph about **maq** and **mak** in the case of the verbal noun; it is permitted to reduce these to a silent *m*.

<sup>25</sup> ʾAbū Ḥayyān here in detail describes the form given in İÜ, i.e. without *n* (as in *kinġā*).

<sup>26</sup> Addition from İÜ.

14a. The addition of the *š* has already been dealt with. A silent *š* is added without any other consonant as an indication of the mutual action (*tafāʿul*), as in **ʾur·uš·dī** and **saṅḡ·iš·tī**.

5 14b. A *š* is added to indicate the manner, e.g. **min·iš** and **ʾulṭur·uš** i.e. 'manner of riding' (*hayʾa ar-rukūb*) and 'manner of sitting' (*hayʾa al-quʿūd*), respectively.

14c. A *š* is added to indicate the intensive form of the verbal noun, e.g. **ʾur·uš** and [**ṭur·uš**].<sup>27</sup>

10 15a. The addition of the *l* with the *q* in **liq**, and with the *k* in **lik**, has already been discussed.

15b. A *l* vocalised with an *a* is added to the last consonant of the noun if you want to form a verb from that noun, e.g. **ʾutrūk·la·dī** ['he lied']; **ʾut·la·dī** ['he advised'] and **suz·la·dī** ['he said']. This is a general rule.

15 15c. A silent *l* is added as an indication that the verb is formed for the passive form (*bināʾ al-fiʿl li-l-mafʿūl*), e.g. **ʾur·ul·dī** ['he was beaten'] and **bar·il·dī** [pass. form of 'he went']. And also that it is formed for the passive participle, e.g. **ʾur·ul·miš** ['he was beaten']. And likewise are <116> **bar·il·miš**, **ʾur·ul·daḡī** and **bar·il·daḡī**. It [also] occurs  
20 in a relative participle when the perfect tense is meant, e.g. **bir·il·kān** and **ʾur·ul·ḡān** i.e. 'who was given' (*allaḡī ʾuʿṭā*) and 'who was beaten' (*allaḡī ḡuriba*), respectively.

15d. A *l* is added to the number which is preceded by the indicator of collectivity. The *l* is added vocalised with an *a* [i.e. **la**] when it is preceded by a silent consonant. This only occurs in the case of the annexation (*ʾidāfa*). If you annex to a third person, you attach the *s* to the *l* [i.e. **la·s·ī**]. Thus you say **ʾika·w·la·s·ī** i.e. 'both of them' (*kilāhumā*) and **ʾuḡ·aw·la·s·ī** i.e. 'all three of them' (*ṭalāṭuhum*). If you annex to a second person, you say **ʾika·w·la·ḡuz** i.e. 'both of you' (*kilākumā*) and  
30 **ʾuḡ·aw·la·ḡuz** i.e. 'the three of you' (*ṭalāṭatukumā*). If you annex to a first person, you say **ʾika·w·la·muz** 'both of us' (*kilānā*) and **ʾuḡ·aw·la·muz** <VD 41ʷ> 'the three of us' (*ṭalāṭatunā*) respectively. You use it in this way up to **sakiz**. We shall see whether it is used in the cases of **sakiz** ['eight'] and **ʾun** ['ten'], and whether it is attached to  
35 **sakiz** and to **ʾun** with the meaning 'a ten' (*ʿuṣra*). [We shall also see] whether this is used (*yuqāl*) in the case of the compound number (*murakkab*), the related number (*al-maʿṭuf*), the hundred and the thousand.

<sup>27</sup> Taken from IŪ (60ʷ1) as em. of ʾulṭuruš in VD.

- 16a. A *w* vocalised with an *u* is added if the preceding consonant is vocalised with an *a*. It serves as an indication to the collective of the number. They say ʾik·aw·u ‘collective of two’, etc.] ʾuġ·aw·u, durd·aw·a [sic], baš·aw·u, ʾalt·aw·u, yad·aw·u and tuqūš·aw·u. It is not used in the case of sakiz [‘eight’]; the rule would demand [saks·awū].<sup>28</sup> The *w* is added also in the case of bir·awu·wu; its meaning is the perfect singular (*al-munfarid bi-dātihi*). The indication of the collective of the numbers is not used with ʾun or with any number higher [than it]. [In those cases] no *w*, *k*, or *ġ* [is added].<sup>29</sup>
- 16b. A *w* is added in the case of čatla·wu·k [‘hazelnut’], since it is taken from čatla·dī i.e. ‘he made a cracking sound’ (*šawwata bi-farqa ʿa*).

## 20. Chapter on the [Phonological] Substitution

1. The [phonological] substitution (*badal*) is rare in this language and the letters it occurs with are few, i.e. *hamza*, *q*, *s*, *d*, *š*, *t*, *b* and *z*.
2. The *hamza* is substituted by a *b*; they say ʾabbāq [‘violent white’]; its base form is ʾab·ʾaq. The *hamza* is substituted for a *b* and assimilates with the *b*.
3. The *q* is substituted by a *ġ*; they say ʾaġar·dī, its base form is ʾaqar·dī because ʾaq means ‘white’ (*al-ʾabyaḍ*). They say buz·ġuš, its base form is buz·quš i.e. ‘white bird’ [lit. ‘grey bird’].
4. The *s* is substituted by a *š*, they say ʾuṭuṣiz.<sup>30</sup>
5. The *d* is substituted by a *t*, they say ʾišit·tur·dī [‘he made listen’]; its base form is ʾišit·dur·dī.
6. [The *š* is substituted by a *š*, they say bašmaq [‘shoe’]; its base form is bašmaq].<sup>31</sup>
- 7a. The *t* is substituted for a *d*, they say damur [‘iron’]; its base form being tamur. They say dutun [‘tobacco’], the base form of which is tutun. They say diz [‘knee’]; its base form is tiz. <117> They say dakā [‘he-goat’]; its base form is takā. They say dalū [‘mad’]; its base form is talū. They say dilkū [‘fox’]; its base form is tilkū and as for diltaq [‘reason’], its base form is <VD 42ʳ> tiltaq.
- 7b. The *t* is substituted by a *ṭ*; they say ṭuṭ·ṭī [‘he held’]; its base form is ṭuṭ·ṭī.

<sup>28</sup> Instead of VD saksakuw, ʾAbū Ḥayyān in fact describes the form given here. The final -u/-a in all forms can be explained as a possessive suffix.

<sup>29</sup> Em. of ʿayn.

<sup>30</sup> İÜ (61ʳ4) is not fully vocalised either: ʾṭṣuz.

<sup>31</sup> Addition from İÜ 61ʳ4.



9. The *b* is substituted by a *m*. They say **kum·kuk** ['violent blue'], whereas its base form is **kub·kuk**, and they say **yam·yašil** ['violent green']; its base form is **yab·yašil**.

5 10. The *z* is substituted by a *ş*, they say **tuqşan** ['ninety']; its base form is **tuqzan**.

## 21. Chapter on the elision

1. Elision (*ħadf*) is rare in this language and it is not a general rule (*yaṭṭarid*). The consonants that may be elided are: *d*, *y*, *r*, *hamza* and *q*.

10 2. The *d* is elided from **'iğ·dur** ['make drink']; **kağ·dur** ['make pass'] and **qayt·dur** ['to turn back']. They say **'iğ·ur**, **kağ·ur** and **qayt·ur**, respectively.

3. The *y* is elided from **'aykir** ['to twist']; they say **'akir**.

4. The *r* is elided from **birlā** ['with']; they say **bilā**.

15 5. The *hamza* is elided from **'uş** which is used to call attention (*at-tanbīh*). They say **şimdi** whereas its base form is **'imdī**; the *hamza's* vowel (*ħaraka*) [in the word] **'imdī** [sc. *i*] is transferred (*nuqilat*) to the silent consonant that precedes it, i.e. the *ş* [sc. in **'uş**] and then the *hamza* is elided.

6. The *q* is elided from **şığqan** ['mouse']; they say **şığan**.

20 22. Chapter on the transfer of the vowel

[There is no text here]

## 23. Chapter on the assimilation

25 1. Assimilation (*'idğām*) [occurs] both within the word (*kalima*) and between two words. Within one word it is very rare; it is only preserved in **'allī** which means 'fifty' (*al-ħamsīn*), and in **yaşşī**, which means 'a plate of iron or stone' (*aş-şafīh min ħadīd wa-ħağar*) and other materi-

## V [Syntax]

### 24. Chapter on the rules of construction

1. Speech is an utterance which indicates a syntactical relation (*qawl dāll* 'alā nisba 'isnādiyya). Its categories are the request (*ṭalab*), the predicate (*ḥabar*) and the originative sentence (*'inšā'*).

1a. The request is a request to do something or to refrain from something. An example of the first is **bar·gīl** 'go!' (*iḏhab*) and an example of the second is **bar·mā** 'don't go!' (*lā tadḥab*).

1b. An example of the predicate is **ṣaṅḡar ṭur·muš** 'Ṣaṅḡar is standing' (*ṣaṅḡar qa'im*).

1c. An example of the originative sentence is **ṣaṭ·ṭim** 'I have sold' (*bi'tu*). <118>

2. <VD 42<sup>v</sup>> Speech (*al-kalām*) is divided into two sentences; a nominal sentence (*ḡumla ismiyya*) and a verbal sentence (*ḡumla fi'liyya*).

2a. The nominal [sentence] is a compound of a topic and a predicate. The copulative verbs (*an-nawāsiḥ*) originate from [the nominal sentence]; these are 'i-dī and its sisters; **kaškā** and its sisters; and **ṣaḡan·dī** and its two sisters.

2b. The verbal sentence consists of a verb and an agent. The sentence that consists of a verb and an object whose agent is not mentioned originates from this.

3. The introduction<sup>32</sup> consists of the division of the noun into the undetermined word and the determined word on the one hand, and the division of the verb into the imperative form, the past tense, the imperfect tense and other forms [on the other].

### 25. Chapter on the undetermined and the determined word

1. The undetermined word (*nakira*) is a word that is used for a general reference (*mā wuḏi'a šāyi'an*). It is divided into two divisions: a simple word (*mufrad al-lafz*) and a compound one (*murakkab*).

2. The simple word is like 'ar ['man'] and 'at ['horse'].

<sup>32</sup> Instead of *at-taqaddum*, Caferoğlu proposes *li-nuqaddim*. We prefer reading as *wa-t-taqdīm*.

3. The compound word may either consist of two nouns, like **dawā quš**<sup>33</sup> for 'ostrich' (*na<sup>ʿ</sup>ām*), or of more than two, e.g. **qabarğuq lū bağā**<sup>34</sup> for 'turtle' (*sulahfā*); as opposed to undetermined words in the language of the Arabs, in which compound words basically do not exist.<sup>35</sup>

4. The determined word is a word that is used for a special reference (*mā wuđi<sup>ʿ</sup>a ḥāşşan*): the personal pronoun (*muđmar*), the proper name (*ʿalam*), the demonstrative pronoun (*ism<sup>ʿ</sup>işāra*), the relative (*mawşul*) and what is annexed to any of these (*muđāf*).

5. The personal pronoun occurs independently (*munfaşil*) and suffixed (*muttaşil*).

6. The independent pronoun for the singular of the first person is **man** and the plural of the first person **biz**. Its base form is **miz** with a *m*, to which **lar** may be attached to emphasise the plurality. The independent form for the second person singular is **san** and the plural of the second person **siz**. All of **man**, **miz**, **san** and **siz** occur both obligatorily (*ʿumdatan*) and optionally (*fađlatan*). The independent forms for the third person singular are **ʿul** and **ʿun**, and for the plural of the third person it is **ʿan·lar**.<sup>36</sup> Its base form is **ʿal·lar**, but the [first] *l* is substituted by a *n*. The *hamza* is vocalised with a *a*, because of the *a* of the *l* in **lar**. They do not take the silent *n* into account, since it is separative (*ḥāğiza*) rather than firm (*ḥaşin*) because it carries no vowel. It is pronounced in its base form, when the first *l* is elided; in that case they say **ʿu·lar**. In Oğuz they [usually] say **bu·lar**, substituting the *hamza* [in **ʿu·lar**] by a *b*.

7. The suffixed noun of the first person singular <VD 43<sup>r</sup>> to which something is annexed, is a silent *m*, e.g. **qul·um** 'my slave' (*ğulāmī*). For the second person singular to which something is annexed it is a silent post-palatal *n* (*nūn sākina ḥayşūmiyya*), e.g. **qul·un** 'your [sg.] slave' (*ğulāmuka*). [In the case of] the plural of the second person to which something is annexed, it is the same *n*, [i.e. the post-palatal *n*] together with a *z*, like in **qul·unuz** 'your [pl.] slave' (*ğulāmukum*). The

<sup>33</sup> Namely **dawā** 'camel' and **quš** 'bird'.

<sup>34</sup> Namely **qabarğuq** 'blister', **lū** 'owner', and **bağā** 'toad'. In the author's view **lū** is the equivalent of the Arabic *đu*, which is a noun (cf. 3.3. and 43.3.).

<sup>35</sup> Al-Ḥadīṭī (1966:182), quoting from the Cairo Ms (?), in addition has the following line: *wa-laysa fi t-turkiyya ʿadā miṭlu al li-t-tar ʿrif* "Turkic does not have a particle like the the definite particle *al*"

<sup>36</sup> ʿAbū Ḥayyān here clearly describes the form **ʿanlar**. In the printed text, however, it is spelled as **ʿunlar**. This difference may be due to a misreading by the copyist or by Caferoğlu.

way in which these personal pronouns are used will be dealt with—God willing—in numerous chapters to come.

8. The name is what is completely identical with its nominatum (*musammāhu*). It may be either simple, like **Sunqur** [‘falcon’] or a compound of two nouns, like **ʾAq·buḡā** [‘white bull’], or of a noun and a verb, like **ʾAy·duḡ·dī** [lit.: ‘the moon has arisen’]. [It may also be] improvised (*murtaḡal*), like **Qalāwūn**, or taken (*manqūl*) either from a noun, like **Lāḡīn** [‘falcon’], or from a verb, like **Buk·tī** [‘he bent’] and **Sanḡ·ar** [‘he stabs’].<sup>37</sup>

9. The demonstrative pronoun for a simple noun that is nearby is **bū**, with the meaning of ‘this’ (*dā*), and for the simple noun that is far away [it is] **ʾul**, for ‘that’ (*dāka*). This expression is identical with that of the personal pronoun with the meaning ‘he’ (*huwa*), which has been mentioned previously in the Section on the suffixed pronouns (*al-muḍmarāt*) [see above Section 25.6]. For the nearby plural it is **bu·lār**; and for the far away **ʾan·lar**. We have already mentioned that **ʾan·lar** is used for the plural of the third person of the pronouns. It has come to mean both <119> a pronoun with the meaning ‘they’ (*hum*) and a demonstrative pronoun with the meaning of ‘those’ (*ʾulāʾika*).

10. To the locative demonstrative pronouns belong **bun·dā** meaning ‘here’ (*hunā*) and **ʾan·dā** meaning ‘there’ (*hunāka*).

11. The relative has three expressions (*ʾalfāz*), depending on the relative clause, as it [sc. the relative clause] can be either a locative (*zarf*) or a sentence (*ḡumla*).

12. If the relative clause is a locative, the relative is a *k* vocalised with an *i* [sc. *ki*]. An example of this is **bū ʾaw·dā·ki·niḡ qul·ī·dur** ‘this is the slave of the one in the house’ (*hādā ḡulāmu l-laḡī fi d-dāri*) and **bū ʾaw·dā·ki·lār·niḡ qul·ī·dur** ‘this is the slave of the ones in the house’ (*hādā ḡulāmu l-laḡīna fi d-dāri*).

13. If [the relative clause] is a sentence, it can be either nominal or verbal.

14. <VD 43<sup>v</sup>> If it is nominal, the singular relative is **ʾul kīm quḡa·s·ī kurk·lū·dur ʾaw·dā·dur**, ‘the one whose master is good is in the house’ (*allaḡī sayyiduhu ḡasan fi d-dāri*); and the plural [form] is

<sup>37</sup> These names are probably not randomly chosen. They may refer to contemporaries of Abū Ḥayyān, e.g., Sultān Qalāwūn, al-Malik al-Manṣūr, Mamlūk ruler of Turkic origin (r. 678/1279-689/1290); Sultān Lāḡīn, al-Malik al-Manṣūr Ḥusām ad-Dīn, slave of Qalawūn’s (d. 698/1299), Probably Sanḡar ad-Dawādārī (d. 699/1299-1300) cf. Haarmann 1988:97ff.). It is more difficult to determine who the name Sunqur may refer to; Sunqur al-Bursuqī, Qāsim ad-Dawla (d. 507/1113) may be a candidate, although he can hardly be considered a contemporary of ʾAbū Ḥayyān’s (cf. also Part One, II note 32).

**ʾan-lar kim qul-lar-i**<sup>38</sup> **kurk-lū-dur ʾaw-dā-dur** [‘those whose slaves are good are in the house’].

15. If it is verbal, it can be either in the past tense or in the future tense.

5 16. If it is in the past tense, the relative is **ġan**, which is attached to the last consonant of the verb when it is pronounced velarised. It is **kan** when [the last consonant of the verb] is pronounced palatalised. You say **kur-du-m san-i ʾur-ġan-i** ‘I saw the one that hit you [sg.]’, **yarat-ġan** ‘the one that created’ (*allađi ħalaqa*); and **kal-kān** ‘the one that came’ (*allađi ġāʾa*). It is permitted to use a verb in the past tense after **ʾul kim** [‘the one that’] and **ʾan-lār kim** [‘the ones that’], e.g. **ʾan-lār kim ʾur-di-lār ʾaw-dā** ‘the ones that stood up are in the house’ (*allađina qāmū fi d-dāri*).

15 17. If [the relative clause] is in the future tense, the relative is **ʾul kim** and **ʾan-lār kim**, which depends on the meaning you intend. The condition of the relative is that it is either a predicative sentence, a locative or a word in the genitive case. Examples of this have been shown previously.

20 18. When the relative is a *k* vocalised with an *i*, the relative clause can only be a locative or a word in the genitive case (*maġrūran*). It is necessary to place the relative clause before [**ki**]. In the case of other relatives [than **ki**], the relative clause must follow, whether it is a sentence or something else. One example of a sentence has already been given. Examples of the genitive particle (*ġārr*) and a word in the genitive case (*maġrūr*) are **ʾan-lar kim ʾaw-da-dur kurk-lū lar-dur** ‘the ones in the house are good’ (*allađina fi d-dāri ħisān*) and **ʾan lar kim ʾal-niġ dā-dur baġ-lar dur** ‘the ones in front of you [sg.] are chiefs’ (*allađina ʾamāmaka ʾumarā*).<sup>39</sup> It is possible to separate (*tafṣīl*) **ʾul-kim** and **ʾan-lar-kim** from their relative clauses with the object. For instance, you say **ʾul kim sanġar-ni ʾur-dī kal-dī** ‘the one that hit Sanġar came’ (*allađi ɖaraba sanġar ġāʾa*).

35 19. The conditional sentence may occur (*taqiʿ*) as a clause to the relative. Thus you say **kal-dī ʾul kim kur-sa-ŋ saw-ka-san** ‘the one you [sg.] would love if you saw [him] came’ (*ġāʾa llađi ʾin <VD 44ʿ> raʾayta ʾaġbabta*). **Sā** is the conditional particle (*ʾadā aš-šarṭ*) and the *ŋ* is the pronoun of the second person.

20. The annexed (*muḏāf*). The annexation sometimes occurs with a personal pronoun, e.g. **qul-um, qul-umuz, qul-uŋ, qul-uŋuz qul-i**

<sup>38</sup> Em. for **qullar**.

<sup>39</sup> In these phrases **dā** is considered the equivalent of *fi*, a particle that governs the genitive case.

and **qul·lar·ī**. <120> This will be dealt with in the Chapter on the annexation [see below Section 51]. The last consonant of a word you annex to a third person is necessarily either silent, in which case you vocalise it with an *i*, as in **qul·ī** ‘his slave’ (*mamlūkuhu*), or vocalised, in which case a *s*, vocalised with an *i*, is attached to it, as in **quḡā·s·ī**, **qarī·s·ī** and **ʾulwa·s·ī** ‘his master’ (*sayyiduhu*), ‘his grandfather’ (*ʿaḡūzuhu*) and ‘his lord’ (*ʿaḡīmuhu*), respectively. Sometimes you annex something to a proper name, like **sunqur qul·ī** [‘Sunqur’s slave’], or to something which is demonstrated, like **bu·nuḡ qul·ī** [‘this one’s slave’], or to a relative: **kim·niḡ qul·ī** [‘whose slave’]. The manner of the annexation will be treated later—God willing.

21. In this language there is no particle to determine the undetermined word as in Arabic; however, when the noun is considered to be understood by the interlocutors, they confine themselves to mentioning it as an undetermined noun, trusting the understanding of the interlocutors. They do not use **ʾul** before it. The prevalent custom in their language is that they use the expression for both the personal pronoun of the third person and the demonstrative pronoun, which is **ʾul**. [For example,] when there is an agreement about a fish between you and a second person, you say with the meaning ‘the fish is moist’ (*as-samak ṭarī*) **ʾul baluq yaš·dur** and with the meaning ‘the fishes are moist’ (*al-ʾasmāk ṭarīya*) you say **ʾul baliq·lār yaš·dur**. It is permitted to say **yaš·lār·dur**.

## 26. Chapter on the verb

25 1. The verb is divided into three categories: the imperative form, the past tense and the imperfect tense.

2. The imperative form is the base form. The past tense, the imperfect tense, the active participle, the verbal noun, the action, the noun of place, and the instrument are all separate branches and they all derive from the imperative form. The imperative form is intended for either a third person, a second person or a first person.

3. If the imperative is intended for a third person it must <VD 44<sup>v</sup>> contain the consonants of the imperative, like **saḡar kal·sun** ‘Saḡar must come’ (*saḡar li-yaḡī*) and in the case of the plural of the third person, like **saḡar kal·sun·lār** ‘they must come’ (*li-yaḡīʾū*). **Sun**<sup>40</sup> is the particle of the imperative, the equivalent (*naḡīr*) to the *l* of the imperative in Arabic [cf. the preceding examples].

<sup>40</sup> In Caferoḡlu’s edition the final consonant is a *kāf* with three dots. İÜ reads **sun**.

4. If it is used for a second person, it is either singular or not. If it is singular, the most correct use is the imperative of the verb without any addition. But it is permitted to add **ġil** or **kil**, with a Bedouin *k*, as a pausal form. If the word is pronounced velarised, you use **ġil**; if it is pronounced palatalised, you use **kil**. The use of velarisation and palatalisation is determined by what is actually heard. We already analysed this in 'The Book of the Verbs' (*Kitāb al-ʿafʿāl*) that we compiled about this language. If the first consonant of the imperative form is vocalised with an *u*, then the penultimate consonant [sc. **ġ** resp. **k**] is vocalised with an *u* too, except if there is a *a* in the verb. Examples of this are **ṭur·ġul**, **kul kul**, **kustar kil** and **ʿur·ġul** ['stand up!', 'laugh!', 'show it!' and 'hit!']. If [the final consonant] is vocalised with an *a* or an *i*, [then] the penultimate consonant <121> is vocalised with an *i*, except if there is a *u* in the verb. Examples of this are **bar·ġil** ['go!']<sup>41</sup> **ʾiṣit·kil** ['listen!'], and **tak·tur·ġil** ['make plant!'].<sup>42</sup>

5. If the imperative is not a singular, you add a single *n*; thus you say **ṭur·uṅ**. If you wish, you may add a *z*. The *z* reflects a feeling of respect (*taʿzīm*), e.g. you say **ṭur·uṅ·uz**; the *z* is the remainder (*baqiya*) of **siz**. It is permitted to use **siz**, you say **ṭur·uṅ·siz**. **Siz** is used as a corroborative form.

6. If it is for a first person, it is either singular or not. If it is singular, you say **bar·ġā·y·im** and **kal·kā·y·im** 'I must go' (*li-ʿadhaba*) and 'I must come' (*li-ʿaġiʿa*). If it is not singular, you say **bar·ġā·lim** and **kal·kā·lim** 'we must go' (*li-naḏhaba*) and 'we must come' (*li-naġiʿa*). The imperative of the first person singular is very rare in Arabic but in this language it is very frequent.

7. As for the past tense and the imperfect tense, in the part about the morphology <VD 45ʿ> we have already discussed their special features and their distinctive markers. The consonant that precedes the *r*, which is a marker for the imperfect tense, is either vocalised or silent. If it is vocalised, you add the *r* and the vowel undergoes no change. If it is silent, you vocalise [the consonant before the *r*] with either an *u* or an *a* [, hence **ar/ur**]. The criterion is the actual use, as we have explained in *The Book of the Verbs*.

8. This is the case as far as the verbs that do not end in **lā**<sup>43</sup> are concerned, which serves to indicate governance (*ʿiʿmāl*), since in that case

<sup>41</sup> Em. for **ġal**.

<sup>42</sup> Surprisingly, this front verb has a back suffix. This must be a mistake.

<sup>43</sup> As explained by Abū Ḥayyān, Turkic verbs ending in **lā** are usually derived from nouns. In Standard Arabic the derivation of verbs from nouns rarely occurs, since most verbs can be related to a verbal root.

the *ʾalif* changes into a *y* vocalised with an *u*. You say **suz·lā·yur** [‘he speaks’] and **baš·lā·yur** [‘he begins’]. It is permitted to elided the *y*. In that case you say **suz·lā·r** and **baš·lā·r**, [although] the base form [includes] the *y*.<sup>44</sup>

- 5 9. As to the future tense that is used as a predicate,<sup>45</sup> if it is pronounced velarised its particle is a *ġ* vocalised with an *a*, e.g. **ṭur·ġā** ‘he will stand up’ (*sa-yaqūmu*). If it is pronounced palatalised, its particle is a *k* vocalised with an *a*, like **kal·kā** ‘he will come’ (*sayaġī*). We shall —God willing— discuss the verbs in the Chapter on the Verb and its Agent [see below Section 32] as far as affirmation (*ʾiṭbāt*), negation (*nafy*), interrogative (*istifhām*) and prohibition (*nahy*) are concerned.

10 10. The verbs are also divided into inflected verbs (*mutaṣarriḥa*) and non-inflected verbs (*ġāmida*).

- 15 11. The inflected verb is [the verb] of which the form differs according to the difference in tense (*zamān*), like **ṭur** [‘stand up!'], **ṭur·ur** [‘he stands up’], **ṭur·ġā** [‘he will stand up’] and **ṭur·dī** [‘he stood up’].

- 20 12. The non-inflected verb is the verb that has only one form, like **ʾi·dī** with the meaning ‘he was’ (*kāna*). Neither the imperative form nor the imperfect tense of this verb is used. If it means ‘he sent’ (*ʾarsala*), it is inflected and an imperative form of it may be used. In that case they say **ʾi·bu·nī**<sup>46</sup> ‘send this’ (*ʾarsal hādā*). So **ʾi·dī**<sup>47</sup> has both the meaning of ‘he was’ (*kāna*) and the meaning of ‘he sent’ (*ʾarsala*). And in the same way **daḡul**, with the meaning ‘he is not’ (*laysa*), is not inflected in their speech (*kalām*). This will —God willing— be explained in the Chapter on **ʾi·dī** and its Sisters [see below Section 28].

- 30 13. [The verbs are] also divided into intransitive and transitive verbs. The intransitive verb, for example, is **ṭur**. The transitive [verb] is divided into two divisions: transitive to <122> a proper object (*mafʿūl ṣarīḥ*) and transitive to an improper object (*mafʿūl ġayr ṣarīḥ*). The transitive [verb] is [further] divided into transitive to one object, <VD 45<sup>v</sup>> transitive to two objects and transitive to three objects; we will deal with this later.

<sup>44</sup> See above n. 21.

<sup>45</sup> To be distinguished from the active participle for the future **daġī**.

<sup>46</sup> Initial **d** has probably been elided from this word, the original form being **/id·bu·niy/**

<sup>47</sup> Em. for **vd i·dī**.



## 27. Chapter on the topic and the predicate

1. First you mention the topic (*mubtada'*) and you put the predicate (*ḥabar*) after it. Thus you say **sanğar ṭur·ub·ṭur** 'Sanğar is standing' (*sanğar qāyim*) and **sanğar ṭur·tağī·dur** 'Sanğar will be standing tomorrow' (*sanğar qāyim ġaddan*). It is also permitted to say **ṭur·ub·an·ṭur** or **ṭur·miš·dur**. If the predicate is compared with the topic, you say **sanğar 'arslān·dur** i.e. 'Sanğar is a lion' (*sanğar 'asadun*).

5

2. If [the predicate] is a locative of place (*zarf makān*) you say **sanğar 'aw·da·dur** 'Sanğar is in the house' (*sanğar fi d-dāri*), and **sanğar 'ard·iñ·da·dur** 'Sanğar is behind you [sg.]' (*sanğar ḥalfaka*). The locative of place can only occur with the particle that is equivalent (*murādif*) to 'in' (*fi*), in the sense of containing something, namely **dā**.

10

3. If [the predicate] is a locative of time (*zarf zamān*), in some cases the particle [that expresses the sense] of containing something (*ḥarf al-wi'ā'*) does not occur, such as **şaŋğış bu·kun·dur** 'the fight is today' (*aṭ-ṭa 'ān al-yawma*) and **qunuq·luq bu·dun·dur** 'the visit is tonight' (*aḍ-ḍiyāfa al-layla*). In other cases, the particle [that expresses the sense] of containing something does occur,<sup>48</sup> like **şaŋğış ṭaṇ·da·dur** i.e. 'the fight is tomorrow' (*aṭ-ṭa 'ān ġaddan*). In all these [sentences] **dur** is used as a corroborative element. It is customary to use this corroborative element and not to elide it.

15

20

4. If the predicate is a sentence, you say **sanğar 'aṭa·s·ī ṭur·dī** i.e. 'Sanğar's father is standing' (*'abū sanğar qāyim*) and **sanğar 'aṭa·s·ī ṭur·ub·ṭur** 'Sanğar's father is standing' (*'abū sanğar qāyim*). It is permitted to elide the predicate because it is implied by the meaning [of the sentence]. They say **'armağan**, meaning **qanī** i.e. 'the present, where [is it]' (*al-ḥadiya 'ayna*).

25

5. If the predicate is an interrogative noun, it is permitted in this language to put it either at the beginning or at the end of the sentence, and this is the principle. Thus you say **sanğar qanī** ['where is Sanğar?'] and **qanī sanğar**.

30

6. Similarly, if the topic is a noun, it is permitted to put it before or after the predicate. You say **kim·dur 'aw·dā** 'who is in the house' (*man fi d-dāri*) and **'aw·da kim·dur** 'in the house is who' (*fi d-dāri man*).<sup>49</sup>

35

7. If the topic is a conditional noun (*ism šarṭ*), it is necessary to put it at the head. Thus you say **kim ṭur·sā ṭur·ğā·man 'a·niñ bilā** 'whoever will stand up, I'll stand up with him' <VD 46'> (*man yaqum*

<sup>48</sup> *Mā ya'tī bi-l-ḥarfem. of mā lā ya'tī bi-l-ḥarf.*

<sup>49</sup> The Arabic sentence is not as ungrammatical as its English translation may seem.

ʾaqum ma<sup>ʿ</sup>ahu). **Kim** is used both as an interrogative [noun] (*istiḥām*) and as a [noun of] condition (*šarṭ*).

8. If the topic is a relative, you say **ʾul kim ṭur-dī ṭur-du-m ʾa-niṅ bilā** ‘I stood up with the one that stood up’ (*allaḍī qāma qumtu ma<sup>ʿ</sup>ahu*). It is not permitted to put this topic at the end. **ʾUl kim** came to mean ‘the one that’ (*allaḍī*) and **ʾā-lār kim** ‘the ones that’ (*allaḍīna*). This has already been treated in [the Chapter on] the relative [see above Section Section 25.11]. The topic of a nominal clause may have more than one predicate. You mention the predicates one after the other and you put **dur** at the end. <123>

## 28. Chapter on the copulative verbs

1. [The copulative verbs (*an-nawāsiḥ*)] are **ʾi-dī** and its sisters. **ʾI-dī** conveys the meaning ‘he was’ (*kāna*), and **ḅul-dī** means ‘he became’ (*šāra*); **tuna-dī** means ‘he spent the night’ (*bāta*). **Daḅul** means ‘he is not’ (*laysa*)—this is with the Bedouin *k*. For the meaning of nearness in time you use **yaz-dī** in the sense of ‘he was about to’ (*kāda*) and **baš-la-dī** with the meanings ‘he started’ (*ʾanšaʾa*) and ‘he began’ (*ibtadaʾa*).

2. As for **ʾi-dī**, you say **sanḡar ʾurū-ṭur-ur ʾi-dī** with the meaning ‘Sanḡar was standing’ (*sanḡar kāna qāyiman*). It is permitted to say **ʾurū-ṭur-miš ʾi-dī**. The meaning of **ʾurū** is ‘upright’ (*muntāṣib*) and **ṭur-ur** is a verb with the form of the present tense (*fiʿl ḥālī*). The meaning of **ṭur-miš** is ‘standing’ (*qāyim*). It is also permitted to say **sanḡar ṭur-miš ʾi-dī**, but in the sentences mentioned here **ʾurū** is used, since **ṭur-miš** means both ‘he stood’ (*waqafa*) and ‘he stood up’ (*qāma*). If they want to make clear [that its meaning is] ‘he stood up’ (*qāma*), **ʾurū** is used with **ṭur-miš**, which is an indication of being upright (*intiṣāb*). This is how they use **ṭuraq-iṅ qanī** ‘where is your [sg.] place of standing up’ (*ʾayna maqāmuka*) and ‘your [sg.] standing-place’ (*mawqifuka*). If you mean ‘I was standing’ (*kuntu qāyiman*), you say **ʾuru-ṭur-ur ʾi-dī-m** and **ʾurū-ṭur-miš ʾi-du-m**; ‘you [sg.] were standing’ (*kunta qāyiman*) **ʾi-dī-ṅ** with the post-palatal *n*; ‘they were standing’ (*kānū qāyimīn*) **ʾurū ṭur-ur-lār ʾi-dī** and **ʾurū ṭur-miš ʾi-dī** ‘you [pl.] were standing’ (*kuntum qāyimīn*) **ʾurū ṭur-miš ʾi-dī-ṅiz**. The personal pronoun of the second person is attached to the verb [i.e. **ʾid-iṅ**]; the marker of the plural is not attached to the predicate, except [in the case of] the third person (*bi-ḥilāf al-ḡayba*). The marker of the plural <VD 46ʷ> is attached to the predicate and not to the verb. The verb remains as it is in the third person singular.

3a. If the predicate is an interrogative noun, you say **sanğar qaydā 'iđi** with the meaning ['where was Sanğar'].<sup>50</sup>

3b. ...the difference was dealt with in what we said about the singular noun. For 'when did you [sg.] become <124a> wise' (*matā şirta 'aliman*) you say **qağan ɓul·du·ŋ bilkā** and [for] '[when] did you [sg.] become wise' (*[matā] şirtum 'ulamā'*) you say **qağan ɓul·du·ŋuz bil·kā·lar**. And it is permitted [to say] **bilka·lar qağan ɓul·du·ŋuz** ['When did you [pl.] become wise'] and also what is similar to it. With the meaning 'where did you [sg.] become' (*'ayna şirta*) you say **qaydā ɓul·du·ŋ**.<sup>51</sup> It is not permitted [to say] **ɓul·du·ŋ qay·dā**. <125a>

4. With the meaning 'who became the one that was standing up' [you say] (*man şāra l-qā'im*) **kim ɓul·dī ɗur·ğān** and it is permitted to say **ɗur·ğān kim·ɓul·dī**. For 'who became the ones that were standing up' (*man şārū al-qāyimīn*) you say **ɗur·ğān·lar kim ɓul·dī·lār**. The marker of the plural is attached to the verb, unlike 'i·đi, to which it is not attached.

5. For 'whoever become the standing one, I will love him' (*man şāra l-qāyim 'uhibbuhu*) you say **kim ɓul·sā<sup>52</sup> ɗur·ğān saw·ka·man 'ānī**. **Kim** means 'who' (*man*), **ɓul** is the verb and **sā** is the consonant of the particle of condition (*'adā aš-şart*). They do not have a noun that includes the meaning of the particle of condition. When they mean the condition they use the conditional particle, attaching it to the verb, putting it after it. It is preceded by the noun. **ɗur·ğān** means 'the standing one' (*al-qāyim*) and **saw·kā** is the verb of the pure future tense (*fi'l al-mustaqbal al-ḥāliş*). In this construction the past tense by which the future tense is intended is not used, as it is in Arabic.<sup>53</sup> **Man** is the pronoun of the verb (*ḍamīr al-fi'l*) in 'I will love him' and **'ā·nī** is the pronoun of the direct object (*ḍamīr al-maf'ūl*) in 'I will love him' (*'uhibbuhu*).

6. In the case of the plural you say **kim·lar ɓul·sa·lar ɗur·ğān·lar saw·ka·man 'an·lar·nī** ['whoever be the standing ones, I will love them'] and with the meaning 'the people got leaving' (*an-nās şārū ḥāriğīn*) you say **kīşī·lar çiq·miş·lar ɓul·dī lar**. It is permitted [to say]

<sup>50</sup> After comparison with IÜ these paragraphs (which are here numbered 3-14) in VD should be re-arranged as follows: 9, 10, 11, 12, 13, 14, 3a-b, 4, 5, 6, 7, 8. The text in IÜ (Caferoğlu 124,11-125,5), indeed, has this sequence and therefore appears more coherent. The difference between the two texts is probably due to a copyist's misplacement of one folio of the autograph.

<sup>51</sup> In his attempt to adhere to a consistent translation of **ɓulduŋ**, Abū Ḥayyān may not be right in this case. The meaning of the Turkic sentence is rather 'where were you [sg.]'.

<sup>52</sup> Em. for **bil·sa**.

<sup>53</sup> Em. *al-murā bihi* for *al-murād bihi*.

**ḅul·dī lar čiq·miš·lar kišilar.**<sup>54</sup> ‘He became’ (*šāra*) is mostly used in connection with generic nouns (*ʾasmāʾ al-ʾaḡnās*) and with attributes that are used in the same way (*šifāt*) but not in combination with unstable attributes (*šifāt muʿaraḍa*). Analogy determines what is permitted.

5

7. With regard to the use of **tuna·dī**; for ‘Sanğar spent the night laughing’ (*bāta sanğar ḍāḥikan*) you say <VD 47ʿ> **sanğar kul·ā tuna·dī** and for ‘where did you [sg.] spend the night’ (*ʾayna bitta*) you say **qan·dā tuna·dī·ŋ**. The status (*ḥukm*) of **tuna·dī** is exactly the same as the status of **ḅul·dī**.

10

8. **Daḡul** is a word that conveys both the meaning ‘is not’ (*laysa*) and the meaning of the negation *mā*. If you mean ‘Sanğar is not leaving’ (*laysa sanğar ḥāriğan*), you say **sanğar čiq·miš daḡul** with this meaning and for ‘people are not leaving’ (*an-nās laysū ḥāriğin*) you say **kiši·lar čiq·miš daḡul·lar**. For ‘I am not leaving’ (*lastu ḥāriğan*) you say **čiq·miš daḡul man**. For ‘we are not leaving’ (*lasnā ḥāriğin*) you say **čiq·miš·lar daḡul·biz**. If **daḡul** means ‘he is not’ (*laysa*), you attach the marker of the plural which is attached to the verbs. If **daḡul** means ‘not’ (*mā*), it is not attached. For ‘you [sg.] are not leaving’ (*lasta ḥāriğan*) you say [...].

15

20

9. For ‘where was Sanğar’ (*ʾayna kāna sanğar*) you say **sanğar qaydā ʾi·dī** and **qaydā ʾi·di·ŋ** for ‘where were you [sg.]’ (*ʾayna kunta*). It is not permitted to put **qaydah** [sic] after the verb. For ‘when was the fight’ (*matā kāna ṭ-ṭaʾānu*) you say **šanğiš qağan ʾi·dī**. The verb may not precede **qağan** <126>. Neither **sanğar** nor **šanğiš** in the two preceding examples may be put after the verb. Thus you say **qaydā ʾi·dī sanğar** [‘where was Sanğar’] and **qağan ʾi·dī šanğiš** [‘when was the fight’]. The same applies to those constructions that resemble these two.

25

30

10. For ‘who was the standing one’ (*man kāna l-qāʾim*) you say **ṭur·ğan kim ʾi·dī**. It is permitted to say **kim ʾi·dī ṭur·ğan**, which means ‘who was the one that stood up’ (*man kāna llaḍī qāma*). For ‘who were the standing ones’ (*man kānū l-qāʾimīn*) you say **ṭur·ğan·lar kim ʾi·dī·lar**. It is permitted to say **kim·lar ʾi·dī·lar ṭur·ğan·lar**. In the case of ‘the people were leaving’ (*an-nās kānū qāyimīn*) you say **čiq·miš·lar ʾi·dī kiši·lar**; it is permitted to say **kiši·lar čiq·miš·lar ʾi·dī·lar**.

35

11. If you negate **ʾi·dī** and then affirm it, for ‘Sanğar was nothing but standing’ (*mā kāna sanğar ʾillā qāyiman*) you would say **sanğar**

<sup>54</sup> Em. for **kiški**.

**daḡul·dī makar ʔur·miš.** The base form is with **ʔi·dī**, i.e. ‘he didn’t be’ (*laysa kāna*) with the meaning of ‘he was not’ (*mā kāna*). It will be shown later that **daḡul** can be used in two ways. You say for ‘Sanğar will not be but standing’ (*mā yakūnu sanğar ʔillā qāyiman*)<sup>55</sup> **sanğar ʔul·ma·ğā makar ʔur·miš.** <VD 47’> In this construction ‘he does not become’ (*mā yaşiru*) [sc. **ʔul·ma·ğā**] is used for ‘he is not’ (*mā yakūnu*), because **ʔi·dī** has no imperfect tense.

12. **ʔul·dī** is pronounced with velarisation of the *b*. For ‘Sanğar became wise’ (*şāra sanğar ʔāliman*) you say **sanğar bilḡā ʔul·dī**. It is also permitted to say **ʔul·dī bilḡā sanğar**. **ʔul·dī** may be put at the beginning [of the sentence], at the end or in the middle, unlike **ʔi·dī**, since its predicate does not come at the end [of the sentence], e.g. **\*ʔi·dī ʔurū ʔurur**. **ʔi·dī** must always be suffixed to the noun, for example **kim ʔi·dī ʔur·ğan** [‘who was the one that stood up’] or to the predicate, e.g. **ʔurū ʔurur ʔi·dī** [‘he was standing upright’]. For ‘you [sg.] became wise’ (*şirta ʔāliman*) you say **bilḡā ʔul·du·ŋ** and for ‘I became wise’ (*şirtu ʔāliman*) you say **bilḡā ʔul·du·m**. It is also permitted to say **ʔul·du·m bilḡā**.

13. A distinction is made with respect to a generic noun used as a predicate, like ‘judge’ (*al-qāḏī*) or ‘chief’ (*al-ʔamīr*) or ‘minister’ (*al-wazīr*). In that case they allow it to be put either at the beginning or at the end. However, if the predicate is an unstable adjective (*şifa ʔarīḏa*), like ‘standing’ (*al-qāyim*) or ‘sitting’ (*al-qāʔid*), in their speech it is almost solely preserved with the adjective preceding the verb. Thus you say **ʔur·ur ʔul·du·ŋ** [‘you [sg.] were standing up’]. The same applies to adjectives like ‘black’ (*al-ʔaswad*), ‘blue’ (*al-ʔazraq*) and ‘long’ (*aḡ-ḡawīl*) and the like, which may stand at both the beginning and at the end, unlike unstable adjectives.

14. With the meaning ‘you [pl.] became wise’ (*şirtum ʔulamāʔ*) you say **ʔul·du·ŋuz bilḡā·lar**. With the meaning ‘you [pl.] became standing up’ (*şirtum qāyimīn*) you say **ʔur·ur·lar ʔul·du·ŋuz**.<sup>56</sup> According to...

15. ... **ćiq·miš daḡul·san** [‘you [sg.] are not leaving’], and for ‘you [pl.] are not leaving’ (*lastum ḡarīğīn*) **ćiq·miš·lar daḡul·lar·siz** and **ćiq·miš·lar daḡul·siz** and **ćiq·miš daḡul·siz**. [These two sentences] both mean the same, i.e. that the meaning of **daḡul** can be both ‘he is not’ (*laysa*) and ‘not’ (*mā*). As a rule, neither the predicate nor the preceding noun is put after **daḡul**. Likewise, the predicate does not precede the noun.

<sup>55</sup> This sentence conveys the meaning of the future tense as intended by Abū Ḥayyān.

<sup>56</sup> Here some text is missing.

16. If you wish to affirm the predicate of **daḳul**, you say for ‘Sanğar is only a chief’ (*laysa sanğar ʾillā ʾamīran*)<sup>57</sup> **sanğar daḳul·dur makar baḳ**. **Makar**, which has the meaning of ‘except’ (*ʾilla*), is taken from the Persian and is used by the Oğuz. With the meaning <VD 48ʹ> ‘I  
5 [will] not come to you [sg.] but tomorrow’ (*ʾanā mā ʾāṭika ʾillā ġadd-an*) you say **man kal·ma·s·man sa·ğā makar ʧaŋ·dā**. <127> **Kal** is the verb, and **mā** is the particle of negation; the *s* is put there for the negation of the present tense (*al-ḥāl al-manfi*) and **man** means ‘I’. The literal meaning of **kal·ma·s** is ‘comes not I’ (*mā yağīʿu ʾanā*), which is  
10 a manner of expressing ‘I do not come’ (*mā ʾağīʿu*) in Arabic. As far as **sağā** [‘to you’] is concerned, its base form is **şaŋ·ğā** from which the *n* was elided because of the frequency of its use; the base form is used less often. **Ğā** has the meaning of ‘for’ (*al-lām*) and ‘to’ (*ʾilā*). **Makar** means ‘except’ (*ʾilla*), as has been said already, **ʧaŋ** means ‘morrow’  
15 (*al-ğad*) and **dā** ‘in’ (*fi*).

17. **Yaz·dī** has the meaning of ‘he was about to’ (*kāda*) and **başla·dī** has the meaning of ‘he started [to]’ (*ʾanşaʿa*). Thus for ‘Sanğar was about to stand up’ (*sanğar kāda yaqūmu*) you say **sanğar ʧur·a yaz·dī** and for ‘Sanğar is about to stand up’ (*sanğar yakādu yaqūmu*) you say  
20 **sanğar ʧur·a yaz·ar**. For ‘Sanğar started to stand up’ (*sanğar ʾanşaʿa yaqūmu*) you say **sanğar ʧur·ā başla·dī**. The predicate in these sentences [sc. **ʧur·ā**], only occurs in the form of the circumstantial expression (*ḥāl*). It does not occur with the form of the imperfect tense, nor the past tense. Moreover, **ʧur·ā** cannot precede **sanğar**. The base  
25 meaning of **yaz·dī** is ‘he made an error’ (*ʾaḥṭaʿa*), but it is used for ‘he was about to’ (*kāda*) and it may also have the meaning of ‘he wrote’ (*kataba*).

## 29. Chapter on **kaşkā** and its sisters<sup>58</sup>

1. The meaning of **kaşkā** is ‘would that’ (*layta*). It [sc. **kaşkā**] is syn-  
30 onymous (*murādif*) with it [sc. *layta*], being taken from the Persian. You say ‘would that Sanğar [were] laughing’ (*layta sanğar ḍāḥikan*) **kaşkā sanğar kul·ar·mis·sā yi·dī**. **Kaşkā** has the meaning ‘would that’; **kul·ar** means ‘he laughs’ (*yaḍḥaku*), [expressing] the meaning ‘laughing’ (*ḍāḥik*). **Mis·sa** is a word that emphasises (*tuʾakkid*) the  
35 meaning of **kaşkā** and it is not permitted to elide it. **Yi·dī** has the

<sup>57</sup> Lit.: ‘Sanğar is not but a chief.’

<sup>58</sup> The sisters of **kaşkā** must be understood as a references to its Arabic equivalent, i.e. *layta* ‘perhaps’ which, along with some other particles govern the noun in the accusative case.

meaning 'he was' (*kāna*), its *hamza* [sc. in *'i·dī*] was substituted for a *y*. Its meaning is 'would that Saṅgar laughed' (*layta saṅgar dāḥikan*). You say *kaškā saṅgar 'aw·da·miš·sa ya·dī* with the meaning 'would that Saṅgar were at home' (*layta kāna saṅgar fi d-dāri*). If the predicate of 'would that' (*layta*) is a verb, then *miš·sa* is not attached to it. You say with the meaning 'would that Zayd left' (*layta zaydan yaḥrugu*) *kaškā zayd čiq·sā·y·dī* [Lit.: 'would that Zayd had left']. *Sā* conveys the meaning of 'if' (*law*), its literal meaning (*ma'nā*) is <VD 48<sup>v</sup>> 'would that Zayd if he was [he] left' (*layta zaydan law kāna ḥaraḡa*).<sup>59</sup>

2. *Kim* has the meaning of an interrogative, the conditional noun, and a relative that follows *'ul*. [*Kim*] occurs literally with the meaning 'so that' (*kay*), the rules of which will be dealt with later, and with the meaning of 'that' vocalised with an *a* (*'anna al-maftūḥa*). You say for 'I learned that Saṅgar was laughing' (*'alimtu 'anna saṅgar dāḥik*)<sup>60</sup> *bil·du·m kim saṅgar kul·ar·dur*. You say with the meaning 'know that your [sg.] master is Saṅgar' (*'i lam 'anna sayyidaka saṅgar*) *bil·kil kim quḡa·ḡ saṅgar·dur*. In these examples *kim* conveys the meaning of 'that' (*'anna*) vocalised with an *a*.

3. As far as the meanings of 'perhaps' (*la'alla*) and 'as if' (*ka'anna*) are concerned, there exists no particle in this language that expresses it. This [meaning] is expressed by a verb; [in that case] you say 'may be Saṅgar comes' (*la'alla saṅgar ḡā'a*) <128> *ḡul·ḡā kim saṅgar kal kay*. *ḡul·ḡā* means 'he becomes' (*yaṣīru*); *kim* is an affirmative particle to the meaning 'he becomes' (*yaṣīru*) and *kal·kay* means 'he comes' (*yaḡī'u*).

4. The meaning 'as if' (*ka'anna*) is expressed with the form (*ṣiḡa*) *'uqša·r* which means 'he looks like' (*yušbih*). Thus you say 'as if Saṅgar were a lion' (*ka'anna saṅgara 'asad*) *saṅgar 'arslān ḡā 'uqša·r* [lit. 'Saṅgar resembles a lion']. *ḡā* has the meaning of the *lām* [i.e. the particle *li*] that conveys [the meaning of] objectivity (*maf'ūliyya*). It is not permitted to put *ḡul·ḡā* at the end in the preceding example but it is permitted to say *'uqša·r saṅgar 'arslān·ḡā* and *'uqša·r 'arslān·ḡā saṅgar*. *'Uqša·r* remains a verb, even when it means 'as if' (*ka'anna*) and the same goes for its conjugations (*at-taṣarruf fiḥā*), unlike *ḡul·ḡā kim*; for [this word] includes (*ḡamanat*) the meaning 'may be' (*la'alla*) and it is not conjugated (*lam yutaṣarraf fiḥā*).

5. There are two words (*kalimatayn*) that convey the meaning 'as if' (*ka'anna*), [namely] *kībī* and *layīn*, which literally mean 'image' (*miṭl*).

<sup>59</sup> All these verbs are reflected in the Turkic sentence too, but only *ydi* indicates the past tense.

<sup>60</sup> The Arabic sentence means 'is laughing', rather than 'was laughing'

Thus you say **saṅṅar ʾarslān biki·dur dakī**<sup>61</sup>, **saṅṅar ʾarslan daqin dur**<sup>62</sup> [and] **saṅṅar ʾarslan layin·dur** i.e. ‘Saṅṅar is like the lion’ (*saṅṅar miṭlu l-ʾasadi*). It is permitted to elide **dur** from the two examples. **Kibī** and **daqī** must be placed at the end of the sentence because of the [principle] of annexation in the Turkic language (*al-lisān at-turki*).<sup>63</sup>

### 30. Chapter on ʾuranla·dī, ṣaḡin·dī and bil·dī

1. As for ʾuranla·dī, its meaning is ‘he thought’ (*zanna*) and in this language it is semantically connected (*tata ʿallaqu*) to two objects like in Arabic, even though in reality the connected element (*muta ʿalliq*) is the relation (*nisba*) [between the two objects]. You say **bay·nī ʾuranla·du·m ṭur·ur** with the meaning ‘I thought the chief [to be] standing’ (*zanantu l-ʾamīra qāʾiman*) and you say **bay·nī bin·ar ʾuranla·du·m** with the meaning ‘I thought the chief [to be] riding’ (*zanantu l-ʾamīra rākiban*). [Nī]<sup>64</sup> is attached to the first object and you use the second object in the form (*ṣīḡa*) of the imperfect tense. It is permitted <VD 49ʳ> to put ʾuranla·du·m after the two [words], and this is the most correct. Only in a few cases is it permitted to put it in the middle. It is rarely put at the beginning. Who speaks thus is known as a novice (*dahīl*) in this language.

2. As to ṣaḡin·dī—the Oḡuz say **ṣan·dī** instead—its meaning is ‘he reckoned’ (*ḥasiba*). Its principles are the rules (*ḥukm*) of ʾuranla·dī.

3. As to bil·dī, its meaning is ‘he knew’ (*ʿalima*). Its rules are the rules of ṣaḡin·dī and ʾuranla·dī. It is also used transitive to one object. <129> In that case you say **saṅṅar·nī<sup>65</sup> bil·du·m**, i.e. ‘I knew Saṅṅar’ (*ʿariftu saṅṅara*). **Kim** with the meaning ‘that’ (*ʾanna*) and the [words that] depend on it take the position of two objects...<sup>66</sup> These verbs necessarily either precede or follow.<sup>67</sup> If they precede, they are connected to the sentence that begins with **kim** with the meaning ‘that’ (*ʾanna*). Thus you say **ʾuranla·r man kim bay ʾaw·da·dur** ‘I think that the chief is in the house’ (*ʾaẓunnu ʾanna l-ʾamīra fi d-dāri*).

<sup>61</sup> Em. of **dibidur**.

<sup>62</sup> ʾAbū Ḥayyān here extend the meaning of **daqin**; it is not likely to be a copyist’s mistake for **layin**.

<sup>63</sup> That is, in the case of **daqī**, but not in the case of **layin**, which is just a suffix.

<sup>64</sup> Addition by the translator; not present in either one of the Mss.

<sup>65</sup> Em. of **saṅṅar bildum**.

<sup>66</sup> The connection between these sentences is grammatically incorrect.

<sup>67</sup> The meaning of this sentence remains unclear because some words are missing.



If they follow, they are transitive to two objects, as we have explained previously.

4. It is permitted to attach the particle of transitivity (*'adāt an-naql*) to **bil·dī**. In that case it becomes connected (*muta<sup>c</sup>alliqa*) to three objects. [Thus for 'I informed the chief that the horse [had been] brindled' (*'a<sup>c</sup>lamtu al-amīra al-farasa mulğaman*) you say **bī·kā bil·dir·du·m 'āṭ 'ayar la·n·ub·tur**].<sup>68</sup> To the first object, [sc. **bī**] which was the agent before transitivisation, is added the marker for the improper object and that is the one to which [the verb] is [semantically] connected (*yutawaşşalu*) with *'ilā* ['to'] in the language of the Arabs (*lisān al-<sup>c</sup>arab*). As for the second object [sc. **'āṭ**], you omit (*tuhmil*) any marker, either of the proper or the improper object. For the third<sup>69</sup> object [sc. **'ayarlān·ub·tur**] you use the form of the circumstantial expression and because of this the *b*, which [serves to express] the circumstantial expression, is added to it. The base form of **tur** is **dur**, which serves to indicate the corroborative. It is permitted to put either the verb before the three [other words] or the three other words before the verb.

### 31. Chapter on the verb and the agent

- 20 1a. The most correct is the overt noun (*al-ism az-zāhir*) preceding the verb. This does not belong to this chapter, but forms [part] of the Chapter on the Topic and the Predicate [see above Section 27]. Thus you say **sanğar kal·dī** ['Sanğar came'].

- 1b. It is permitted to put [the overt noun] at the end, saying **kal·dī sanğar**. This does not belong to this [that?] chapter. If you construct (*'asnadta*) a verb in the past tense [according] to an overt singular noun that precedes it, you say **sanğar kal·dī** and **sanğar·lar kal·dī·lar** for the plural. In the case of the imperfect tense you say **sanğar kal·ur**, for the plural you say **sanğar·lar kal·ur·lar**. In the future tense you say **sanğar kal·kay**. **Kal·ā** is Oğuz and [in the case of the plural they say]<sup>70</sup> **kal·kay·lar** and in Oğuz **kal·a·lar**. It is permitted both to elide the *y* in **kal·kay**, and to leave it. The pronoun of the third person in all these examples is implicit; the attached **lar** is the marker of the plural, not a pronoun.

<sup>68</sup> Addition from İÜ.

<sup>69</sup> Both manuscripts and Caferoğlu's edition read *tāmī* 'second', which must be an error.

<sup>70</sup> Addition from İÜ.

2. If you adapt the verb to a second person in the past tense, you say **kal·di·ŋ** i.e. ‘you [sg.] came’ (*ǧiʾta*) and **kal·di·ŋiz** i.e. ‘you [pl.] came’ (*ǧiʾtum*). It is permitted to say **kal·di·ŋiz·lar**, with the marker of the plural for reason of esteem (*tafḥīman*) and respect (*taʿzīman*). In the case of the present tense (*ḥāl*) <VD 49ʷ> [you say] **kal·ur·san** i.e. ‘you [sg.] come’ (*taǧīʾu*) and in the case of the plural **kal·ur·siz**. It is permitted to say **kal·ur·siz·lar**. In the future tense [you say] **kal·kay·san** and **kal·ka·san**. In Oğuz [you say] **kal·ā·sin**. In the plural [you say] **kal·kay·siz**. It is permitted to say **kal·kay·siz·lar**. <130> The silent *n* [sc. **ŋ**] and **ŋiz** are two suffixed pronouns, whereas **san** and **siz** are two independent pronouns, considering the fact that they both occur as a topic.

3. If you construct (*ʾasnadta*) the verb in the past tense with a first person you say **kal·du·m** and **kal·du·man**. In the case of the plural [you say] **kal·du·k**, **kal·du·k·lar**, **kal·du·biz** and **kal·du·miz**—with the *b* substituted (*ʾibdāl*) for a *m*. In the case of the present tense (*ḥāl*) you say **kal·ur·man**, and **kal·ur·um** in Oğuz. In the case of the plural [you say] either **kal·ur·biz** or **miz**. It is permitted to attach **lar** to both of them. In the case of the future tense you say **kal·ka·man**, and **kal·am** in Oğuz. Its base form is **kal·ā·man**, but the *n* is elided and the *m* becomes silent. [Thus]<sup>71</sup> two silent consonants accumulate: namely the *ʾalif* and the *m*. The *ʾalif* is elided because of the accumulation of two silent consonants.<sup>72</sup> In the case of the plural [you say] **kāl·ka·biz** and **miz** according to [the rules of that language] and in Oğuz [you say] **kalā·wuz**, by substituting the *b* for a *w* vocalised with an *u*. **man** and **miz** are two independent pronouns, it is obvious that they both occur as topics.

4. As far as the construction of an imperative verb [to a person] is concerned, it was already discussed in the Chapter on the Verb [see above Section 26]. To the meanings that are attached to the verb belong the negation the interrogative, the prohibition. All of this is subject to rules that we—God willing—shall discuss.

### 32. Chapter on the negation in the verb

1. [The particle of the negation in the verb] is a **m** vocalised with an *a*, [placed] after the verbal root (*nafs al-fiʿl*). In the pasttense you say

<sup>71</sup> Addition from İÜ.

<sup>72</sup> The argumentation can be schematically summarised as follows: **kal·ā·man**: base form /kal·aʾman/ elision of **an** → /kal·aʾm/ elision of *ʾalif* → /kal·am/.

**saᅅgar kal·ma·dī** [‘Saᅅgar did not come’] [and in the plural]<sup>73</sup>  
**saᅅgar·lar kal·ma·dī·lar** [‘the Saᅅgars did not come’]. In the present  
tense (*ᅅāl*) you say **saᅅgar kal·ma·s** [‘Saᅅgar doesn’t come’] and  
**kal·ma·s·lar** in the plural. In the future tense [you say] **kal·ma·kay**  
5 and in the plural you say **saᅅgar kal·ma·kay·lar** [‘the Saᅅgars will not  
come’]. This is the case as far as the third person is concerned.

2. As to the second person, in the past tense of the singular you say  
**kal·ma·di·ŋ** and **kal·ma·di·ŋiz** of the plural. In the present tense  
(*ᅅāl*) [you say] **kal·mas·san** and in the plural **kal·mas·siz·lar**  
10 **kal·mas·lar·siz**. In the future tense [you say] **kal·ma·kay·san**. In  
Oᅅuz [you say] **kal·mi·yā·sin**. Its base form in their language is in the  
affirmative form: **kal·a·san**. Before the attachment of **san**, the base  
form in [their language] was **kal·ā**. When they attach **san** to the verb  
they elide the <sup>ʔ</sup>*alif* [sc. <sup>ʔ</sup>ā]. When they negate [the verb], they insert the  
15 particle [sc. **m ā**] between the last consonant of the verb and  
[between]<sup>74</sup> the particle of the future tense, which is the <sup>ʔ</sup>*alif*, as if the  
<sup>ʔ</sup>*alif* were the base form instead of a *y*<sup>75</sup>, because its base form is  
**kal·kay**. The *k* was elided in the language of the Oᅅuz. The *y* was  
changed into an <sup>ʔ</sup>*alif*, that they elided in the affirmative form. They put  
20 the <sup>ʔ</sup>*alif* to its [sc. the verb’s] base form, instead of the *y*, so that the  
negative form and the affirmative form are different. They vocalise it  
with an *a* because of the sequence of the vowels (*li-tawālī al-*  
*ᅅarakāt*).<sup>76</sup> In the plural [you say] **kal·ma·kay·siz**.

3. As for <131> the first person, you say **kal·ma·du·m** and in the  
25 case of the plural **biz kal·ma·du·k** <VD 50<sup>+</sup>> and **biz·lar**  
**kal·ma·du·k·lar**. In the present tense (*ᅅāl*) [you say] **kal·ma·s·man**  
and in the plural **kal·ma·s biz**. In the future tense [you say]  
**kal·ma·kay man** and in the plural **kal·ma·kay·biz**.

### 33. Chapter on the interrogative

30 1. The marker (<sup>ʔ</sup>*adā*) of the interrogative may either be a particle or a  
noun.

2. If it is a particle, the interrogative may either refer to a verbal sen-  
tence or a nominal sentence.

<sup>73</sup> Addition from İÜ.

<sup>74</sup> Addition from İÜ.

<sup>75</sup> *wa-ka<sup>ʔ</sup>anna al-<sup>ʔ</sup>aşl [<sup>ʔ</sup>alif] badalan <sup>ʔ</sup>an al-yā<sup>ʔ</sup>*; em. of *wa-kānat al-<sup>ʔ</sup>aşl [<sup>ʔ</sup>alif]*... in  
Caferoᅅlu’s edition makes little sense. <sup>ʔ</sup>*Alif* is an addition from İÜ.

<sup>76</sup> In Arabic linguistic argumentation <sup>ʔ</sup>*alif* is always understood as a consonant. The  
argumentation deals with the affirmative form, rather than the negation. It can be sum-  
marised as follows: basic form /kalkay/ → /kalay/ → /kala<sup>ʔ</sup>/.

3. If it refers to a verbal sentence, and this is what is meant in this chapter, the verb can be in the third person, the second person or the first person.

4. If it is a verb in the third person, the particle is always put after the verb, regardless of whether it is in the past tense, the imperfect tense or the future tense and whether the verb is adapted to a singular or a plural. For 'Sanğar, did he come' (*sanğar hal ġāʿa*) you say **sanğar kal·di·mū**, with the *m* vocalised with an *u* or an *i*. The base form is *u*, and *i* is used for vowel harmony (*li-l-ʾitbāʿ*). You say **sanğar·lar kal·di·lar·mū** ['did the Sanğars come'] [and for 'Sanğar, does he come' (*sanğar hal yağīʿu*) you say **sanğar kal·ir·mū**].<sup>77</sup> In the case of the future tense, you say **kal·ka·mū** and **sanğar·lar kal·ka lar·mū**.

5. If it is [a verb in the] second person, you say **san kal·di·ŋ·mū** ['did you come'] in the past tense, with a post-palatal *n*. The *n* does not assimilate with the particle of interrogation. In the plural [you say] **kal·di·ŋiz·mū**; in the present tense (*ḥāl*) **kal·ur·mu·san** and in the plural **kal·ur·mu·suz**. In the future tense [you say] **kal·ka·mu·san** and in the plural **kal·ka·mu·suz**.

6. If it is [a verb in the] first person, in the past tense you say **kal·di·m·mū**; the *m* in **kal·di·m** assimilates with the particle of interrogation. In the plural [you say] **kal·du·k·mū**; and in the present tense (*ḥāl*) [you say] **kal·ur·mu·man** and **kal·ur·mu·niz** in the plural.<sup>78</sup> In the future tense [you say] **kal·ka·mu·man** and **kal·ka·mu·niz** in the plural.<sup>79</sup>

7. If you ask a question about a negative verb and all [forms] of the imperative, the negation or the prohibition [...].<sup>80</sup> If the interrogative<sup>81</sup> refers to an object, in this language the principle is to put the object at the beginning, but it is permitted to put it at the end, unlike the Arabic language as far as the interrogation is concerned, since it is not permitted to put the object at the end. <VD 50<sup>v</sup>>

8. But as for the imperative and the prohibition, in their case the base rule is to put [the object] at the end, but is permitted to put it at the beginning.

9. If [the interrogative] refers to a nominal sentence, the particle is attached to its last [word]. Thus you say 'is the sun rising' (*ʿa š-šams ṭālīʿa*) **kun duğ·muš mi·dur**.

<sup>77</sup> Additon from İÜ.

<sup>78</sup> Prob. err. for **kal·ur·mu·biz** or the like.

<sup>79</sup> Prob. err. for **kal·ka·mu·biz** or the like.

<sup>80</sup> This passage is difficult to interpret; some words are missing.

<sup>81</sup> *fa-l-istifhām* em. for *wa-l-istifhām*.

10. If the marker is a noun, it can either refer to a singular or a plural [form]. If it refers to a singular, you say **qay·dā·dur sanğar** for 'where is Sanğar' (*'ayna sanğar*), **qağan·dur şanğış** for 'when is the fight' (*matā al-qitāl*) and **kim·dur sanğar** [for] 'who is Sanğar' (*man sanğar*) and **nā·dur bū** [for] 'what is this' (*'ayyu šay' hādā*). <132> It is permitted to put the interrogative noun after the singular [word].

11. If [the interrogative] refers to a sentence, [it is] either a verbal or a nominal sentence.

12. If [the interrogative] refers to a verbal sentence, you say **qağan ya·di·ŋ** for 'when did you [sg.] eat' (*matā 'akalta*); and **qay·dā ya·di·ŋ** for 'where did you [sg.] eat' (*'ayna 'akalta*); and for **nā ya·di·ŋ** 'what did you [sg.] eat' (*mā 'akalta*); and **kim·nī 'ur·du·ŋ** for 'whom did you [sg.] beat' (*man đarabta*). It is obligatory to put the interrogative noun at the beginning. **Nā** is more commonly used than **kim**, because **nā** is being used for rational and nonrational entities alike, and **kim** is especially [used] (*muhtaşs*) for rational entities.

13. If [the interrogative] refers to a nominal sentence (*ğumla isimiyya*), you say **qağan kun·duğ·miş dur** for 'when is the sun rising' (*matā š-šams tālī'a*), and **qay·dā kun·duğ·miş dur** [for] 'where is the sun rising' (*'ayna š-šams tālī'a*). After **nā**, nor after **kim**, a nominal sentence can follow.

14. One the nouns of interrogation is **nağā**, which is a question about a number with the meaning 'how many' (*kam*) in Arabic. When [the speaker] means 'how many did you [sg.] beat' (*kam đarabta*), he says **nağā 'ur·du·ŋ** [in which] **nağā** must precede. For 'how many are your [sg.] slaves' (*kam mamālīkuka*), he says **qul·lar·iŋ nağā·dur**.<sup>82</sup> In this example **nağā·dur qul·lar·iŋ** is permitted. If you use a specification (*tamyīz*), it is put in the middle. Thus you say **nağā kişi 'ur·du·ŋ** for 'how many men did you [sg.] beat' (*kam rağulan đarabta*) and **nağā kişi·lar 'ur·du·ŋ** [for] 'how many men did you [sg.] beat' (*kam riğālan đarabta*). It is specified both in the singular and in the plural.

15. There is also a predicative (*ħabariyya*) **nağā** that conveys the meaning of the valuation (*istiktār*). This can only be understood in the context (*qarīna*) of their speech: **sultān nağā san·iŋ·kibī kişi·lar·kā 'alṭun bir·ma·dī**. <VD 51<sup>r</sup>> Its literal meaning (*murādif*) is 'the sultān how many like you [sg.] people gold gave not' (*as-sultān kam miṭluka 'unāsan ađ-đahab mā 'a tā*). **Nağā** has the meaning of 'many' (*kaṭīr*); **san·iŋ·kibī** [has the meaning of] 'like you [sg.]', **kişi·lar** [means] 'people', and **kā** is the marker of objectivity (*'alāma al-maf'ūliyya*).

<sup>82</sup> Em. for *qullarin*.

**Bir·ma·dī** has the meaning 'did not give it' (*mā ʾa ʿāhu*), and although it looks (*šura*) like a negation, its meaning is affirmative (*ʾitbāt*). The meaning is 'The sultan has given gold to many [people] like you [sg.]' (*kaṭīrun miṭluka as-sulṭānu ʾa ʿāhu ad-ḡahaba*).

5 16. **Qač** has the same meaning as the interrogative **nağā**, it is used in questions, and rules are identical to those of **nağā**, except for the fact that it requires mention of the specification. You say **qač kaz ʾur·du·ŋ** 'how many times did you [sg.] beat' (*kam marra ḡarabta*), when you pose a question about a verb, e.g., **qač qul·uŋ bar** 'how many slaves are to you [sg.] existent' (*kam mamlūk laka mawğūd*). And [as for] **bar**, its meaning is 'existing' (*mawğūd*). When **qač** precedes the noun, you put the particle **bar** after the noun. If you put [**qač**] at the end [of the sentence], you say **qul·uŋ qağ·ṭur**, without using the particle (*lafza*) **bar**; **ṭur** is used as a corroborative [form].

15 17. One of the interrogative nouns is **nağuk**, which is used to pose a question about the manner (*kayfiyya*) with the meaning of 'how' (*kayfa*). Thus you say **nağuk ṭur·du·ŋ** for 'how did you [sg.] stand up' (*kayfa qumta*), and **sanğar nağuk ṭur** for 'how is Sanğar' (*kayfa sanğar*). It is obligatory to have it precede the verb, not the noun; e.g. 20 **sanğar nağuk ṭur·miš dur** 'how is Sanğar standing' (*kayfa sanğar qāʾim*). In the language of the Oğuz it **natā** is used with the meaning of 'how'. Its rules are the same as those of **nağuk**.

18. You say **naluk** for 'why' (*lima*); in Oğuz [they say] **nišā** and **nā ʾuğun** for 'what for' (*li-ʾayyi šayʾin*) and **nā·dan** for 'from what' (*mimmā*). You say <133> **naluk ṭur·du·ŋ** ['What for did you [sg.] stand up?'], **nišā ṭur·du·ŋ**, **nā ʾuğun ṭur·du·ŋ** and **na·dan ṭur·du·ŋ**.

19. You say **nā kurku·lū kiši dur** for 'Sanğar, what a good man he is' (*sanğar mā ʾaḡsanahu rağulan*). **Nā** has the meaning of 'what' (*mā*) and 'which' (*ʾayyu*). **Kurku·lū** [means] 'good' (*ḡasan*), **kiši** [means] 30 'man' (*ʾinsān*), whereas **dur** is a corroborative element. And [in the case of] 'what an ugly man he is' (*mā ʾaqbaḡahu rağulan*) [you say] **nā yaman ʾar·dur**. This is not the exact equivalent of what we said, but it conveys its meaning. It is equivalent to the Arabic expressions: 'what a beautiful man Zayd is' (*ʾayyu ḡasanin zaydun*) and 'what an ugly man 35 'Amr is' (*ʾayyu qabiḡ ʾamr*). In reality they do not intend a question but they use [this] to express surprise (*maḡrağ at-ta ʾağğub*), as in their expression 'what a man Zayd is' (*ʾayyu rağulin zaydun*), or 'he is respectable' (*huwa ʾağim*), e.g. **sanğar nā ʾuzun ʾar·dur** [means] 'Sanğar, what a tall man he is' (*sanğar ʾayyu ṭawīlu rağulin*). <VD 52ʿ> 40 When you mean 'which [thing] is your [sg.] letter' (*ʾayyu šayʾin kitābuka*), you say **nā nasā na·dur biti·ŋ**. **Nā** means 'which' (*ʾayy*),

nasā 'thing' (*šay*); the second nā is a corroborative element and so is dur, whereas bitī·ŋ means 'your [sg.] letter' (*kitābuka*). It is permitted to put bitī·ŋ at the beginning and it is also permitted to say nā nasā na·dur bū [lit.: 'what thing, what is this']. It is also permitted to put 5 bū, which has the meaning of 'that' (*dā*), at the beginning.

### 34. Chapter on the prohibition

1. [The particle of the prohibition] is a *m* vocalised with an *a*, like the particle of negation. But the depending verb has the future tense, unlike the negation, which is inserted into the past tense, the future tense 10 and the present tense (*ḥāl*). If you construct a prohibition for a verb that is constructed for a third person, you say sanğar kal·ma·sun for, 'Sanğar must not come' (*lā yağī*' sanğar) and sanğar·lar kal·ma·sun·lar in the plural.

2. And for a verb that is constructed for a second person, you say 15 san kal·mā for 'do not come' (*lā tağī*'). *Baylik* has [already] dealt with the meaning of this. It is permitted [to say] bar·mā·mā 'do not go' (*lā taruḥ*) [and] 'uḷtur·mā·mā 'do not sit down' (*lā taq<sup>u</sup>ud*), [and] yaḷ·mā·mā 'do not sleep' (*lā tanam*). This has a contemptuous connotation (*iḥtiqār*), with the meaning of 'woe unto you' (*waylaka*). In 20 the plural [you say] siz kal·ma·ŋiz, and it is permitted [to say] siz kal·ma·ŋiz·siz.

3. For a verb that is constructed for a first person, you say kal·ma·kā·y·im for 'I will not come' (*lā <sup>2</sup>yağī*') and kal·ma·kā·lim for 'let us not come' (*lā nağī<sup>2</sup>*).

### 25 35. Chapter on the replacing agent

1. For the construction of the verb in the passive participle (*an-nā<sup>2</sup>ib* 'an al-fā<sup>2</sup>il) one uses either a silent *l* or a silent *n*, according to the following explanation. [As a premiss] we say that the verb is either 30 uniradical or biradical or something else.

2a. If [the verb] is uniradical or biradical, and its second consonant is either vocalised or a silent *l*, or if [the verb ends in] *lā*, which serves governance (*amal*), [in all these cases] the addition (*al-mazid*) is a silent *n*.

2b. [Past tense] Thus if you construct ya·dī i.e. 'he ate' (*'akala*) for 35 the passive form, you say ya·n·dī i.e. 'he was eaten' (*'ukila*); yu·dī 'he washed' (*ğasala*)—yu·n·dī; si·dī 'he broke' (*kasara*) — si·n·dī 'he was broken' (*kusira*); şina·dī 'he tested' (*ğarraba*)—şina·n·dī 'he was test-

ed' (*ḡurriba*); **duša·dī** <134> 'he spread out' (*faraša*)—**duša·n·dī** i.e. 'he was spread out' (*furiša*); **dapala·dī** ['he killed']—**dapala·n·dī** 'he was killed' (*qutila*).<sup>83</sup>

3. [Present tense] For 'he is being eaten' (*yuʿkal*) you say **ya·n·ur**;  
 5 'he is being washed' (*yuḡsalu*)—**yu·n·ur**; 'he is being broken'  
 (*yukassaru*)—**si·n·ur**; 'he is being tested' (*yuḡarrabu*)—**šina·n·ur**; 'he  
 is being killed' (*yuqtalu*)—**dapala·n·ur**; <VD 52'> 'he must be eaten'  
 (*li-yuʿkal*)—**ya·n·sun**; 'he must be washed' (*li-yuḡsal*)—**yu·n·sun**; 'he  
 10 must be broken' (*li-yukassar*)—**si·n·sun**; 'he must be tested' (*la-*  
*yuḡarrab*)—**šina·n·sun**. In the case of **ʿal·dī** meaning 'he took'  
 (*ʿaḥada*) you say **ʿal·in·dī** i.e. 'he was taken' (*ʿuḥida*); **ṣal·dī** 'he sent'  
 (*ʿarsala*)—**ṣal·in·dī** i.e. 'he was sent' (*ʿursala*).

4. But if the verb is biradical with a silent second consonant—not  
 an *l*—or something else [?], you add an *l*. Thus in the case of **ʿur·dī**,  
 15 with the meaning of 'he beat' (*ḡaraba*); if you construct it for the pas-  
 sive form, you say **ʿur·ul·dī** 'he was beaten' (*ḡuriba*); 'he is being beat-  
 en' (*yuḡrabu*)—**ʿur·ul·ur**; for 'he must be beaten' (*la-yuḡrab*) you say  
**ʿur·ul·sun**; and in the case of 'he will be beaten' (*sa-yuḡrabu*) you say  
**ʿur·ul·ḡā**. The addition of the *l* and the *n* is a general rule in these  
 20 cases, no matter whether it concerns the past tense, the imperfect  
 tense or the imperative.

5a. If the agent is not mentioned, one of five things may take its  
 place (*qāma maqāmahu*) [sc. in the sequence of the sentence, not  
 functionally]:

25 5b. The object. For 'the meal was eaten' (*ʿukila aṭ-ṭaʿām*) you say  
**ʿāš ya·n·dī** or **ya·n·dī ʿāš**.

5c. The verbal noun: you say e.g. 'the beat was beaten' (*ḡuriba aḡ-*  
*ḡarabu*) **ʿur·maq ʿur·ul·dī**.

5d. The locative of time, **bu kun ʿur·ul·dī** ['he was beaten today'].

30 5e. The locative of place, **ʿard·in·dā ʿur·ul·dī** i.e. 'he was beaten be-  
 hind you [sg.]' (*ḡalafaka ḡuriba*) and **ʿaln·in·dā ʿur·ul·dī** i.e. 'he was  
 beaten in front of you [sg.]' (*qaddāmaka ḡuriba*).

5f. The genitive particle and the word in the genitive case: you say  
 e.g. 'it was taken from Saḡar' (*ʿuḥida min saḡar*) **saḡar dan**  
 35 **ʿal·in·dī**.

6. In case the verb has two objects, the verb may belong to those  
 whose first object is not identical with the second. In that case you say  
**bir·il·dī saḡar·ḡā bir·aqḡā** for 'Saḡar was given a dirham' (*ʿuṯiya*  
*saḡaru dirhaman*). [The verb] is transitive (*taʿaddā*) to the first object

<sup>83</sup> Here ʿAbū Ḥayyān does not mention a biradical stem ending in *l*; for the present tense he gives ʿal 'to take'.



with the particle of annexation, which is **ġā**, and the verb dominates (*tasallaṭa ʿalā*)<sup>84</sup> the second object. Wherever you put it, at the beginning or at the end, it is always correct. Neither **şaġan·dī** nor **bil·dur·dī** are actually construed in the passive.

5 VI CHAPTER ON THE VERB'S REQUIREMENTS  
WITH REGARD TO OPTIONAL PARTS OF THE SENTENCE

1. These are the verbal noun, the locative of time, the locative of place, the circumstantial expression, the direct object, the object of reason, the concomitant object and the excepted [elements]. And as to the  
10 specification, its rules will be treated after the discussion of the exception.

36. Chapter on the verbal noun

1. You say **yiyiṣ**<sup>85</sup> **ya·du·m** for 'I ate food' (*'akaltu aklan*). They have the verbal noun (*maṣḍar*) preceding the verb and they say <VD 52<sup>v</sup>>  
15 **'uruṣ 'ur·du·m**, **'ur·maq 'ur·du·m**, **ṭur·uṣ ṭur·du·m**. They also use **ṭur·maq** [instead of **ṭur·uṣ**]. The *ṣ* indicates the meaning of intensity (*mubālaġa*) <135> to the verbal noun. This has been treated in the part on morphology (*taṣriḥ*).

2. The verbal noun is divided into two categories: unspecified  
20 (*mubham*), which has been discussed, and specified (*muḥtaṣṣ*).

3. It is either specified by an adjective, you say e.g. 'I beat a harsh beat' (*ḍarabtu ḍarban ṣadīdan*) **qaṭī 'ur·maq 'ur·du·m**, or by annexation, e.g. 'I beat Saṅġar's beat' (*ḍarabtu ḍarba saṅġar*) **'ur·du·m saṅġar 'ur·uṣ·i·n**. It is permitted to use **'ur·maq**. But as to the ending  
25 in a *n* (*tanwīn*), which is attached here after the *i* of the annexation, its base form is **'ur·uṣ·i·nī**. *Nī* is the marker of the accusative (*naṣb*) and the *i* [sc. after *ṣ*] [indicates] the annexation to the personal pronoun of the third person. Then you elide the *y* and leave the silent *n*. It is permitted to pronounce (*nuṭq*) the base form, so you say **'ur·uṣ·i·nī**

30 37. Chapter on the locative of time

1. The locative of time (*zarf az-zamān*) consists of two categories (*qismān*): unspecified (*mubham*) and specified (*muḥtaṣṣ*).

<sup>84</sup> From IŪ em. of *yusallīṭu*.

<sup>85</sup> Em. for *biyiṣ*.

2. Examples of the unspecified locative are e.g. **kunduz** i.e. 'in day-time' (*nahāran*); **tun·lā** i.e. 'at night' (*laylan*); **ṭaṇ·lā** or **ṭaṇ·dā** i.e. 'in the morning' (*ṣabāhan*); **kaḡā** i.e. 'in the evening' (*masāʿan*); **quṣluq** i.e. 'in the forenoon' (*ḡuḡan*); **kindin** i.e. 'in the late afternoon' (*ʿaṣran*); **duštā** i.e. 'at noon' (*ḡuḡran*); in Oḡuz they say **ʾuylā** 'at noon' (*ḡuḡran*).

3. The specified locative of time is the word to which any one of these locatives is annexed, or which is described [with an adjective]. The verb dominates (*yatasallaṭu ʿalā*) these locatives, whether it is transitive or intransitive. You say **tun·lā ṭur·du·m** ['I stood at night'] in the case of the intransitive verb and **tun·lā ʾur·du·m sanḡar·nī** ['I beat Sanḡar at night'] in the transitive verb. It is permitted that the verb precedes the locative or that it comes after it, whether the verb is conjugated (*mutaṣarrif*), as in our example, or not conjugated. Thus you say **bū kun sanḡar ṭur·miš daḡul** ['today Sanḡar is not standing'] and **sanḡar ṭur·miš daḡul bū·kun**.

### 38. Chapter on the locative of place

1. To the [locative of place] (*zarf al-makān*) belong **ʾust·un·dā** i.e. 'above' (*fawqa*); **ʾalt·in·dā** i.e. 'underneath' (*taḡta*); **ʾuṇ·in·dā** i.e. 'at the right' (*yamīnan*) and **ṣuṇ·in·dā** i.e. 'at the left' (*ṣamālan*); **ʾaln·in·dā** i.e. 'in front of' (*ʾamāman*); **ʾard·in·dā** <VD 53ʿ> i.e. 'behind' (*ḡalafan*). And also **qarṣi·ṇ·dā** i.e. 'in front of you [sg.]' (*tilqāʾaka*) and **yan·iṇ·dā** i.e. 'next to you [sg.]' (*ḡidāʾaka*). Some of these locatives are used as an annexed element only [sc. annexed to a pronoun], therefore this is exemplified with the *n* that reflects the pronominal form of the second person.

2. The base form of **ʾust·uṇ·dā** is **ʾustun·iṇ·dā**, because the first *n* is a basic consonant of the word, the second *n* is the *n* of the second person to which it is annexed. It is permitted to <136> elide one of the two *ns* in order to alleviate (*taḡfffan*). It is clear that the elided one is the first from the root of the word (*nafs al-kalima*), because the second *n* is inserted to indicate a meaning. Their utterance **ʾust·um·dā**, 'on me' (*ʿalayya*), shows that it is definitely the first *n* which has been elided. They elide the first *n* because the *m* indicates the first person. They never say **\*ʾustun·um·dā** with both the *n* [and the *m*]. After he had spoken about the permanence of the *n*, the compiler of this book said *ʿal-mawlā Tāḡ ad-Dīn* informed me of thisʼ.

3. The locative of place is only used with the particle that is equivalent to 'in' (*fī*) [sc. **dā**], as long as it is a locative. It is permitted to use

another particle (*ḥarf ḡarr*) than **dā**, although in that case it stops being a locative. [For example,] you would say **'ard·iñ dan yat·tī** i.e. 'he caught up from behind you [sg.]' (*'adraka min ḥalfika*) — **'ard·iñ** may be replaced by **'uñ·uñ** meaning 'before' (*qabla*) or by **ṣuñ·uñ** with the meaning of 'after' (*ba'da*). In these two cases the annexation is not obligatory because they express a locative of time rather than a locative of place. Thus you say **ṭur·du·m 'uñ·dā** 'I stood up before' (*qumtu qablu*). **Burun** too means 'before' (*qablu*). It is permitted to say **ṣuñ·rā ṭur·du·m**, with a *r*, or **ṣuñ·dā** with a *d*, e.g. 'I stood up later' (*qumtu ba'dan*). The *r* and the *l* in the examples **tun·lā** ['at night'], **ṭaṇ·lā** ['in the morning'] and **ṣuñ·rā** ['later'], respectively, both express the meaning of the *d* [sc. the particle **dā**], which, [in its turn] corresponds to 'in' (*fi*) in Arabic.

4. If you wish to annex [to a pronoun], as in the expression 'I came after you [sg.]' (*ḡi'tu ba'daka*), you say **kal·di·m san·dan ṣuñ·rā**. This means literally 'I came from you [sg.] in later' (*ḡi'tu minka fi ba'din*). For the example 'I came before you [sg.]' (*ḡi'tu qablaka*) you may say either **kal·di·m san·dan burun** or **kal·di·m san·dan 'ilk·arū<sup>86</sup>** or **kal·di·m san·dan 'uydin**. **'ilk** means 'first' (*'awwal*). The *r*, in **'ilk·arū**, which is vocalised with an *u*, has the meaning of **dā**, which is an equivalent of 'in' (*fi*). <VD 53<sup>v</sup>>

5. On these locatives may depend both intransitive and transitive verbs and conjugated and non-conjugated verbs, like on the locative of time (*ḥāl zarfu z-zamān*). Thus you say **'ard·iñ·dā sanḡar ṭur·miš daḡul** ['Sanḡar is not standing behind you [sg.]] and **sanḡar ṭur·miš daḡul 'ard·iñ·dā**.

6. The locatives of place only occur especially with the annexation. The *n*, which has already been mentioned, indicates the second person if it is nasalised [sc. *ŋ*], whereas [it indicates] the annexation if it is pure (*ḥālīṣa*) [sc. *n*]. These two can never be combined; they never say **\*'ard·iniñ·dā** with one of the two *ns* being a nasalised *n* and the other a pure *n*. [The reason is that] the pure *n* expresses [annexation to] the third person and the nasalised *n* [annexation to] the second person.

7. If you annex to a first person, you use either the personal pronoun of the first person singular or plural, as you do in other combinations (*'idāfāt*). Thus you say **'ard·im·dā** i.e. 'behind me' (*ḥalafti*); **'ard·imiz·dā** i.e. 'behind us' (*ḥalfanā*) and **'ard·in·dā** i.e. 'behind him' (*ḥalfahu*). You may use it for both the second and the third person since it is explained by the preceding pronoun. In the case of the

<sup>86</sup> Em. for *sanu*.

second person you say **san·iñ ʾard·iñ·dā** [‘behind you [sg.]’] and in the case of the third person you say **ʾa·niñ ʾard·in·dā** [‘behind him’]; and you say **ʾan·lar·niñ ʾard·in·dā** for ‘behind them’ (*ḥalfahum*) <137>.

5 39. Chapter on the circumstantial expression

1a. The circumstantial expression (*ḥāl*) is indicated by either a *w* or an <sup>ʾ</sup>*alif*, which are added to the end of the word. Thus you say **yūrī kal·ū** i.e. ‘walk coming’ (<sup>ʾ</sup>*imši ḡāʾiyan*) and **yūrī ṣur·ā** i.e. ‘go asking’ (*sir sāʾilan*).

10 1b. If you intend to construct (*bināʾ*) a circumstantial expression from a verb, you first look at the imperative form (*fiʿl al-ʾamr*).

1c. If the final consonant [of the stem] is silent, then in the imperfect tense it must be vocalised with either an *a*, viz., **kul·ar**—in which case you attach an <sup>ʾ</sup>*alif* [to the stem]; thus you say, for example **kul·ā kal·dī** i.e. ‘he came laughing’ (<sup>ʾ</sup>*ḡāʾa dāḥikan*), or with an *u*, viz., **kal·ur**. In the latter case you attach a *w* to the imperative form; you say for example **kal·ū**, i.e. ‘coming’ (<sup>ʾ</sup>*ḡāʾiyan*).<sup>87</sup>

1d. If [in the imperative form the final consonant] is vocalised with any vowel, you put a *y* vocalised with an *u* after it. Thus you say **yu·y·ū** i.e. ‘washing’ (*ḡāsīlan*); **ya·y·ū** i.e. ‘eating’ (*ʾākīlan*); **ʾaḡla·y·ū** i.e. ‘crying’ (*bākiyan*); **yuri·y·ū** i.e. ‘walking’ (*māšīyan*).

2. The general rule is to allow attachment of a silent *b* in all these instances. The preceding consonant [i.e. the last consonant of the verb] is vocalised with an *u* <VD 54ʿ> if the penultimate consonant is vocalised with an *u*. Thus you say **ṣur·ub**. [The last consonant of the verb] is vocalised with an *i* if [the penultimate consonant] is vocalised with an *a* or an *i*, in that case you say **kal·ib** and **kir·ib**, and if [the penultimate consonant] is silent—except for the <sup>ʾ</sup>*alif* in **lā**, which remains silent—you say **yakir·ib**<sup>88</sup> ‘mad’ (*ḡaḍbān*). [Finally,] as to verbs that end in **lā** which serves governance, the <sup>ʾ</sup>*alif* [of **lā** = /laʾ/] is replaced by a *y* vocalised with an *u*. Thus you say **suz·la·y·ub** i.e. ‘speaking’ (*mutakallīman*) and **ʾaḡ·la·y·ub** ‘crying’ (*bākiyan*). You may elide the *y*,<sup>89</sup> in which case you say **suz·la·b**.

3. Sometimes a silent *n* is attached to the *b*. In those cases the *b* itself is vocalised with an *a*. Thus you say **kul·ub·an** [‘laughing’],

<sup>87</sup> I.e. /kul/ → /kul+ʾ/ addition of *a*: /kal-aʾ/; /kal/ → /kal+w/ addition of *u*: /kal-uw/

<sup>88</sup> ʾAbū Ḥayyān’s description here would point to the form **yakr ib** instead, which is not likely.

<sup>89</sup> Em. of <sup>ʾ</sup>*alif*.

**şur·ub·an** [‘asking’] and **kir·ib·an** [‘entering’]. The *n* expresses the intensification of the circumstantial expression, as if you repeat it. You may strengthen the circumstantial expression by repeating its form. Thus you say **kal·ū kal·ū**. It is not permitted to pluralise the circumstantial expression: it always remains singular, whether the referent of the circumstantial expression is singular, dual or plural. Thus it is not permitted to say \***kal·ū·lar**, nor \***şur·ā·lar** or \***kal·ib·lar**.

4. Transfer (*intiḡāl*) and derivation (*iştiḡāq*) belong to the condition of the circumstantial expression but only in those cases where they are possible. Thus you say **sanğar kal·dī buğḡāy ’aḡ·luh ḡul·ub·un** for ‘Sanğar came [being] brown’ (*ğā’a sanğar ’asmar*). **Buğḡāy** means ‘wheat’ (*qamḡ*); **’aḡ** means ‘colour’ (*lawn*); **lū** has the meaning ‘possessor’ (*dū*); **ḡul·ub·un** means ‘becoming’ (*şā’iran*). For ‘Sanğar came [being] long’ (*ğā’a sanğar ḡawīlan*) you say **sanğar kal·dī ’uzun ḡul·ub·an** and for ‘he came laughing’ (*ğā’a dāḡikan*) [you say] **kal·dī kulā** and also **kul·ub·an** or **kul·ub**. For ‘crying’ (*bākiyan*) you say **’aḡla·y·ū**, **’aḡla·y·ub·an** or **’aḡla·y·ub**. For ‘this Sanğar is standing’ (*ḡādā sanğar qā’im*) you say **bū sanğar ḡur·ḡur·ub·an**<sup>90</sup> or **ḡur·ub** or **ḡur·ū**. **ḡur·miş** may only be used as a predicate and not as a circumstantial expression.

5. For ‘Sanğar was beaten in the house’ (*ḡuriba sanğar fi d-dār*) you say—in case that he was in the house—**sanğar ’ur·ul·dī ’aw·dā**. For ‘in front of you [sg.]’ (*’amāmaka*) you say **’aln·iḡ·dā**. For ‘Sanğar came, the sun [being] rising’ (*ğā’a sanğar wa-ş-şams ḡali’a*) you say **sanğar kal·dī kun·duḡ·miş yi·dī**, <138> i.e. ‘the sun was rising’ (*kānat aş-şamsu ḡali’a*). For ‘Sanğar came, his face [being] reddening’ (*ğā’a sanğar wa-waḡḡuhu muḡmirr*) you say **sanğar kal·dī yuz·ī qizil ḡul·ub·an**. You may also say **yuz·u qizil** and by this the circumstantial expression is meant. <VD 54<sup>v</sup>> It is also permitted to say **qizar·miş yuz·lū** ‘having a reddening face’ (*dū waḡḡ muḡmirr*). You use a *r* even though the base form is a *l* [sc. in **qizil** ‘red’]. But when you derive [a verb] from it, you say **qiz·ar·dī**, changing the *l* into a *r*. Likewise they say **şarḡ·ar·dī** if something becomes yellow, **’aḡ·ardī** if something becomes white, changing the *q* [in **’aq**] into a *ğ*. They say **qara·r·dī** if something becomes dark and **kuk·ar·dī** if something becomes blue. They say **yaş·ar·dī** if something becomes green and **buz·ar·dī** if something becomes dust-grey. If the nominal sentence is negative —e.g. ‘Sanğar came the sun [being] not rising’ (*ğā’a sanğar wa-mā aş-şams*

<sup>90</sup> One would expect **ḡuruban** instead.

*ṭālīʿa*)— you may say *kun·duġ·ma·miš yidī* or *kun·duġ·ma·duq yi·dī* or *yuz·ī qizar·ma·miš yi·dī* or *qizar·ma·duq yi·dī*.

6. For ‘Sanġar came laughing’ (*ġāʿa sanġar yaḏḥaku*) you say *sanġar kal·dī kul·ar*. For ‘Sanġar, whose father laughs, came’ (*ġāʿa sanġar yaḏḥaku ʿabūhu*) you say *ʿaṭa·s·ī kul·ar*. For ‘Sanġar came and he had laughed’ (*ġāʿa sanġar wa-qad ḏaḥika*) you say *sanġar kal·dī kul·dī*. For ‘and he had cried’ (*qad bakā*) you say *ʿaġla·dī*. For ‘and his father had cried’ (*wa-qad bakā ʿabūhu*) you say *ʿaṭa·s·ī ʿaġla·dī*. For ‘and he does not laugh’ (*mā yaḏḥaku*) you say *kul·ma·s*. For ‘he had not laughed’ (*mā ḏaḥika*) you say *kul·ma·dī*. In the negative form of *sanġar kal·dī kulā*, you say *sanġar kal·dī kul·ma·din* or *kul·ma·yin*. This means ‘Sanġar came not laughing’ (*sanġar ġāʿa ġayru ḏaḥik*). In the case of the negative form of *ʿaṭ·nī min·du·m ʿayarla·b* [‘I saddled the horse and mounted’] you use *ʿayarla·ma·din* or *ʿayarla·ma·yin*. The use of *ma·yin* with a *y* is Qipčaq.

7. If the circumstantial expression is connected with a direct object, you say *ʿatmak yi·yū* with the meaning ‘eating bread’ (*ʿākilan ḥubzan*), and for ‘riding a horse’ (*rākiban farasan*) you say *ʿaṭ bin·ū*. You may also use *bin·ib·an*,<sup>91</sup> *bin·ib*, *yi·y·ib* or *yi·y·ib·an*. It is permitted to use any of these.

8. It is permitted to place the circumstantial expression before the single verb or [before] a verb together with a noun, which is the most eloquent, whether the circumstantial expression is a sentence, a single word, a locative or a noun governed by a particle of the genitive, and whether it is a negation or an affirmation.

9. The circumstantial expression is subject to the rules for either the undetermined words or the determined words.

10. The determination is as in the examples we have shown. As for the [use of the circumstantial expression] with an undetermined word: for ‘a man came laughing’ (*ġāʿa raġulun ḏaḥikan*) you say *ʿar kal·dī kul·ā*. It is permitted to say *kul·ub·an*, and also *kul·ub*, according to our previous remarks.

11a. If the referent of the circumstantial expression is a relative, the circumstantial expression does not precede it. <VD 55<sup>r</sup>> For ‘the one that beats came laughing’ (*ġāʿa ḏ-ḏāribu ḏaḥikan*) you say *ʿur·ġan kal·dī kul·ā*. You may also say *kul·ā kal·dī ʿur·ġan* but not *kul·ā ʿur·ġan kal·dī*. But it is permitted to say *kal·dī kul·ā ʿur·ġan*.

11b. If the relative is *ʿul kim*, you say *ʿul kim ʿur·dī kul·ā kal·dī*. For ‘the one that beat came laughing’ (*ġāʿa l-laḏī ḏaraba ḏaḥikan*) you may

<sup>91</sup> The first consonant of this word is illegible.

- say **kal·dī kulā**, e.g. **kal·dī kul·ā 'ul kim 'ur·dī** or **kul·ā kal·dī·kim 'ur·dī**. It is not permitted to separate the relative from its clause, neither with the circumstantial expression nor with the verb. For 'the one in the house came laughing' (*ḡā'a l-laḏī fi l-bayti ḏāhikan*) you may say
- 5 **'aw·da·kī kul·ā kal·dī**, **kal·dī kul·ā 'aw·da·kī** or **kul·ā kal·dī 'aw·da·kī**. <139>

#### 40. Chapter on the direct object

1. The [direct] object can either be fully nominal (*zāhir*) or pronominal (*muḏmar*).
- 10 2. If the object is fully nominal, in the case of the example 'I ate the fish' (*'akaltu as-samaka*) you would say **bāliq·nī ya·du·m**. **Nī** is the marker of the accusative as far as the proper object (*al-maf'ūl bihi aṣ-ṣarīḥ*) is concerned.
- 15 3a. [The verbs] that are transitive to two objects in the language of the Arabs are, in this language, transitive to one of them with **nī**, and to the other with **ḡā** or with **kā**. Thus you say **saṅḡar·ḡā ṭu·nī<sup>92</sup> bir·du·m** for 'I gave Saṅḡar a cloak' (*'a taytu saṅḡara ṭawban*). In the case of the first [word] which is the first object in the Arabic language **ḡā** is attached to the base form (*'alā l-'aṣl*), and **nī** [is attached] in [the case of] the second [word], which is a second [object] in the Arabic language, and the opposite is not permitted.<sup>93</sup>
- 20 3b. For 'I reckoned Saṅḡar [to be] leaving' (*ḥasibtu saṅḡara ḥāriḡan*) you say **saṅḡar·nī ḥiq·miš saḡan·du·m**. You suffix **nī** to the first object and leave the second one without [any marker], suffixing neither
- 25 **nī** nor **ḡā** to it. You suffix **kā** instead of **ḡā** when a palatalised consonant precedes. An example of this is **bay·kā ṭu·nī birdu·m** ['I gave the cloak to the chief'].
- 30 4. If it is [a verb] which is transitive with 'to' (*'ilā*) in the Arabic language, whether it is stated or deleted, according to linguistic licence (*tawassu'*), they use **ḡā** or **kā** in accordance with the preceding remarks about the velarisation and palatalisation. An example of this is **saṅḡar·nī kur·du·m** i.e. 'I saw Saṅḡar' and **saṅḡar·ḡa baq·ṭi·m** 'I looked at Saṅḡar' (*naḡartu 'ilā saṅḡar*) <VD 55<sup>v</sup>> and **bay·kā bar·du·m** i.e. 'I went to the chief' (*ḏahabtu 'ilā l-'amīri*). It is permit-

<sup>92</sup> In **ṭunī** one of the two **n**'s appears to be missing (cf. also 41.5 for **san** and **man**).

<sup>93</sup> This same important passage appears slightly differently in İÜ (82<sup>v</sup>5-6): "You attach **ḡā** to the second [word] which is the first object in the Arabic language. And you attach **nī** to the first [word], which is a second [object] in the Arabic language."

ted to put the object at the end in all of these cases, although putting it at the beginning is the most correct and the most frequent.

5 If [the object] is pronominal, you say **ʾur·dī manī** for ‘he beat me’ (*ḍarabanī*). Its base form is **ʾur·dī man·nī**. You delete the first *n* because of the clustering of two similar consonants. We say that it is the first [*n*] that is deleted, because the second one is used together with the *y* to indicate a meaning, namely objectivity (*mafʿūliyya*). For ‘he beat us’ (*ḍarabanā*) you say **ʾur·dī biz·nī**. For ‘he beat you [sg.]’ (*ḍarabaka*) you say **ʾur·dī san·ī**. Its base form is **san·nī** with gemination [of the *n*]. About **san·nī** we can say the same as [we did] about **man·nī**. [For] ‘he beat you [pl.]’ (*ḍarabakum*) [you say] **ʾur·dī siz·nī**. You say **ʾur·dī ʾa·nī** for ‘he beat him’ (*ḍarabahu*) and you say **ʾur·dī ʾan·lar·nī** for ‘he beat them’ (*ḍarabahum*). In all of these cases it is permitted to put the object at the beginning, since it is an independent pronoun in their language.

15 6. If both the agent and the object are pronominalised, you say **ya·du·m ʾa·nī** for ‘I ate it’ (*ʾakaltuhu*) and you say **bir·du·m ʾa·nī** for ‘I gave it’ (*ʾaḥḥaytuhu*). For ‘Sanğar, I gave him the cloak’ (*sanğar ʾaḥḥaytuhu aṭ-ṭawb*) you say **sanğar bir·du·m ṭun·ī ʾan·ğā**.

20 7. If the object is an interrogative noun, you say for ‘whom did you [sg.] beat’ (*man ḍarabta*) **kim·nī ʾur·du·ŋ**; the most frequent usage is to put it at the beginning.

25 8. If [the object] is a conditional noun, you say **kim·nī ʾur·saŋ ʾur·ğā·man** for ‘whomever you [sg.] beat, I will beat him’ (*man taḍrubhu ʾaḍrubhu*) and <140> it is obligatory to put the object at the beginning, because it is a conditional noun.

30 9. If it is a relative—as in ‘I saw the one I beat with you [sg.]’ (*raʾaytu alladī ḍarabtu ʾindaka*)—you say **ʾul kim ʾur·du·m san·iŋ qaṭi·ŋ·dā kur·du·m**. As for **ʾul**, it means ‘he’ (*huwa*) and **kim** means ‘who’ (*man*); their combination expresses the meaning ‘the one that’ (*alladī*). **ʾUr·du·m** means ‘I beat’ (*ḍarabtu*) and **san·iŋ qaṭi·ŋ·dā** means ‘with you [sg.]’ (*ʾindaka*). The object is governed by (*yutasallat ʾalayhi*) the verb and it is connected to it (*yataʾallaq bihi*) as we have demonstrated. [The same goes for] the active participle, the passive participle and the verbal noun.

35



41. Chapter on the connection of the active participle with the direct object or the fully nominal agent

1. You say **sanğar 'ur·daği·dur sunqur·nī** for 'Sanğar is beating Sunqur tomorrow' (*sanğaru dārib sunqura ğadan*).<sup>94</sup> It is permitted [to say] **sanğar sunqur·nī 'ur·daği·dur, 'ur·daği·dur sanğar sunqur·nī** or <VD 56<sup>r</sup>> **'ur·daği·dur sunqur·nī sanğar**. This is also permitted in the past tense, i.e. when **miš** is attached. [The active participle in the past tense] is connected to the direct object in the same way as it is connected in the future tense. All of these constructions are permitted.

10 You also attach **miš tur** in other constructions.

2. In the case of [the verbs that are] transitive to two [objects], e.g. in 'Sanğar is giving Sunqur a cloak' (*sanğaru mu ħin sunqura tawban*), you say **sanğar bir·daği·dur sunqur·ğā ħun·nī**. It is permitted to put it either at the beginning or at the end in the abovementioned constructions. You say **sanğar şağan·daği·dur sunqur·nī 'urū·ħur·miš** for 'Sanğar is thinking Sunqur is standing' (*sanğaru zānnun sunqura qa'imān*) or just **ħur·miš** without **'urū**. For 'Sanğar is repeatedly beating Sunqur' (*sanğaru darūb sunqur*), you say in the intensive form **sanğar 'ur·ağan·dur sunqur·nī**. It is permitted to use the constructions that were mentioned in the [Chapter on] the Active Participle [see above Section 4].

15

20

3. If you connect the active participle to the fully nominal agent (*al-fā'il az-zāhir*), you say **sanğar 'aṭa·s·ī ħur·miš** for 'Sanğar, his father is standing' (*sanğaru qa'im 'abūhu*). You say **bū yuz·ī kurk·u·lū dur** for 'this one's face is beautiful' (*hādā ḥasanu [wağhuhu]*<sup>95</sup>). You say **kuz·ī surma·lū·dur** for 'Sanğar, his eye is dyed black' (*sanğaru kaḥīlu 'aynuhu*) and **burn·ī 'uzun dur** for 'his nose is long' (*ṭawīl 'anfuhu*). The difference between **'uzun** and **surma·lū** is that **'uzun** is basically a descriptive [word], whereas **surmā** means 'antimony' (*al-ḥimīd*) which is basically not a description. Therefore **lū** is attached to it, which has the meaning of 'possessor' (*ḍū*) and this is used as a descriptor (*wuṣīfa bihi*). [The case of] **kurk** is similar, having the meaning 'beauty' (*ḥusn*). It is originally not an adjective, but when they combine it with **lū**, with the meaning of 'possessor of' (*ḍū*), it is used as a descriptor. **Lū** becomes a conjunctive word (*wuṣla*) for descriptions of generic nouns, comparable to expressions in the language of the Arabs such as 'possessor of water' (*ḍū mā'*) and 'possessor of gold' (*ḍū dahab*) and so forth. <141> They do not say \***'uzun lū**, as they do not say \*'owner of

25

30

35

<sup>94</sup> 'Tomorrow' is not explicitly stated in the Turkic phrase.

<sup>95</sup> Em. of VD *wağhika*.

long' (*dū ʔawīl*) in the Arabic language. The equivalent (*murādīf*) of 'beautiful' (*ḥasan*), a real adjective, is **kukġak dur**, except that it has the connotation of affection and beauty with regard to children.

42. Chapter on the connection of the passive participle  
to the direct object

5

1. In the case of the equivalent (*murādīf*) of 'I saw a man whose slave was beaten' (*raʾaytu raġulan maḍrūban mamlūkuhu*) you say **bir ʾar-nī kur-du-m ʾur-ul-miš qul-i**. It is permitted [to say] **kur-du-m bir ʾar-nī ʾur-ul-miš qul-i**. The adjective cannot precede <VD 56<sup>v</sup>> the described [noun], therefore they do not say \***ʾur-ul-miš qul-i ʾar-nī kur-du-m** nor \***bir ʾar-nī ʾur-ul-miš qul-i kur-du-m**. The verb can only be placed in the middle or preceding the direct object, but the adjective always follows the described [noun]. For 'I saw a man whose father was given a *dirham*' (*raʾaytu raġulan muʔtan ʾabūhu dirhaman*) you say **bir ʾar-nī kur-du-m bir-il-miš ʾaṭa-s-i-n-ā bir ʾaqġā**, in agreement with these constructions.

10

15

43. Chapter on the connection of the verbal noun to the direct object

1. For 'Sanġar's beating [of] Sunqur is harsh' (*ḍarbu sanġara sunqura šadīdun*) you say **sanġar ʾur-maq laq-i** or **ʾur-maq-i sunqur-nī qāṭī dur**. It is permitted to say **sunqur-nī sanġar ʾur-maq-i qāṭī dur** or **sanġar ʾur-maq-i sunqur-nī qāṭī dur**. All of this is permitted. The direct object precedes the verbal noun either with its agent or without it, unlike [the verbal noun] in the Arabic language. This is because the marker of objectivity appears in the object. For 'I liked Sanġar's beating Sunqur' (*ʾaḥbabbtu ḍarba sanġar sunqur*) you say **saw-di-m sanġar ʾur-maq-nī sunqur-nī**. It is permitted [to say] **sanġar ʾur-maq-nī sunqur-nī saw-di-m** and **sanġar ʾurmaq-nī saw-di-m sunqur-nī**. It is not permitted [to say] **sanġar saw-di-m ʾur-maq-nī sunqur-nī** nor **sunqur-nī saw-di-m sanġar ʾur-maq-nī**.

20

25

30

44. Chapter on the object of reason

1. [The object of reason (*al-mafʿūl lahu*) is, e.g.,] for 'I came to you [sg.] [out of] love' (*ġiʔtuka maḥabbatan*) you say **san-i saw-mak-im-dan kal-di-m**. The meaning of **kal-di-m** is 'I came' (*ġiʔtu*); **saw-mak-im-dan** means 'from my love' (*min maḥabbatī*). The meaning of

- san·i** is 'to you [sg.]' (*laka*).<sup>96</sup> It is permitted to put the verb at the beginning or at the end in this case, whether <142> the motive and the object depend from the same agent, as we showed in the examples, or from two [different] agents. Thus, for 'I came to you [sg.] out of fear of evil from Sanğar' (*ğituka ħawfa sanğarin aš-šarra*) you say **kal·di·m sağā sanğar yaman·dan qurq·maq·in dan**. Its analysis is **kal·di·m** 'I came' (*ğitū*) and **sağā** 'to you [sg.]'<sup>97</sup> (*laka*) and **yaman·dan** 'from evil' (*min šarrin*) and **qurq·maq·in dan** 'from fear of him' (*min ħawfihi*).
2. If it [sc. the object] is not related to the motive (*illa*), as in 'I believed in order to enter heaven' (*ʿāmantu li-duḥūl al-ğanna*), <VD 57> you say **kirtun·du·m kir·mak·um ʿuğun ʿuğmaq·qā**. [And as for] **kirtun·du·m**, it means 'I believed' (*ʿāmantu*); **kir·mak·um** [means] 'my entering' (*duḥūlī*); **ʿuğun** [means] the [particle] *li* that expresses a motive, **ʿuğmaq·ā** means 'to heaven' (*li-l-ğanna*). **ʿUğmaq** means 'heaven' (*al-ğanna*); the *q* that is vocalised with *a* and with which the *q* of **ʿuğmaq** is assimilated indicates the object. And as to **qā** or **ğā**, they form a way to express the meaning 'to' (*ʿilā*), namely the goal, while **nī** expresses the proper object. This is why we say **ʿaqğā·nī bir·du·m sanğar·ğā**, meaning 'I gave Sanğar the *dirham*' (*ʿaṭaytu ad-dirhama sanğara*) i.e. 'to Sanğar' (*li-sanğar*). The giving actually occurred to the *dirham* and Sanğar is the one to whom the *dirham* is handed. The equivalent (*naḏīruhu*) of this in Arabic is 'I handed the *dirham* to Zayd' (*dafaṭu ad-dirhama ʿilā zaydin*). It is not permitted [to say] 'I handed the *dirham* Zayd' (*dafaṭu ad-dirhama zaydan*).
3. **Kim** also denotes the motivation with the meaning of 'in order to' (*kay*). You say **ʿanda·di·m san·i kim ʿāš ya·kā·san** 'I called you [sg.] so that you eat the meal' (*daʿawtuka kay taḳula ṭ-ṭa ʿāma*). This is the most correct, viz. that the particle of motivation follows the noun, although it may also follow the verb. Thus you say **kim ya·kā san ʿāš** and you may [add] **san·i ʿanda·di·m**.

#### 45. Chapter on the concomitant object

1. [The concomitant object (*al-mafʿūl maʿahu*) is, e.g.,] 'I sat next to the column' (*ğalastu wa-s-sāriya*) you say **ʿulṭur·du·m dirak bilā**.

<sup>96</sup> It is interesting to note that according to western interpretation, **san i** is the object of **sawmak imdan** rather than of **kal dim**. 'To you' (*laka*) as such does not explicitly occur in this sentence.

<sup>97</sup> This must be understood as a paraphrase of the direct object with *li*, rather than a direction.

**dirak** is 'a column' (*as-sāriya*) i.e. 'a pillar' (*ʿamūd*). [As for] **bilā**, its meaning is 'with' (*maʿa*). The concomitant object is only used in combination with an explanatory word that is the equivalent of 'with' (*maʿa*), namely **bilā** (*muṣarraḥan*). Likewise, the object of reason is always used with the equivalent (*murādif*) of the particle 'from' which denotes the reason (*min as-sabbabiyya*), as we mentioned in the preceding chapter [see above Section 44]. Here it is permitted to put the verb either at the beginning or at the end.

#### 46. Chapter on the excepted

10 1. [The exception (*al-mustaṭnā*) is, e.g.,] For 'the people stood up, except Saṅḡar' (*qāma n-nās ʾillā saṅḡar*) you say **kiši-lar ṭur-di-lar maqar saṅḡar**. It is not permitted to put **maqar saṅḡar** before **ṭur-di-lar** nor before **kiši-lar**.

15 2. In the case of the exception that is made devoid [of governance] (*mufarraḡ*), you say for 'none stood up except Saṅḡar' (*mā qāma ʾillā saṅḡar*) **ṭur-ma-dī maqar saṅḡar**; and for 'none stands up except Saṅḡar' (*mā yaqūm ʾillā saṅḡar*) **ṭur-ma-ḡay maqar saṅḡar**. 'I did not eat except the loaf' (*mā ʾakaltu ʾillā l-ḡubza*) <VD 57ʷ> **ya-ma-du-m maqar ʾatmak**. It is permitted to say **ʾatmak-nī**.

20 3. The exception occurs both uninterrupted (*mutaṣṣal*), devoid [of governance], as in the examples given, and interrupted (*munqaṭi*). <143> Thus you say for 'I saw people except a horse' (*ʾabṣartu n-nāsa ʾillā farasan*) **kiši-lar-nī kur-du-m maqar ʾaṭ**.<sup>98</sup> It is not permitted to put the excepted [noun] between the verb and the word from which the exception is made (*al-mustaṭnā minhu*). So it is not permitted to say **kiši-lar maqar saṅḡar ṭur-di-lar**.

30 4. An exception may also be made with what is the equivalent of 'other' (*ḡayran*), i.e. **ʾuzkā** and **ʾayruq**. Thus you say **kiši-lar ṭur-di-lar saṅḡar-dan ʾuzkā** ['people stood up except Saṅḡar'] and **saṅḡar-dan ʾayruq**. **Dan** means 'from' (*min*), as if one wishes to say 'another from Saṅḡar' (*ḡayr min saṅḡar*). It is permitted to put **saṅḡar-dan ʾuzkā** and **saṅḡar-dan ʾayruq** either before the verb, or the word from which the exception is made, or the verb that is devoid [of governance]. It also occurs in the interrupted exception. In that case you say **kiši-lar**  
35 **kur-du-m ʾaṭ-ṭan ʾuzkā** ['I saw people except a horse'] or **ʾaṭ-ṭan ʾayruq**. The base form [of **ʾaṭ-ṭan**] is **ʾaṭ-dan**. The *d* is substituted for a *ṭ* which subsequently assimilates with the [preceding] *ṭ*. You may put

<sup>98</sup> This sentence is probably a calque of the Arabic.

the excepted [word] at the beginning in the interrupted exception, in the same way as this is permitted in the uninterrupted exception.

5 If the exception is made from a nominal sentence, like ‘the people are your [sg.] brethren except Saṅḡar’ (*an-nās ʾiḥwatuka ʾillā sanḡar*), you say **kiši-lar qarindaš-lar-iḡ-dur maqar sanḡar**. It is not permitted to put **maqar sanḡar** at the beginning, as we have mentioned already.

10 6. If you make an exception with a noun, you say **sanḡar-dan ʾuzkā** and **sanḡar-dan ʾayruq**. It is permitted to put it both at the beginning and at the end as we mentioned in [the Section on] the Verbal Sentence [see above Section 24.2b].

#### 47. Chapter on the specification

1. In the language of the ʾAtrāk there is no transferred specification (*tamyiz manqūl*), for they use it with the base form.<sup>99</sup> Thus they say  
15 ‘Saṅḡar’s spirit was good’ (*tābat nafsu sanḡar*) **kuṅl-i yaqši ʾbul-dī**. **Kuṅl-i** means ‘his heart’ (*qalbuḥu*), **yaqši** means ‘good’ (*ṭayyiban*) and **ʾbul-dī** means ‘he became’ (*ṣāra*). There is no transferred specification derived from the object either. So they say for ‘I planted the earth with trees’ (*ḡarastu l-ʾarḡa šaḡaran*)<sup>100</sup> **dik-tu-m ʾaḡaḡ yir-dā** [‘I planted  
20 trees in the earth’], in accordance with the base form.

2. As to the non-transferred specification (*ḡayr al-manqūl*), it [consists of] the countable (*al-muqaddarāt*), and those are the number (*ʿadad*), the volume (*mukāl*), the weight (*mawzūn*) and the length (*mamsūh*).

25 3a. The number. You say **ʾuḡ-ar kal-dī** for ‘three men came’ (*ḡāʾa ṭalāṭatu riḡālin*). Its base form is **ʾuḡ ʾar**. ʾUḡ is ‘three’ (*ṭalāṭatu*) and ʾar is ‘man’ (*raḡul*). It is only used in combination with the singular. You say <VD 58ʿ> **bir-ar** ‘one man’ (*raḡul wāḡid*) and **ʾikī ʾar**, ‘two men’ (*raḡulāni*), up to ten. If you say ‘eleven [men] came’ (*ḡāʾa ʾaḡad ʿaṣar*) [they say] **ʾun bir-ar kal-dī** [and ‘twelve men came’] **ʾun-ikī ʾar kal-dī**. Its base form is **ʾun ʾikī** and **ʾun ʾuḡ**, up to nineteen. [They also say] ‘twenty men’ (*ʿiṣrūna raḡulan*) **yikirmi-y-ar**; ‘twenty one’ (*wāḡid wa-ʿiṣrūna*) **ʾikirmi-bir-ar**; ‘twenty two’ (*ʾiṭnāni wa-ʿiṣrūna*) **ʾikirmi-y-ikī ʾar**, and ‘thirty men’ (*ṭalāṭūna raḡulan*) **ʾuṭuz-ar**. Its base form is  
30 **ʾuṭuz ʾar** up to a hundred. Thus you say **yuz-ar kal-dī** i.e. ‘a hundred  
35

<sup>99</sup> What ʾAbū Ḥayyān means to say here is that sentences of the type *tāba sanḡar nafsan*, literally ‘Saṅḡar was good in spirit’, in which *sanḡar* is the subject and *nafs* takes the accusative case, do not occur in Turkic.

<sup>100</sup> Probably a calque of *ḡarastu š-šaḡara fi l-ʾarḡi* ‘I planted the tree in the soil’.

men came' (*mi'a raḡulin ḡā'a*) and 'two hundred men' (*mi'atā raḡulin*) 'iki-yuz-ar; 'three hundred men' 'uḡ-yuz-ar; 'four hundred' *durt yuz* 'ar up to a thousand. Thus you say *min* 'ar ['a thousand men']; 'two thousand' (*'alfāni*) 'ikī min 'ar; 'ten thousand men' 'un min 'ar.

5 <144>

3b. In the remaining countable objects the specification only occurs in the singular. If you construct an active participle from the singular number, you say 'ilki-nḡī 'the first of the sequence' (*al-ʾawwal al-mu-rattab*), it means that a second follows after it. 'iki-nḡī means 'the second' (*aṭ-tānī*); 'uḡ-unḡī 'the third' (*aṭ-tālīt*); *durd-unḡī* ['the fourth'] *baš-inḡī* ['the fifth'] *alṭi-nḡī* ['the sixth'] *yadi-nḡī* ['the seventh'] *sakis-inḡī* ['the eighth'] *ṭuqṣ-inḡī* ['the ninth'] and 'un-inḡī ['the tenth']. The same goes for the compound number (*al-ʿadad al-mu-rakkab*) in the Arabic language. You say 'un bir-inḡī ['eleventh'] and 'un 'iki-nḡī ['twelfth'] up to twenty. Thus you say *yikirmi-nḡī* as if [the speaker] said 'twentieth' (*al-ʿāširūn*) although this is never expressed that way in Arabic. Similar to this is the status of the rest of the groups of ten after it, up to a hundred. Thus you say *yuz-inḡī*. What comes after a hundred is not actually used. Derivations of the numbers are not used. When they wish to utter this meaning, they repeat the numeral while adding a *n*. Thus you say *bir-in bir-in* ['one by one'] 'iki-n 'iki-n ['two by two'] up to 'un ['ten']. [And] thus you say 'un-in 'un-in i.e. 'ten by ten' (*ʿašara ʿašara*). In [the Chapter on] the consonants of Addition [cf. above Section 19.11h] we have already treated the attachment of the marker of collectivity (and I refrain from repeating it here).

3c. The volume. For 'I have one 'irdabb<sup>101</sup> of wheat' (*'indī ʾardabbu qamḥin*) you say *bir ʾirdab buḡday bar qaṭ-im-dā* [literally 'near me'].

3d. The weight. For 'I have one *raṭl*<sup>102</sup> of oil' (*'indī raṭl zaytan*) you say *bir baṭman yaḡ-bar qaṭ-im-dā*.

3e. The length. For 'I have a cubit of cloth' (*'indī ḡirā' tawban*) you say *bir qarī ṭun bar qaṭ-im-dā*. With the meaning of 'I have a foot of ground' (*'indī šibr ʾarḡan*) you say *bir qariš yar bar qaṭ-im-dā*.

4. <VD 58<sup>v</sup>> In all of these examples the specification does not precede what is specified by it. It is permitted to put the equivalent (*murādif*) of the specification at the beginning and to put the specification after it as well. Thus you say 'ar 'uḡ-ar kal-dī ['men, three men

<sup>101</sup> One 'irdabb equals appr. 198 l.

<sup>102</sup> One raṭl equals appr. 3.2 kg.

came'], its meaning is 'of the men, three men came' (*min ar-riḡāl ḡā'a talāṭatu riḡālin*).<sup>103</sup>

#### 48. Chapter on the competing regency

1. Sometimes two verbs are connected to one or more nouns. The  
5 noun may stand at the beginning or at the end. Thus, for 'I beat, abused and stabbed Saṅḡar' (*ḡarabtu wa-ṣatamtu wa-ṭa<sup>c</sup>antu saṅḡara*), you say 'ur·du·m suḡ·du·m ṣaṅḡ·du·m saṅḡar·nī. You may put saṅḡar·nī either before, or between any of the verbs.

#### 49. Chapter on the annexation

- 10 1. The annexation (*'iḡāfa*) occurs with particles and without particles.  
2. The particles of the annexation are **dan** with the meaning 'from' (*mīn*) or 'off' (*'an*); **dā** with the meaning 'in' (*fī*); **daqīn** with the meaning 'to' (*'ilā*) and 'until' (*ḡattā*); **bilā** with the meanings 'with' (*al-bā'*) and 'together with' (*ma'a*).  
15 3. They do not have an equivalent (*murādif*) particle to the *k* of <145> comparison, but they use either a noun, like **kibī** or **dakī**, or a verb, like 'uḡṣa·r, with the meaning 'he looks like' (*yuṣbihu*). This verb is [pronounced] with a *q* and some of those who do not speak this language correctly change it into a *ḡ*. The past tense of 'uḡṣa·r is 'uḡṣa·dī  
20 with the meaning 'he resembled' (*'aṣbaha*).  
4. The particle of the oath is 'uḡun.  
5. 'On' (*'alā*) is expressed with the equivalent (*murādif*) 'on top of' (*fawqa*). So they say for 'Saṅḡar [sits] on the horse' (*saṅḡar 'alā l-farasi*) 'aṭ·'usti·n·dā·dur saṅḡar.  
25 6. Niṅ has the meaning 'of' (*al-lām*). You say for 'whose are you [sg.]' (*'anta li-man*) **san kim·niṅ·san** and for 'this is Saṅḡar's' (*ḡādā li-saṅḡar*) **bū saṅḡar niṅ dur**. In the language of the Oḡuz [they say] **saṅḡar·iṅ dur** with the post-palatal *n*<sup>104</sup> alone and with deletion of the first *n*.  
30 7. Barū is used in combination with [words denoting] time in the same way as 'since' (*munḡu*) is used in the Arabic language. For 'I have not seen him since yesterday' (*mā ra'aytuhu munḡu 'amsi*) you say **dun·ā kun·dan barū kur·ma·du·m**. **Dunā**<sup>105</sup> is 'yesterday' (*'amsi*);

<sup>103</sup> This is not entirely correct, since 'of' is not reflected in the Turkic sentence; the correct translation should rather be 'men, three men came'.

<sup>104</sup> The text reads *kāf ḡayṣūmiyya* 'Bedouin *k*, which must be an error for *nūn ḡayṣūmiyya*.

<sup>105</sup> The *ā* in *dunā*, probably to be read [dūne], is inserted for phonological reasons.

**kun** is ‘day’ (*yawm*); **dan** is ‘from’ (*min*); **barū** is ‘since’ (*munḍu*)]<sup>106</sup> [and] **kur·ma·du·m** means ‘I did not notice’ (*mā ʾabṣartu*).

8. The particle **ḡālī**, too, is used with the meaning ‘since’ (*munḍu*). Thus you say **man bar·ḡālī** i.e. ‘since I went’ (*munḍu dahabtu*) and  
5 <VD 59ʳ> also **ṭur·ḡālī** ‘since I sat down’ (*munḍu qumtu*).<sup>107</sup>

9. For ‘I came out of the house’ (*ḡiʿtu min al-bayti*) you say **ʾaw·dan kal·di·m**; ‘I was in the house’ (*kuntu fi l-bayti*) **ʾaw·dā ʾi·du·m**; ‘I walked until the house’ (*sirtu ʾilā l-bayti*) **ʾaw·kā daqin yuri·di·m**. **ʾAw** is ‘the house’ (*al-bayt*), **kā** is used with the word that is pronounced palatalised and **ḡā** is used with the word that is pronounced velarised. The meaning of both of them is ‘to’ (*ʾilā*) but they are [also] used pleonastically (*murdiḡa*) to **daqin**.<sup>108</sup> ‘I walked to Mecca’ (*sirtu ḡattā makka*) **makka·kā daqin yuri·di·m**. For ‘from this side to this side the ground is yours [sg.]’ (*min hādā ṭ-ṭaraf ḡattā hādā ṭ-ṭaraf al-ʾardu laka*) they say **bū ʾuḡ·dan bū ʾuḡ·ḡā daqin ḡā yir san·iḡ dur** and they  
10 say **san·iḡ dur** with deletion of one of the two *ns*.<sup>109</sup> **ḡā** may be deleted [from **daqin ḡā**].

10. ‘I went out hunting’ (*ḡaraḡtu ʾilā ṣ-ṣaydi*) **ʾav·ḡā čiq·tu·m**. **ḡā** has the meaning ‘to’ (*ʾilā*), as we showed and the meaning of the *lām* of motivation [i.e. the particle *li*]. Thus, for ‘I stood up for Saḡar’ (*qumtu li-sanḡar*) you say **sanḡar ḡā ṭur·du·m** or you say **sanḡar ʾuḡun ṭur·du·m** i.e. ‘for Saḡar’s sake’ (*li-ʾaḡli sanḡar*).  
20

11. **daqin** is derived from **dak·dī** i.e. ‘he reached’ (*balagā*) and ‘he arrived’ (*waṣala*).

12. [You say for] ‘I wrote with the pen’ (*katabtu bi-l-qalami*) **qalam bilā yaz·du·m** or **biti·di·m** or **čiz·di·m**. [And for] ‘I came together with Saḡar’ (*ḡiʿtu maʿa sanḡar*) **sanḡar bilā kal·di·m**.  
25

13. These are the particles of annexation that come at the end [of the word], as we showed, unlike the particles of annexation in the  
30 Arabic language: they can be used with nouns and examples of their use with overt nouns have been given.

14. As far as the fact that they are used with suffixed personal pronouns is concerned: you say for ‘from me’ (*minnī*) **man·dan**; ‘from us’ (*minnā*) **biz·dan**; ‘from you [sg.]’ (*minka*) **san·dan**; ‘from you [pl.]’ (*minkum*) **siz·dan**; <146> ‘from him’ (*minhu*) **ʾan·dan**; [and for] ‘from them’ (*minhum*) **ʾan·lar dan**.  
35

<sup>106</sup> Alternative reading from İÜ.

<sup>107</sup> Em. for *munḍu qaʿadtu*.

<sup>108</sup> In Western analysis this would rather be the other way around, i.e. **daqin** being a pleonasm to **ḡā**.

<sup>109</sup> This would implicate something like **sannin dur**.



15. And [you say for] ‘together with me’ (*ma<sup>ʕ</sup>*) **man·im·bilā**; ‘together with us’ (*ma<sup>ʕ</sup>anā*) **biz·iṅ·bilā**; ‘together with you [sg.]’ (*ma<sup>ʕ</sup>aka*) **san·iṅ·bilā**; ‘together with you [pl.]’ (*ma<sup>ʕ</sup>akum*) **siz·iṅ·bilā**; ‘together with him’ (*ma<sup>ʕ</sup>ahu*) **ʾa·niṅ·bilā**; [and for] ‘together with them’ (*ma<sup>ʕ</sup>ahum*) **ʾan·lar·niṅ bilā**. **bilā** has the meaning ‘together with’ (*ma<sup>ʕ</sup>a*) as if it were a locative. The equivalent (*murādif*) of ‘in’ (*fi*), which is **dā**, is not used with it, unlike **qaṭi** with the meaning ‘at’ (*ʕinda*).

#### 50. Chapter on the oath

- 10 1. When they swear, they say for ‘I have sworn I shall not go’ (*ḥalaftu mā ʾarūḥu*) **ʾant·iš·ti·m bar·ma·ġa·man** <VD 59<sup>v</sup>> if they mean is a future tense. **Bar·mas·man** serves to negate the present tense (*ḥāl*). For ‘I did not go’ (*mā ruḥtu*) you say **bar·ma·di·m**. With the meaning ‘I swear, I shall not go’ (*ʾanā ḥālif mā ʾarūḥ*)<sup>110</sup> [they say] **ʾant ʾiġ·miš·man bar·ma·ġa·man**.

- 15 2. **ʾUġun** is [used] for the motivation and by this the oath in the future is meant. You say **sanġar baš·i ʾuġun**, **sanġar kuz·i ʾuġun** and **sanġar ġān·i ʾuġun** i.e. ‘for his head’s sake’ (*li-ʾaġli raʾsihi*), ‘for his eye’s sake’ (*li-ʾaġli ʾaynihi*) and ‘for his soul’s sake’ (*li-ʾaġli rūḥihi*)  
20 **bar·ma·ġa·man**.<sup>111</sup>

3. All of these expressions are used as oaths, instead of [real?] oaths (*mawāqi<sup>ʕ</sup> al-qasam*). The sentence to which the oath is sworn [comes] after [the oath], whether it is affirmative or negative. It may also precede, thus you say **sanġar kuz·i ʾuġun sunqur bar·daġi·dur** [‘by the eye of Sanġar, Sunqur will come’] and **sunqur bar·daġi·dur sanġar kuz·i ʾuġun**.

4. Baylik wrote in his book: ‘In our lands we do not use any of these oaths, but one bends one’s forefinger, as one does in the case of the number seventy in the counting system of the Copts, without the nail of the thumb touching it. Then one says **bū ʾant** [‘this oath’] “...I did not do such-and-such and I did not commit it”. One hardly breaks his oath. Its meaning is: if [the oath] is broken, one will go on living like this, with one’s back bent.’

<sup>110</sup> Literally: ‘I am swearing, I will not go’.

<sup>111</sup> This is the verbal complement that was omitted in the three preceding examples.

## 51. Chapter on the annexation without a particle

1. The element to which is annexed precedes the annexed in this language. Thus for 'Sanğar's slave stood up' (*qāma ġulāmu sanğar*) you say **sanğar qul-ī ʿur-dī**. It is permitted to put **ʿur-dī** at the beginning.

- 5 2. Something has already been said about the annexation in the Chapter on the Determined Word [see above Section 25.4]. If you annex [a word] to an interrogative noun in the Arabic language you say 'whose slave are you' (*ġulāmu man ʿanta*). With the same meaning in this language [you say] **kim-niḡ qul-ī-san**. Its literal meaning is 'to whom his slave [are] you' (*li-man mamlūkuhu ʿanta*). And for 'whose slave you [sg.] may beat, I will beat' (*ġulāmu man taḍrub ʿaḍrub*) [you say] **kim-niḡ qul-in ʿur-saḡ ʿur-ġa-man**. *sā* is the particle of condition and the post-palatal *n* is the pronoun of the second person. Its base form is **ʿur-ur-saḡ** because **ʿur-ur** is the imperfect tense and one of the two *rs* is elided to alleviate. For 'the slave of the one in the house is standing' (*ġulāmu l-ladī fi d-dāri qāʿim*) [you say] **ʿawda ki-niḡ qul-ī ʿur-miš dur** <VD 60ʿ> and **kur-kan-im-niḡ qul-ī ʿur-miš dur** for 'the slave of [the one] I saw is standing' (*ġulāmu l-ladī raʿaytuhu qāʿim*) <147> and 'the slave of the one I noticed is standing' (*ġulāmu l-ladī ʿabṣartuhu qāʿim*) **ʿul kim kur-ḍu-m ʿa-nī qul-ī ʿur-miš dur**.

- 15 3. In this language 'some [of]' (*baʿḍ*) and 'all' (*kull*) belong to the nouns that in the Arabic language are annexed both formally (*laḡzan*) and semantically (*maʿnan*), or else semantically but not formally. The equivalent (*murādif*) of 'some [of]' (*baʿḍu*) in this language is **bir ʿanğā**. Its base form is **bir** with the meaning 'one' (*wāḡid*) and **ʿanğā** with the meaning 'like this' (*miṡlu dālīka*) and these two words express the meaning of the partitive. If you say in Arabic 'I ate some of the fish' (*ʿakaltu baʿḍa s-samaki*), in this language with the same meaning, you say **yi-ḍu-m bāliq-niḡ bir-anğā-s-i-n**. **Si** is the indicator (*datīl*) of the annexation to the third person if the last consonant of the noun is vocalised. The *n* is the indicator of objectivity (*(datīl al-mafʿūliyya)*).

- 20 4. The equivalents (*murādif*) of 'all' (*kull*) in this language are **tayma** and **barğā**. They are annexed either to an undetermined noun or to a determined noun.

- 35 5. If they are annexed to an undetermined noun, with the meaning 'do not eat all of the fish' (*lā taʿkul kulla samakin*) you say **tayma bāliq-nī ya-mā**. And for 'do not eat the whole fish' (*lā taʿkul kulla s-samaki*) [you say] **bāliq-nī barğā-s-i-n ya-mā**. **Tayma** is only used as a general statement about individual nouns (*ʿumūm al-ʿafrād*); **Barğā** is only used as a general statement about collective nouns (*ʿumūm aṣ-*

*šumūl*); the difference between the two constructions is clear. *Tayma* is Qipčāq; in Oğuz you say *dakmā*. You say for 'I gave each man a dirham' (*ʔa ʔaytu kulla rağulin dirhaman*) *dakmā ʔar·kā bir ʔaqğā bir·di·m*; *kā*, which is attached to it, is the indicator of objectivity and *dakmā* forms a composite with what follows it: *bir* and *ʔar*. For this [reason] the marker of the object appears at the end of the composite. For 'I took all of it' (*ʔaħadtu al-kulla*) [You say] *barğa·s·i·nī ʔal·du·m*. 'All of it' (*kullahu*) means *barğa·sa·nī*; the *s* [indicates] the annexation and the *n* the objectivity.

10 6. If you annex to a pronoun, you annex either to a first, or a second or a third person.

7. If you annex to a first person, you say *qul·um ʔur·dī* ['my slave stood up'] and *qul·um·nī ʔur·du·m* ['I beat my slave']; *qul·umuz ʔur·dī* and *qul·umuz·nī ʔur·du·q*. [If you annex] to a second person, you say *qul·uŋ ʔur·dī*, *qul·uŋ·nī ʔur·du·ŋ* and *qul·uŋuz·[nī] ʔur·du·ŋuz*. [If you annex] to a third person, you say *qul·ī ʔur·dī*, *qul·u·nī ʔur·du·m* ['I beat his slave'] and *qul·lar·i ʔur·du·lar* i.e. 'their slaves stood up' (*mamālikuhum qāmū*). *Lar* is attached to the singular if you annex to a singular; [its] *r* is vocalised with an *i*. This indicates <VD 60<sup>v</sup>> the plural of the annexed; it may also indicate the plural of the ones to whom is annexed (*al-muđāf ʔilayhim*). This can be deduced from the context (*siyāq al-kalām*). With the meaning 'Sanğar, his slaves are standing' (*sanğar mamālikuhu qāʔimūn*), you say *sanğar niŋ qul·lar·i ʔur·miš·lar dur*. If you [mean] 'the Sanğars, their slaves are standing' (*as-sanāğir mamālikuhum qāʔimūn*), you say *sanğar·lar niŋ qul·lar·i ʔur·miš·lar dur*.

## 52. Chapter on the appositions

1. The attribute precedes the qualified noun if it is singular. For 'I saw a wise man' (*ʔabşartu rağulan ʔāqilan*) you say *kur·du·m bir ʔuşlü ʔar* <148> and *bir ʔur·miš ʔar* for 'a standing man' (*rağulan qāʔiman*); and *ʔikī ʔuşlü ʔar kur·du·m* for '[I saw] two wise men' (*rağulayni ʔāqilayni*). They satisfy themselves with putting the adjective in the dual form [and do not need] the dual form of the described noun.

2. And for 'wise men' (*riğālan ʔuqalāʔ*) [you say] *ʔuşlü ʔar·an·lar*. Its base form is *ʔar·lar*, but they add a *n*. to it. Let us study the motive for the addition of the *n*. In the case of *ʔaṭ* you say just *ʔaṭ·lar* and in the case of *qul* just *qul·lar*. They satisfy themselves with putting the described noun in the plural and [and do not need] the plural of the adjective, i.e. *ʔuşlu*. If the adjective is singular and the described noun

is not mentioned, the plural is attached to it. Thus you say **ʾuṣlū-lar kur-du-m** i.e. 'I saw the sage' (*raʾaytu al-ʿuqalāʾ*). They may use **ʾaran** and with this the plural is meant. So they say **ʾan-lar ʾar-an ʾuṣlū-lar-dur** i.e. 'they are the wise men' (*hum ar-riḡāl al-ʿuqalāʾ*). For  
 5 'I saw two standing men' (*raʾaytu raḡulayni qāʾimayni*) they say **ʾikī ṭur-miš ʾar kur-du-m** and '[I saw] standing men' (*riḡālan qāʾimīn*) **ṭur-miš ʾar-an-lar kur-du-m**. They suffice with the plural of the described noun and [refrain from using] the plural of the adjective. You do not pluralise, except when the described noun is deleted or when it is used as a predicate, as in **kiši-lar ṭur-miš-lar**.

3. If a noun in the genitive case occurs as an attribute to an undetermined word, you say for 'I visited a man from the Turks' (*daḡaltu ʿalā raḡulin min at-Turk*) **kir-di-m bir ʾar qaṭ-i-n-ā turk tan**. Its base form is **qaṭ-i-n-ḡā**, but [ḡā] is elided although it is permitted to use it.  
 15 Its [literal] meaning is 'I entered to with a man from the Turks' (*daḡaltu ʾilā ʿinda raḡulin min at-Turk*).<sup>112</sup> **Tan** is in fact identical with **dan** and it expresses the meaning 'from' (*min*).

4. If a locative occurs as attribute to an undetermined noun, you say for 'I visited a man at yours [sg.]' (*daḡaltu ʾilā raḡulin ʿindaka*)  
 20 **kir-di-m bir ʾar qaṭ-in-ḡā**. Its base form is 'to with a man' (*ʾilā ʿinda raḡulin*). If you mean 'I visited the chief' (*daḡaltu ʾilā l-ʾamīri*) you do not use **qaṭ-in-ḡā** <VD 61<sup>r</sup>> since it is deleted in their language. Thus you say **kir-di-m bay-kā**.

5. If a verbal sentence occurs as an attribute, with the meaning 'a man stood up whom I loved' (*qāma raḡulun ʾaḡbabtuhu*) you say **ṭur-dī bir ʾar kim saw-du-m ʾa-nī**. **Kim** ties the sentence that occurs as an attribute to the described words that precede it, e.g. 'a man stood up whom I love' (*qāma raḡulun ʾuḡibbuhu*) **ṭur-dī bir ʾar kim saw-ar man ʾa-nī**.

30 6. If a nominal sentence occurs as an attribute, for 'a man stood up whose father is going' (*qāma raḡulun ʾabūhu dāhibun*) you say **ṭur-dī bir ʾar kim ʾaṭa-s-ī kit-miš tar**. **Kim** links the sentence that occurs as an attribute with the described [element].

35 7. If a conditional sentence occurs as an attribute, for 'a man stood up, if you [sg.] see him you will love him' (*qāma raḡulun ʾin raʾaytahu ʾaḡbabtahu*), you say **ṭur-dī bir ʾar kim kur-ar-saḡ saw ka-san**. **Kim** links the conditional sentence that occurs as an attribute, with the described [element]. It is not permitted to put the noun in the genitive case at the beginning, nor the locative, nor the conditional sentence,

<sup>112</sup> The Arabic original is grammatically correct, since *ʿinda* 'with', a *zarf*, may be preceded by a *ḡarf ḡarr*

nor any other element when it occurs as an attribute to what is described; you must put it at the end, as you do in the Arabic language.

8. If the attribute is either a derived or a non-derived noun, it needs special analysis a part of which has been dealt with; the rest is yet to be discussed in the description of the determined nouns.

9. If more than one attribute is used, they are put at the beginning since <149> single adjectives must also be placed at the beginning. Thus, for 'I saw Saṅḡar the wise, kind writer' (*ra'aytu sanḡara al-kātiba al-ʿālima al-karīma*) you say **ḡumart bilkā bitikḡi sanḡar·nī kur·du·m**.

10. Know that there are five kinds of determined nouns, as we mentioned in the Chapter on the Determined and Undetermined Nouns: the suffixed pronoun, the proper name, the indicated word, the relative and the noun that is annexed to any one of these [see above Section 25].

11. As for the suffixed pronoun, it cannot be described and you do not describe with it. As for the proper name, you do not describe it and you do not describe with it; but you may describe with a demonstrative pronoun, a relative or an annexed noun.

12. An example of a description with the demonstrative pronoun with the meaning 'I saw this Saṅḡar' (*ra'aytu sanḡara hādā*) you say **kur·du·m sanḡar·nī ʿuṣbū**.<sup>113</sup> The most correct usage is **ʿuṣbū sanḡar·nī kur·du·m**, in other words, the demonstrative pronoun precedes.

13. An example of a description with the relative for 'I saw Saṅḡar who stood up' (*ra'aytu sanḡara alladī qāma*) you say **kur·du·m sanḡar·nī ʿul kim ṭur·dū**.<sup>114</sup> <VD 61<sup>v</sup>> The attribute does not precede here. If you mean 'I saw Saṅḡar the coming [one]' (*ra'aytu sanḡar al-ḡāʾiʿa*) you say **kur·du·m sanḡar·nī kal·kan·nī**. It is also permitted to say **kur·du·m kal·kan·nī sanḡar·nī**. The first [sentence] is according [to the rules of] the attribute (*ṣifa*) and in the second [sentence] it behaves like an apposition (*badal*). For 'I saw Saṅḡar who is in the house' (*ra'aytu sanḡara alladī fī d-dāri*) you say **kur·du·m ʿaw·da·kī sanḡar·nī**, according to the [rules of] the substitution. It is permitted to say **kur·du·m sanḡar·nī ʿaw·da·kī**, according to [the rules of] the attribute (*ṣifa*).

14. An example of the description with the annexed [noun], you say with the meaning 'I saw Saṅḡar, your [sg.] slave' (*ra'aytu sanḡara*

<sup>113</sup> Although the Arabic version of this sentence is grammatically correct, the grammaticality of the Turkic sentence is disputable.

<sup>114</sup> idem.

*ġulāmaka*) **kur·du·m qul·uḡ sanġar·nī**. This is the usage with the attribute put at the beginning. You say for 'I saw Sanġar, Sunqur's slave' (*raʾaytu sanġara mamlūka sunqurin*) **sunqur qul·u·nī sanġar·nī kur·du·m**. It is permitted to say **sanġar·nī sunqur qul·u·nī kur·du·m**.

5 15. An example of the description of the indicated noun is 'I saw this wise man' (*raʾaytu hādā l-ʿālima*) **kur·du·m ʾuṣbū bilka·nī**. The description stands at the end and the marker of the object appears in it. It is permitted [to say] **ʾuṣbu·nī bilka·nī**, as if it were used as an apposition (*badal*). The former is used according to the [basic] construction (*ġiha at-tarkīb*). Because of this the marker of the object only appears in the adjective.

10 16. An example of the description of the relative. With the meaning of 'I saw the kind coming one' (*raʾaytu al-ġāʾiya al-karīma*) you say **kur·du·m kal·kan·nī ġumart·nī**. It is permitted to say **kur·du·m ġumart·nī kal·kan·nī**. And with the meaning 'I saw the coming one, this one' you say (*raʾaytu l-ġāʾi hādā*) **kur·du·m kal·kan·nī ʾuṣbu·nī**.<sup>115</sup>

15 17. An example of the description of the noun.annexed noun. For 'I saw Sanġar's slave, Sunqur's brother' you say (*raʾaytu mamlūka sanġarin ʾaḡā sunqurin*) **sanġar qul·u·nī sunqur qarindaš·ī kur·du·m**, but it is more correct to say **sunqur qarindaš·ī sanġar qul·u·nī kur·du·m**.

### 53. Chapter on the conjunction

1. You say for 'Sanġar and Sunqur stood up' (*qāma sanġaru wa-sunquru*) **sanġar sunqur ʿur·du·lar**. It is permitted [to say] **ʿur·du·lar sanġar sunqur**. They do not have a word that is literally equivalent (*turādif*) to the conjunction 'and' (*wāw al-ʿaṭf*). They use the two nouns, the one following the other <150> without any link.

2. You say for 'Sanġar stood up and Sunqur' (*qāma sanġar fa-sunqur*) or 'and then Sunqur' (*tumma sunqur*) **sanġar ʿur·dī ʾan·dan sunqur**. **ʾAn·dan** expresses the notion of sequence without regard to the [distance in] time. It is used instead of 'and' (*al-fāʾ*) and 'then' (*tumma*). No particle in their tongue has the special function of either particle, but they use **ʾan·dan** for the common meaning (*al-qadr al-muṣṭarik baynahimā*) of both of them.

3. <VD 62ʾ> With the meaning 'the people, even Sanġar are standing up' (*an-nās ḥattā sanġar qāʾimūna*) you say **kiši·lar ʿur·miš·lar dur**

<sup>115</sup> These appear to be appositions rather than adjectives.

**saᅅar taqī řur-miř dur** [Lit.: 'the people are standing, Saᅅar is standing too']. **Taqī** expresses the meaning of 'even' (*řattā*), but it is not its equivalent (*murādif*), for its real meaning is 'too' (*'aydan*) which includes 'even' (*řattā*).

- 5 4. For 'Saᅅar or Sunqur stood up' (*qāma saᅅar 'aw sunqur qāma*) you say **saᅅar mū řur-dī yā sunqur**. This is the way they use it, the particle **yā** being the equivalent (*murādif*) of 'or' (*'aw*). For 'did Saᅅar stand up or Sunqur did stand up' (*'a qāma saᅅar 'am sunqur*) you say **saᅅar mū řur-dī yā sunqur** [Lit.: 'did Saᅅar stand up or did Sunqur']. They say [also] **saᅅar mū řur-dī yuq sā sunqur**. This expression has come to mean 'did Saᅅar stand up, or did Sunqur' (*'a qāma saᅅar 'am sunqur*).

- 15 5. **Yuq** is originally a noun with the meaning 'lack' (*ma'dūm*).<sup>116</sup> This is proved by the fact that it is possible to annex to it. With the meaning 'poor' (*faqīr*) they say **yuq-lū** 'possessor of lack' (*dū ma'dūm*). Annexation is one of the characteristics of nouns. [But] **yuq** came also to be used as the negating [particle] *mā*. As for **sā**, its meaning is 'if' (*'in*), as if [the speaker literally] says 'did Saᅅar stand up, no if Sunqur' (*'a qāma saᅅar lā 'in sunqur*). [**Sā**] corresponds to the meaning 'if Sunqur' (*'in sunqur*).<sup>117</sup>

- 20 6. You say for 'Saᅅar stood up, not Sunqur' (*qāma saᅅar lā sunqur*) **saᅅar řur-dī sunqur řur-ma-dī** [lit.: 'Saᅅar stood up, Sunqur did not stand up']. They do not have an equivalent (*murādif*) for our expression 'not Sunqur' (*lā sunqur*). For the meaning 'Saᅅar stood up—not so, it was Sunqur' (*qāma saᅅar bal sunqur*) you say **saᅅar řur-dī yuq sunqur řur-dī**. For 'Saᅅar did not stand up but Sunqur [did]' (*mā qāma saᅅar lākin sunqur*) you say **saᅅar řur-ma-dī 'awat sunqur řur-dī** [lit.: 'Saᅅar did not stand up, yes Sunqur stood up']. And for 'either Saᅅar, or Sunqur stood up' (*qāma 'immā saᅅar wa-'immā sunqur*) you say **yā saᅅar řur-dī yā sunqur řur-dī** as I said in the case of 'or' (*'aw*).

- 30 7. For 'I stood up and you' (*qumtu 'anā wa-'anta*) you say **man řur-du-m san taqī řur-du-ŋ**. **Taqī** reflects the meaning of the conjunction for the plural and it reflects the meaning 'until' of *comprise-*  
35 *ment* (*řattā bi-t-tađmīn*), according to the preceding remarks. For 'I

<sup>116</sup> *ma'dūm*, in fact, is a passive participle meaning 'lost, gone'.

<sup>117</sup> The author here refers to the Turkic sentence in the preceding paragraph: **saᅅar mū řur-dī yuq sā sunqur**. Note that he does not consider **sā** a part of the verb (which here perhaps should be reconstructed as **yuq \*i·sā** 'not be-COND' = 'if this is not'), but rather an independent particle, the equivalent of the Arabic conditional particles *law* and *'in*.

stood up and Saṅṅar' (*qumtu ʾanā wa-saṅṅar*) you say **man ʧur·du·m saṅṅar taqī ʧur·dī** and **saṅṅar ʧur·dī san taqī ʧur·du·ŋ** for 'Saṅṅar stood up and you' (*qāma saṅṅar wa-ʾanta*).

8. For 'I stood up and then you [did]' (*qumtu ʾanā tumma ʾanta*)  
 5 you say **man ʧur·du·m ʾan·dan san**. And for 'you stood up and [then] I [did]' (*qumta tumma ʾanā*) or **san ʧur·du·ŋ ʾan·dan man** ['You stood up and then I did']. <VD 62> For 'you stood up and then Saṅṅar [did]' you say **san ʧur·du·ŋ ʾan·dan saṅṅar**. For 'I ate the fish up to its head' (*ʾakaltu as-samaka ḥattā raʾsihā*) you say **bāliq·nī yidu·m**  
 10 **baš·in ḡā daqin ḡā**, from which it is permitted to elide **ḡā**.

9. **Ġin·ḡā** and **ḵin·ḡā** are equivalents (*turādif*) of 'until' (*ḥattā*). They are attached to the last [consonant] of the verb. **Ġin·ḡā** is attached to velarised words and **ḵin·ḡā** to palatalised words. As for the expression **dakin·ḡā** <151>, its base form is **dak kin·ḡā**. One of the  
 15 two *ks* assimilates with the other and is deleted with the purpose of alleviation. The past tense of **dak** is **dak·dī** meaning 'he reached' (*balāḡa*). If **ḡin·ḡā** or **ḵin·ḡā** is joined to the [second] verb, the verb has the form of the imperative, but the meaning is the future. For 'stand here, until I come' (*qum hunā ḥattā ʾaḡī·u ʾanā*) you say **ʧur**  
 20 **mundā man kal·ḵin·ḡā**, as if the speaker said 'until come I' (*ḥattā ʾaḡī ʾanā*). With the meaning 'you stood until I came' (*qumta ʾanta ḥattā ḡītu ʾanā*) they say **ʧur·du·ŋ san man kal·ḵin·ḡā**; **ḵin·ḡā** and **ḡin·ḡā** are attached to the verb.

#### 54. Chapter on the corroborative

25 1. The corroborative (*taʾkīd*) may be expressed formally (*lafzī*); in that case it consists in the repetition of the word (*ʾiʿāda al-lafz*) itself. It occurs with single words and sentences.

2. In the case of single words, it occurs with a noun e.g. **saṅṅar saṅṅar ʧur·dī** ['Saṅṅar Saṅṅar stood up'], with a verb **saṅṅar ʧur·dī ʧur·dī** ['Saṅṅar stood up, stood up'] and with a particle, e.g. **ʾawat ʾawat** ['yes, yes']. If the particle is connected to some [element], it is repeated together with it. Thus you say **ʾaw·dā ʾaw·dā ʧur·du·m** ['I stood up in the house, in the house']. When [it is used] in a sentence you say **saṅṅar ʧur·dī saṅṅar ʧur·dī** ['Saṅṅar stood up, Saṅṅar stood up'].  
 35

3. The corroborative may also be expressed semantically (*maʿnawī*). Sometimes it occurs with verbal nouns and sometimes with the restricting nouns (*ʾalfāz maḥšūra*).



4. Examples of its expression by a verbal noun are **ṭur·du·m ṭur·maq** ['I stood a standing up'] and **ya·du·m ya·mak** ['I ate a meal'].

5. In the case of the restricting nouns, the corroborative may be used to emphasise the agent. The verb originates from it and not from something else. For 'Sanğar himself stood up' (*qāma sanğar nafsuhu*) you say **sanğar ṭur·dī 'uz·ī**. It is also permitted to say **'uz·i bilā**. The meaning of *bilā* in this construction is 'together with' (*ma'a*), as if they say 'together with himself' (*ma'a nafsihi*) i.e. 'with himself' (*bi-nafsihi*). **Bilā** is also used with the meaning of the *b*, as if the speaker says 'he stood up with himself' (*qāma bi-nafsihi*). But they do not build affirmative sentences with the equivalent (*murādif*) of 'eye' (*al-ʿayn*), so they do not say \***sanğar ṭur·dī kuz·ī** [lit. 'Sanğar, his eye stood up'] nor \***kuz·i bilā** [lit. 'with his eye'].<sup>118</sup>

6. Expressions that indicate inclusion with the meaning 'all' (*kull*) are **barğā** and **qamuğ**. For 'the people all stood up' (*qāma an-nāsu kulluhum*) you say **kiši·lar ṭur·di·lar barğa·lar** and also **barğa·lar·u**. <VD 63<sup>r</sup>> You may also say **qamuğ·lar** or **qamuğ·lar·i** i.e. 'all' (*al-ğamī'u*) or 'all of them' (*ğamī'uhum*), respectively. For 'all of this gold was seized' (*hādā d-dahabu kulluhu qubiḍa*) you say **bū 'alṭun barğa·s·ī 'al·an·dī**. **'Al·an·dī** [sic; for 'alin-] means 'was taken' (*'uḥiḍa*) and with this [word] you express the meaning 'was seized' (*qubiḍa*).

7. It is always permitted to emphasise an undetermined word, whether it is divisible (*mutağaziya*) or indivisible (*ğayr mutağaziya*). For 'I ate a whole loaf' (*'akaltu rağifan kullahu*) you say **yi·du·m bir 'atmak·nī barğa·s·i·nī**. **Nī** may be elided from the first word [viz. **'atmaknī**]. An example of an indivisible word is: 'a man stood up himself' (*qāma rağulun nafsuhu*) **ṭur·dī bir 'ar 'uz·ī** and **'uz·ī bilā**. It is obligatory to put the emphasising element after the confirmed element, as it is in the Arabic language.

#### 55. Chapter on the [syntactical] substitution

1. The [syntactical] substitution (*badal*) is divided into *totum pro toto* (*kull min kull*), *pars pro toto* (*ba'd min kull*) and comprehensive (*ištimāl*).<sup>119</sup>

<sup>118</sup> The Turkic *kuzi* and *kuzi bilā* are calques of the Arabic expressions *'aynuhu* 'his eye', and *bi-ʿaynihi*, respectively. The latter means 'with his eye' and, as an idiomatic expression, 'by himself'.

<sup>119</sup> Cf. Owens 1988: 324 'inclusive'.

2. In the case of the first you say ‘Sanğar, your [sg.] brother stood up’ (*qāma sanğar ʾaḥūka*) <152> **ṭur-dī sanğar qarindās-inj**.

3. In the case of the second you say ‘I ate the loaf half’ (*ʾakaltu r-rağīfa nişfahu*) **yi-du-m bir ʾatmak biğūq-nī** and [you may also use] **yāru-s-nī**. *Yāru* means ‘a half’ (*aş-şiqq*). The *s* is attached to indicate the annexation [sc. to a third person] when the last consonant is vocalised: *nī* indicates objectivity and the marker of the object appears in the second noun and not in the first.

4. In the case of the third you say ‘Sanğar, his beating made me happy’ (*sarranī sanğar ɖarbuḥu*) **saw-in-dur-dī man-ī sanğar ʾur-maq-i** and ‘his knowledge’ (*ilmuhu*) **bil-maq-i**. This example may serve as a rule according to which you say **saw-in-du-m sanğar-dan ʾur-maq-dan** [‘I was happy with Sanğar, with [his] beating’]. The *ʾAtrāk* also use **saw-in-du-m sanğar ʾur-maq-i-dan** which means ‘I was pleased with Sanğar’s beating’ (*surirtu min ɖarbi sanğar*). This concludes the Chapter on the Syntactical Substitution.

5. It seems that the substitution of the comprehensive is not used in their language so that it would be necessary to pay special attention to it.

## 20 56. Chapter on the condition

1. [Chapter on the condition (*şarṭ*)] and what is connected to it, as far as the rules of the equivalents of ‘if not’ (*law lā*), ‘if’ (*law*), ‘when’ (*lammā*), and ‘whenever’ (*kullamā*) are concerned.

2. The particle of condition is *sā*. This is its basic function (*al-mawḏū ʿlahu ʾaşlan*). If it corresponds to the conditional ‘if’ (*ʾin*) it is a condition in the future tense. If it expresses what was going to occur because of the occurrence of something else, then it is the equivalent of the hypothetical ‘if’ (*law*). In that case it is a condition in the past tense. An example of [the condition in] the future tense is ‘if Sanğar stands up, Sunqur will stand up’ (*ʾin qāma sanğar qāma sunqur*) **sanğar ṭur-sā sunqur ṭur-ğay**. The apodosis (*ğawāb*) may be put at the beginning, e.g. **sunqur ṭur-ğay sanğar ṭur-sā**. <VD 63> The verb and the particle of condition are never separated (*lā yufşal*). The apodosis only occurs in the phonetic form of the future tense (*lafz al-mustaqbal*); the conditional sentence only occurs in the phonetic form of the imperative (*lafz al-ʾamr*). By this we do not mean a real imperative; the phonetic form of the imperative is basically used instead of the

phonetic form of the future tense and its apodosis. Thus you say 'if Zayd stands up, 'Amr stands up' (*'in qāma zayd qāma 'amr*).<sup>120</sup>

3. If the verb in the conditional sentence is negated, you say **ṭur·ma·sā sunqur** ['if Sunqur does not stand up']. So you insert the particle of negation before the particle of condition.

4. If the verb agrees with the pronoun of a first person, you say **ṭur·sa·m 'ur·ḡay·man** i.e. 'if I stand up, I will beat' (*'in qumtu ḡarabtu*); or with a second person you say **ṭur·sa·ḡ 'ur·ḡay·san** i.e. 'if you [sg.] stand up, you will beat' (*'in qumta ḡarabta*).

5. If the apodosis (*ḡawāb*) is a nominal sentence, you say for 'if Saḡar stands up, Sunqur will be standing' (*'in qāma saḡar fa-sunqur qā'im*) **saḡar dah ṭur·dī 'i·sā sunqur ṭur·miš dur** ['If Saḡar had stood up too, Sunqur is standing up']. *Sā* is the particle of condition. *'i* indicates the meaning 'he was' (*kāna*). The corresponding meaning is 'if he was stood up' (*'in kāna qāma*). This construction occurs in the conditional sentence, if the apodosis is a nominal sentence.

6. [*Sā*] may be used if the verb is negated. In that case you say **saḡar ṭur·sā sunqur ṭur·ma·ḡay** ['if Saḡar stands up, Sunqur will not stand up'].

7. [*Sā*] may also be used if the verb is an imperative, for 'if Saḡar comes beat him' (*'in ḡā'a saḡar fa-'iḡrabhu*) you say **saḡar kal·sā 'ur·ḡil 'a·nī**. You may also say **'ur 'a·nī**.

8. You may use [*sā*] if the verb is a prohibition. You say **kal·sā 'ur·ma·ḡil 'a·nī** ['if he comes, do not beat him'] and **'ur·ma 'a·nī**. *ḡil* is used with the prohibition, the same way it is used with the imperative. Thus you say **ya·ma·kil** i.e. 'do not eat' (*lā ta'kul*), the same way as you say <153> **yi·kil** i.e. 'eat' (*ku*).

9a. As an example of *sā* as an equivalent of the hypothetical 'if (*law*) in the past tense, [you may say] 'if Saḡar had stood up, Sunqur would have stood up' (*law qāma saḡar qāma sunqur*) you say [**saḡar**]<sup>121</sup> **ṭur·miš mis·sā sunqur ṭur·miš dī**.<sup>122</sup> The base form of *dī* is *'i·dī* with the meaning 'he was' (*kāna*). The vowel [sc. *i* of *'i·dī*] was

<sup>120</sup> The author intends to point out that the conditional suffix *sā* is attached directly to the stem which is best visible if the verb has the shape of the imperative form. In the Arabic tradition, however, there is no concept of 'stem'. Furthermore, in his view the verb has no inflection, since he considers *sā* equivalent to the Arabic particle of condition, rather than a verbal ending.

<sup>121</sup> Alternative from *ĪU* as emendation for **sunqur**.

<sup>122</sup> *missā* is a grammatical element unknown to me. It may be the suffix *miš* assimilated with *sā* but this explanation would not satisfactorily account for the form **ṭurmiš missā** where one would have to assume two subsequent occurrences of *miš* (cf. also Čaykovskaya 1981: 102).

transferred to the silent consonant before it [sc. the *š* in *miš*] that indicates the active participle. The [overall] meaning has become ‘he was standing’ (*kāna qāʾiman*) in the apodosis, therefore the speaker says **ṭur·miš·dī**. **Ṭur·miš** is the predicate to **ʾi·dī**. As for the conditional sentence, it consists of [the words] **sanğar ṭur·miš**, in which **ṭur·miš** means ‘standing’ (*qāʾim*). Furthermore, *sā* is the particle of condition to which *mis* can be added.

9b. In this case [the first] *s* assimilates with the [second] *s* and thus results <VD 64<sup>v</sup>> **mis·sā**. **Mis** is then added [to **ṭur·miš**] and thus the whole comes to mean ‘if Sanğar had stood up, Sunqur would have stood up’ (*law qāma sanğar qāma sunqur*). **Mis** is used as an extra element (*taʿlīq*) in the past tense. For ‘if Sanğar beat, Sunqur [would] beat’ (*law ɖaraba sanğar ɖaraba sunqur*) you say **sanğar ʾur·miš mis·sā sunqur ʾur·miš·i·dī**.

10. Thus are the rules of this chapter. With these two constructions the condition in the future and past tense is specified. For ‘if you [sg.] had stood up, I would have stood up’ (*law qumta qumtu*) you say **ṭur·miš mis·sa ʾi·dī·ŋ ṭur·miš·di·m** [Properly: ‘if you had been standing, I would have been standing’], and for ‘if I had stood up, you [sg.] would have stood up’ (*law qumtu qumta*) you say **ṭur·miš mis·sā ʾi·dī·m ṭur·miš ʾi·dī·ŋ**.

11. For ‘if you [sg.] stand up, I will stand up’ (*ʾin qumta qumtu*) you say **ṭur·sa·ŋ ṭur·ğa·man**; for ‘if I stand up, we will stand up’ (*ʾin ʾaqum naqum*) you say **ṭur·sa·m ṭur·ğa·biz**<sup>123</sup>; for ‘if you [pl.] stand up, we will stand up’ (*ʾin taqūmū naqum*) **ṭur·sa·ŋiz ṭur·ğa·biz**.

12a. For ‘whomever you [sg.] beat, I will beat’ (*man taɖrib ʾaɖrib*) you say **kim·nī ʾar·sa·ŋ ʾur·ğa·man**. They use the particle of condition and the noun in one construction. In the Arabic language the meaning of the particle of condition is included in the noun [i.e. *man* ‘whomever’]. In this language, however, the meaning of the condition is separated from the noun and is expressed explicitly with a particle.

12b. For ‘whenever you [sg.] visit me, I will honour you’ (*kullamā ġiʾtanī ʾakramtuka*) you say **tayma kal·du·k·uŋ·ğā ʾağirla·ğa·man san·nī**. *Tayma* reflects the meaning ‘all’ (*kull*) and **kal·du** means ‘he came’ (*ğāʾa*). The *k* in **kal·du·k·uŋ·ğā** is an addition (*zāʾida*), whereas the *n* [sc. *ŋ*] indicates the second person. The *m* of the first person may be used on the same place. Thus for ‘whenever I come’ (*kullamā ġiʾtu*) you say **kal·du·ku·m·ğā**; ‘whenever you [pl.] come’ (*kullamā ġiʾtum*) **kal·du·kuŋuz ġā**; ‘whenever they come’ (*kullamā ġāʾū*) **kal·du·k·**

<sup>123</sup> Reconstruction for **ṭur·sa·ŋ ṭur·ğa·san**.

**lar-in-ğā**; ‘whenever he comes’ (*kullamā ġā’a*) **kal-du-k-ğā** and **kal-du k-muz-ğā** [sic] ‘whenever we come’ (*kullamā ġi’nā*). The [pronominal] markers (<sup>c</sup>*alāmāt*) were placed between the *k* and [ğā]<sup>124</sup> and their combination conveys the expression for ‘whatever’ (*mahmā*) in Arabic.

- 5 If you use **tayma** with this, it becomes to mean ‘whenever’ (*kullamā*), as if the speaker says ‘whatever whenever’ (*mahmā kullamā*).

13. You say **sanğar ʃur-iğaq sunqur ʃur-dī** with the meaning ‘when Sanğar stood up, Sunqur stood up’ (*lammā qāma sanğar qāma sunqur*). [**Ğiq**]<sup>125</sup> means ‘at the time’ (*hīna*). And for ‘when I stood up, Sanğar stood up’ (*lammā qumtu qāma sanğar*) you say **man ʃur-iğaq sanğar ʃur-dī** [and for ‘when Sanğar stood up, I stood up’ (*lammā qāma sanğar qumtu*) you say **sanğar ʃur-iğaq ʃur-du-m**]<sup>126</sup> and for ‘when you [pl.] stood up, we stood up’ (*lammā qumtum qumnā*) you say **siz ʃur-iğaq ʃur-ʃu-q**. Or you say [**biz**]<sup>127</sup> **ʃur-ʃu-q**.

- 15 14. <154> And for ‘when they stood up, we stood up’ (*lammā qāmū qumnā*) you say <VD 64<sup>r</sup>> **ʻan-lar ʃur-iğaq ʃur-ʃu-q**; for ‘when he stood up, we stood up’ (*lammā qāma qumnā*) you say **ʻul ʃur-iğaq ʃur-du-q**.

- 20 15. You say **quyaş baʃ-ʃi-ği-n-dā kal-ka-man**. [The element] **dā** indicates ‘in’ (*fī*), **ğin** indicates ‘at the moment’ (*waqta*) and **ğin-dā** is equivalent to ‘when’ (*ʻidā*). They use **quyaş**, i.e. ‘beams of the sun’ (*ʃu ʻā ʻ aş-şams*) for ‘the sun’ (*aş-şams*). Its meaning is ‘I shall come to you [sg.] when the sun sets’ (*ʻağīʻuka ʻidā ġābat aş-şams*). You say **quyaş ʃiq-ʃi-ğin-dā**<sup>128</sup> **kal-ka-man** i.e. ‘I shall come to you [sg.] when the sun goes away’ (*ʻağīʻuka ʻidā ħarağat aş-şams*).<sup>129</sup>

- 25 16. For ‘if it had not been for Sanğar, Sunqur would have stood up’ (*law lā sanğar qāma sunqur*) you say **sanğar dağul mis-sā sunqur ʃur-miş-i-dī** and for ‘if it had not been for me, Sanğar would have stood up’ (*law lā ʻanā qāma sanğar*) you say **man dağul mis-sa-m sanğar ʃur-miş-i-dī**. Its base form is **mis-sā ʻi-dī-m**; but **ʻi-dī** was elided and the pronoun has remained as a reference to the elided element. The most correct form is the use of the base form without elision.

- 30 17. For ‘if it had not been for us, Sanğar would have stood up’ (*law lā naħnu qāma sanğar*) you say **biz dağul mis-sa y-i-du-k sanğar**

<sup>124</sup> Addition from İÜ.

<sup>125</sup> Addition from İÜ.

<sup>126</sup> Addition from İÜ.

<sup>127</sup> Em. İÜ of VD **bir**.

<sup>128</sup> Em. İÜ of VD **hiq ʃigin dā**.

<sup>129</sup> In fact, ‘to you’ is not explicitly stated in the Turkic sentence.

- 5 **ṭur·miš·i dī**; ‘if it had not been for you [sg.]’ (*law lā ʾanta*)—**san daḳul mis·sa y·i·du·ŋ**; ‘if it had not been for you [pl.]’ (*law lā ʾantum*)—**siz daḳul missa yidiŋiz**;<sup>130</sup> ‘if it had not been for him’ (*law lā huwa*)—**ʾul daḳul mis·sa y·i·dī**; ‘if it had not been for them’ (*law lā hum*)—**ʾan·lar daḳul mis·sa ʾi·dī·lar**.

18. The pronouns from which depends the particle [that expresses] the negation (*al-ımtinā*<sup>c</sup>) of existence precede [i.e. *lā*]. The outcome of the study of *mis·sā* is that *sā* is the particle of condition.

### 57. Chapter on the quotation

- 10 1. [The quotation (*al-ḥikāya*) is, e.g.,] ‘Sanḡar said Sunqur is standing’ (*qāla sanḡar sunqur qāʾim*), you say **sanḡar ʾayit·tī sunqur ṭur·miš**. You quote with the equivalent of what is said. In the imperfect tense [they use] **ʾayd·ur**, which form is **ʾayit·ur**.<sup>131</sup> [In this verb] the *t* is substituted for a *d*; the *i* together with the *y* is regarded as too heavy, because of the change of *i* into *u*; the whole therefore is alleviated by silencing the *y*.<sup>132</sup>

2. The equivalent of ‘he said’ (*qāla*) is **dī·dī** in Oğuz, viz., **nā·dī·dī** ‘what did he say’ (*ʾayya šayʾ qāla*). In the imperfect tense [they say] **dī·r**, i.e., the *d* vocalised with an *i*.

20

## VII

### 58. Chapter on the particles

1. The particles have already been mentioned here and there in the preceding chapters about the rules [of their application]. <VD 65<sup>r</sup>> We will collect them in this section (*faşl*).
- 25 2. We mention <155> the particle of answer (*ḡarf al-ḡawāb*), which is **ʾawat**, with the meaning ‘yes’ (*naʿam*), and **yuq** meaning ‘no’ (*lā*). We have already mentioned that **yuq** is a noun, for which we also have given our arguments; it means ‘lack’ (*maʿdūm*), even though it is used with the meaning of ‘no’. It is suitable for both the meaning ‘no’ (*lā*) and the meaning ‘lack’ (*maʿdūm*).
- 30 3. The particle of negation is a *m*, vocalised with an *a* [i.e. **ma**].

<sup>130</sup> Em. of *biz daḳul missa y·i·du·k*.

<sup>131</sup> Em. from *İŪ* for *VD ʾayitt·ur*.

<sup>132</sup> The argumentation can be schematically summarised as follows: **ʾayit·ur** → **ʾayid·ur** → **ʾayd·ur**.

4. The particle of prohibition is a *m* too, vocalised with an *a* [i.e. **ma**].

5. The particle of interrogation is a *m* vocalised with an *u*, it may be vocalised with an *i* because of the vowel harmony (*li-l-ʿitbāʿ*) [i.e. **mu/mi**].

6. The particles of the imperative are **sun**, **yim** and **lim**.<sup>133</sup>

7. The particles of the annexation are **dan**, **dā**, **kā** and **birlā**. They also use **bilā** and **niḡ**.

8. The particles of conjunction are **ʿan-dan** and **yā**.

9. The particle of exception is **maḡar**.

10. The particle of attention is **ʿuṣ**.

11. The particle of condition is **sā**.

12. The particle of both the verbal noun and motivation is **kim**. **Kim** has the meanings of a conditional noun, an interrogative noun, a relative and a particle of the verbal noun, with the meaning ‘that’ (*ʿanna*) and the meaning of a particle of motivation with the meaning ‘so that’ (*kay*).

13. The particle of wishing (*ḡarf at-tamannā*) is **kaṣkā**.

14. All of these are independent particles and [independent] words.

15. As to what is added for one of the meanings that occur as part of the root of another word, e.g. the diminutive, the plural, the transitive, or the construction of a passive form, we do not intend to list it in this chapter; since it has already been mentioned.

.....

What we intended to put in this book has been completed. Praise be to God alone, His blessings be upon our prophet Muḡammad, his descendants and his companions and may

He grant him salvation.<sup>134</sup>

This book was finished on Monday the fifteenth of the venerable month of *Ṣā bān* in the year seven hundred and thirty five,<sup>135</sup> may God make it end happily.

<sup>133</sup> For the third and first person singular and the first person plural, respectively.

<sup>134</sup> *īŪ* reads: ‘Praise be to God, He is my Measure. I am the servant of the Almighty God Aḡmad bn ʿUmar aṣ-Ṣāfiʿi may God be kind to him, the representative in the respectable government of the protected city of Lāḡaḡiya, on the fourth of *Ġumādī al-ʿulā* of the months of the year eight hundred and five [November 30th, 1402]. Praise be to God alone and His blessings be upon Muḡammad, the prophet of mercy and leader of the nation, on his descendants and his companions, may God grant him salvation. Our Measure is God. — The End’.

<sup>135</sup> This agrees with April 10th, 1335.

This copy was manufactured based on the author's own manuscript. He had written in the epilogue: '[This book] was finished in the night that had started with the morning of Thursday, the thirtieth of the glorious month *Ramaḍān*, in the year seven hundred and twelve,<sup>136</sup> at the  
 5 *Madrasa* of al-Malik aṣ-Ṣāliḥ in the land of Egypt. Its compiler, 'Abū Ḥayyān Muḥammad bn Yūsuf bn 'Alī bn Yūsuf ibn Ḥayyān an-Nafazī al-ʾAndalusī, inhabitant of the land of Egypt, may God protect it, wrote it down with his own hand.'

.....

<sup>136</sup> Ramaḍān 30th, 712 (February 6th, 1313) happened to be a Monday. Ramaḍān 30th, 711 (February 20th, 1312), indeed, was a Wednesday. It may be more than a coincidence that the autograph is said to be finished directly after the fasting.



## APPENDIX ONE

### VERBAL AND NOMINAL PARADIGMS AND SUFFIXES BASED ON DATA FOUND IN *KITĀB AL-ʿIDRĀK*.

#### VERBAL PARADIGMS

The following overviews provide the verbal and morphological forms as they are encountered in the grammatical parts of *Kitāb al-ʿIdrāk*. Wherever possible, forms were given for both front and back verbal stems, exemplified with the stems *kal-* and *ṭur-*, respectively, and separated by a slash /.

#### Present Tense

1a sg kal·ur·man  
1b kal·ur·um (Oğuz)  
2 sg  
3 sg kal·ur  
1 pl kal·ur·biz  
2 pl kal·ur·siz, -siz·lar  
3 pl kal·ur·lar

#### Present Tense Interrogative

1 sg kal·ur·mu·man  
2 sg kal·ur·mu·san  
3 sg kal·ir·mū  
1 pl kal·ur·mu·biz  
2 pl kal·ur·mu·suz  
3 pl

#### Present Tense in stems ending in -lā and monosyllabic verbs ending in a vowel

3 sg suz·lā·r - suz·lā·yur; si·r - si·y·ur

#### Present Tense Conditional (1 occurrence)

2 sg kur·ar·sa·ŋ

#### Present tense Negated

1 sg kal·ma·s·man  
2 sg kal·ma·s·san  
3 sg kal·ma·s  
1 pl kal·ma·s biz  
2 pl kal·ma·s·siz; -lar·siz; -siz·lar  
3 pl kal·ma·s·lar

## Past Tense

1 sg	kal·di·m, -du·m; -du·man
2 sg	kal·di·ŋ
3 sg	kal·dī; kal·du / ʧur·dū, -dī
1 pl	kal·du·k, -·lar -·miz, -biz / ʧur·ʧu·q
2 pl	kal·diŋiz, -di·ŋiz·lar
3 pl	kal·di·lar / ʧur·di·lār

## Past Tense Negated

1 sg	kal·ma·du·m
2 sg	kal·ma·di·ŋ
3 sg	kal·ma·dī
1 pl	kal·ma·du·k, ma·duk·lar
2 pl	kal·ma·di·ŋiz
3 pl	kal·ma·dī·lar

## Past Interrogative

1 sg	kal·di·m·mū
2 sg	kal·di·ŋ·mū
3 sg	kal·di·mū
1 pl	kal·du·k·mū
2 pl	kal·di·ŋiz·mū
3 pl	kal·di·lar·mū

## Future Tense

1 sg	kal·ka·man / ʧur·ğa·man
2 sg	kal·ka·san, kay·san / ʧur·ğa·san
3 sg	kal·kā, kal·kay / ʧur·ğā, ʧur·ğay
1 pl	kāl·ka·biz / ʧur·ğa·biz
2 pl	kal·kay·siz; -siz·lar
3 pl	kal·kay·lar

## Future Tense Negated

1 sg	kal·ma·kay·man
2 sg	kal·ma·kay·san
3 sg	kal·ma·kay
1 pl	kal·ma·kay·biz
2 pl	kal·ma·kay·siz
3 pl	kal·ma·kay·lar

## Future Tense Interrogative

1 sg	kal·ka·mu·man
2 sg	kal·ka·mu·san
3 sg	kal·ka·mū
1 pl	kal·ka·mu·biz
2 pl	kal·ka·mu·suz
3 pl	kal·ka·lar·mū

## Future tense (Oğuz)

1 sg	kal·a·m (>kal·a·man)
2 sg	kal·ā·sin (neg.: -mi·yā·sin)
3 sg	kal·ā
1 pl	kal·ā·wuz
2 pl	
3 pl	kal·a·lar

## Imperative

1 sg	kal·kā·yim
2 sg	kal·qil / ʧur; ʧur·ğul
3 sg	kal·sun
1 pl	kal·kālīm (Oğuz?)
2 pl	/ ʧur·uŋ, -uŋ·uz; -uŋ·siz
3 pl	kal·sun·lār

## Conditional Verbs

1 sg	ʧur·sa·m
2 sg	ʧur·sa·n, ur·sa·ŋ
3 sg	ʧursā (negated: ʧur·ma·sā)
1 pl	
2 pl	ʧur·saŋiz
3 pl	bül·sa·lar

## Prohibition

1sg	kal·ma·kāyim
2sg	kal·mā / bar·mā·mā <sup>1</sup>
3sg	kal·ma·sun
1pl	kal·ma·kālīm
2pl	kal·ma·ŋiz, -ma·siz
3pl	kal·ma·sun·lar

Finite 'Konverbial' Form:  
'whenever I come' or  
'each time I come'

1 sg	kal·duk·um·ğā (Oğuz?)
2 sg	kal·duk·uŋ·ğā
3 sg	kal·duk·ğā (sic)
1 pl	kal·duk·umuz·ğā
2 pl	kal·duk·uŋuz·ğā
3 pl	kal·duk·lar·in·ğā

<sup>1</sup> 2sg with extra *mā* has a contemptuous connotation, with the meaning of 'woe unto you' (*waylaka*). EDT 765b "here you are". <sup>2</sup>Abū Ḥayyān gives three examples, all of them on back verbal stems, <sup>3</sup>ulʧur-, yaʧ-, bar-.

## NOMINAL AND VERBAL SUFFIXES

### Pronouns

1 sg	man
2 sg	san
3 sg	'ül
1 pl	miz/biz or mizlar/bizlar
2 pl	siz
3 pl	'alār/'anlar ('ular, bular marked Oğuz)

### Possessive Endings

1 sg	-(I)m	qul·um
2 sg	-(I)ŋ	qul·uŋ
3 sg	-(s)I	qul·i / 'aṭa·sī
1 pl	-mIz	qul·umuz
2 pl	-ŋIz	qul·uŋuz
3 pl	-lArI	qul·lar·i

### I Suffixes attached to nominal stems

#### *Plural Suffix*

-lAr	'anlar 105; baliqlar 106.
-n	'aranlar 148.

#### *Comparative*

-rAK	comparative suffix; birğirak 108; bargıraq 108 yaman-raq 107.
------	---

#### *Relative*

-ki	relative suffix 'awdākiniŋ 119;
-----	---------------------------------

See also verbal suffix -GAn

#### *Case Endings*

-nIŋ	genitive bāliqniŋ 147.
-Iŋ	genitive Oğuz variant sanğariŋ 145.
-GA	dative 'avgā 145; baykā 139.
-A	dative after possessive ending 3sg 'aṭasinā 141.
-nI	accusative bāliqnī 139.
-n	accusative after possessive ending 3sg. biranğasin 147.
-DA	locative 'awdā 119.
-DAn	ablative 'awdan 145; (assimilated) 'aṭtan 143)

#### *Numerals*

-(A)GI	collective bišakū 114, 'altağū 115.
-(A)wI	collective 'ikawu 115 Final vowel probably possessive

- suffix. EDT 364a.
- In distributive **birin birin** 144.
- lA- in collective nouns with 3sg poss suff. **'uğawlanjiz** 'the three of you', **'ikalasī** 'both of them', etc.. According to 'Abū Ḥayyān used with possessive suffixes. Not used with numerals above **sakiz** 'eight'. EDT 25b derives it from a Mongolian collective suffix.
- (I)ngI ordinal numeral suffix **durdunğī** 144, **başingī** 144.
- mİš occurs in the Turkic words for 'sixty' and 'seventy' and is therefore associated with 'the multiplication by ten' **'altmİš** 115.

#### *Denominal Verbs*

- Ar- denominal in colours **'ağardī** 112.
- lA- denominal verb suff. **bağaşla-** 104; **utrakla-** 115
- nA- ? unknown, only in **şamas-nadī** 113, there is an obvious relationship to **şamaş**.

#### *Miscellaneous:*

1. -(A)ğIK diminutive *turkmānī* variant **'azağūq** 105; **'azğūq** 105.
  2. -GIKAs diminutive **'at ğuqas** 105.
  3. -GA idem **'anğā** 147; **'aqğā** 114.
  4. -KInA idem. **'aṭkinā** 112, apparently also suffixed to pronouns and plurals: **'anlarkinā** 105.
- ğI occupation **'aşğī** 113.
- lAyIn Equational suffix **'arşlan layin** 128.
1. -lIK rank or possession **baylik** 109.
  2. purpose or destination **bitilik** 110; **ṭunluq** 109.
  - 3a. characteristic or equipment **malluğ** 106.
  - 3b. -II/-lIh idem; probably *turkmānī* variant: **'anluh** 137
  - 4a. -lIK relational suffix **rūmluğ** 105.
  - 4b. -lI idem. *turkmānī* variant **rūmlū** 105.

#### II Suffixes attached to verbal stems

##### *Imperative*

- Gİl attached to 2 sg **'urğil** 152.

##### *Adjectives*

- (I)K with semantic passive connotation **'ağūq** 107.

*Instruments*

- G instrument **'alak** 109.  
 -GI idem. **'alakū** 109; **biğqū** 109.

*Nouns*

- AğAK indicates a place **kalağak** 109.  
 -AK idem **turaq** 123.  
 -AğI indicates permanence of adjective **bar-ağI** 106  
 -KA indicates a characteristic or occupation **bilkā** 106.  
 -wIK ? there is one single occurrence of this suffix, which Abū Ḥayyān relates to a verbal stem **ğatlawuk** 116.

*Verbal suffixes**a. causative suffixes:*

- Ar causative suffix **ğiqar-** 110, **kağur-** 117.  
 -DIR idem. **bildir-** 104 ; **kağdur-** 117, **ğiqtur-** 110.  
 -zIr- idem. **'amzur-** 110.  
 -Glz idem. **turağuz-** 110.  
 -t- causative suffix after stem ending in vowel **dapalat-** 110; **yurit-** 110.

*b. passive, reflexive and reciprocity:*

- (I)š suffix of reciprocity **şaŋiş-** 111.  
 -II- passive suffix **kasil-** 110; **biril-** 107.  
 1. -n- passive/reflexive suffix **'ayar lan-** 129; **dapalan-** 107.  
 2. -n- medio-passive form **'alin-** 151 **yaştan-** 110.

*Gerunds**a. non-finite*

- A a certain state or condition while the action is taking place **kulā** 137.  
 -GAI 'since' **barğali** 145.  
 -KÇA repeated action (one occurrence: **kaldukğā** 115).  
 -GiñÇA indicates a parrallel action **kalkiñğā** 151.  
 -(y)U idem. **kalū** 137; **'ağlayū** 137.  
 -mAdIn without... **'ayarlamin** 138.  
 -mAyIn idem. Qipčaq variant **'ayarlamayin** 138.  
 -(y)Ip expresses a simultaneity or state **'ağlab** 113; **'ayarlab** 138; **'ağlayub** 113.  
 -(y)IpAn idem. **'ağlayuban** 137; **biniban** 138.

- İptİr past tense **'ayarlanubtur** 129.
- b. finite<sup>2</sup>
- AGAn indicates an intensive active participle **barağan** 107.
- (y)İğİ permanence of adj. part. **biriği** 106; **kilaği** 106.
- DAğİ future participle **bardaği-** 146.
- (i)ğAK According to 'Abū Ḥayyān this suffix indicates a simultaneity, or a parallel action; it probably also expresses an intention to carry out the action; **ṭuriğaq** 154.
1. -GAN indicates the active participle past tense **barğan** 112, **dapalankan** 112.
2. -GAN used for relative phrases in transitive verbs **kurkanimniğ** 146.
- DİKİmğA expresses repeated action, conjugated. **kaldukumğā** 153, etc. see verbal paradigms
- DIGİndA consists of -DİK+poss(+n)+LOC the typically Oğuz variant of 1. -GAN; **baṭṭiğindā** 154.

### *Infinitive Forms*

- m infinitive, also used as verbal noun for one instance of the action **barım** 108
- mAK infinitive. **barmaq** 114; (can be used with possessive suffixes **sawmakimdan** 141).
- mAKIIK idem, renders the infinitive more abstract **barmaqliq** 114.
- (y)İš infinitive, also used as verbal noun for one instance of the action **yiyiš** 134.

### *Tenses (see also verbal paradigms)*

- İr present tense **bašlār** 121; **bınar** 128, **'alur** 112.
- Dİ past tense (Oğuz always Dİ) **'ağladī** 138; **biğtī** 109, **'aldum** 147.
- GA future tense see paradigmata.
- yİr present tense when stem ends in **lā suzlāyur** 121, or of monosyllabic verbs ending in a vowel **siyur** 111
- mİssA untraced suffix **'awdāmissa** 113; cf. *Durra* 20<sup>f</sup>12 (ed. Zajączkowski 80 **ḥūš missā**)

<sup>2</sup> These gerunds are finite in the sense that they can be followed by a pronoun, or possessive.

-mİš	dubitative; inferential <b>dapalanmiš</b> 107, <b>duğmuš</b> 106.
-mİš yİdİ	past perfect <b>duğmiš yidi</b> 137.
-mAdİK yİdİ	past perfect negated <b>duğmaduq yidi</b> 183.
-mAGA	future tense negated 1sg <b>barmağaman</b> 146.
-mAs	Present Tense Negated <b>kalmas</b> 113.
<i>Corroborative</i>	
-DIr	corroborative element 122.



## APPENDIX TWO

### LIST OF TURKIC WORDS

The following list is meant in the first place to serve as a reference list of Turkic words that occur in the grammatical parts of *Kitāb al-idrāk li-lisān al-Atrāk* (ed. Caferoğlu 101-154).

A further reason for listing these words is the fact that they thusfar have hardly been included in turcological studies on the 14th century Mamlūk sources, as most manuals and dictionaries only refer to the listing of Turkic in the lexicographical part (ed. Caferoğlu 1931:1-100). However, the material in the grammatical part provides many additional lexical items, including some whose meaning and etymology I have not been able to determine in the available sources. I have aimed at completeness as far as the occurrences and loci of the entries is concerned, although for a given form only one place is cited.

In the material was found a large number of words with **b-**, **d-** and **-ğ-**, most of which cannot be of Qipčaq origin and probably are of Oğuz provenance, e.g., **bunila-**, **dilkū**, **dapi-**, **durdaḡū**. Typically Oğuz is also the verb **ḡumal-**.

In first instance reference was made to Abū Ḥayyān's word list (abbreviated as WL; in Caferoğlu pp. 1-100). Further, I have attempted to verify all words in Clauson's (1972) EDT; in those cases wher it does not give sufficient information other sources were consulted, i.e., Codex Comanicus (CC), Doerfer 1976, Räsänen (Räs.), Sewortian (Sew.). Oğuz/Ottoman material was verified in: Derleme Sözlüğü (DS), Redhouse (Redh.), Steuerwald (1972) (Steuerw.), Tarama Sözlüğü (TS), and Söz Derleme Dergisi (SDD). Occasional Persian loan-words were verified in Steingass.

The transcription system used here is explained in Part One, Chapter One of this book. All entrances are listed according to their respective stems. If a noun or verbal stem as such occurs in the text, the translation is immediately followed by the respective page number in Caferoğlu's edition. References to derivational forms are given only once with indication of the page number on which they occur first.

## LISTING

- 'abbāq intensive white 116; WL 1.  
 'adik shoe, boot 102; with -d- apparently a typically Oğ. word; in WL 8 'aduk is *turk-mānī* and 'atik *turkī*.  
 'ağ- to open; 'ağ 108.  
 'ağil- to be opened; 'ağilmiš 108.  
 'ağuq open 107.  
 'ağağ tree 143.  
 'ağar- to become white, grey WL 16; 'ağardī 112.  
 'ağingağ ladder 103.  
 'ağirla- to honour, respect; 'ağirlağaman 115.  
 'ağla- to weep; 'ağlab 113; 'ağladī 138; 'ağlayub 113; 'ağlayuban 137; 'ağlayū 137.  
 'ağuršağ ? 103; see 'uğurğuq.  
 'ahşam evening 101; alternates with 'aqşam.  
 'akir- to twist; 'akir 117.  
 'al- to take; 'alur 112; 'aldum 147.  
 'ala- to sift; 'aladī 109.  
 'alāk sieve 109; 'alākū 109.  
 'alan- to take for oneself; 'alindī 151.  
 'ālār they' 122; see 'an.  
 'alin forehead; 'aliniḡdā 137; 'aliniḡdādur 119.  
 'alinḡī ? 102; perh. EDT: "ilinçü 'recreation'" or else 'allingī 'fiftieth'.  
 'allī fifty 117.  
 'alt bottom; 'altindā 135.  
 'altāğū all six 115; 'altawu 116.  
 'altī six 115.  
 'altinḡī sixth 144.  
 'altmiš sixty 115.  
 'altun gold 132.  
 'aman- to suffer pain, tiredness WL 23; 'aman 104.  
 'amdur- to make suck, nurse; 'amdur 110. see 'amzur-.  
 'amzur- to make suck; 'amzur 110.  
 'an- "stem for the oblique cases of ol..." (EDT) 'andā 119; 'anlarkinā 105; 'anlarnī 139; 'anlarniḡ 146; 'anlar 105; 'aniḡ 122; 'aniḡbilā 146; 'anlar dan 146; 'anḡā 139; 'anī 147; 'ānī 125; 'andan 146.  
 'anda- to call; 'andadim 142.  
 'anḡā all 147; biranḡasin 147.  
 'anilik rouge, red cosmetic 102; WL 24.  
 'anṡ oath 146; 'anṡištīm 146; WL 24.  
 'anuq ready 104.  
 'aḡ complexion cheek 137. The combination of buḡday 'anluh must be Oğ., because of buḡday; cf. Ott. buḡday enlū (DS; TTS I 119; II 173; III 114; IV 128).  
 'aḡluh having a certain complexion 137; see 'aḡ.  
 'aq white 112.  
 'aqar- see 'ağar; 'aqardī 116.  
 'aqbuḡā prop. name, comp. of 'aq 'white' and buḡā 'bull'; 118.

- 'aqgā little coin 114; WL 17; Doerfer: 506; 'aqgani 142.  
 'aqša- to caress WL 17 'aqša 104.  
 'ar man 112; 'ardur 133; 'arkā 147; 'arnī 141.  
 'ara between 101; WL 11.  
 'aran men properly pl., also used as sg. 112; 'aranlar 112.  
 'araslan lion 103.  
 'ard back, backside 101; 'ardıñ-dadur 122; 'ardindā 135; 'ardıñ dan 135; 'ardimdā 136; 'ardimizdā 136; 'ardıñdā 136.  
 'ar- see 'ur-.  
 'ari bee 101; cf. WL 10: 'arū.  
 'armağan gift 122; EDT: a Pers. loan-word in early Oğ..  
 'arqaṭaq ? 102; WL 11: 'arqaṭaq 'scull with a long nose'? (*ğam-ğamā muṭāwala al-būz*).  
 'arslān 122; see 'araslan.  
 'aš food 142.  
 'ašgi cook 105; 'ašgi 113.  
 'at flesh, meat 118; also 'aṭ.  
 'aṭ horse 112; 'aṭ 129; 'aṭlar 106; 'aṭkinā 112; 'aṭtan 143.  
 'aṭ- to throw; 'aṭ 103.  
 'at ɣuqas little horse 105; -t is not indicated as back, inferred from the velar suff. WL 15.  
 'aṭa father; 'aṭasī 113; 'aṭasinā 141.  
 'atak skirt; edge 101.  
 'atmak bread 102; 'atmaknī 142.  
 'av game; hunting WL 25; 'av 'velarised'. 'avgā 145.  
 'aw tent, house 145; 'awdāmissa 113; 'awdadur 119; 'awdā 119; 'awdādur 119; 'awdākilärniñ 119; 'awdākiniñ 119; 'awdakī 138; 'awdan 145; 'awkā 145; 'awda kiniñ 146.  
 'awat yes 150.  
 'ayakū rib 101; WL 27.  
 'ayanla- ?perhaps variant of 'uyanla.  
 'ayarla- to saddle; 'ayarlāb 138; 'ayarlāmadin 138; 'ayarlāmayin 138.  
 'ayarlan- to be saddled; 'ayarlānubtur 129.  
 'aybak 108; prop. name comp. of 'ay 'moon' and bak 'chief'.  
 'ayduğdī 118; prop. name comp. of 'ay and duğdī.  
 'ayit- to make speake; 'ayitti 154.  
 'ayittur- to make speak 154; cf. 'aydur-.  
 'aykanla- see 'ayanla and 'uyanla. 'aykanla 104.  
 'aykir- to twist see 'akir.  
 'ayruq different; other 143.  
 'az few 105; 'azağūq 105; 'azğūq 105.  
 baṭtir calf of the leg 102.  
 babağuk eye-apple 102; WL 28: babağuk 'insān al-'ayn 'person of the eye'.  
 bağā frog 118.  
 bağāşla- to give; bağāşla 104.  
 baḅ chief 126; WL 35 baḅlardur 119; bīkā 129.  
 baliq fish; baliqlar 106; bāliqliq 114; bāliqnī 139; bāliqniñ 147; baluq 120; WL 36: baliq.  
 balkur- to appear; balkurdī 112.  
 balkū sign 112.  
 baq- to look at; baqṭim 139.  
 baqiş look, glance 108.  
 bar there is 132; WL 29.  
 bar- to go, to leave; barağī 106; barağan 108; bardī 111; barğan 112; bariğī 113; barmaq 114; barmaqliq 114; barğil 115; bar-mā 117; bargālim 121; bargā-yim 121; bardum 139; bargali 145; bardağidur 146; barmas-

- man 146; barmadim 146; bar-  
mağaman 146.
- barğa** all; *barğā* 101; *barğamiz*  
106; *barğasini* 147; *barğalar*  
151; *barğalaru* 151; *barğasini*  
151; *barğasi* 151.
- barğıraq** more going 108
- barki-** ?to be strong WL 30; WL  
34: *barki* 104.
- barū** since 145.
- baş** head; *baši* 146; *bašin gā* 150.
- başawu** each five 116; see *bişakū*.
- başingī** fifth 144.
- başla-** to begin; *başlār* 121; *baş-*  
*lāyur* 121; *başladi* 127.
- başmaq** shoe 116; WL 31.
- baṭ-** to sink; (sun) to set; *baṭti-*  
*gindā* 154.
- baṭman** a unit of weight 144.
- bay** chief 108; see *bak/bak*; *bayni*  
128; *baykā* 139.
- baylik** the rank or possessions of  
a *bak/bay* 109.
- baza-** to ornament; *baza* 103.
- biki** variant of *kibi*
- biğqū** knife 109.
- biğuq** half; *biğuqnī* 152.
- biğ-** to cut; *biğti* 109.
- bil-** to know; *bil* 127; *bildi* 128;  
*bildum* 129; *bilmaqi* 152; (*sic*).
- bilā** with 122; see *birlā*.
- bila-** to sharpen; *biladi* 109.
- bilakū** whetstone 102; WL 35.
- bilazik** bracelet 102.
- bildaraq** ?leaf 103; WL 35; *Bulğa:*  
“*yäbüldüräk* 3,11... feuillage’  
(coll.)” EDT: *yapuldurak*.
- bildirgin** quail 103; Acc. to WL 36  
this form is Oğ., the Qip. form  
being *buyurğun*.
- bildir-** to inform; *bildir* 104;  
Transcr. as in IÜ; *bildirdum*  
129.
- bilkā** wise man 106.
- bin-** to mount; *binar* 128; *binib*  
138; *biniban* 138; *binū* 138; see  
also *min-*.
- bir** one 141; *birin birin* 144.
- bir-** to give; *birigi* 106; *birğirak*  
108; *birdi* 111; *birdum* 139;  
*birdağidur* 140; *birmedi* 132.
- birakū** single 115; Sew.; TS  
*bireğü*; *birawuwu* 116.
- biril-** to be given; *barildi* 115;  
*barildaği* 116; *barilmiş* 116;  
*birildi* 107; *birildaği* 107; *bir-*  
*ilmiş* 107; *birilkan* 112; *biril-*  
*kān* 116.
- birinği** first 144.
- biriş** act of giving 108; act of giv-  
ing.
- birlā** together with 117 (see *bilā*)
- bisū** ?education 101; WL 2 7  
(?ayanū) derives it from *bisla-*  
‘to raise’; also WL 31: *bis/bisū*  
both back.
- bişakū** all five 114.
- bişi-** ? 103; see *yiši-*.
- biti** anything written, book, let-  
ter 101; *bitiñ* 133.
- biti-** write; *bitidim* 145.
- bitikgi** scribe 149; Doerfer 718.
- bitilik** something to be written  
on 110; *bitilik* 114.
- biyiş** ? 134 perhaps *yiyiş*, see *yi-*.
- biz** we 113; *biziñbilā* 146; *bizdan*  
145; *bizni* 139.
- bizkak** cold fever 102; WL 31.
- bū** this 105; *būkinā* 105; *bular*  
118; *bulār* 118; *bundā* 119;  
*bunğuq* 105; *bunğuqas* 105;  
*ibunī* 121; *bunlarğuq* 105;  
*bunlarğuqas* 105; *bunuj* 120.
- buda-** to prune a tree; *buda* 103;  
Although the Ar. orth. indi-  
cates that *buda-* is a front  
word, it is prob. back. Initial  
d- points to Oğ..

- buġā** bull 101.
- buġdāy** wheat 137; buġday 137; WL 33-4 buġday but buyday as Qip.; mod. Qipč. lang.—Tat. boday; Nogai/Kklpk biday; Bašk. biyday; Karaim/ Kumyk buday; Kaz. biyday—buġday is prob. Oġ. cf. Sew. 232-3.
- buk-** to bend; Buktī 118; prop. name.
- bukrī** bent 102.
- bulġa-** to stir 104.
- bulqi-** ? to shine WL 36; balqidi; Sewortian: “balqi” bulqi 104.
- bunila-** ?to reproach cf. WL 36; bunila- with b- is a typically Ott. form; bunila 104.
- buqawu** handcuff 102; buqawu not on WL 33 (EDT) but on WL 34.
- burnī** 140; see burun.
- bursuq** badger 102; WL 29.
- burun** nose, in certain constructions also ‘in front’; ‘before’ 136.
- buşariq** ?dust, haze 102; WL 32; Steuerw. “pusarik neblig”.
- buzar-** to become grey (?b-); buzardi 112; buzardi 138
- buzġuş** ?grey bird, probably ger-falcon 116; WL 31.
- bul-** to become; to be; ħuldī 123; ħuldī 143; ħuldilar 125; ħulduj 124; ħulsalar 125; ħluban 137; ħlubun 137.
- buż** grey 112; WL 30.
- čaġan** ?falcon WL 43; čaġanġuq 105.
- čaġiltılaq** ?dry dirt 103; WL 44’; DS. But Doerfer 1095 “Kinder spielzeug”.
- čakalan-** ?to heal slowly WL 44; čakalan 104; .
- čališ** ?fight 109; *Bulġa* 6,10.
- čaštula-** ?to spy WL 43; čaštula 104.
- čatla-** ?to make a cracking sound WL 42; čatladī 116.
- čatlawuk** (hazel)nut 102; see čatla-. TS “čatlaġuç”; Doerfer (1069) “*čatlāquč* ‘die Früchte des Mastix-Baumes’.”
- čī** ? 101; WL 41: čī ‘fat milk *raħm* (?)’; probably EDT: “çig ‘moist,’” where WL čī is not given but čik on WL 44.
- čibġiq** sparrow 102; WL 41; Doerfer 1146; *Bulġa*: “čypčaq 11,12”.
- čiganaq** elbow 102; in İÛ with ġ; WL 44; Räs.: “čykanak”.
- čiq-** to go out; čiqtum 145; čiqtiġindā 154.
- čiqar-** to bring out ‘to bring out, send out’.” čiqar 110.
- čiqtur-** to bring out; čiqtur 110.
- čiz-** to scratch; to draw; čizdim 145.
- čumal-** to squat on one’s heels WL 46. Steuerw. “çömel- sich hinkauern (nach orientalischer Sitte auf den Fersen)”; čumal 104.
- čuri-** to decay WL 43; 121. čuridi 107; čurimiš 107; čuridaġı 107.
- čuruk** rotten 107; Doerfer 1078.
- čuruyiġi** decaying 106; cf. čuri-
- čuzi-** ? çöj - çöz?. čuzi 103.
- čuwalduz** ?packing needle 103; WL 45.
- dabi-** ?to dry up dapi 103; perhaps DS “depimek a slightly moist object, to begin to dry up”; exists in several forms; in Oġ. usually t-/d- (Az. tepi-); Ttü./Ott. d-, in Qip. languages (Tat/Kaz) forms with k- prevail.

- dah** too 152.  
**dak-** to reach; **dak** 151; **dakdī** 145; **dakingā** 150.  
**dakā** he-goat 117.  
**dakī** until like 145; (see also **daqin**).  
**dakmā** until 147; see **tayma**.  
**dalū** mad 117.  
**damrakū** a skin disease 102.  
**damur** iron 116.  
**dapala-** to kill WL 47; d- perh. indication for Oğ. provenance. *Bulğa* II 51; Redh. *tepele-*; **dapala** 104.  
**dapalan-** to be killed; **dapalan-dağī** 107; **dapalankan** 112; **dapalanmiş** 107.  
**dapalat-** to make kill; **dapalat** 110.  
**daqin** until like 128; altern. for **daqī**, which, in its turn, may be an emphatic form of **dakī**; cf. Kaz. *-day*; **daqin gā** 145.  
**dawāquš** ostrich 118; compound of **dawā** 'camel' and **quš** 'bird'; WL 51.  
**daḡul** is not 122; **daḡulmissā** 113.  
**dik-** to plant; **diktum** 143.  
**dilkū** fox 117.  
**diltaq** ?reason 117; CC: "sylvov" Räs. "šiltā".  
**diluk** hole 102; in IÜ Ms. **daluk**.  
**dirak** column 142.  
**dirki** portable table 102.  
**diz** knee 116.  
**dī-** to say acc. to AḤ this is Oğ.; recurs on WL 48; **didī** 154.  
**duğ-** to be born; **duğmuš** 106; **duğmušmidur** 131.  
**dun** night; yesterday; **budundur** 122.  
**dunā** yesterday 145; see **tun**.  
**durdakū** all four 114; **durdawa** 116.  
**durdunğī** fourth 144.  
**durt** four 143.  
**duš** midday 135.  
**duša-** to spread out; **duša** 133.  
**dušan-** to be spread out; **dušan** 135.  
**dutun** smoke 116.  
**farman** order 101; em. for *Caferoğlu farmaz*.  
**firišti** angel *Telegdi* 1938: 309; **firištilār** 101.  
**ğān** soul; **ğānī** 146.  
**ğumart** generous 149; Redh. 735.  
<sup>1</sup>**i-** 1 to be; <sup>2</sup>**idī** 118; <sup>3</sup>**idiñ** 123; <sup>4</sup>**idiñiz** 123; <sup>5</sup>**idum** 145.  
<sup>1</sup>**i-** 2 to send; <sup>2</sup>**idī** 121.  
<sup>1</sup>**ibunī** 121; see <sup>1</sup>**i-** 2. Note b- for m-.  
<sup>1</sup>**iğ-** to drink; <sup>2</sup>**iğ** 103; <sup>3</sup>**iğmişman** 146.  
<sup>1</sup>**iğakū** all three 114; **i-** perhaps a scribal error for **u-**.  
<sup>1</sup>**iğdur-** to make drink; <sup>1</sup>**iğdur** 117.  
<sup>1</sup>**iğur-** to make drink Oğ. forms in -ur, Qip. languages: Tat. *čer-*; Kaz. *iškiz-*; <sup>1</sup>**iğur** 110.  
<sup>1</sup>**ikakū** both 114; see also <sup>1</sup>**iğakū**, **durdakū**, **bišakū** <sup>1</sup>**alḡağū** and **yidakū**; <sup>1</sup>**ikawlasī** 116; <sup>1</sup>**ikawu** 116; <sup>1</sup>**ikawkañuz** 116.  
<sup>1</sup>**ikala-** to file, polish 104; WL 18; Räs. *ykyła* 86.  
<sup>1</sup>**ikawkamuz** both of us 116; see <sup>1</sup>**ikakū**.  
<sup>1</sup>**iki** two; <sup>1</sup>**ikiyuzar** 143.  
<sup>1</sup>**ikila-** Perh. to do something twice; <sup>1</sup>**ikila** 104.  
<sup>1</sup>**ikin** <sup>1</sup>**ikin** two by two 144; see <sup>1</sup>**iki**.  
<sup>1</sup>**ikindī** afternoon (prayer) 102.  
<sup>1</sup>**ikingī** second 144.  
<sup>1</sup>**ilk** first 136.  
<sup>1</sup>**ilkarū** forwards; before 136.

- ʔilkinġi** first 144; see ʔilk.  
**ʔimdi** now 117.  
**ʔinġu** pearl 102.  
**ʔiqša-** ʔto creak WL 17; ʔiqša 104.  
**ʔira-** to rock WL 11; ʔira 103.  
**ʔirdab** measure 144.  
**ʔišittur-** to make hear; ʔišitturdi 116.  
**ʔišit-** to hear; ʔišitkil 121.  
**ʔisillik** warmth 102; WL 13.  
**ʔisirġā** earring 102; WL 13; Räs. syrga; Salar s'rgza WYugur sırqa.  
**ʔit** dog 112; ʔit ġukas 105; ʔitġukas 113; ʔitlar 112.  
**kačā** night 135.  
**kaġdur-** to make pass; kaġdur 117.  
**kaġur-** to make pass; kaġur 117.  
**kal-** to come; kalaġak 109; kalakan 108; kalalar 129; kalam 130; kalamān 130; kalasan 130; kalā 129; kalāsin 129; kalāwuz 130; kaldilar 112; kaldilarmū 131; kaldim 141; kaldimmū 131; kaldimū 131; kaldin 129; kaldiniz 129; kaldinizlar 129; kaldinizmū 131; kaldinmū 131; kaldu 153; kaldukġā 153; kalduklarin ġā 153; kaldukumġā 153; kaldukumuzġā 153; kaldukunuz ġā 153; kaldubiz 130; kalduk 130; kaldukġā 115; kalduklar 130; kaldukmū 131; kaldukunġā 153; kaldum 130; kalduman 130; kaldumuz 130; kaldī 114; kaldī kulā 137; kalib 113; kaliġi 113; kalirmū 131; kalkalarmū 131; kalkaman 130; kalkaman 154; kalkaman 154; kalkamuniz 131; kalkamusān 131; kalkamusuz 131; kalkamū 131; kalkan 112; kalkasan 129; kalkay 129. kalaylar 129; kalkaysan 129; kalkaysiz 129; kalkaysizlar 129; kalkā 121; kalkālim 121; kalkāyim 121; kalkākil 115; kalkāinġā 151; kalmadiñ 130; kalmadiñiz 130; kalmaduk 131; kalmaduklar 131; kalma dum 131; kalma dī 130; kalmadīlar 130; kalmak 114; kalmakay 130; kalmakayman 131; kalmakaybiz 131; kalmakaylar 130; kalmakaysan 130; kalmakaysiz 130; kalmaklik 114; kalmas 113; kalmas biz 131; kalmaslar 113; kalmaslarsiz 130; kalmasman 131; kalmasan 113; kalmassiz 113; kalmassizlar 130; kalmiyāsin 130; kalsā 152; kalsun 120; kalsunlar 120; kalub 138; kalur 111; kalurbiz 130; kalurlar 129; kalurman 130; kalurmuniz 131; kalurmusan 131; kalurmusuz 131; kalursiz 129; kalursizlar 129; kalū 137; kākabiz 130.  
**kamulduruk** strap of a saddle 103; CC 151 comuldruc.  
**kas-** to cut; kastī 109; kasdī 110.  
**kasakū** knife 114; see kaskū.  
**kasaltakī** lizard, gecko 103; WL 82.  
**kasil-** to be cut; kasildī 110.  
**kaskū** knife 109.  
**kaškā** would that 113 (Pers.); WL 82.  
**kaz** time 132 (Pers.); WL 81.  
**kazuġ** patrol 102; WL 82: kuzuġ 'patrol'.  
**kibi** mould; like 128.  
**kiġit** crossing place 102; WL 79 kačut; most Oġ. lang. have a form ending in -t/-d (Az. kečid; Ttū gečit/d), whereas in Qip. lang. -v/-ü seems com-

- mon (Tat. kičü; Kum. gečiv; Nogai keštiv). There are also forms in -k (Čağ. kečik; Tuv. kežig).
- kilaği** coming 106; see kal-.
- kim 1** who 101; WL 84 kimdur 131; kimniğ 120; kimni 132.
- kim 2** that, who (relative) 142.
- kindin** afternoon afternoon prayer 135; see 'ikindin.
- kir-** to enter; kirib 113; kiriban 137; kirmakum 142.
- kərbuk** eyelash 102; WL 80.
- kiriš-** to penetrate; kiriš 104.
- kirtun-** to believe; kirtundum 142. Cf. *Dīwān* (DK 18). Apparently not in Qip. languages. Redh. kirtin-; TTS I 471 II 460 IV 524).
- kišan** leg irons for a horse 102; in most Qip. languages Tat./Kom. kišen; Kaz. kisen.
- kiši** man; person 132; kišilar 132; kišilar<sub>ka</sub> 132; kišilarni 143.
- kubkuk** intensive blue 113; see kuk.
- kuğuşuk** small 105; WL 70; Doerfer 1621.
- kuk** sky; blue 112.
- kukar-** to become blue; kukardi 112.
- kukgak** small 141; Doerfer 1664.
- kul-** to laugh; kulub 137; kul-akan 112; kular 137; kularmišša 113; kulā 125; kulā kaldī 137; kul<sub>ki</sub> 115; kulmadin 138; kulmadī 138; kulmas 138; kulmayin 138; Alternative form of kulmadin; kuluban 137; kuluban 138; kul kul 120.
- kulaf** rose water 101; WL 83; Telegdi 1938:315. Per. comp. of *gül* 'rose' and *ab* 'water.'
- kulağ** ?laughing 107; Derived from kul-. Tat. küleč.
- kumkuk** intensive blue 117; see kubkuk.
- kun** sun; day 106; kundan 145; kunduşmaduq yidi 138; kunduşmamiş yidi 138; kunduşmiş dur 132; bukundur 122.
- kunduz** daytime 135.
- kuprū** bridge 102; WL 78: kuprū 'bridge; n Oğ. 'balance'.
- kur-** to see; kurdum 112; kursağ 119; kurkanimniğ 147.
- kurdur-** to make see; to show; kurdur 110; .
- kurk** shape; beauty 140; .
- kurkulū** beautiful 133; kurklū dur 119; kurkulū dur 140.
- kurkuz-** to make see; to show; kurkuz 110.
- kurt** a kind of tree 101; WL 81.
- kustar-** ?to show causative form of *kör-se-* to want to see especially in West Oğ. (Ttü/Az). kustar <sub>ki</sub> 120.
- kuz** eye; kuzi 140.
- kuzak** ?great-eyed 102; WL 81; İÜ (37\*14) kuzuk; not in Tat.
- kujul** heart; in WL 85 with -ğ, three dots underneath the *nün*. (absent in İÜ 39\*6); kujli 143.
- Lāğin** properly falcon used as a prop. name; 118; Doerfer (1728) "*lāčīn* 'Wanderfalke'."
- makar/maqar** except 126; cf. Steing. *Bulğa* 15,10/11. The use of this word in the Turkic sentences in *İdrāk* matches the Pers. *magar*. In Tur., though, it seems to yield grammatically incorrect phrases.
- Makka** Mecca; Makkakā 145.
- malluğ** equipped with, owner of *māl*, cattle; malluğdur 106.
- man I** 113; mandan 145; man-



- imbilā 146; manī 139.  
**maqar** except 142; see makar.  
**min** a thousand 143.  
**min-** to make mount see bin-;  
 mindum 138; mindī 112.  
**mindir-** to make mount; mindir  
 110; mindurdī 110; mindurkay  
 110.  
 ? **miniš** way of mounting 109.  
**mis** 153; per. assimilation of miš  
 with the cond. particle sā; see  
 Čaykovskaya 1981 missā idiņ  
 153; missā 153.  
**miz** we 130.  
**muštıla-** to bring a good mes-  
 sage WL 88; Doerfer 1737;  
 muštıla 104.  
**muštuluq** good news; gift for  
 bringing good news 102; WL  
 88; Doerfer 1737.  
**nā** what? 132; nādur 132; nā  
 uğun 133.  
**načā** how many? 132; WL 89:  
 načā. (mixed); načādur 132.  
**načuk** how? 132 WL 89: načuk.  
 (mixed).  
**nadan** why 132.  
**naluk** why? 132; WL 90, especially  
 Qip..  
**nasā** thing 133; WL 90.  
**natā** how? 132; WL 90; Acc. to  
 AH especially Oğ.; EDT points  
 to Ott. nete.  
**nišā** why? 132; WL 90; Acc. to AH  
 Oğ. equivalent for for naluk.  
**qāṭī** hard; qāṭī dur 141.  
**qabarğuqlū** equipped with a  
 blister or a carapace 118.  
**qabṭurğā** ? 103; WL 67: qubṭurğā  
 aš-šawlaqu ?  
**qağan** when? 124; qağandur 131.  
**qal-** to remain; qalmamišdī 106.  
**qalam** pen 145; Ar. *qalam*.  
**qamuğ** all 151; EDT “Middle  
 Pers. (*hamāg*)”; qamuğlar 151;  
 qamuğlari 151.  
**qamurşuğā** ant 103; most likely  
 not Oğ., since in those lan-  
 guage qarınğa or the like is  
 used.  
**qanī** where? 122; see qay.  
**qapu** door, gate 101; WL 68.  
**qarāğā** goose 114; WL 70; only as  
 qarağā qāz *al-lagālag*; *Bulğa*:  
 “*qaraža qaz...* ‘oie noirâtre’.”  
 but Redh. “Somewhat black”.  
**qaraldū** shadow or silhouette of  
 a person 102; WL 70; TTS IV  
 karaltı ‘shadow’; but Doerfer  
 karantı (2270).  
**qarar-** to become black; qarardī  
 138.  
**qarğū** WL 70: qarğū ‘Pers. spear’;  
 but EDT: “a watchtower”.  
**qari** 1 old; qarisi 113.  
**qarī** 2 cubit 144; probably not  
 Oğ. (but cf. Tkm, where it has  
 a different meaning).  
**qarindaš** brother; sister; qarın-  
 dāšın 152; qarindašların dur  
 143.  
**qariš** a span 144.  
**qarši** opposite place; qaršındā  
 135.  
**qaşṭalıq** mussel 102; WL 72.  
**qaṭī** side 146; qatinā 148; qaṭ-  
 imdā 144; qatingā 148; qaṭıñdā  
 140. Although listed in *İdrāk*  
 with -i, in view of the poss.  
 endings 3sg. it takes, it must  
 end in -t (as in EDT).  
**qaṭırğā** a gale 102; Doerfer 1437.  
 WL 73: qaṭırğā *aš-šini* WL 70  
 qırbaṭ also *šini*?. *Bulğa* “*qaṭur-*  
*gan, qāṭurgan* 10,1.”  
**qay** which?; what?; qaydā is for-  
 med by adding the loc. suff.  
 dā. qaydā 124; qaydādur 131.

- qayġū** sorrow, grief 112.  
**qayġur-** to be grieved; qayġurdi 112.  
**qaytur-** to turn back (tr.); qaytur 117.  
**qaç** how many? 132; WL 69.  
**qibqizil** intensive red 113; see qizil also kumkuk, kubkuk etc.  
**qil** a hair 103.  
**qilquyruq** woodgrouse 103; WL 74; *Bulġa* 12,4. Noun comp. of qil 'hair' and quyruq 'tail', i.e. an animal, a bird, named after its hairlike tail.  
**qimilda-** ?to shiver WL 75; qimilda 104. Redh. 1473. Perhaps conn. with EDT kamil- to be struck down.  
**qirb-** to shear WL 71 qirpdī (mixed) and WL 70 qirqdī; qirb 104.  
**qiṣā** short 101; WL 72.  
**qizar-** to become red; qizar 104; qizardī 112; qizarmadiq yidī 138; qizarmamiṣ yidī 138; qizarmiṣ 138.  
**qizil** red 112.  
**quburġū** owl 102.  
**quġa** old man; master WL 69; quġaṅ 127; quġasī 113.  
**qul** slave 105; qul ġuqas 105; qulġuqas 113; qulin 146; qulī 119; qulidur 119; qulisan 146; qulkinā 105; qullar 106; qullari 147; qullarī 119; qullariṅ 132; qulum 118; qulumnī 147; qulumuz 119; qulumuznī 147; qulunī 147; quluṅ 118; quluṅnī 147; quluṅuz 118.  
**qulnaġī** in foal 102.  
**qunrawū** bell 102; -ṅ- based on EDT.  
**qunuqluq** visit 122.  
**qurbaġā** frog; toad 102.  
**qurq-** to fear; qurqmaqin dan 142 note spelling with nuna-tion instead of -n.  
**qurṭul-** to be saved WL 70; qurṭul 104.  
**quṣluq** early morning 135 probably a typically Oġ. word.  
**quyaṣ** beams of the sun 154.  
**quyruq** tail 103.  
**quyunġī** ?goldsmith 102; WL 77.  
**rūmluġ** inhabitant of Rūm; Greek 105; rūmlū 106 (Oġ.).  
**saġa** to you 142; see san.  
**sakisiṅġī** eighth 144.  
**sakiz** eight 113.  
**saksan** eighty 112.  
**salkiṅġak** ?swing 103; WL 53. Ttü. salıncak.  
**san** you [sg] 101; sandan 145; sani 141; saniṅbilā 146; saniṅkibī 132; sanī 119; sanudan 136.  
**sanġar** 106; prop. name, deriv. from the verb 'to pierce'. Sanġar is also the name of a famous Selġūq (Oġ.) ruler. cf. Part One, Chapter 2 n. 37. see ṣaṅġ-. sanġar ġā 145; sanġar lar niṅ 147; sanġar 153; sanġarġā 142; sanġariṅ dur 145; sanġarni 119.  
**sanġiṣ-** to stab one another see ṣaṅġiṣ-; sanġiṣti 115.  
**saw-** to love; sawdim 141; sawkaman 125; sawkasan 119; sawkā 125; sawmakimdan 141.  
**sawindur-** to make happy; sawindurdī 152.  
**sawin-** to be glad, happy; sawindum 152.  
**si-** to break (Tr.); sidī 110; sir 111; siyur 111.  
**sibildaq** ?a hairless animal 103; WL 51.

- sin-** to break (intr.); *sindī* 110.  
**sirkā** vinegar; *nit* 102; WL 52.  
**siz** you pl. 113; *sizdan* 145; *siziñbilā* 146; *sizni* 139.  
**suk-** to curse, to stab WL 53; *sukdum* 144.  
**sultān** sovereign 132.  
**sumulda-** ?to clear one's throat WL 53; *sumulda* 104.  
**sunqur** falcon 113; Doerfer 1273 *sonqur*. In *Idrāk* used as a prop. name; *sunqurgā* 140; *sunqurni* 140.  
**supur-** to sweep; WL 51; Doerfer N 102 = 2047; also *supurkā*. *supur* 104.  
**supurkā** broom 102; cf. *supur-*.  
**surmā** something rubbed; *antimony* 140.  
**surmalū** equipped with *surmā*; *surmalūdūr* 140.  
**suzla-** to speak; *suzlab* 113; *suzladi* 115; *suzlayub* 113; *suzlār* 121; *suzlāyur* 121.  
**şabşarī** intensive yellow 113; see *sarī*.  
**şabţur-** to lead astray; *şabţur* 104.  
**şagā** to you 126; see *san*.  
**şagan-** to think see *sağın-*; *şagandağidur* 140; *şagandī* 118.  
**şagin-** to think see *şagan-*. *şagindī* 128.  
**şagrī** hindquarters of a horse 101; WL 58.  
**şal-** to send 134.  
**şalin-** to be sent 134.  
**şamaş** obstinacy 113; WL 60. Occurs in W Qazaq dialects (S. Omarbekov, p.c. Feb 1996, and in NYugur - H. Nugteren p.c. Oct 1997).  
**şamaşnadi** ?to be obstinate 113; see: *şamaş*.  
**şan-** to reckon; *şandī* 128; Oğ. form of *sağın-*.  
**şanğ-** to pierce; *şanğdum* 144; *şanğdī* 111.  
**şanğış** fight; combat 125; *şanğış kunī* 111; *Bulğa* 6,8.  
**şanğış-** to stab one another; *şanğıştı* 111.  
**şanqulan-** ?to attack by surprise WL 60; *şanqulan* 104.  
**şaqurğa** a tick 102.  
**şarağan** ?a kind of plant 102.  
**şarğar-** to become yellow; *şarğardī* 138.  
**şarī** yellow 113.  
**şaringaqañ** locust 103; WL 57.  
**şarşil-** ?to be wricked WL 57; *şarşil* 104. Redh. 1154.  
**şarūgā** ? 114; This may be identical with *şaringaqañ q.v.*  
**şat-** to sell; *şatţim* 117.  
**şığqan** mouse; rat 117.  
**şina-** to test; *şinadī* 112.  
**şinan-** to be tested 112; *şinan-miş* 112.  
**şirt** ?back 101; but: WL 57: *şirt* 'hill and in Qip. ploughshare'.  
**şirtalan** ?hyena 102; WL 57; *Bulğa* 10,14".  
**şun** left WL 59; WL 60; *şunindā* 135.  
**şunrā** later 136; WL: 60.  
**şunuñ** later 136.  
**şur-** to ask; to suck WL 57; *surā* 137; *şurub* 113; *şuruban* 137.  
**şū** water 101.  
**şakird** worker 102; Pers. WL 55; cf. *Telegdi*.  
**şamluğ** from *şām*; the Levant 105; *şamlū* 106 (Oğ).  
**şapşapī** ? 102; WL 54: *şapşapī al-mundaliq* 'loose matter'. Lane: *indalaqa* 'to become loose; fall out'.

**šimdī** now 117; see <sup>3</sup>imdī.  
**tabran-** to move (intr.); tabran 104.  
**takā** he-goat 117; see dakā .  
**taktur-** to make sew; to make plant; takturğil 121. The back suff. cannot be explained.  
**talū** mad 117; see dalū.  
**tamur** iron 116; see damur.  
**taqī** and; also 150.  
**tayma** every 115.  
**tilkū** fox 117; see dilkū.  
**tiltaq** reason 117; see diltaq.  
**tiz** knee 116; see diz.  
**tizkinla-** perh. to brindle a horse also WL 38; tizkinla 104.  
**tun** night; tunlā 136; Bulğa *dünlā* 13, 12.  
**tuna-** to spend the night; tunadī 123.  
**tuquşawu** all nine 116; see tuquz.  
**tutun** smoke 116; see dutun.  
**? tağarğuş** knapsack 103; cf. WL 64.  
**? tağil-** to disperse WL 64; tağil 104.  
**şamdur-** to cause to drip see şamzur-; şamdur 110.  
**şamzur-** to cause to drip; şamzur 110; see şamdur-; şamzur 110.  
**şan** dawn; şandadur 122; şandā 126 (final y read as ā); şanlā 136.  
**şarazī** scales 101.  
**şart-** to weigh; şart 103.  
**şaşqun** overflowing 102; WL 63.  
**şulī** hail; full 101.  
**şun** cloak; garment 110; şūnī 139; şunnī 140.  
**şunan-** to dress oneself; şunandī 110.  
**şunluq** something prepared for

clothes 109; but: *Bulğa* 6, 13 "solde, gages".  
**tuşsağū** all nine 115; see tuquz.  
**tuşsan** ninety 112.  
**tuşşingī** ninth 144.  
**tuşurğın** a game cf. 103; WL 65: tuşurğın 'a game like chess...". TS "tokurcun... A game that is played with nine stones on a board with twenty four rectangular fields".  
**tuquz** nine 113.  
**tuqzan** ninety 117; see tuşsan .  
**turaq** stopping place; turaqın 123.  
**turdur-** make stop; turdur 110.  
**turğuz-** to make stop; to lift; turğuz 110 .  
**turuğī** stopping 106; see tur-.  
**tuŗuş** (manner of) standing 108.  
**tur-** to stand; tur 121; tur miş lar dur 147; tur mundā 151; tur turuban 137; turdilār 119; tur-rağğaq 114; turdū 111; turdī 114; turğabiz 153; turğagaq 109; turğalī 145; turğaman 153; turğasan 153; turğay 152; turğā 121; turğāman 122; turğān 125; turğānlar 125; turğul- 115; tur-madağī 106; turmadī 150; tur-mağay 142; turmaq 151; tur-masā 152; turmiş 108; turmiş missā 153; turmiş missā idim 153; turmişdur 122; tur mişidi 154; tursā 122; tursan 152; tur-saniz 153; turtağidur 122; tur-tuq 153; turū 137; turub 137; turubanur 122; turubtur 122; 111; turuğ 121; turuğsiz 121; turuğuz 121; turur.  
**tuţ-** to hold; tuţtı 117.  
<sup>3</sup>uğ 1 three 143.  
<sup>3</sup>uğ 2 end; <sup>3</sup>uğdan 145; <sup>3</sup>uğğā 145.  
<sup>3</sup>uğawkamuz all three of us 116;

- ʔuğawkañuz 116; ʔuğawlası 116; ʔuğawu 116.  
 ʔuğmaq paradise cf. WL 8; ʔuğmaqā 142; ʔuğmaqā 142.  
 ʔuğun for; for the sake of 133; .  
 ʔuğunği third 144;  
 ʔuğurğuq spindel whorl 103; WL 16.  
 ʔukrat- to teach; n WL 19; ʔukrat 104.  
 ʔuñ right; ʔunindā 135.  
 ʔul that; he, she, it 118; ʔular 118.  
 ʔül 119; see ʔul.  
 ʔul- to die cf. WL 20; ʔuldağibiz 106; ʔuldaği 114.  
 ʔuldur- to kill; ʔulduruldaği 107; ʔuldurulmiş 107.  
 ʔulthur- to sit; ʔulthurdū 111; ʔulthurdum 142; ʔulthuruği 106.  
 ʔulthurqağ a place to sit: chair 103; WL 21; SDD: "oturqaç a chair".  
 ʔulthuruş manner of sitting 115; see ʔulthur-.  
 ʔulu great; elder cf. WL 20; ʔulusi 113; ʔulwasi [sic] 120.  
 ʔulu- to howl; ʔulu 103.  
 ʔun 1 ten 116; WL 23; ʔunin unin 144.  
 ʔun 2 front; ʔundā 136.  
 ʔuningi tenth 144.  
 ʔunuñ his 136; see ʔan.  
 ʔup- to kiss; ʔup 103.  
 ʔuqit- to make read; ʔuqit 110.  
 ʔuqşa- to resemble; to caress; ʔuqşadi 145; ʔuqşar 145.  
 ʔur- to hit, strike; ʔarsañ 153; ʔurdağidur 140; ʔurağandur 140; ʔurdum 140; ʔurduñ 132; ʔurduq 147; ʔurğaman 139; ʔurğani 119; ʔurğaysan 152; ʔurğil 152; ʔurğul 120; ʔurmaq laqi 141; ʔurmaqi 141; ʔurmaqnı 141; ʔursañ 139; ʔur 152.  
 ʔurağat ʔwoman 102; WL 25; ʔawrať.  
 ʔuranla- see ʔuranla-.  
 ʔuranla- to think, suppose WL 12; TS ʔoranlamak; ʔuranladi 128; ʔuranladum 128; ʔuranlarman 129; ʔuranladum 128.  
 ʔurmağak ʔspider 102; but: WL 10: ʔurmağak ʔacid cheese'.  
 ʔurt- to cover; ʔurt 104; ʔurtti 110.  
 ʔurtū cover; blanket 110.  
 ʔurtun- to cover oneself; ʔurtundi 110.  
 ʔurū 1 storage pit 101.  
 ʔurū 2 up 123; ʔurūturmiş 123; ʔurūturur 123.  
 ʔurul- to be hit, struck; ʔuruldaği 107; ʔuruldi 107; ʔurulğan 112; ʔurulğan 116; ʔurulmiş 107.  
 ʔuruş fight 108; ʔuruşni 135.  
 ʔuruş- to hit one another, fight; ʔuruşdi 111; ʔuruşğa 111; ʔuruşur 111.  
 ʔust upper surface; ʔustindādur 145; ʔustumda 136; ʔustundā 135; ʔustundā 135.  
 ʔuşbū '(just) this'; comp. of the particle ʔuş, used to call attention, and bū this 149; WL 14; Eckmann (1966: 114).  
 ʔuşlū equipped with ʔus intelligence, hence intelligent 112; ʔuşlūlardur 112.  
 ʔuşur- to fart cf. WL 15; ʔuşurmaq 103.  
 ʔutla- ʔto advise; ʔutladi 115; For the meaning "to graze" (as 8 ʔutla-) one would expect a back form.  
 ʔutrukka- to ly WL 8; *Bulğa* II 64; ʔutrukladi 115.  
 ʔuťur- to sit cf. ʔulthur-; ʔuťuruş 109; ʔuťuruşim 109; ʔuťuruşı

109.  
 ʔuʃiz ? 116; In Ms. orig. ʔuzusiz, but this form is unlikely, since Turkic does not know the sound ʒ. WL 14: ʔuʃi 'in *tuqsubā* it means 'island' and others say ʔaʃrağ'; *Bulğa*: "aʃuv 5,5". Hence perh. 'without an island'. Caferoğlu: ʔaʃsiz, i.e. 'horseless' 149.
- ʔuʃuz thirty 143.
- ʔuyanla— to restrain taking into account the pattern *fuʃalla* that is treated here, the correct vocalisation must be ʔuyanla rather than ʔayanla (conf. in İÜ). WL 26; ʔuyanla 104.
- ʔuyanuq awake 102; WL 26; TS "uyanuk informed".
- ʔuydin before 136.
- ʔuylā noon 135; *Bulğa* (13,13) "äjlän".
- ʔuyukan ? 102.
- ʔuyurū valley 102; cf. WL 27.
- ʔuz self; ʔuzi 151.
- ʔuz— to tear, to break; ʔuz 108; ʔuzdū 110.
- ʔuzkā other 102.
- ʔuzuk torn, broken 108.
- ʔuzul— to be torn, broken; ʔuzuldū 110; ʔuzulmiş 108.
- ʔuzum grape 102.
- ʔuzun long 133; ʔuzun dur 140.
- yā 1 bow 101; yā ğuğas 105.
- yā 2 exclamation; or 150.
- yāği bowmaker, archer 105.
- yāru half 152; yārusni 152.
- yā— to eat; yā 103; yadiñ 132; yadum 139; yakā san 142; yamadum 142; yamak 151; yamakil 152; yamā 147; yar 111; yayū 137; yidum 147; yidi 108; yikil 153; yüb 138; yiyiban 138; yiyiş 108; yiyur 111; yiyü 138.
- yabyaşil intensive green 117; see yamyaşil.
- yadawu all seven 116; see yidakū.
- yadingi seventh 144.
- yağ oil, grease, fat; yağbar 144.
- yağirlik saddle-felt 103; deriv. from yağır 'shoulder'; Doerfer 1877.
- yağmala— to robb WL 95; Doerfer 1874; yağmala 104.
- yak good, better 109.
- yakir— to be angry WL 96; İÜ suggests in WL 96; yakridi rather than yakirdi, which is not fully vocalised; yakirib 137.
- yaklik superiority 109.
- yakrak better 114; Doerfer 1879.
- yaldurum glass, lightning 103; WL.
- yaltirik 102; in İÜ; em. for biltirik; *Bulğa*: "jüldiräk 3,15... 'graines du roseau'."
- yamaliq what is meant for mending 109; yamaliq 114. cf Doerfer 1895; yamaq.
- yaman bad; yamandan 142; yamanraq 108.
- yamyaşil intensive green 117; see yaşil.
- yan side yaniñdā 135; .
- yan— to be eaten; yandi 133.
- yaqşi good, nice 143; Doerfer 1869.
- yar ground, place 144; yir 145; yirdā 143; see also yir.
- yaraldigan creation pass. part. of yarat— (WL 93) 'the created, or creation; yaraldigan 115.
- yaraşā bat 101; Doerfer 1836; yaraşa is typically Oğ. (Az./Ott./Tkm); Sewortian IV 140.
- yaratğan creator; God 115; WL 93. Doerfer 1843. Common

- Qip. form *yarganıl-*.  
**yarılğa-** (God) to forgive; *yarılğa* 104.  
**yaşşı** flat 117.  
**yaştan-** to prop oneself up on a pillow; *yaştandı* 110.  
**yašta-** to prop on a pillow; *yaştadı* 110.  
**yaştuq** pillow 110.  
**yaş** moist; *yaşdur* 120; *yaşlardur* 120.  
**yaşar-** to become green, moist; *yaşardı* 112.  
**yaşıl** geen 112.  
**yat-** to be sufficient; *yattı* 136.  
**yatmış** seventy 115.  
**yattı** seven 115.  
**yawuz** bad 107.  
**yaz-** 1 to be about to; *yazdı* 123.  
**yaz-** 2 to write; *yazdı* 127; *yaz-dum* 145.  
**yi-** to eat see *yā-*.  
**yidakū** all seven 114.  
**yik** good 108; see *yak*.  
**yikirmi** twenty; *yikirmī ar* 143; <sup>1</sup>*yikirmibir ar* 143; <sup>2</sup>*yikirmī iki* 143.  
**yikirmingī** twentieth 144.  
**yikrak** better 108; see *yakrak*.  
**yin-** to be eaten Pass. form of *yī-*; *yindī* 112.  
**yir** ground, place see *yar*.  
**yiş(i)-** to shine; *bişi* could not be found nor in the alternative spelling, suggested in İÜ, i.e. *bisi*. Hence it may rather be a scribal error for *yişi*, 'to shine.' WL 94 *yişidi* 'he shone'.  
**yişiş** verbal noun of 'to eat' 108.  
**yü-** to wash; *yü* 103; *yudī* 133; *yur* 111; *yuyū* 137; *yuyur* 111.  
**yuq** there is no..., no 109; *yuq sā* 150.  
**yuqluq** poverty 109.  
**yun-** to wash oneself; *yundī* 133.  
**yuri-** to walk; *yuridim* 145; *yuriyū* 137; *yūrī* 137.  
**yurit-** to make walk; *yurit* 110.  
**yuz** 1 hundred 101; *yuzar* 143; *yuz* 143; WL 93.  
**yuz** 2 face WL 93; *yuzī* 140; *yuzu* 138; *yuzī* 138.  
**yuzarlik** 103; EDT: "the plant rue, *Peganon harmala*" transcr. matches İÜ.  
**yuzingī** hundredth 144.  
**yuzlū** having a ... face 138.





## ABBREVIATIONS

ABL	ablative	INT	interrogative
ACC	accusative	KONV	Konverb
AOR	aorist	lt	left
APOC	apocopate	m	masculine
ART	article	md	middle
bm	bottom	MG	Margin Grammar
CAUS	causative	NOM	nominative
COND	conditional	NEG	negation
CONJ	conjunctive	OBL	oblique
CORR	corroborative	PART	participle
DAT	dative	PASS	passive
DEF	definite	PAST	past tense
DIM	diminutive	pl/PLUR	plural
f	feminine	POSS	possessive
GEN	genitive	POSTP	postposition
IMP	imperative	PRES	present tense
IMPF	imperfect	rt	right
IND	indicative	sg	singular
INDEF	indefinite	SUBJ	subjunctive
INF	infinitive	TOP	topicalisation
INFER	inferential		

## BIBLIOGRAPHY

### Primary sources

- al-ʿAnbārī, ʿAbū l-Barakāt ʿAbd ar-Raḥmān bn Muḥammad. *al-ʿInṣāf fi Masāʿil al-ḥilāf Bayna n-Naḥwiyyīn al-Baṣriyyīn wa-l-Kūfiyyīn* ed. Muḥ. Muḥyi ad-Dīn ʿAbd al-Ḥamīd. 1952. Cairo: Maṭbaʿa Ḥiḡāzī.
- al-ʿAndalusī, ʿAbū Ḥayyān, Muḥammad bn Yūsuf bn ʿAlī. *Irtiṣāf aḍ-Ḍarab min Lisān al-ʿArab* (3 vol). ed. Muṣṭafā ʿAḥmad an-Nammās. 1984-1987-1989. (Part I: Cairo: Maṭbaʿa an-Naṣr aḍ-Ḍahabī; Part II and III Cairo: Maṭbaʿa al-Madani).
- . *Kitāb al-ʿIḍrāk li-lisān al-ʿAtrāk* ed. Ahmet Caferoğlu 1931. Istanbul: Evkaf matbaası.
- . *Kitāb al-ʿIḍrāk* MS cod. Veli ed-Dīn 2896.
- . *Kitāb al-ʿIḍrāk*. MS University of İstanbul cod. Halis Efendi 6597.
- . *Manḥaḡ as-Sālik li-ʿAlfiya Ibn Mālik*. ed. Sidney Glazer. 1947. Washington.
- . *Taḍkira an-Nuḥāt* ed. ʿAfif ar-Raḥmān 1986. Beirut: Muʿassasa ar-Risāla.
- . *al-Baḥr al-Muḥīt* (8 vol.) ed. ʿĀdil ʿAḥmad ʿAbd al-Mawḡūd and ʿAlī Muḥammad Muʿawwaḍ. Beirut: Dār al-Kutub al-ʿIlmiyya 1993.
- al-Bayḍāwī, Nāṣir ad-Dīn. *Tafsīr ʿAnwār at-tanzīl wa-ʿAsrār at-Taʿwīl*. al-Maṭbaʿa al-Yamaniyya. 1320/1902 (2 vols.).
- al-Kāšgarī, Maḥmūd Ibn al-Ḥusayn Ibn Muḥammad. *Dīwān Luḡāt at-Turk* facsimile edition of the MS; Turkish Ministry of Culture. 1990 (see also Dankoff & Kelly 1982-5).
- al-Qārī, *al-Minaḥ* = al-Qārī, ʿAlī bn Sulṭān, *al-Minaḥ al-fikriyya ʿalā matn al-Ġazariyya*. Egypt (Cairo?): al-Maṭbaʿa al-Yamaniyya, 1322/1904. al-Fārābī, ʿAbū ʿIshāq bn ʿIbrāhīm *Dīwān al-ʿAdab* ed. ʿAḥmad Muḥṭār ʿUmar 1974-78 (4 vol.) Cairo: al-Hayʿa al-ʿĀmma.
- Ibn Ġinnī, ʿAbū l-Faṭḥ ʿUṭmān. *Sirr Ṣināʿa al-ʿIʿrāb* ed. Ḥasan Hindāwī. (1985) Damascus: Dār al-Qalam.
- . *al-Ḥaṣāʾiṣ*. ed. Muḥammad ʿAlī an-Naḡḡār 1371/1952-56. Cairo: Dār al-Kutub al-Miṣriyya (3 vols).
- al-Ḥalīl = ʿAbū ʿAbd ar-Raḥmān al-Ḥalīl bn ʿAḥmad al-Farāhidī. *Kitāb al-ʿAyn* I. Ed. al-Maḥzūmī and as-Sāmarrāʾī. Beirut: al-ʿAʿlamī.
- Ibn Kamāl Pāšā *Risāla fi Taḥqīq Taʿrīb al-Kalīma al-ʿĠamiyya*. Ed. Mohammed Sawaie. Institut Français de Damas 1991.
- Ibn Manzūr, ʿAbū l-Faḍl. *Lisān al-ʿArab* (n.d.) Beirut: Dār Ṣādir (15 vols.).
- Ibn al-Muhannā, Ġamāl ad-Dīn *Kitāb Ḥilya al-ʿInṣān wa-Ḥalaba al-Lisān*. ed. Kilisli Muʿallim Rifʿat (Bilge) 1921.

- Ibn as-Sarrāġ, 'Abū Bakr Muḥammad bn Sahl. *Al-ʿUṣūl fī n-Naḥw* ed. 'Abd al-Husayn al-Fatī (3 vols) 1985. Beirut: Mu'assasa ar-Risāla.
- Ibn Sidā = 'Abū Ḥasan 'Alī bn 'Ismā'il. *al-Muḥaṣṣaṣ* ed. Laġna 'iḥyā' at-turāt al-'arabī. (n.d.) Beirut: Dār al-'Āfāq al-Ġadīda.
- Ibn as-Sikkīt *'Ibdāl* = Ibn as-Sikkīt, 'Abū Yūsuf Ya'qūb bn 'Ishāq bn Yūsuf, *Kitāb al-Qalb wa-l-'Ibdāl*. Ed. by Šaraf, Husayn Muḥammad. Cairo: al-Hay'a al-'Āmma li-šū'ūn al-maṭābi' al-'amiriyya (1 vol), 1978.
- Ibn Sinā *'Asbāb Hudūt al-Hurūf* ed. Muḥibb ad-Dīn al-Ḥaṭīb 1332/1913/4 Cairo: Maṭba'a al-Mu'ayyid.
- Tarġumān* = *Kitāb Tarġumān Turkī wa-'arabī wa-muġulī* in Houtsma 1889.
- Lisān* see Ibn Manzūr.
- al-Qawānīn al-Kullīya li-Ḍabṭ al-Luġa at-Turkiyya* ed. Mu'allim Rif'at 1928. Istanbul: Evkaf.
- ar-Rāzī, Faḥr ad-Dīn. *at-Tafsīr al-Kabīr*. ed. Muḥy ad-Dīn 'Abd al-Ḥamīd (11 vol.). Cairo: al-Maṭba'a al-Miṣriyya. 1933-8.
- Šālīh, Ibn Muḥammad Mollāh *aš-Šudūr ad-Dahabiyya wa-l-Qiṭa' al-'Aḥmadiyya fī l-Luġa at-Turkiyya* Bibliothèque nationale, Paris, Supplément Arabe No. 4333.
- Sibawayh, 'Abū Bišr 'Amr. *al-Kitāb* II ed. Būlāq - Egypt 1900/1317.
- aš-Širbīnī, Sayyid Muḥammad *Kitāb nūr as-Saġiyya fī Ḥall 'Alfāz al-'Āġurrūmiyya* ed. and transl. by Michael Carter 1981. Amsterdam: John Benjamins.
- al-Kitāb at-Tuḥfa ad-Dakiyya fī l-luġa at-turkiyya*. Facsimile edition by T. Halasi Kun in 'La langue des Kiptchaks d'après un manuscrit arabe d'Istanbul' Budapest: Bibliotheca orientalis Hungarica, 1942.
- az-Zaġġāġi, 'Abū l-Qāsim 'Abd ar-Raḥmān bn 'Ishāq *al-'Idāh fī 'Ilal an-Naḥw* ed. Māzin al-Mubārak 1959 Cairo: Maṭba'a al-Madanī.
- az-Zamaḥṣārī, 'Abū l-Qāsim Maḥmūd bn 'Umar *Kitāb al-Mufaṣṣal Fī n-Naḥw*. Ed. Jens Peter Broch 1879.
- al-Wāfi* see aš-Šafadī

### Secondary sources

- Adang, Camilla. 1993. *Muslim writers on Judaism and the Hebrew Bible from Ibn Rabban to Ibn Hazm*. Diss. Univ. Nijmegen.
- Alpay, Gönül. 1973. *Aḥmad-i Dā'i and his Çengnāme. An old Ottoman Mesnevī*. Sources of Oriental Languages and Literatures, Harvard Printing office.
- Atalay, Besim. I '«Et-tuhfet-üz-zekiyye» Çevirmesi'nin tenkidi dolayısıyla' in *Ankara Üniversitesi Dil ve Coğrafya Fakültesi Dergisi* (VI) 87-126.
- . 1949. *Eş-Şüzür-üz-Zehebīyye vel-Kıtai 'l-Ahmediyye fil-Lūgat-it-Türkiyye* (Turkish transl. of *aš-Šudūr ad-Dahabiyya*) Istanbul.
- Auroux, Sylvain and Queixalos, F. 1984. 'Présentation. Pour une histoire de la linguistique amérindienne en France' in *Amerindia* (6) 1-20.
- Ayoub, Georgine. 1991. 'La forme du sens: le cas du nom et le mode du verbe' in Dévényi and Iványi (1991). 39-87.

- Ayoub, Georgine and Georges Bohas. 1983. 'Les Grammairiens Arabes, la Phrase Nominale et le Bon Sens' in Versteegh, Koerner and Nederehe (1983) 31-48.
- Baalbaki, Ramzi. 1988. 'A Contribution to the Study of technical terms in Early Arabic Grammar—the term *'aṣl* in Sibawayhi's *Kitāb*', in Irvine, Serjeant and Rex Smith (eds.) *A Miscellany of Middle Eastern Articles - In Memoriam Thomas Muir Johnstone (1924-83)*, Harlow: Longmann. 163-177.
- Babby, Leonard H. 1986 'The locus of case assignment and the direction of percolation' in *Case in Slavic*, Brecht and Levine (eds.). Columbus (Ohio): Slavica Publishers. 170-219.
- . 1991. "Noncanonical configurational case assignment strategies" in *Cornell Working Papers in Linguistics* (9) 1-55.
- Babby, Leonard H. and Freidin, R. 1984. 'On the interaction of Lexical and Syntactic Properties: Case structure in Russian', in W. Harbert (ed.) *Cornell Working Papers in Linguistics* (6) 71-103.
- Bakalla, Muḥammad Ḥ. 1982. *Ibn Jinni: An early Arab Muslim Phonetician*. London and Taipei.
- . 1983. 'The Treatment of Nasal Elements by Early Arab and Muslim Phoneticians' in Versteegh, Koerner and Nederehe (1983) 49-69.
- Baskakov, N.A. 1988. *Istoriko-tipologičeskaja fonologija tjurkskix jazykov*. Moskva: Nauka.
- Bazin, Louis. 1959. 'Structures et tendances communes des langues turques' in *Fundamenta* I. 11-21.
- Bergsträsser, G. 1921. 'Das Vorbild von Kāšgari's dīwān luġāt at-turk' *Orientalistische Literaturzeitung* (21) 154-5.
- Bernards, Monique. 1993. *Establishing a reputation: The Reception of the Kitāb Sibawayh*. Diss. Univ. Nijmegen.
- Berta, Arpad. 1989. *Lautgeschichte der tatarischen Dialekte*. Szeged: Attila József University.
- Biesterfeldt, Hans-Hinrich. 1990. 'Ibn Farīḡūn's Chapter on Arabic Grammar in his *Compendium of the Sciences*' in SHAG II. 49-56.
- Blaškovič, J. 1961. *Arabische, türkische und persische Handschriften in der Universitätsbibliothek zu Bratislava*.
- Blau, Joshua. 1989. 'Two Studies of Sibawayhi's *Kitāb* I: The Shift of Arabic Sibilants' in *Jerusalem Studies in Arabic and Islam* (12) 1-15.
- Bloch, Edgar. 1932. *Catalogue des Mss Turcs, Bibliothèque Nationale*. Paris.
- Bobzin, Hartmut. 1983 'Zum Begriff der "Valenz" des Verbums in der arabischen Nationalgrammatik' in SHAG I, 93-108.
- Bodrogligeti, 1971. A. 'A Grammar of Mameluke-Kipchak' in *Studia Turcica* (Budapest). 89-102.
- Bohas, Georges. 1982. *Contribution à l'étude de la méthode des grammairiens arabes en morphologie et en phonologie d'après des grammairiens tardifs*. Thèse d'état, Université de Paris III (1979).
- Bohas, Georges and Jean-Patrick Guillaume. 1984. *Étude des théories des grammairiens arabes. I Morphologie et phonologie*. Damascus: Institut Français de Damas.
- Bohas, Georges, Jean-Patrick Guillaume and Djamel Eddin Kouloughli. 1990. *The Arabic Linguistic Tradition*. London: Routledge.

- Boyce, Mary. 1968. 'Middle Persian Literature' in *Handbuch der Orientalistik I* Abt. IV Bd. 2 Abschn. 32-65.
- Caferoğlu, Ahmet. 1931. *Kitâb al-İdrâk li-lisân al-Atrâk*. Istanbul: Evkaf Matbaası.
- Čajkovskaja, Angelina Ivanova. 1981. *Tjurkskaja Grammatika v Arabojazyč-nix filologičeskix traktatax xiii - xiv Vekov (glagol')*. Taškent: Izd. Fan.
- Cantineau, Jean. 1960. *Cours de phonétique Arabe*. Klincksieck: Paris (repr. of 1941).
- Carter, Michael. 1981. *Arab linguistics. An Introductory classical text with translation and notes*. Amsterdam: John Benjamins [Edition of Širbīnī's *Kitâb nūr as-Sağīyya fi Ḥall 'Alfâz al-'Ağūrrūmiyya*].
- . 1991. 'Elision' in Dévényi and Iványi (1991). 121-133.
- CC = *Codex Comanicus* see Grønbech 1942.
- Celentano, Guiseppa. 1979. 'Due scritti medici di al-Kindī' in *Annali* (39) 1 Suppl. no. 18 agli. 47-75.
- Clauson, Gerard. 1962. *Turkish and Mongolian Studies*. London: The Royal Asiatic Society of Great Britain and Ireland.
- . 1972. *An Etymological Dictionary of Pre-Thirteenth Century Turkish*. Oxford: Clarendon Press.
- Comrie, Bernard. 1983. *Language Universals and Linguistic Typology*. Oxford: Blackwell [corr. repr. of 1981].
- Corriente, Federico. 1978 'Los Fonemas /p/, /č/ y /g/ en Árabe Hispánico' in *Vox Romanica* (37) 214-218.
- Dankoff, Robert. 1972. 'Kāšgarī on the Tribal and Kinship Organization of the Turks' in *Archivum Ottomanicum* (4) 23-43.
- Dankoff, Robert & Kelly, James. 1982-5. *Compendium of Turkic dialects*. Translation of Maḥmūd al-Kāšgarī's *Dīwān Luġat at-Turk*. 3 vol.: I (1982): MS 2-304; II (1984): MS 305-638; III (1985) indices to vol. I and II. Harvard: University Press.
- Deny, Jean. 1921. *Grammaire de la langue turque*. Paris.
- Dévényi, Kinga and Iványi, Tamás (eds). 1991. *Proceedings of the Colloquium on Arabic Grammar Budapest, September 1-7 1991*. The Arabist. Budapest Studies in Arabic (3 - 4).
- Devereux, Robert. 1964. 'Judgment of Two Languages. *Muḥākamat al-Lughatain* by Mīr 'Alī Shir Nawā'ī. Introduction, Translation and Notes.' in *Muslim World* (54) 270-87 (continued in 1965 *Muslim World* [55] 28-45).
- Diem, Werner. 1976. 'Some glimpses at the Rise and Early Development of the Arabic Orthography' in *Orientalia* (5) 251-61.
- Ditters, Everhard. 1992. 'De "zij" van Sibawayh' ['On "them" in Sibawayh'] in *Elf Wijzen van Interpreteren. Essays over het lezen van teksten uit het islamitisch cultuurgebied*. Nijmegen: Instituut voor Talen en Culturen van het Midden Oosten. 36-54.
- Doerfer, Gerhard. 1959. 'Das Krimtatarische' in *Fundamenta* I 369 - 390.
- Doerfer, Gerhard. 1965 and 1967. *Türkische und mongolische Elemente im Neupersischen. II Türkische Elemente, alif-tā', II jīm-kāf*. Wiesbaden: Harrassowitz.
- . 1976. 'Woher Stammte Ibn Muḥannā?' *Archäologische Mitteilungen aus Iran* (9) 243-251.

- Dozy, R.P.A. 1851. *Catalogus Codicum Orientalium Bibliothecae Academiae Lugduno Batavae* Leiden: Brill.
- EDT see Clauson (1972).
- EI<sup>1</sup> *Encyclopaedia of Islam*. 1908-1934. Leiden: E.J. Brill
- EI<sup>2</sup> *Encyclopaedia of Islam*. 1960-. New edition prepared by a number of leading Orientalists. Leiden: E.J. Brill.
- Ermers, Robert. 1992. 'Abū Ḥayyān al-Andalusī en zijn grammatica van het Turks: Een Introductie' in *Sharḥiyyāt* (2) 302-323.
- . 1994. Review of "Risāla fi taḥqīq taʿrīb al-kalima al-aʿgamīya by Ibn Kamāl Pasha", Sawaie, Mohammed, 1991, Damas: Institut Français, in *JAOS* (114/2) 294-295.
- Ermers, Robert and Michel Limpens. 1995. Review of "Sībawayhi the Phonologist", al-Nassir, A.A., in *Bibliotheca Orientalis* 52 5/6.853-5.
- Fazylov, E.I. 1976. 'Zamečanija o rukopisi i jazyke "at-Tuḥfa"' in *Turcologica* (50) 334-340.
- Fazylov, E.I. and M.T. Zijajevaja. 1978. *Izkannyj dar Tjurkskomu Jazyku. Grammatičeskij traktat XIV veka na arabskom jazyke* [Russian translation of *at-Tuḥfa az-Zakiyya*]. Taškent: Fan.
- Fischer, Wolfdietrich. 1989. 'Zur Herkunft des Grammatischen Terminus ḥarf in Jerusalem Studies in Arabic and Islam (12) 125-145.
- Fleisch, Henri. 1961. *Traité de Philologie Arabe I, Préliminaires, phonétique, morphologie nominale*. Beirut: Imprimerie Catholique.
- Flemming, Barbara. 1968. *Verzeichnis der Orientalischen Handschriften in Deutschland - Türkische Handschriften XIII 1*. Wiesbaden: Steiner.
- . 1968. 'Ein alter Irrtum bei der chronologischen Einordnung des *Tarḡumān Turki wa-ʿArabī wa-Muḡalī*' in *Der Islam* (44) 226-229.
- . 1977a 'Zum Stand der Mamlūk-türkischen Forschung' in *Vorträge des XIX. deutschen Orientalistentages vom 28. September bis 4. Oktober 1975 in Freiburg im Breisgau*. ZDMG Suppl. III 2. 1155-64.
- . 1977b 'Literary activities in Mamluk Halls and Barracks' in *Gaston Wiet Memorial Volume Jerusalem*. 249-286.
- Fundamenta I = Philologica Turcicae Fundamenta I*. 1959. Louis Bazin e.a. (eds.). Wiesbaden: Steiner.
- Gabain, Annemarie von. 1959. 'Das Alttürkische.' in *Fundamenta I*.
- . 1959. 'Die Sprache des Codex Comanicus' in *Fundamenta I*: 46-73
- Garipov, Talmas M. 1979. *Kypčakskije jazyki uralo-povolžya* Moscow: Izdatel'stvo Nauka.
- Gibb, E. 1900-09. *A History of Ottoman Poetry* (6 vols) London.
- Götz, Manfred. 1979. *Verzeichnis der Orientalischen Handschriften in Deutschland - Türkische Handschriften, 4*. Wiesbaden: Steiner.
- Grotzfeld, Heinz. 1965. *Syrisch-Arabische Grammatik: Dialekt von Damaskus*. Wiesbaden: Harrassowitz.
- Grønbech, Kaare. 1942. *Komanisches Wörterbuch. Türkischer Wortindex zu Codex Comanicus*. København: Einar Munksgaard.
- Grünert, Max. 1912. 'Al-'Išmām' in *Wiener Zeitschrift für die Kunde des Morgenlandes* (26) 222-36.
- Gully, Adrian. 1994. 'Synonymy or Not Synonymy: That is the Question. The case of the Particle in Medieval Arabic' in *ZAL* (27) 36-46.

- Guzjev, V.G. 1990. *Očerki po Teorii Tjurksskogo Slovoizmenija: Glagol' (na Materiale staroanatolijsko-tjurksskogo jazyka)*. Leningrad: Izd. Leningradskogo Universiteta.
- Haarmann, Ulrich. 1988. 'Arabic in Speech, Turkish in Lineage: Mamluks and their Sons in the Intellectual Life of Fourteenth-Century Egypt and Syria' in *Journal of Semitic Studies* (33) 1 81-114.
- Ḥadiṭi, Ḥadiḡa. 1967. *'Abū Ḥayyān an-Naḥwī*. Bağdād: Maktaba an-Naḥḡa.
- Halasi Kun, Tibor. 1947. 'Philologica I' in *Ankara Üniversitesi Dil ve Coğrafya Fakültesi Dergisi* (5) 1-37.
- . 1948. 'Philologica II' in *Ankara Üniversitesi Dil ve Coğrafya Fakültesi Dergisi* (6) 415-65.
- Hanser, Oskar. 1977. *Turkmen Manual. A descriptive Grammar of contemporary literary Turkmen*. Wien: Verlag des Verbandes der Wissenschaftlichen Gesellschaften Österreichs.
- Hattori, Shiro. 1979-80. 'The place of Tatar among the Turkic languages' in *Eucharisterion: Essays presented to O. Pritsak = Harvard Ukrainian Studies* (3/4) 383-93.
- Haywood, John. 1965. *Arabic Lexicography*. Leiden: Brill.
- Hegazi, Mahmoud M. 1971. *Abū Sa'īd as-Sirāfi der Sibawayhi-Kommentator als Grammatiker*. PhD thesis. Univ. of Munich.
- Henning, W.B. 1958. 'Mitteliranisch' in *Handbuch der Orientalistik* Bd IV Abschn. 1.
- Hjelmlev, Louis. 1972. *La catégorie des Cas*. [Second edition of the original of 1935 (ed. by E. Coseriu) München: Fink].
- Houtsma, Martinus. 1889. *'Tarğumān Turkī wa-'Arabī wa-Muğulī*. Ein türkisch-arabisches Glossar nach einer leidener Handschrift.' (Introduction and edition) Leiden.
- İA *İslam Ansiklopedisi*.
- Iskandar, Albert Z. 1981. "A Doctor's Book on Zoology. Al-Marwazī fiabā'ī al-Hayāwān (Nature of Animals) Re-assessed" in *Oriens* (27/28) 266-312.
- İzbudak, Velet and Kilisli, Mu'allim Rif'at. 1936. *El-İdrāk Hāşiyesi*. İstanbul: TDK Devlet Basımevi.
- Kästner, Hartmut. 1981. *Phonetik und Phonologie des Modernen Hocharabisch*. Leipzig: Enzyklopädie.
- Karamanlioğlu, Ali Fehmi. 1962. 'Kıpçaklar ve Kıpçak Türkçesi' in *Türk Dili ve Edebiyatı Dergisi* (12) 175-184.
- Karatay, Fehmi E. 1961. *Topkapı Sarayı Müzesi Kütüphanesi Katalogu* İstanbul. Topkapı Sarayı Müzesi. 2 Vols.
- Kelly, James. 1971. 'On defining *Dhū ath-Thalāthah* and *Dhū al-Arba'ah*' in *Journal of the American Oriental Society* (91.1) 132-136.
- . 1972. 'Remarks on Kāşgari's Phonology. I. Linguistic terminology.' in *UAJ* (44) 191-193.
- . 1973. 'Remarks on Kāşgari's Phonology. II. Orthography.' in *UAJ* (45) 144-162.
- . 1976. 'Remarks on Kāşgari's Phonology. III. Structure of the Diwan.' in *UAJ* (48) 151-158.

- . 1980. 'A closer look at the *Diwān al-Adab*' in *Eucharisterion. Essays presented to Omeljan Pritsak on his sixtieth birthday*. ed. Ševčenko and Sysyn; vol. III/IV (1979-80; part 2) 497-506.
- Kerslake, Celia J. 1994. 'Two Ottoman Turkish Grammars of the Tanzīmāt Period' in *Proceedings of the VII. Conference of the CIEPO held in Pécs, Hungary, in 1986*. Ankara: Türk Tarih Kurumu. 133-168.
- Kinberg, Naphtali. 1987. 'The Concepts of Elevation and Depression in Medieval Arabic Phonetic Theory' in *ZAL* (17) 7-20.
- Lane, Edward William. *An Arabic English Lexicon, derived from the best and the most copious Eastern sources....* Book I in eight parts [all published]. London & Edinburgh: Williams and Norgate, 1863-93. (Repr., Beirut: Librairie du Liban, 1980).
- Lăzărescu-Zobian, Maria M. 1982. *Kipchak Turkic Loanwords in Rumanian*. PhD. Diss. Columbia University.
- Levin, Aryeh. 1987. 'The Views of the Arab Grammarians on the Classification and Syntactic Function of Prepositions' in *Jerusalem Studies in Arabic and Islam* (10) 342-367.
- . 1994. 'Sībawayhi's attitude to the spoken language' in *Jerusalem Studies in Arabic and Islam* (17) 204-243.
- Lewis, Bernard. 1990. *Race and Slavery in the Middle East. An historical Enquiry*. New York - Oxford: Oxford University Press.
- Lewis, Geoffrey L. 1984. *Turkish Grammar*. Oxford: Clarendon Press. (corr. repr. of 1967)
- Lyons, John. 1971. *Introduction to Theoretical Linguistics*. Cambridge: University Press.
- Mahmutova, L.T. (1982) 'Tatarskiy jazyk v ego otnošenii k drevnepis'mennomu pamjatniku Codex Comanicus po dannym leksiki. Kratki analiz i prilozhenie' in *Issledovanija po istoričeskoj dialektologii tatarskogo jazyka. Materialy i issledovanija 2. Kazan'*. 68-154
- Mansuroğlu, Mecdut. 1954. 'The Rise and Development of Written Turkish in Anatolia' in *Oriens* (7) 250-264.
- Meier, Fritz. 1981. 'Aussprachefragen des älteren Neupersisch' in *Oriens* (27-28) 70-176.
- Menges, Karl. 1966. 'Report on the Second Excursion to Taškent for Research in Čagataj Manuscripts' in *Central Asian Journal* (11) 131-
- . 1968. *The Turkic Languages and Peoples. An introduction to Turkic Studies*. Wiesbaden: Harrassowitz.
- Miquel, André. 1967-1988. *La géographie humaine du monde musulman jusqu'au milieu du 11e siècle*. Paris - La Haye: Mouton (4 vols).
- Mitchell, Terence F. 1993. *Pronouncing Arabic 2*. Oxford: Clarendon Press.
- Moldabekov, K. 1992. *Govorim po-kazaxski*. Alma-Ata: Ana Tili.
- Mosel, Ulrike. 1975. *Die syntaktische Terminologie bei Sībawaih* Diss. Universität München.
- Musaeu, K.M. 1964. *Karaimsko - Russkiy Slovar'*.
- Muskens, G.L. n.d. *Latijnse Grammatica* (rev. by J. Ysebaert). 6th imp. Maastricht: Schenk.



- Nassir, 'Abd al-Mun'im 'Abd al-'Amir. 1993. *Sibawayh the phonologist. A Critical Study of the Phonetic and Phonological Theory of Sibawayh as Presented in his Treatise Al-Kitab*. London and New York: Kegan Paul.
- Nissman, David. 1969. *A study of a Language and Orthography of the Mamlukes of Egypt Based on the Kitāb Bajṭarati 'l-wāḍiḥ*. PhD. Diss. Columbia University.
- Owens, Jonathan. 1988. *The Foundations of Grammar*. Amsterdam: Benjamins.
- . 1990. *Early Arabic Grammatical Theory. Heterogeneity and Standardization*. Amsterdam: Benjamins.
- Öztopçu, Kurtuluş. 1990. 'Kitāb fi 'Ilm an-Nuṣṣāb' (in transcription) in *Rocznik Orientalistyczny* (47 I) 5-63.
- Poppe, Nicholas. 1963. *Tatar Manual Descriptive Grammar and texts*. Bloomington: Indiana University Publications. Uralic and Altaic Series no. 25.
- Pritsak, Omeljan. 1957. Review of Zajęczkowski's edition of *Bulḡa* in *Der Islam* (32) 362-5.
- . 1959. 'Das Kipčakische' in *Fundamenta* I. 79-84.
- Qudayberdy-uly, Šakarim [1858-1931]. 1990. *Rodoslovnaya Tjurkov, Kirgizov, Kazaḥov i ḥanekix dinastij Alma-Ata: Jazušy* (transl. from Kazah by B. Kairbekov).
- Redhouse, James W. 1978 [1890] *A Turkish and English Lexicon Shewing in English the Significations of the Turkish Terms*. Istanbul: Çağrı Yayınları (Reprint of the 1890 Ed., Constantinople)
- Rieu, Charles. 1888. *Catalogue of the Turkish MSS in the British Museum*. London.
- RO *Rocznik Orientalistyczny*.
- Robakidze, N.I. 1986. "Interpretatsiya termina 'al-ḳalb' u starykh arabskikh grammatistov" in *Semitologicheskije Shtudii*, 13/3.42-44.
- Robins, Robert Henry. 1993. *The Byzantine Grammarians: Their place in history*. Berlin and New York: Mouton de Gruyter.
- Roman, André. 1983. *Étude de la Phonologie et de la Morphologie de la Koine Arabe* (2 vols) Univ. de Provence.
- Rossi, Ettore. 1935. *Elenco dei Manoscritti Turchi della Biblioteca Vaticana*. Città del Vaticano.
- Roux, Jean-Paul. 1984. *La Religion des Turcs et des Mongols*. Paris: Payot.
- Rabin, Chaim. 1951. *Ancient West-Arabian*. London: Taylor.
- Saad, George. 1975. *Transitivity, Causation and the Derivation of Passives in Arabic*. Diss. Univ. of Texas, Austin.
- Sawaie, Mohammed (Ed.). 1991 see Ibn Kamāl Pāšā.
- SDD = *Türkiye'de halk ağzından Söz Derleme Dergisi*. 1939-1957. Türk Dil Kurumu. Istanbul: Maarif.
- Šemiyeva, A. and I. Eḥmetov. 1955. *Uygur Tili Grammatikisi I. Ėismi Fonetika hem Morfologija*. Alma-Ata: Kazak SSR Maarip Ministrliḡi (Ministry of Sciences).
- Sertkaya, Osman. 1973. *Osmanlı şâirlerinin Çağatayca şiirleri iii. Uygur harfleriyle yazılmış bazı manzum parçalar i*. Istanbul: Edebiyat Fakültesi.
- . 1975. *Uygur harfleriyle yazılmış bazı manzum parçalar ii*. Istanbul: Edebiyat Fakültesi.

- Sewortian, E.V. 1974-1978-1980. *Etimologicheskij slovar' t'urkskich jazykov*. 1 Vowels; 2 V, G, D; 3 Z, Zh. Moscow: Institute of Linguistics.
- SHAG II *Studies in the history of Arabic Grammar. Proceedings of the 2nd Symposium on Arabic Grammar, held at Nijmegen 27 April - 1 May 1987*, ed. Michael G. Carter and Kees Versteegh. Amsterdam: Benjamins (= *Studies in the History of the Language Sciences* 56).
- Sinor, Denis. 1969. *Inner Asia. History, Civilization, Languages. A syllabus*. Indiana University. The Hague: Mouton & Co.
- SKJa. = *Sovremennij Kazaxskij Jazyk, Fonetika i morfologiya*. 1962 Alma-Ata: Izd. Akademii Nauk Kazaxskoy SSR.
- Sohrweide, Hanna. 1974. *Verzeichnis der Orientalischen Handschriften in Deutschland - Türkische Handschriften XIII 3*. Wiesbaden: Steiner.
- Steingass, Francis Joseph. 1947. *A Comprehensive Persian-English Dictionary*. London: Paul, Trench, Trubner.
- Steuerwald, Karl. 1988. *Türkisch-Deutsches Wörterbuch*. Wiesbaden: Harrassowitz.
- Süssheim, K. 'Alī' in *İslam Ansiklopedisi* (I 304-306).
- Taha, Zeinab Ahmed. 1995. *Issues of Syntax and Semantics: A Comparative Study of Sibawayhi, al-Mubarrad, and Ibn as-Sarraaj*. PhD. Diss. Georgetown University; Washington D.C.
- Talmon, Rafael. 1984. 'at-Tafsir an-Nahwī qabla Kitāb Sibawayhi' -Dirāsa fi Ta'riḥ al-Muṣṭalaḥ an-Nahwī al-<sup>ᶜ</sup>Arabi' in *al-Karmil* (5) 37-53.
- . 1997. *Arabic Grammar in its Formative Age. Kitāb al-<sup>ᶜ</sup>Ayn and its attribution to Ḥalīl b. Aḥmad*. Leiden, New York, Köln: Brill.
- Tarama Sözlüğü*. 1963-1977. Ankara: Türk Dil Kurumu.
- Telegdi, Sigmund. 1938. 'Eine türkische Grammatik in arabischer Sprache aus dem XV. Jhd.' in *Körösi Csoma Archivum*, Ergänzungsband H.3. Budapest. 282-326.
- Theorie Analyses*. Analyses, theorie: Études Arabes Université de Paris. Département d'Arabe - Vincennes.
- Tomanov, M. 1965. 'Mahmud Kashgari' in *Central Asian Review* (13; 4) 330-338.
- Troupeau, Gérard. 1976. *Lexique-Index du Kitāb de Sibawayhi*. Paris: Klincksieck.
- . 1989. 'Voyelles et Semi-voyelles dans le Kitāb de Sibawayhi' in *Jerusalem Studies in Arabic and Islam* (12) 31-39.
- TS = *Tarama Sözlüğü* Türk Tarih Kurumu Basımevi - Ankara 1965 - 1981. 8 vol.
- TÜYATOK = Türkiye Yazmaları Toplu Katalogu [The union catalogue of manuscripts in Turkey]. Ministry of Culture. Ankara : Türk Tarih Kurumu Basımevi (1979-).
- UJ *Ural-Altäische Jahrbücher*.
- Ülkütaşır, M.Ş. 1946. *Kaşgarlı Mahmut*. Istanbul.
- Vajda, Edward J. 1994. 'Kazakh Phonology' in *Opuscula Altaica. Essays presented in honor of Henry Schwarz*, ed. by E. Kaplan & D. Whisenhunt. Washington: Western Washington. 603-50
- Versteegh, Kees. 1977. *Greek Elements in Arabic Linguistic Thinking*. Leiden: Brill.

- Versteegh, Kees. 1978. 'The Arabic terminology of syntactic place' in *Arabica* (25) 261-281.
- . 1980. 'The origin of the term *qiyās* in Arabic grammar' in *ZAL* (4) 7-30.
- . 1981a. 'A Dissenting Grammarian. Quṭrub on Declension' in *Historiographia Linguistica* (8) 403-429.
- . 1981b. 'La conception des "temps" du verbe' in *Theorie Analyses*. 47-68.
- . 1985. 'The Development of Argumentation in Arabic Grammar - The declension of the dual and plural' in *ZAL* (15) 152-173.
- . 1990. 'Freedom of the Speaker? The Term *Ittisāʿ* and Related Notions in Arabic Grammar' in *SHAG* II. 281-293.
- . 1994. 'The notion of "underlying levels" in the Arabic grammatical tradition' in *Historiographia Linguistica* (23.3) 271-296.
- . 1995. *The Explanation of Linguistic Causes. Az-Zaḡḡāḡī's theory of grammar. Introduction, translation, commentary*. Amsterdam and Philadelphia: J. Benjamins.
- . (forthcoming) 'Maʿnā in the Arabic tradition' in *The emergence of semantics in four linguistic traditions, sanscrit, Hebrew, Greek, Arabic*. Wout van Bekkum et. al. (eds.) Amsterdam and Philadelphia: Benjamins.
- Versteegh, Kees, and Schippers, Arie. 1987. *Het Arabisch. Norm en Realiteit*. Muiderberg: Coutinho.
- Versteegh, Kees, Konrad Koerner and Hans Niederehe (eds). 1983. *The History of Linguistics in the Middle East*. Amsterdam: Benjamins.
- VOHD = *Verzeichnis der Orientalischen Handschriften in Deutschland; Türkische Handschriften* III 1-5.
- Waetzoldt, Irene. 1978. *Zu den osmanischen Verbformen des 16. Jahrhunderts nach dem Mecmu-i Menazil des Matraqçi Nasuh*. Freiburg im Breisgau: Schwarz (Islamkundliche Untersuchungen; Bd. 48).
- Wal, Marijke van der. 1992. *Geschiedenis van het Nederlands*. Utrecht: Het Spectrum.
- Waugh, L. and M. Halle (Eds.). 1984. *Roman Jakobson: Russian and Slavic Grammar (Studies 1931-1981)*. Berlin: Mouton.
- Weiss, B. 1976 'A Theory of the Parts of Speech in Arabic (Noun, Verb and Particle): a Study in 'Ilm al-Waḡʿ' in *Arabica* (23) 23-36.
- Wild, Stefan. 1965. *Das Kitāb al-ʿAyn und die Arabische Lexikographie*. Wiesbaden: Harrassowitz.
- Wittek, Paul. 1928. 'Neuere Wissenschaftliche Literatur in osmanisch-türkischer Sprache. I.' in *Orientalistische Literaturzeitung* (3) 172-178.
- Wright, W. 1986. *A Grammar of the Arabic language*. Translated from the German of Caspari. Cambridge: University Press. (2 vols) (First edited in 1859/1862).
- Younes, Munther A. 1994. "On emphasis and /r/ in Arabic". In: Mushira Eid, Vicente Cantarino and Keith Walters (Eds.), *Perspectives in Arabic Linguistics VI*. Amsterdam and Philadelphia: J. Benjamins. 215-235.
- Zajączkowski, Ananiasz. 1954. *Słownik Arabsko-Kipczacki z okresu Państwa Mameluckiego* Buġāt al-Muštāq fi luġat at-Turk wa-l-qifzāq. II *Verba*. Warszawa.
- . 1958. *Vocabulaire Arabe-Kiptchak de l'époque de l'État Mamelouk* Buġāt al-Muštāq fi luġat at-Turk wa-l-qifzāq. I *Le Nom*. Warszawa.

- Zajączkowski, Ananiasz. 1965a. 'Chapitres Choisis du Vocabulaire arabe-kiptchak *ad-Durra al-muḏī'a fi l-luġa t-turkiyya I*' in *RO* (29) I 39-98.
- . 1965b. 'Chapitres Choisis du Vocabulaire arabe-kiptchak *ad-Durra al-muḏī'a fi l-luġa t-turkiyya II*' in *RO* (29) II 67-116.
- . 1968. 'Material kolokwialny arabsko-kiptczacki w Słowniku «ad-Durra al-muḏī'a fi l-luġa t-turkiyya»' in *RO* (31) II 71ff.
- . 1969. 'Chapitres Choisis du Vocabulaire arabe-kiptchak *ad-Durra al-muḏī'a fi l-luġa t-turkiyya III*' in *RO* (32).
- ZAL *Zeitschrift für arabische Linguistik*. Wiesbaden: Harrassowitz.
- ZDMG *Zeitschrift der deutschen morgenländischen Gesellschaft*. Wiesbaden.

## A. INDEX OF SUBJECTS

- action 332  
addition (*see also* augmented radicals) 318 321 322 349 350 369 378  
— for the superlative 310  
consonants of — 318  
places of — 319  
adjective 143 164 224 233 | 351 359 360 369 372  
— that is meditated about 312  
intensive form — 321  
permanence of — 312ff. 321  
plural of — 370  
real — 360  
single — 371  
unstable — 339  
adverb 191 228  
affirmation 334 339 340 356 367 375  
agent 2 164f. 168 170f. 173 176ff. 180 182 196f. 238f. 247f. 252f. 257 264 266 273 280 292 | 312 328 343 358 360f. 375  
— hidden in the verb 164  
fully nominal — 359  
replacing — 349  
agency 175ff. 180 199 226  
alleviation 81 157 213  
allophone 9 69f. 73 75ff. 83 92 94 96f. 99f. 119 134ff. 142ff. 146 148f. 158 286  
approved — 77  
disapproved — 78  
alphabet 139 141 191 | 307  
Arabic — 8 9 14 82 141 159  
Uyгур — 21 22 129ff. 135 138ff. 141f. 149 159  
analogy 314  
annexation, annexed 49 173 175 178 180 192 199ff. 204ff. 214 218 219-23 225ff. 231f. 235 261f. 264 | 331 342 351 353 365 369 373 376  
— formally 368  
— element 352  
— noun 371  
particle of — 351 365 381  
semantically — 368  
apocopate 167 173 176  
apodosis 376ff.  
apposition 371f.  
Arab grammarians and phoneticians 1 4 6 8 9ff. 15 25 48 53f. 67ff. 73 75f. 82 85 87f. 92 94 105 109 115f. 121 129 151 165 199 206f. 210 212 231 234 237f. 247f. 252 255 268 280 283f. 291f.  
Arabian Peninsula 31  
Arabic  
— consonant system 69  
— dialects 204  
— genitive 283  
Arabic language 3ff. 7 10 23 25 67ff. 191 195 206 237 263 275 | 305f. 316 332f. 337 340 342 346ff. 353 357 360f. 364ff. 368 371 375 378f.  
Arabic linguistic theory 3ff. 6ff. 10 12 15 44 47 53 67ff. 73 80

- 82 84 87f. 92 94 96 111 126  
 131 134 144f. 151 163ff. 169  
 200 202f. 214ff. 222f. 225  
 230 238 245f. 256 260 262  
 271 280 284 287ff. 292f.  
 — concepts 5 12  
 — phonetic terminology 127  
 — phonology 80  
 — grammar 6 7 43 48 49 54  
 166f. 169 188 190 195f. 203  
 207 214 216 220 226f. 234f.  
 238 248 257ff. 271 273f. 284  
 286 288 295 |  
 Arabic verb 265  
 Arabic linguistic treatises on  
 Turkic language 15 53  
 Arabic-Persian dictionary 36f.  
 Arabic-Turkic dictionary 33 36  
 archiphoneme 88 110  
 article 332  
 articulation  
 places of — 69f. 81 91 120 142  
 145 146 152  
 assimilation 14 50 67ff. 80ff.  
 88f. 92f. 118 147 150f. 153  
 155 157 | 318 326f. 346 361f.  
 374 378  
 consonant — 89 182 204 250  
 253  
 attention see particle of —  
 attributes 3 35 49 224 229 242 |  
 338 369ff.  
 unstable — 338  
 base form 114 147 155 157 232  
 261 270 275 | 318  
 basic sources: primary material  
 15 31 43-7 51  
 Bedouins 31 69 78 145  
 — tribes 68f.  
 — as native speakers 26 43 69  
 biradical 19 104 | 307 309 310  
 320 349 350  
 case  
 ablative — 2 10 291  
 accusative — 9 10 12 42  
 166ff. 183ff. 186-90 192 196  
 200ff. 226ff. 230 237ff. 243  
 245ff. 249 251f. 254 256f.  
 259ff. 264 274f. 277-81 283  
 288f. | 351 357  
 dative — 10 110f. 147 148  
 182 183 186 210f. 231 234  
 237 249f. 253f. 258 265f. 275  
 280ff. 288 291  
 genitive — 10 12 42 116 166f.  
 169f. 182 184f. 187 195 199f.  
 204ff. 211 213-18 223f. 226  
 227 233 235 239 262 288 |  
 331 350 356 370  
 instrumental — 2  
 semantic load of — 10 164  
 semantic — 10f. 187f. 190 203  
 215 288f. 291  
 syntactic — 8 10f. 187f. 190  
 200 203 215 237 282f. 287ff.  
 291  
 theoretical — 291  
 typological characteristics of  
 — 163 181f. 188  
 apocopate 166  
 — ending 2 11 155 165ff 168  
 178f. 182f. 185 187ff. 194  
 196 200 204 211 214 217f.  
 223f. 230 235 238 247 260ff.  
 275 280 283f. 290  
 Turkic — 270 181  
 causative 253f. 270 273  
 circumstantial expression 239  
 249 253 278ff. | 320 321 351  
 354f. 357  
 form of — 340 343  
 intensification of — 355

- collective 184 250  
   — of singularity 323  
   — of the number 324 326  
 comparative 313  
 competing regency 365  
 composite 193 | 369  
 comprehensive 373 375  
 concepts  
   — of vowels and consonants 9  
   128  
   — of phonemes 69  
   innovations in linguistic —s  
   94  
 condition 376  
   particle of — 331 337 368 376  
   381  
   — in the past tense 378  
   — in the future 378  
   conditional noun 358  
 conditioning 89 108  
   — of accompanying vowels 73  
   conditioned 72f. 77 82 89 94  
   100 108 112 119 121 151 185  
   287  
 conjunction 49 190 213 251 |  
   307 359 372 373  
   particles of — 381  
 consonants 18 18f. 50 51 167  
   171 172 177 186 187 190f.  
   194 220ff. 239 242 253 256  
   260 269ff. 284 286f.  
   basic —s 70  
   counterpart 72 80 90 94f. 106  
   covered —s 71ff. 76 93 101f.  
   depressed —s 71 111  
   disapproved —s (*see also*  
   allophones) 77 87  
   doubling of — 96 142f. 148f.  
   elevated — 71-6 84 93 100  
   111 154  
   elision 81 131f. 147  
   emphatic — 71 80 94f. 98 154  
   acceptance of emphatic — 94  
   guttural — 71 102  
   knotted —79  
   mixed 83 84 97 100 133 142  
   144 146 148ff.  
   neutral — 83 156 158 154  
   occlusive — 71  
   palatal, palatalised — 8f. 68 71  
   73 75 77 82 89 92f. 95f. 98  
   100 103ff. 107 109ff. 115ff.  
   118 122ff. 126 128 134 146ff.  
   151 153ff. 157 186 286 190  
   191 | 306 310 323 331 313ff.  
   333 357 366 374  
   replacement of — 79  
   resembling — 81  
   spirant — 71  
   Turkic — 42  
   velar counterpart 206  
   velar, velarised — 8f. 68 71-80  
   82 85f. 88f. 92f. 94-109 111f.  
   115ff. 120ff. 124 126ff. 134  
   147ff. 151 153f. 157 186 213  
   286 | 306 310 313ff. 323  
   333f. 339 357 366 374  
   vocalised —s 83  
   voiced 51 71 79 89 92 94 97  
   118 143 145 148ff. 153f. 157  
   159  
   voiceless — 51 71 89 92 94  
   96f. 123 143 145 148-57 159  
   187  
   weak —s 18 19 83 129 104  
   219 221f. 261 266 | 307  
 context 347 369  
 Coptic 25  
 corroborative 49 252 | 322ff. 333  
   335 343 348f. 374f.  
   formal — 374  
   semantic — 374

- Crimea 28 39  
 declension 8 48 86 163 165ff.  
     171f. 176f. 179 181 237 257  
     278 287f.  
     concept of — as a theoretical  
     intermediate 176  
     declensional ending 166 178f.  
     189 215 287f.  
 deletion 87 131 168 173 183 185  
     213 221 260 266 267 270  
     — of a particle 267  
 dependency grammar 6  
 derivation 3 34 77 175f. 179 233  
     243 246 253 268ff. | 314f.  
     317f. 324 320 332 355 364  
     366  
     derivative form 196 255 260  
     — from base consonants 67  
     76f. 85 104f. 141 139 150 157  
 destination 316  
 determination 356  
     determined 329 356  
 doubling 239 269  
 dual form 166 171 271 287  
 elative 17  
 elision 185 232 240ff. 247 250  
     261 263 266 | 306 313 317ff.  
     321 327 329 334f. 340ff.  
     351f. 354 368 370 374f. 379  
     elided particle 266  
 diminutive 309f. 320 322 323  
     381  
 dual form 311 369 355  
 equivalent 10 18 157 166f. 171f.  
     178 180 190f. 195f. 198-204  
     207ff. 212 216 224ff. 229ff.  
     233f. 238 244f. 252 255 258f.  
     263 266 278 285 289 | 305  
     317 321 324 332 335 348  
     352f. 360ff. 364f. 367f. 372ff.  
     379f.  
     Turkic — 11 197 200 203 ff.  
     208 210f. 237 263ff. 267 277  
     280 282 284  
 Ethiopian 25  
 etymology 318  
 evidence (for determining  
     linguistic context)  
     direct — 15 43 51  
     indirect — 47 15 43 46 51  
 exception 183 186 192 239 | 362  
     351  
     interrupted — 362f.  
     particle of — 381  
     uninterrupted — 362f.  
 figure of speech 312  
 flexibility 195 257 263 296  
 frequency 147 240 | 322  
 function  
     marker for a function 257  
 future tense 154 272 | 314 317f.  
     322 331 334 343ff. 349 359  
     367  
     condition in — 376  
     marker for the active participle  
     in — 312  
     phonetic form of — 376  
     pure — 337  
 gender 165 181 271 288  
 Generative Linguistics 12 164  
 gerund 252  
 glide 19 81 8ff. 93 128-32 172  
     220 283 287  
     insertion of — 101 129  
     status of — 85 128f. 131  
 governance 10f. 167-81 187f.  
     195 199 201 203 205 207  
     213f. 216 220 223f. 226f. 233  
     238ff. 245 249 257ff. 263f.  
     268 276f. 282f. 287-92 295 |  
     321 333 349 354  
     devoid of — 362



- theories of — 200  
 — of a verb by means of a  
 particle 241  
 direct — of the object 265  
 govern 6 164 169f. 201 214  
 237ff. 245f. 257 263 266 275  
 282  
 governed 6 40 166 169 176  
 178 180f. 201f. 205f. 208 214  
 220 233 238 241 246f. 258  
 266 277 280f. 284 293 | 356  
 358  
 governing element 10 11 220  
 283 290  
 governor 6 11 164 166-71 173  
 176 178 180 181 203ff. 214  
 242 289  
 imperative 32 34 111 113 118f.  
 125f. 131 154 192  
 — form 113 117 120 131  
 imperfect tense (*see also* tense)  
 316 318 328 332ff. 339f.  
 342f. 346 350 354 368 380  
 consonant of — 318  
 particle of — 310  
 inclination 189 (of vowels) 71  
 83f. 100 105 127 133  
 full — 127  
 medium — 127  
 index  
 — of fusion 189  
 — of synthesis 189  
 indicative 167 175 176  
 indicator of objectivity 258  
 inferential 251  
 infinitive 103 104 109 116 118  
 119 213  
 innovation in terminology 204  
 230 257 282ff.  
 instrument 71 105 148 189 294  
 | 315  
 interrogation 49 91f. 111 114  
 191  
 interrogation  
 particle of — 346 381  
 interrogative 334 341 344ff. 348  
 — noun 335 337 358 368 381  
 intransitive 237ff. 242 262f. 268  
 274  
 intransitivity 237 | 334 352  
 353  
 invariance of morphemes 189  
 Kafa 38  
 lexicographical works 38 52  
 linguistic 263  
 — principles 53  
 locative (object in which/Turkic  
 case) 10 39 48 110 112 182f.  
 195 198f. 201-4 207 223 227f.  
 230-34 238 241 249 288 291  
 — of place 227 230f. 235 |  
 335 350ff.  
 — of time 227f. 233 | 335  
 350f. 353  
 specified — of time 352  
 unspecified — of time 202f.  
 230 | — 352  
 Mamlük times 15  
 manner (as a term) 316  
 marker 310  
 — of objectivity 175 226 256f.  
 266 276 284  
 — of the accusative 256 266  
 284  
 — of the feminine 164 165  
 — of the object 256ff. 260  
 262 263 278 279 283 285  
 — of the plural 34 165  
 medio-passive form 310 317 319  
 metalanguage 4  
 metathesis 80 85  
 Mongolian 20 21 32 43

- mood (*see* declensional endings)  
12 167 175f.
- morpheme 165 189 192ff. 261  
262 268 271 284  
segmentability of —s 163 181  
186 188f. 234 287  
predictability of —s 177 186  
188f. 215
- morphology 167 188 190 286  
290 294
- nasal cavity 77 146
- negation, negative 10ff. 34 130  
192 | 334 338 344 346 348  
356 367 380  
particle of — 312 340 349 377  
380
- nominative 86 165ff. 170 182  
188 196 201 226 238 243  
247ff. 276 288
- nominatum 330
- non-standard manner 69
- noun 11f. 29f. 30 32 34 48ff.  
104 109 116f. 119 130 150  
164-9 167ff. 172f. 175ff. 181-  
85 188ff. 192 194 199-204  
207 213f. 217ff. 222-8 230  
232ff. 238f. 240f. 244f. 246ff.  
250 257 260f. 263ff. 268ff.  
274 277 281f. 284ff. 291 |  
307 309ff. 315 328 335 345  
347 356  
annexed — 200ff. 218f.  
220ff. 224f. 228ff. 257  
— of place 117 | 372  
derived — 371  
non-derived — 371  
collective — 368  
compound of two — 328 330  
conditional — 335 341 358  
described — 369  
determined — 310 328 368  
divisible — 375  
generic — 338f. 359  
hexaradical — 308  
indicated — 372  
individual — 368  
indivisible — 375  
interrogative — 336 347  
overt — 343 366  
overt singular — 343  
pentaradical — 308  
— of place 315 322f. 332  
pure — 313  
qualified — 369  
restricting — 374  
simple — 328  
singular — 337  
tetraradical — 308  
undetermined — 310 328 356  
368 370
- oath  
particle of — 365 367
- object 2 49 170f. 177f. 180 183f.  
191 234 237f. 240f. 243 246f.  
249 251 253 255 256-65 273  
275 276-84 289f. 292f. | 331  
342 346 350 358  
concomitant — 238 | 351 362  
direct — 11 168 170 180 238  
239-51 254 256ff. 260 263  
267 275 277f. 280 281ff.  
292f.  
improper — 241f. 263 265  
267 280f. 284  
non-pure — 289  
— in which (*see also* locative)  
201f. 227  
— directly governed 266  
— marker 267  
— of reason 238f. 242 266f.  
284  
— of structurally deleted

- particle 267  
 — without apparent marker  
 278  
 optional — 201 227 237f. 241  
 248 257 278 289  
 proper — 241f. 257 275 284  
 two differing —s 244  
 countable — 364  
 direct — 337 351 356f. 359  
 360  
 improper — 334 343  
 marker of — 372 376  
 proper — 334 361  
 — of reason 351  
 — whose agent is not  
 mentioned 328  
 objectivity 176 178 199 265 266  
 | 341 358 376  
 indicator of — 368  
 marker of — 347 360  
 indicator of — 369  
 occupation 311ff. 321 324  
 original sense 312  
 orthography 78 80 82ff. 86 93 95  
 97 111 114 121 128 130ff.  
 147f. 154f. 158  
 orthographic device 72 83 102  
 126 136  
 orthographic reflection 82  
 pair  
 minimal —103 107 122  
 oppositional — 96 128  
 palatalisation *see* palatal  
 consonants  
 participle 251 278  
 active — 34 49 81 120 173  
 220 239 252f. | 314 320 323f.  
 332 358f. 364 378  
 active — in the future tense  
 322  
 active — in the past tense 324  
 intensive form of the active —  
 309 319 322ff.  
 passive — 310 313 314 319  
 320 323 324 325 349 358  
 relative — 325  
 particle 2 11 49 91f. 114 167  
 169f. 178 180 191f. 196-206  
 208 210-16 218 224f. 227  
 229ff. 233f. 239ff. 244f.  
 257ff. 262-70 273 276f. 283f.  
 293  
 additional — 259  
 Arabic — 193 195 197 199f.  
 203ff. 209f. 213f. 227 234f.  
 270 284f. 289  
 causative — 254  
 connective — 252  
 instrumentality 206  
 — of annexation 201 204 276  
 — of attention 192 | 381  
 — of the genitive 49 205 232  
 262  
 — of transitivity 269 277  
 — of wishing 381  
 strengthening — 242 245 259  
 265 285  
 verb-like — 49  
 passive 247f.  
 — form 85 193 | 318f. 325  
 349f. 381  
 — verb 196f. 248  
 — reflexive 310 317  
 past tense 22 34 87 111ff. 119  
 151f. 155f. 165 175 192 194  
 251 253 266 | 312 314 316  
 320 322 324 328 331f. 337  
 340 343f. 346 349f. 359 365  
 374 376ff.  
 marker for — 89  
 imperfect —219 279  
 consonant of — 318

- marker for — 312 313
- particle of — 310 346
- pattern 19 48 51 53 73 85 90
  - 131 175 186 197 239 242f.
  - 269 287 | 308f.
  - consonant — 50
- pentaradical 307
- perceptions 67 141
- Persian 17 20 25 32f. 35 36f.
  - 43f. 78 133 137 140 142 145
  - 148 294 | 306 340
  - Turkish dictionary 36f.
  - grammar in Arabic 36
- phoneme 2 9 14 68f. 75f. 88 80
  - 92 94 96 100 134f. 139f. 136-46 148f. 158 186
  - prescribed value of — 68 94 80 137 159
  - prescribed value vs. perceived phonetic value 80
- phonetic
  - phonetics 67ff. 75 140 143 286 (cf. ch. III)
  - laws 80
  - reality 76 158
- plural 17f. 48 92 110ff. 119f. 165f. 171 181 187 193 196 217ff. 261 271 287 | 309f. 319f. 329f. 332 337 343f. 345ff. 349 353 355 369 373 381
  - marker of — 311 336ff.
  - broken — 48 287f.
  - for reason of esteem 344
  - of the adjective 369
  - of the collective noun 311
- point of articulation *see* articulation
- possessive 182 184ff. 196 199f. 203f. 214f. 217ff. 223ff. 232f. 235 249f. 258 260f. 266 285 293
- postposition 2 11 203 206 211 214 229
- predicate 48 49 | 321 328 334ff. 339f. 341 355 370 378
- present tense 34 251 268 279
  - 319 344ff. 349
  - form of — 336
  - negation of — 320 340 367
- pronoun 39 87 147165 208 213 217ff. 222f. 226-30 232 235 260ff. 264 293 | 311 320 324 331 343 368f. 377 379f.
- independent — 329 344 358
- demonstrative — 310 329f. 332 371
- personal — 329ff. 336 351 353
- suffixed personal — 329f. 344 366 371
- of the verb 337
- pronunciation
  - back — 95 99 101f. 106f. 109 122ff.
  - Bedouin — 307
  - front — 95 103 107 123f.
  - mixed — 307
  - neutral — 71 75 80 125
  - pure — 307
- proper name 14 48 184f. 226 | 329
- prosodic
  - features 87 91 111f. 116 153f. 158
  - conditions 11 167
- prothetic hamza 243
- Qurʾān 69 77
- radical (*see also* root basic consonants) 19 51 85 180
  - augmented — 309
  - primary — 309

- rare occurrence 322  
 reciprocity 310 317  
 reference 309 311 321 324 379  
     general — 102 116 145 257 |  
     328  
     special — 329  
 relative 48 91 | 329f. 336 341  
     356 358 371 381  
     — in the future tense 331  
     — in the past tense 331  
     singular — 330  
     — clause 320 324 330f.  
 resonance 77  
 root 50 51 73 81 85f. 129 131  
     193 196 261 269 271f. | 307  
 rule 29 41 68 92 105 107f. 121  
     128 130 135 137 152 154 158  
     186 227 261 271f. 283 287  
     290 | 310 317  
     general — 108 131 291 | 314  
 semantic  
     — criteria 238  
     — level 245  
 sentence  
     nominal — 170 246 277 | 328  
     345ff. 355 363 377  
     subordinate — 251  
     verbal — 176 | 328 345 347  
     370  
     conditional — 331 370  
 septiradical 19  
 sequence 364  
 singular 19 23 51 118 125f. 175  
     192 219 223 250 252 258 260  
     287f. | 310f. 320 324 329 333  
     336 346f. 353 355 363f. 369  
     perfect — 323 326  
 speakers: pure — 31  
 specification 216 239 257f.8 289  
     | 347f. 351 364  
     non-transferred — 363  
     transferred — 363  
     types of —:  
         length 363  
         number 363  
         volume 363  
         weight 363  
 speech: direct — 243 255 281 |  
 stem: verbal — 104 109 118f.  
     120 239 242 253f. 268 270  
     284  
 structure of grammars 15 17 30  
     32 34 39 47ff. 51 52  
 substitution 49 69f. 73 80 82 85  
     87 151 153 155 168 175 196 |  
     312 318 326 329 341 344 362  
     371 375f. 380  
 suffix 10 89 92 104 107 109-21  
     130 147 150-7 164 182 184  
     186 189 191ff. 212ff. 217 228  
     231f. 234 249ff. 253f. 257  
     258ff. 268ff. 278 280 285f.  
     causative — 254 270f.  
     distribution of front and back  
     —es 116 120  
 surface structure 11 105 164  
     168-71 175 199 201ff. 208  
     214f. 224f. 227 234 239f. 242  
     245 257 262f. 265 267 281f.  
     287 290 293  
 synonym 81 197 205  
 syntactic  
     — function 165 170f. 173  
     177-81 187 195 205 226 257  
     292  
     — position 165 171 173 178-  
     80 194 197 199 201 205 213  
     238 246 257 259 284  
 tetradical 307 309  
 topic 5 9 48 | 328 335f. 344  
 totum  
     pars pro toto 375

- totum pro toto 375  
 transfer (phon.) 243  
 transformation (phonol.) 80  
 transitive 49 188 193 230 237-41  
   243-46 254 256 259 262f. 265  
   268 271 273-78 280 284 293 |  
   317 350 352 381  
   — to one object 342  
   — to two objects 343 357 359  
   — with a particle 357  
   — to three objects 343  
 directly — 241 242 244 275  
 276  
   — by itself to two objects 244  
   — to one object 273  
 transitivisation 243 272 274 |  
 343  
 transitivity 237f. 240 242f. 249  
   259 262 268 270 272ff. 276  
   280 284 | 319 321f. 324  
   particle of — 310 316 343  
 triradical 19 51 104 | 307 309  
 Turkic  
   — case ending 181 186 189f.  
   199 200 203 211 286  
   — origin of authors 22f. 31 33  
   42 295  
 Turkic language 1f. 4f. 7 12ff. 17  
   21 23 25 27f. 31ff. 39f 42f. 45  
   47f. 50f. 53 54 67f. 82 88 90  
   102 111 113 122ff. 128 137f.  
   150f. 216 251 268 293 | 305  
   307 342  
   ʾAbū Ḥayyān's — 38  
   Crimean Tatar 28 39  
   Çağatay 35 37 44  
   Ḥaqānī-Turkic 13  
   Karaim 28  
   Karaçay-Balğar 28  
   Karakalpak 28  
   Kazakh 2 28  
   Nogai 28  
   Oğuz 7 13 20 27f. 30ff. 39 42  
   91 106 113 115 140 143 149  
   216 293f. | 306 310f. 313 318  
   320 329 340 342ff. 348 352  
   365 369 380  
   Ottoman 13 337ff.  
   Qipçaq 7 13 15 27f. 32 39f.  
   253 255 293 294 | 310 356  
   369  
   Runic inscriptions 12  
   Tatar 1 3 13 16f. 24 28 33 44  
   38  
   Turkic —s 163 181f. 187 190  
   210 216 237 249 252ff.  
   'Turkestanian' 23  
   Turkish 113 135 144 255 295  
   Turkmen 113 128  
   Yakut 128  
 Turks 20 23ff. 31 42 76 118 144  
   148 163 182 | 305f. 370  
 underlying structure 10 19 105  
   164 168f. 200f. 214ff. 224  
   226f. 234 241f. 259 265ff.  
   282f. 287 289f. 295  
 undetermined 249  
 uniradical 19 | 307 309 349  
 usage 310  
 utterance 307  
 velarisation *see* velarised  
   consonants  
 verb 4 19 22 29f. 39f. 48ff. 85  
   87ff. 103f. 104 107 112ff. 117  
   119f. 127 131 150 154ff.  
   action of — 234 252  
   bitransitive — 243-47 268 274  
   276f.  
   denominal — 268f. 284 | 319  
   directly transitive — 266  
   infinite — 252  
   passive — 319

- tritransitive — 243
- of the heart 49
- verbal noun 270 | 310 314f. 323  
350f. 360 374 381
- intensive form of — 315 325
- marker of — 323
- of nouns 322
- vowels
  - lengthening of — 307
  - harmony 346 381
  - transfer of — 318 355
  - back — 71 90f. 93f. 102 107  
123 127
  - basic — 83 114
  - colouring of — 87 106
  - flavouring of — 97 142 144
  - front —s 9 68 90f. 93f. 105  
108 124
  - lengthening of —s 219 235  
261
  - low and high — 91
  - plene spelling of — 85 128ff.  
132
  - rounded — 68 90ff. 111 121  
125 127f.
  - secondary lengthening of —  
129 131
  - Turkic — 68 106 121
  - unrounded — 68 91f. 111
  - length 7 14 128 131 132
  - lengthening 83 85f. 101f.  
104 126ff. 129 132
  - signs 129
  - vowelless 81 165
  - vowel harmony 9 67ff. 82 87f.  
90ff. 110-5 151 155 158f. 182  
250 253
  - labial harmony 90ff. 113 115
- word
  - simple —s 191 | 309
  - by-word translation 7 214  
224 229 264
  - word lists organised by semantic  
categories 22 30 32 39
  - word order 2 168 187f. 255 287
  - inverse — 255

## B. INDEX OF ARABIC TERMS

- ʿadā 345  
   — aš-šarṭ 331 337  
   — an-naql 343  
 ʿadad 311 363  
   iğtimāʿ fi l— 323  
   al— al-murakkab 364  
 ʿahmala: tuhmal 343  
 ʿahādī 307  
 ʿāla 310  
 ʿalāma 101 117 141 157 163ff.  
   166f. 173 192 194 212 219  
   221 223 225ff. 253 256 263  
   265 269 272 276-81 284 | 310  
   379  
   — al-mafʿūl bihi 256f. 284  
   — al-mafʿūliyya 226 256f. 266  
   276f. 284 | 347  
   — an-naṣb 256f. 261 284  
   — li-t-taʿnīt 165  
   — al-ğamʿ 34  
   — al-nafy 34  
   ʿalam 175 | 329  
 ʿamal, ʿiʿmāl 12 116 168f. 201  
   242 268 | 321 333 349  
   ʿamil 164 166f. 169 242  
 ʿamr 32 34 114 117 119 120 125  
   126 282  
   fiʿl al— li-l-muḥāṭab 324  
 ʿanna al-maftūḥa 341  
 ʿarabī  
   al-fāʾ al-ʿarabiyya 139 143  
   ğim ʿarabiyya 139  
 ʿāriḍ 74 87  
 ʿaṣl 23 76 114 118f. 129 136 139  
   141 147 149 152 155 173 201  
   246 256 261 269 272 | 312  
   318 320 357  
   ʿalā l— 276  
   — al-waḍʿ 312  
   ʿiṣāla 322  
   ḥurūf ʿaṣliyya 70  
 badal, ʿibdāl 80f. 27 73 101 144  
   151 153 155 | 312 371f. 375  
   (phon) 326 344  
 badawī 307  
   kāf badawīyya 145 312  
 baḍʿ min kull 375  
 basīṭ 308  
 bināʾ (pl. ʿabniya) 18 177 193 |  
   354 309  
   — al-fiʿl li-l-mafʿūl 325  
 daḥīl 342  
 dālla 194 | 311  
   tadullu 141 258 265 270  
   dalīl (pl. dalāʾil) 31 167 222  
   226 | 368  
   — al-mafʿūliyya 258 | 368  
   dalāla 312 324  
   — ʿalā t-tafḍīl 319  
 ḍamana 341  
 ḍamīr 165 196 218f. 226 261  
   — al-fiʿl 337  
   — al-mafʿūl 337  
 ḍawāt  
   — at-ṭalāṭa 19  
   — al-ʿarbaʿa 19  
 faḍla 329  
 farʿ 76f. 79 136 139 318  
   farʿiyya 322  
 fiʿl (pl. ʿafʿāl) 19 22 24 30 32 40  
   49f. 107 114 117 119 154 157  
   118 130 152 165 169 176f.



- 194 219f. 238 240 242 244  
 246f. 256 262 266 268ff. 272-  
 6 278 | 307 320  
 — ġāmid 192  
 — qawīya 242  
 — qulūb 49 277  
 taqwiya al— 242  
 — al-ʿamr 354  
 fāʿil  
 al— aḡ-zāhir 359  
 faṣl 380  
 lā yufṣal 376  
 ġam<sup>c</sup> 17f. 193 | 309 319  
 nisba al-fiʿl ʿilā — 319  
 maġmūʿa 310  
 ġāmid 334  
 ġārr 331  
 ġawāb 376f.  
 ġins 85 157  
 ġumla 330  
 — fiʿliyya 328  
 — ismiyya 328 347  
 ġāʾib 123 196 218f. 222f. 226  
 232 | 320  
 ġayn  
 — mayyita 143  
 kalima ġayniyya 104 107 118  
 ġunna 18 77 146f. 150  
 maġnūna 146f.  
 hayʾa 310 316  
 ḥaḍf 170 173 176 240 | 321  
 (phon.) 327  
 ḥāġiza 329  
 ḥāl 239 247 252f. 278f. 281ff. |  
 344ff. 349 367  
 (present tense) al— al-manfi  
 320 340  
 fiʿl— al-muḍāriʿ 319  
 fiʿl ḥālī 336  
 ḥāl (other meanings) 354 320f.  
 340  
 — ḡarfu z-zamān 353  
 ḥaraka 85 87 243 | 327  
 ḥarf (pl. ḥurūf) 19 30 50 74ff.  
 76ff. 83f. 100ff. 107f. 113  
 116ff. 119 129ff. 131 141 143  
 146 152 154 156f. 169 172  
 191f. 194 197 201 204f.  
 210ff. 219f. 222 225 230ff.  
 239ff. 245 259 263 267 269ff.  
 276 284  
 — ʾaġwaf 19  
 — ʾaṣli 309  
 — al-fiʿl 310  
 — ġarr 12 42 204 205 207 215  
 239f. 242 244 256 262 | 353  
 — al-ġawāb 380  
 — nafy 312  
 — nāqiṣ 19  
 — al-ḥalq 102 144  
 — ṣafawī 144  
 — taʿdiya 239 269 | 316  
 — at-tamannā 381  
 — al-wiʿāʾ 335  
 ḥurūf al-madd wa-l-līn 19 |  
 307  
 ḥurūf šamsiyya 14  
 ḥurūf ṣulba 142f. 145 152  
 ḥurūf aṣ-ṣalāba 143 152 156  
 ḥurūf farʿiyya  
 — mustaḥsana 77  
 — mustaqbaḥa 77  
 ḥaṣw 19  
 ḥaṣīn 157 329  
 ḥattā (bi-t-taḍmīn) 373  
 ḥikāya 380  
 ḥukm 157 338 342  
 ḥabar 170 215 246 | 321 328 335  
 ḥabariyya 347  
 ḥafif  
 nūn —a 77  
 nūn sākina —a 77

- hamza muḥaffafa 77  
 yā' —a 133  
 ḥiffa 81  
 ḥālīṣ 32 76 79 142 223 232 | 307  
 353  
 ḥayšūmī 70 146 223 232 | 307  
 nūn sākina ḥayšūmiyya 329  
 ḥumāsī 307  
 ʾi<sup>c</sup>dād 310 322  
 ʾidāfa 173 175 176 178 199ff.  
 204ff. 214 218f. 221ff. 225ff.  
 230 232 261 276 | 325 353  
 muḍāf 173 177 180 200f. 218f.  
 220ff. 224ff. 228  
 ʾidḡām 81f. 152 327  
 iḥtiqār 349  
 ʿilla 221f. 265 272 | 361  
 ʿilm  
 — al-luḡa 25 191 | 305  
 — an-naḥw 25 305  
 — at-taṣrīf 25 305  
 iltiqā' 81 321  
 ʾimāla 71 75 83f. 96 100 103  
 108 117f. 121f. 127 133 134  
 ʾalif al— 77  
 imtinā<sup>c</sup> 380  
 ʾinšā' 328  
 intiqāl 355  
 ʾi<sup>c</sup>rāb 2 6 11 14 163 164–81 190  
 200 235 257 288f.  
 ism 14 30 116 123 129 168 175f.  
 194 201 207 220f. 260 266  
 268 | 307  
 — al-fā<sup>c</sup>il 34 120 173 252 |  
 309 320  
 al-mubālaḡa fi — al-fā<sup>c</sup>il 310  
 319  
 — al-makān 117 310 322  
 ʾaḥir al— 222  
 — al-ḡam<sup>c</sup> 311  
 — ʾišāra 310 329  
 — al-maf<sup>c</sup>ūl 310 320  
 — šarṭ 335  
 — az-ẓāhir 343  
 ʾasmā' al-ʾaḡnās 338  
 ʾasmā' al-ʾa<sup>c</sup>lām 310  
 ʾisnād 248 | 343f.  
 — al-fi<sup>c</sup>l ʾilā l-ḡam<sup>c</sup> 311  
 istakanna: yastakinnu 324  
 istiḥām 334 336  
 istiktār 347  
 isti<sup>c</sup>lā' 71 100 108 117 154 157  
 musta<sup>c</sup>lin 75f.  
 istiṭnā'  
 mustaṭnā 239  
 istiṭqāl 81  
 ʾišbā<sup>c</sup> 86 95 102ff. 107 133 117f.  
 124 128f. 226 307 309  
 — al-ḡarakāt 129 219 261 307  
 mušba<sup>c</sup>a 322  
 ʾismām 79 84 86 96 97 102 105  
 133  
 mašmūm 95 117  
 mušamm 84 97 133 143f. 147  
 148  
 ištīmāl 375  
 ištiqāq 308 318 355  
 ʾitbā<sup>c</sup> 87 114 | 346 381  
 ittašala 311  
 ittiḥād 310 317 319  
 ittisā<sup>c</sup> 195 240 257 262  
 tawassu<sup>c</sup> 262f.  
 ʾiṭbāt 334 348  
 iṭṭirād: yaṭṭarid 327  
 ʿiwaḍ 313  
 kaf  
 — mayyita 144f. 147  
 kāfiyya 104 118  
 al-kalima al— 118  
 kalām 32 152 328 334  
 kalima 31 87 102f. 116 118 307  
 327 342

- kaṭra 322  
 kitāba 51 131 273  
 kull min kull 375  
 lafz 103ff. 118 136 141 271ff. |  
   330  
   lafza (ʿalfāz) 26 42 97 101  
   116f. 119 154 259 261 263 |  
   348  
   ʿalfāz maḥşūra 374  
   — al-mustaqbal 376  
   — al-ʿamr 376  
   malfūz bihā 263  
   talaffūz 125f. 145f.  
 laḥīqa: tulḥaqa 310  
 lām  
   — ḡalīza 75 76  
   al— al-mutawassiṭa 75  
   — muḡallaḡa 75  
   — muṭbaqa 76  
   — raqīqa 75  
 lazima: yalzamu 316  
   lāzim: kasra —a 74  
 %mā lam yusamma fāʿiluhu 319  
 lisān (pl. ʿalsina) 20 24 27 72 75  
   277  
   — al-ʿarab 25 42 275ff. | 307  
   343  
   al— at-turkī 32 342  
   ʿalsina t-turk 144  
 luḡa 23 25 27f. 30-5 39f. 45 50  
   76 100 129f. 152 268 293 |  
   307  
 maḍī 310 318  
 mafʿūl 259ff. 265 273 275 276ff.  
   280ff. 284 292 | 319  
   — bihi aṣ-ṣariḥ 357  
   — ḡayr ṣariḥ 289 | 334  
   — lahu 266 | 360  
   — maʿahu 361  
   — ṣariḥ 289 | 334  
   mafʿūliyya 341 358  
   maḡhūr 71 151  
   maḡrūr 201 204ff. | 331  
   mahmūs 71 151f.  
   maḡall 165  
   maʿḡaḍ 313  
   maḡraḡ 70 143f. 145f. 151 152  
   malḡūz 312  
   mamsūḡ 363  
   maʿnā 116 125ff. 157 177 179f.  
   195f. 207f. 211f. 215 231 233  
   242 248 260 265 277  
   manzila 216f. | 313  
   maqām 168 195 197 259  
   maʿqūda 78f. 145  
   maṣdar 34 118 213 239 241 266  
   268f. | 310 351  
   — min al-ʿasmāʾ 322  
   maṣūb 83f. 97 100 142 144 146  
   148 | 307  
   maṭl 86  
   maʿṭūf 325  
   mawḍiʿ 117 120 173  
   mawḍūʿ 191  
   mawqiʿ 259 261  
   mawṣūl 324 329  
   al-maḍī mawṣūlan 320  
   mawzūn 363  
   mazīd (*see also* ziyāda) 349  
   min as-sabbabiyya 362  
   miṭl 316  
   mubālaḡa 351  
   mubham 202f. | 351  
   mubtadaʾ 170 215 246 | 335  
   muḍāf 329 331  
   muḍāraʿa 310 318  
   muḍmar 329 330 357  
   mufahḡam (*see also* tafḡim) 79  
   95f. 98ff. 117 122f. 129 145 |  
   310 323  
   mufrad 125 193f. 219 | (*see also*  
   munfarid) 310

- al— bi-ḡātihi 323  
   — al-lafz 328  
 muḡāṭab 218 232 | 320  
 muḡtaṣṣ 202 230 | 347 351  
 mukil 363  
 muḡaddarāt 363  
 munāsaba 157  
 munfaṣil 329  
 munfarid (*see also* mufrad)  
   — bi-ḡātihi 326  
 munḡaṭi<sup>ḥ</sup> 362  
 muḡis (*see also* qiyās) 314  
 murā<sup>ḥ</sup>ā 115  
 murādif 191 197 205 208 230f. |  
   306 321 335 340 347 360 362  
   364f. 367f. 373 375  
   turādif 324 372 374  
 murakkab 193 | 325 308 328  
 muraḡḡaq 96 106 117 123 | 310  
   323  
 murtaḡal 330  
 musammā 330  
 mustaqbal 312  
   fi<sup>ḥ</sup>l al— al-ḡāliṣ 337  
 mustaṭnā 362  
   al— minhu 362  
 muṣarraḡan 362  
 muṣaddada 148 | 321  
 muṣāraka 310 317  
 muṣba<sup>ḥ</sup>a *see* ṡiṣbā<sup>ḥ</sup>  
 mutaḡazin 375  
   ḡayr — 375  
 mutaḡarrik 83 307  
 mutakallim 25 31 321  
 mutasaffil 71  
 mutaṣarrif 334 352  
 mutawallid 145ff.  
 mutawassit 324  
 muttaṣṣil 329 362  
 muṭāwa<sup>ḥ</sup>a 310 317  
 muṭlaḡ 113 310
- nafs  
   — al-fi<sup>ḥ</sup>l 344  
   — al-kalima 352  
 nafy 334  
 naḡw 24 49  
 nahy 34 334  
 nā<sup>ḥ</sup>ib <sup>ḥ</sup>an al-fā<sup>ḥ</sup>il 349  
 nakira 310 328  
 naḡala: nuḡilat 327  
   manḡul 330  
   ḡayr — 363  
 nasab (*cf.* also nisba) 309  
   — ṡilā ṣ-ṣan<sup>ḥ</sup>a 321  
 naṣb 12 262 282ff. | 351  
 nāṣi<sup>ḥ</sup>: nawāṣi<sup>ḥ</sup> 129 219 261  
 nawāsiḡ 328 336  
 nazīr 317 332 361  
 nisba 35 76 277 | 342  
   — ṡisnādiyya 320  
 nuṭḡ 97 101 104 131 144 152  
   261 | 351  
 qāf  
   kalima qāfiyya 104 118  
 qalb 80f. 151  
 qāma maḡāmahu 350  
 qarīna 347  
 qawl 307 328 321  
 qism (*pl.* ṡaqsām) 40 | 307 316  
   351  
   al-qisma al-<sup>ḥ</sup>aqliyya 307  
 qiyās 271f | 310 316f.  
   — muṭṭarid 321  
   lā yanḡās 317  
   muḡis 310  
 rakīka 102 118 142f. 145  
 rubā<sup>ḥ</sup>i 307  
 sākin 154 157 261 269f. | 310  
   317  
 samā<sup>ḥ</sup>a, samā<sup>ḥ</sup> 271 | 313  
   sumi<sup>ḥ</sup>a 271 | 310 320  
   masmū<sup>ḥ</sup> 310

- siyāq al-kalām 369  
 sudāsī 308  
 şahīḥ 142f.  
 şan<sup>ca</sup> 311  
 şariḥ 141f. 275 280f. 284  
 şifa 338  
     luzūm aş— 312 321  
     — lāzima 312  
     — muḥbar <sup>ca</sup>anhā 312  
     — mu<sup>ca</sup>araḍa 338  
 şīğa 279 281 | 341 342  
 şūra 136 141 | 348  
 şadḍa 320 322  
 şart 336 376  
 ta<sup>ca</sup>diya 259 270 272ff. 276f. 284  
     ta<sup>ca</sup>addā 263 273 275f. 278 |  
     350  
 ta<sup>ca</sup>ağğub  
     maḥrağ at— 348  
 ta<sup>ca</sup>alluq 277 | 342f 358  
     muta<sup>ca</sup>alliq 30 277 280  
     tata<sup>ca</sup>allaqu 277  
     ta<sup>ca</sup>liq 378  
 taḍ<sup>ca</sup>if 320  
 tafā<sup>ca</sup>ul 325  
 tafḍil 313  
 tafşil 331  
 tafḥīm (*see also* mufahḥam) 75  
     77 95f. 101 105 116 121 126  
     142f. 150  
     tafḥīman (non techn.) 344  
 taḥbib 322  
 taḥfif (*see also* ḥafif) 352  
 ta<sup>ca</sup>kīdan 323  
 talaffuz *see* lafz  
 tanwīn 261  
 taqdir 12 105 290  
 tafḍil 17  
 tamyiz 347  
     — manqūl 363  
 tanbīh 327  
 tanşış 311  
 tanwīn 351  
 tarkīb 25 48 307  
 tartib: murattab 364  
 tasallāta 351 352 358  
 taşarruf 341  
     lam yutaşarraf 341  
 taşğir 17 309f.  
 taşrif 22 32 | 307 318 351  
 tawālī 87 114 115  
     — al-ḥarakāt 345  
 tawassu<sup>ca</sup> 357  
 tawaşşul: yutawaşşalu 343  
 ta<sup>ca</sup>zīm 333 344  
 tu<sup>ca</sup>akkid 341  
 turkmān 306  
 ṭalab 328  
 ṭarīqa al-mağāz 312  
 ṭulāṭī 51 307  
 ṭunā<sup>ca</sup>ī 307  
<sup>ca</sup>umdatan 329  
<sup>ca</sup>umūm (sg. <sup>ca</sup>amm)  
     — al-<sup>ca</sup>afrād 368  
     — aš-şumūl 368  
 waşafa: wuşifa bihi 359  
 wazana: wazannā 309  
 wuḍi<sup>ca</sup>  
     mā — ḥāşşan 329  
     mā — şāyi<sup>ca</sup>an 328  
 mawḍū<sup>ca</sup> 307  
     al-mawḍū<sup>ca</sup> lahu <sup>ca</sup>aşlan 376  
 zamān 312 334  
 ziyāda 260 | 318  
     — li-t-tafḍil 43 47 310  
     zā<sup>ca</sup>id 85 259 273 | 309 378  
 zāhir 357  
 zarf 12 39 | 330  
     — al-makān 335  
     — az-zamān 351f.



# STUDIES IN SEMITIC LANGUAGES AND LINGUISTICS

3. Corré, A.D. *The Daughter of My People*. Arabic and Hebrew Paraphrases of Jeremiah 8.13-9.23. 1971. ISBN 90 04 02552 9
5. Grand'Henry, J. *Les parlers arabes de la région du Mzāb (Sahara algérien)*. 1976. ISBN 90 04 04533 3
6. Bravmann, M.M. *Studies in Semitic Philology*. 1977. ISBN 90 04 04743 3
8. Fenech, E. *Contemporary Journalistic Maltese*. An Analytical and Comparative Study. 1978. ISBN 90 04 05756 0
9. Hospers, J.H. (ed.). *General Linguistics and the Teaching of Dead Hamito-Semitic Languages*. Proceedings of the Symposium held in Groningen, 7th-8th November 1975, on the occasion of the 50th Anniversary of the Institute of Semitic Studies and Near Eastern Archaeology of the State University at Groningen. 1978. ISBN 90 04 05806 0
12. Hofstijzer, J. *A Search for Method*. A Study in the Syntactic Use of the H-locale in Classical Hebrew. With the collaboration of H.R. van der Laan and N.P. de Koo. 1981. ISBN 90 04 06257 2
13. Murtonen, A. *Hebrew in its West Semitic Setting*. A Comparative Survey of Non-Masoretic Hebrew Dialects and Traditions. Part I. *A Comparative Lexicon*.  
 Section A. *Proper Names*. 1986. ISBN 90 04 07245 4  
 Section Ba. *Root System: Hebrew Material*. 1988. ISBN 90 04 08064 3  
 Section Bb. *Root System: Comparative Material and Discussion*. Sections C, D and E: *Numerals under 100, Pronouns, Particles*. 1989.  
 ISBN 90 04 08899 7
14. Retsö, J. *Diathesis in the Semitic Languages*. A Comparative Morphological Study. 1989. ISBN 90 04 08818 0
15. Rouchdy, A. *Nubians and the Nubian Language in Contemporary Egypt*. A Case of Cultural and Linguistic Contact. 1991. ISBN 90 04 09197 1
16. Murtonen, A. *Hebrew in its West Semitic Setting*. A Comparative Survey of Non-Masoretic Hebrew Dialects and Traditions. Part 2. *Phonetics and Phonology*. Part 3. *Morphosyntactics*. 1990. ISBN 90 04 09309 5
17. Jongeling K., H.L. Murre-van den Berg & L. van Rompay (eds.). *Studies in Hebrew and Aramaic Syntax*. Presented to Professor J. Hofstijzer on the Occasion of his Sixty-Fifth Birthday. 1991. ISBN 90 04 09520 9
18. Cadora, F.J. *Bedouin, Village, and Urban Arabic*. An Ecolinguistic Study. 1992. ISBN 90 04 09627 2
19. Versteegh, C.H.M. *Arabic Grammar and Qur'ānic Exegesis in Early Islam*. 1993. ISBN 90 04 09845 3
20. Humbert, G. *Les voies de la transmission du Kitāb de Sibawayhi*. 1995. ISBN 90 04 09918 2
21. Mifsud, M. *Loan Verbs in Maltese*. A Descriptive and Comparative Study. 1995. ISBN 90 04 10091 1
22. Joosten, J. *The Syriac Language of the Peshitta and Old Syriac Versions of Matthew*. Syntactic Structure, Inner-Syriac Developments and Translation Technique. 1996. ISBN 90 04 10036 9
23. Bernards, M. *Changing Traditions*. Al-Mubarrad's Refutation of Sibawayh

- and the Subsequent Reception of the *Kitāb*. 1997. ISBN 90 04 10595 6
24. Belnap, R.K. and N. Haeri. *Structuralist Studies in Arabic Linguistics*. Charles A. Ferguson's Papers, 1954-1994. 1997. ISBN 90 04 10511 5
  25. Talmon R. *Arabic Grammar in its Formative Age. Kitāb al-'Ayn* and its Attribution to Ḥalīl b. Aḥmad. 1997. ISBN 90 04 10812 2
  26. Testen, D.D. *Parallels in Semitic Linguistics*. The Development of Arabic *la*- and Related Semitic Particles. 1998. ISBN 90 04 10973 0
  27. Bolozky, S. *Measuring Productivity in Word Formation*. The Case of Israeli Hebrew. 1999. ISBN 90 04 11252 9
  28. Ermers, R. *Arabic Grammars of Turkic. The Arabic Linguistic Model Applied to Foreign Languages & Translation of 'Abū Ḥayyān al-'Andalusī's Kitāb al-'Idrāk li-Lisān al-'Atrāk*. 1999. ISBN 90 04 113061
  29. Rabin, Ch. *The Development of the Syntax of Post-Biblical Hebrew*. 1999. ISBN 90 04 11433 5