



LSWT 2009 Leipzig

Topic Maps Portals

Dr. Lutz Maicher

Topic Maps Lab at the University of Leipzig

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UNIVERSITÄT LEIPZIG

Institut für Informatik
Automatische Sprachverarbeitung



topicmapslab.de



What is the Topic Maps Lab?

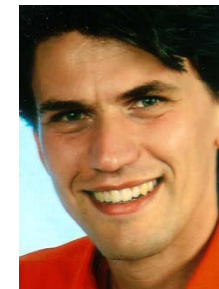
... it's a research group dedicated to Topic Maps technologies.

- Located at the University of Leipzig, Germany

– *Chair of the Topic Maps Labs:* Dr. Lutz Maicher

Kontakt: maicher@informatik.uni-leipzig.de

0049 / 341 / 97 32303



- Funded by the BMBF (German Federal Ministry for Research and Education)
- Portal: <http://www.topicmapslab.de>



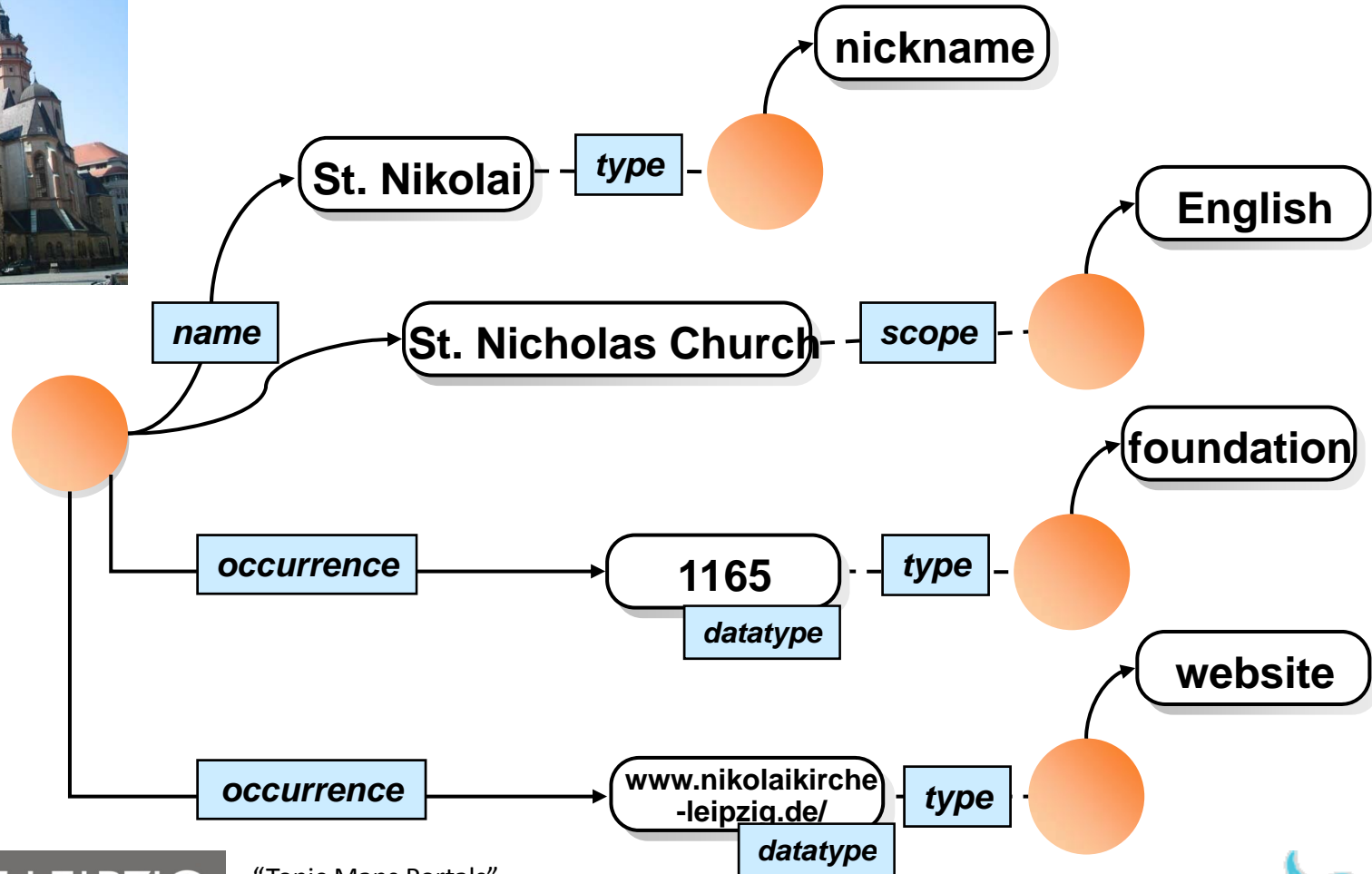


A Topic Maps primer



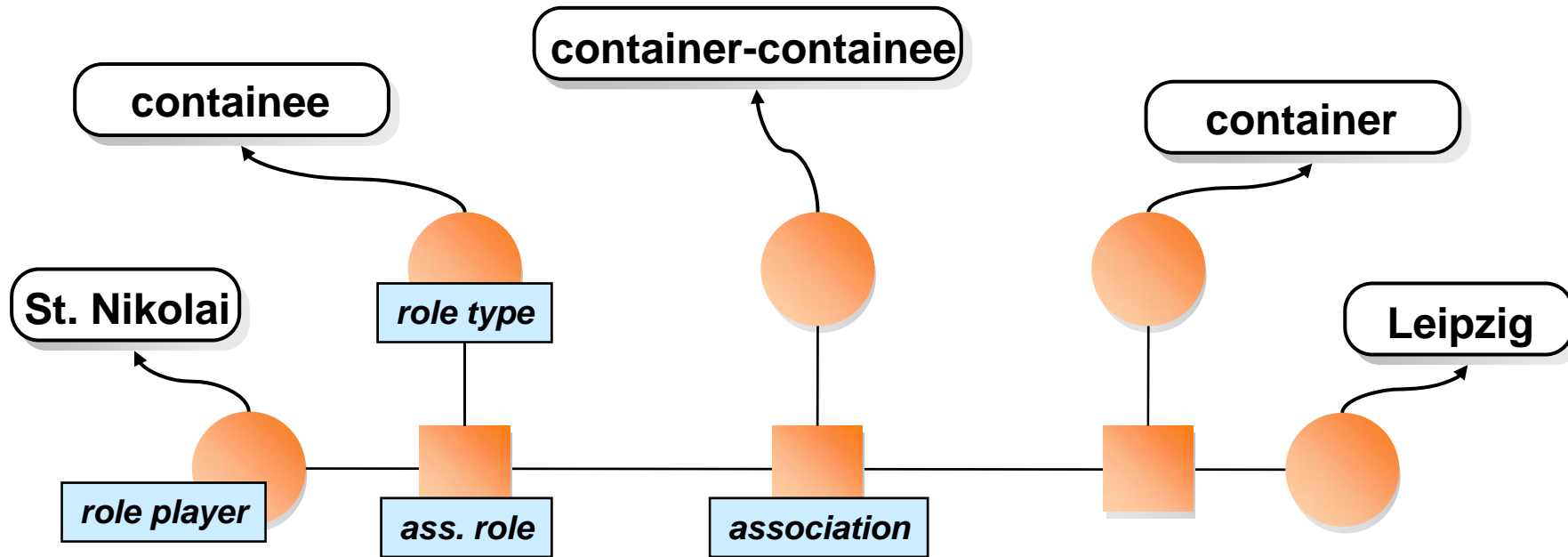


The data model of Topic Maps (ISO 13250)





Associations in Topic Maps



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"Topic Maps Portals"
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Data model of Topic Maps

- one topic represents one *subject* in a data source
 - **names** represent the names of the subject
 - **occurrences** represent properties of the subject
 - *link to “real world” information*
 - **associations** represent relationships between subjects
 - *flexibility through roles*
 - *n-ary associations*
 - all **types** and **scopes** are (set of) Topics
 - *in a topic map everything is a topic*





How a Topic Map drives a portal





 <p>INTRODUCTION</p>	 <p>CASE STUDIES</p>	 <p>COMMUNITY</p>
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Topic Maps Lab is hiring

We are looking for researchers and software developers with sound experiences in Topic Maps or other semantic technologies. The offices of the Topic Maps Lab venture are located in Leipzig, Germany.

News from the Topic Maps Lab

-  Christoph Teichmann joins Topic Maps Lab
2009-04-27, Lutz Maicher
-  The TMRA 2009 web site is up
2009-04-22, Lutz Maicher
-  Arnim Bleier joins the Topic Maps Lab
2009-04-21, Lutz Maicher

[more news ...](#)

RailsWayCon Register now!

We're going to RailsWayCon! Drop us a note if you want to meet us there!

[Log In](#) · [Jobs](#) · [Imprint](#)

The Topic Maps Lab is a working group of the Natural Language Processing chair at the University of Leipzig, Germany.



Stakeholders of the Topic Maps Lab



INTRODUCTION

Newbies

I want to learn more about Topic Maps in detail.



CASE STUDIES

Strangers

Oh, I can solve my problems with Topic Maps!



COMMUNITY

Experts

What happens in the community today?



Arnim Bleier joins the Topic Maps Lab
2009-04-21, Lutz Maicher

[more news ...](#)

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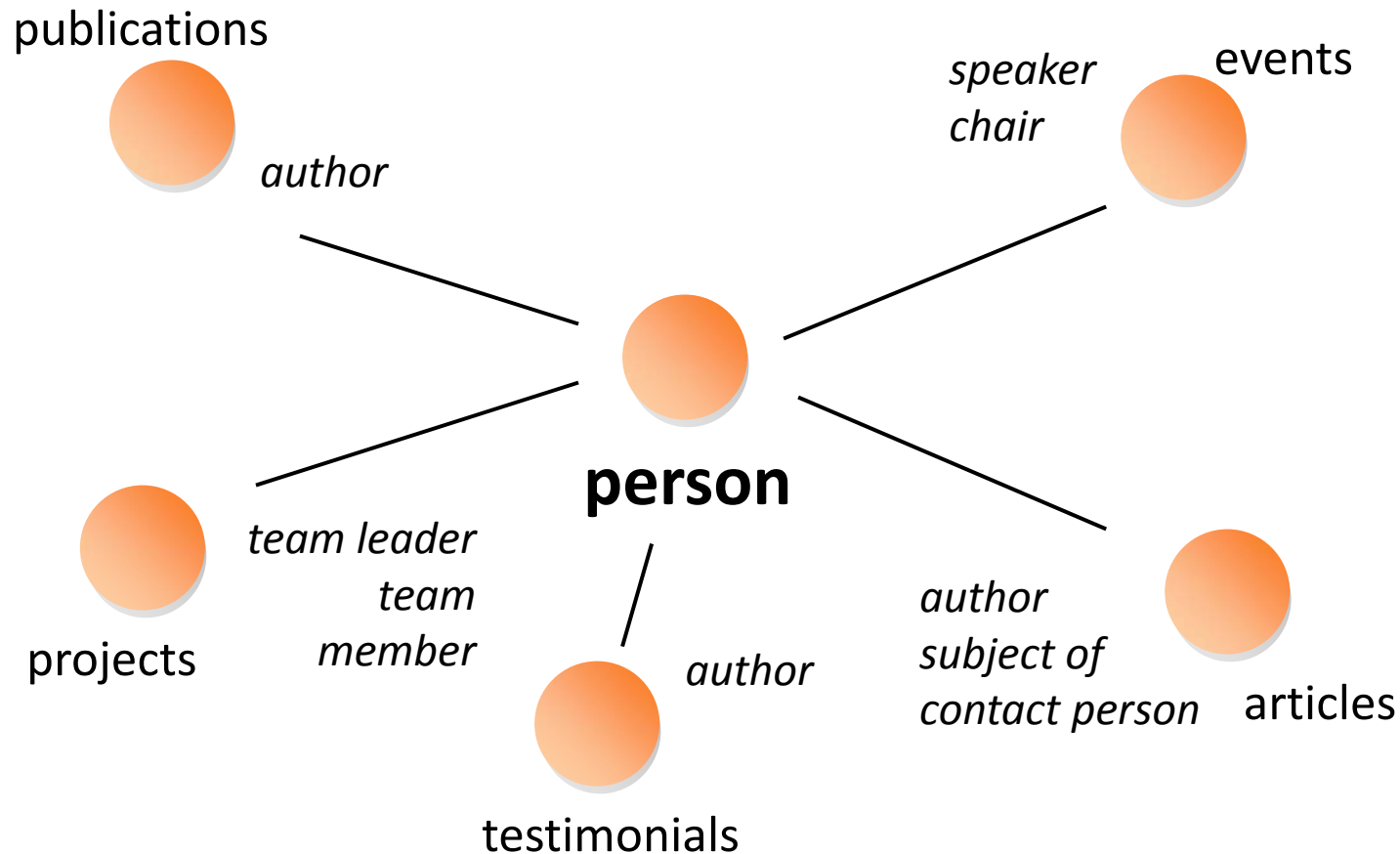
“Topic Maps Portals”
LSWT 2009, Leipzig, Dr. Lutz Maicher



<http://www.topicmapslab.de>



The data drives the Topic Maps Lab portal






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<http://www.informatik.uni-leipzig.de/~maicher/>

Address:
 Johannissgasse 26
 04103 Leipzig, Germany
 ([View Map](#))

Lutz works with Topic Maps since several years.

Author of

 <p>Subject-centric Computing Revised Selected Papers</p>	 <p>Distributed Knowledge ... In: Proceedings of I-KNOW'05</p>
 <p>Topic Maps Community Portal A new Topic Maps community portal, which based on Topic Maps ...</p>	 <p>Automatic Extraction of ... An argumentation trail between two terms is an ordered list of ...</p>

Contact of

 <p>Grafische Gestaltung von ...</p>	 <p>Softwareentwicklung ...</p>
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I like the easy but powerful way of merging Topic Maps to extend and combine existing knowledge bases. Thus I see high potential in distributed environments where peer to peer solutions may open the gates to the real Web 3.0.



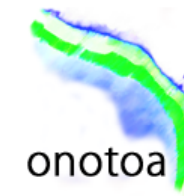
Marcel Hoyer
SharpTM



Fifth International Conference on **Topic Maps Research and Applications**

"Linked Topic Maps"
 11.-13. November 2009
 Leipzig, Germany
 Submission: 15 July 2009

Graduate from the Topic Maps Lab





Subjects in shape



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Address:

Johannsgasse 26

04103 Leipzig, Germany

[\(View Map\)](#)

Lutz works with Topic Maps since several years.

Authors



Lutz Maicher

Lutz works with Topic Maps since several years.

In Musica migrans we mapped the life courses of musicians in the 19th century. Topic Maps provides us the flexibility we need to model the diversity in the lives of the artists.



Lutz Maicher
Musica Migrans



Lutz Maicher

UNIVERSITÄT LEIPZIG
















Institut für Informatik
Automatische Sprachverarbeitung

“Topic Maps Portals”
LSWT 2009, Leipzig, Dr. Lutz Maicher



topicmapslab.de



 <p>Stian Danenbarger</p>	 <p>Thomas Schwotzer Since april 2008 Thomas Schwotzer is professor for applied ...</p>
 Jorgen Dalen	
 Kal Ahmed	
 Murray Altheim	
 Robert Amor	
 Elham Andaroodi	
 Frederic Andres	
 Hans-Knud Arndt	
 Atta Badii	
 Xuân Baldauf	
 Robert Barta	
 Frederik Baumgardt	
 Michel Biezunski	
 Jon Bing	

Topic Maps offered the semantic flexibility that I needed in Topincs, an application with an unlimited domain. It allowed me to make statements about any subjects. Exactly what I was looking for.



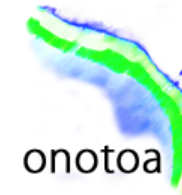
Robert Cerny
Topincs - a topic maps authoring ...



Fifth International Conference on **Topic Maps Research and Applications**

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Graduate from the Topic Maps Lab





Navigation is build in your data

- very flat menu structures
 - *mainly the topic types are menu entries*
- “embedded” navigation structure through typed shapes



Suche

- Startseite
- Über ASV
- Mitarbeiter
- Lehre
- Qualifizierungsarbeiten
- Projekte
- Veröffentlichungen
- Veranstaltungen
- Stellenangebote
- Kontakt
- Impressum

- Links**
- Universität Leipzig
 - Fakultät für Mathematik & Informatik
 - Institut für Informatik
 - Masterprogramm Medien Leipzig
 - ★ Topic Maps Lab

[Login](#)

53 Suchergebnisse für *Topic Maps*:



Topic Maps

Topic Maps ist ein internationaler Industriestandard (ISO 13250) zur semantischen Modellierung und Integration heterogener ...



Topic Maps Transformation Language (TSLT)

Status: offen
Betreuer: Dr. Lutz Maicher



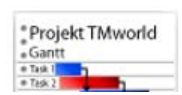
Topic-Maps-Middleware. Modellgetriebene Entwicklung kombinierbarer domänenspezifischer Topic-Maps-Komponenten

Autor: Benjamin Bock



TMRA 2007 - Scaling Topic Maps

Konferenz 10.10.2007 – 12.10.2007
Medien-campus Villa Ida, Leipzig, Deutschland



Topic Maps Lab - Phase 1





Examples of Topic Maps Portals





- Fakultet og institutt ved UiB
- Administrative enheter



- Sentraladministrasjonen
- Bergen Museum
- Universitetsbiblioteket

Ledige stillinger

Stillingsutlysninger fra Universitetet i Bergen: uib.no/stilling

På Høvden



Velkommen til UiB

Det er mange grunner til å studere ved Universitetet i Bergen: Vi har et spennende faglig tilbud med undervisning basert på god og ny forskning. UiB er et byuniversitet med svært godt studentmiljø hvor studentene setter preg på bybildet.

NYHET



Fornemmelse for mord

Et nytt dataverktøy og spesialbriller kan støtte kriminaletterforskere i å ta i bruk intuisjon. Prosjektet er et samarbeid mellom Kripas og UiB.

NYHET



Dypere enn lyset i Tromsø

KALENDER - DET SKJER!

I dag

- 00.00** Mange historier
- 10.00** Insektlaboratorium
- 08.30** Knut Hamsun 150 år
- 08.00** Lagring av forskningsdata
- 08.30** Forskerkurs: Medisin, makt og medikalisering
- 10.00** Fagsamling IT
- 14.00** Forskningsfront eller studentfabrikk - eller begge deler?
- 19.00** KVELDSÅPENT MUSEUM: Pollen - så lite så stort
- 19.30** Avslutningskonsert for Jostein Gundersens stipendperiode

29. april

- 09.00** Undervisningsdagen
- 12.00** Immunologiens dag 2009
- 12.15** Program møte med Språkfolk
- 12.15** Johan Lundin: WIKIs, mobiltelefoner og laptops - studenters digitalisering av sine lærmiljøer
- 13.15** Mobbing som forskingsfelt og politisk problem: Frå skulebøllar til mobbemanifest.
- 14.15** Vitenskapsteoretisk innlegg. Melanie Wrigglesworth
- 16.15** Prøveforelesning Silje Wangberg



Fag

Norsk

Matematikk

Engelsk

Naturfag

Samfunnsfag

RLE

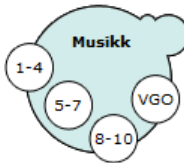
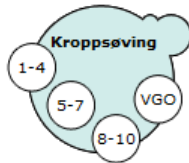
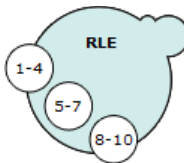
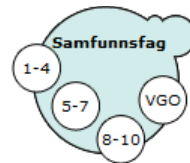
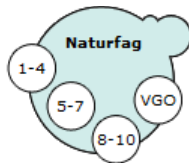
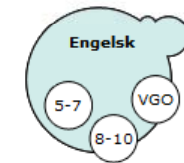
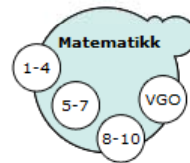
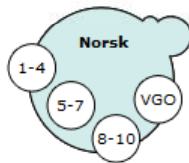
Kroppsøving

Mat og helse

Musikk

Kunst og håndverk

Flere fag



Flere fag

Ressurser

Spill og moro

Nyheter

Læreplaner

RSS - fra Skolenettet

Om Skolenettet



Læreplaner

GREP - Levende læreplaner

Gå til Læreplaner

Kompetanseutvikling

Etter- og videreutdanning for lærere

Gå til Kompetanseutvikling

Skoleavis

Gratis nettavis til alle skoler

Gå til Skoleavis

Statped

Statlig spesialpedagogisk støttesystem

Gå til Statped

Fag- og yrkesopplæring

Videregående opplæring

Gå til Fag- og yrkesopplæring

- Verre enn forventet

Homofile og bifile elever mobbes mye mer på skolen og på Internett og mobiltelefon enn heterofile elever. Verst er det for homofile gutter. Det viser en ny undersøkelse som er offentliggjort.

[Les hele saken >](#)



Nyheter fra Skolenettet

Temaområder

Inkluderende opplæring 20.08.08

Inkluderende opplæring er en tjeneste fra Skolenettet som gir informasjon om tilpasset og inkluderende opplæring i grunnskolen og videregående skole.

[Les hele saken >](#)



NORSK POLARHISTORIE

Hjem Persongalleri Tidslinje Kart Arktis Antarktis Ressurser Multimedia Artikler



Persongalleri

Les biografier om polarhelter, fangstmenn, forskere, ishavsskipperne m.fl.



Tidslinje

Sett sammen din egen tidslinje basert på tema, geografi etc.



Dokumentarserien

Nå sender NRK TV-serien som forteller historien om polar-nasjonen Norge. Dette er første gang noe slikt er samlet i en dokumentarserie.

Velkommen til polarhistorie.no

Det norske engasjementet i polarområdene er stort, og har vært det lenge. Som det eneste landet i verden har Norge landområder og territorialkrav både i Arktis og Antarktis. Derfor er polarhistorien også en viktig del av vår kulturarv.

polarhistorie.no gjør denne arven digitalt tilgjengelig og blir stadig utvidet med nytt stoff.
Les mer

Her finner du informasjon om:

- forskning
- ekspedisjoner
- polarpolitikk
- kulldrift
- og mye annet



Skolesiden

Last ned kunnskapsmål relatert til polarhistorie, faktaark og andre ressurser.



Bokserien



ABM
-utvikling

Statens senter for arkiv, bibliotek og museum

TROMS fylkeskommune
ROMSSA fylkessauhkan



Smakebit fra arkivet:

Johan P.K. Olsen

Ishavsskipper ("Veslekari") fra Ålesund, oppdaget torskebankene vest for Grønland. Ledet flere vitenskapelige og unnsetningsekspedisjoner til Svalbard og Grønland.

Les mer

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FØRSIDEN · AKTUELT · KONGEFAMILIEN · DAGENS MONARKI · HISTORIE · EIENDOMMER · DET KONGELIGE HØFF · KRONPRINSPARETS SIDER

SØK



OFFISIELT PROGRAM

28.04.2009 Velkomstsereoni

28.04.2009 Kransnedleggelse

28.04.2009 Kransnedleggelse

DETALJERT PROGRAM

AKTUELT

28.04.2009 Statsbesøk fra Canada

24.04.2009 Animasjonsfilm: Gammelt nytt

23.04.2009 Dignity Day på Bjørnholt skole

FLERE AKTUALITETER

HURTIGVALG >

SPRÅK: NORSK ENGLISH SÅMEGIELLA · NETTSTEDSKART · KONTAKT · "ÅPENT SLOTT"

WWW.KONGEHUSET.NO

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topicmapslab.de

20



Wilh. Wilhelmsen - shaping the maritime industry

We believe that empowered employees in an innovative, learning organisation are the group's main competitive advantage in meeting the needs and wants of our customers.

News and press releases

Presentation of results for the first quarter 2009

Wilh. Wilhelmsen ASA (WW) will present the results for the first quarter of 2009 for analysts, investors and media on Thursday 7 May 2008 at 08.00 CET in WW's offices at Strandveien 20, Lysaker.

Annual general meeting in Wilh. Wilhelmsen ASA 2009

The Annual General Meeting in Wilh. Wilhelmsen ASA will be held on Thursday 7 May 2009 at 11.00 at the Company's premises at Strandveien 20, NO-1366 Lysaker.

» More news



Our locations around the world

Use the map to select your country of choice





GOVERNMENT.NO

Information from the Government and the Ministries



Search all of government.no

 Search

Print a a a Listen to the text

The Big Issues: Binding climate policy

The Norwegian Government has stated that Norway shall be a leading nation in environmental policy. Norway will press for a more comprehensive and ambitious climate agreement to succeed the Kyoto Protocol. Norway will follow up its commitments and reduce emissions nationally as well as internationally.

[The Millennium Development Goals >](#)

"It is unacceptable that hundreds of civilians have been killed or wounded in the latest stages of the fighting in Sri Lanka. This could have been avoided," said the Norwegian Minister of the Environment and International Development, Mr. Erik Solheim.

Norway expects Sri Lanka and Tamil Tigers to avoid further civilian losses

(Ministry of Foreign Affairs, 21.04.2009)



NEWS



Climate for Research

The new White paper on research "Climate for Research", the government emphasises that public research spending will continue to increase. Furthermore, Norwegian research policy will be defined by nine research policy goals. The Government emphasizes that research should contribute to meet societal and global challenges like climate change. (Ministry of Education and Research, 24.04.2009)



Norway critical to the EU's proposed ban on trade in seal products

The EU is close to adopting a trade ban on seal products that may be incompatible with international trade rules. The European Parliament will vote on the proposed trade ban during the plenary session in Strasbourg from 4 to 7 May. Norwegian Foreign Minister

What's new

News
Calendar
Speeches and articles

Webcast

Documents

Acts and regulations
Circular
Official Norwegian Reports
Reports and plans
Guidelines and brochures

Document Archive

Topics

Business and industry
Civil protection and defence
Consumers
Culture, leisure and belief systems
Education and research
Energy
Equality
Families and upbringing
Food, fisheries and agriculture
Health and care
Housing and property
Immigration and social inclusion
Indigenous peoples and minorities
International relations
Labour and welfare





FRA
BLÅBLOGGENE:

[st nøkkelen](#)

28.04.09 [Likelønn vs kompetanse](#)

28.04.09 [Når partipisken kommer...](#)

28.04.09 [Cvanid til alle](#)

28.04.09 [Nina Karin Mon](#)

SAKENE

ØKONOMI

KRIM

UTDANNING

SAMFERDSEL

HELSE



Per-Kristian Foss
kommenterer
Aker-saken



Vi har 500 milliarder å
bruke



Høyre vil senke
skattene for
næringslivet

MENNESKENE

STATSMINISTERKANDIDATEN

LOKALE KANDIDATER



ERNA SOLBERG

Erna kommenterer samrøret
mellom Arbeiderpartiet og Kjell
Inge Røkke i [sin blogg](#).

› [Mer om Erna](#)

NYTT FRA KULTURLIVET

[28.04] Pissoir vart freda
28. april markerar Riksantikvaren freding av pissoiret i Stensparken i Oslo.

[28.04] Robuste bibliotek
Ein bibliotekreform tyder omstilling, ikkje berre opprusting seier Tone Moseid, avdelingsdirektør i ABM-utvikling.

[28.04] Fotograf i særklasse
Joyce Tenneson er blant verdas mest betydningsfulle fotografar. Denne veka er ho i Noreg.

[28.04] Bluesgeneral er død
NRKs profilerte programleiar Geir Hovig er død, 64 år gammal.

KULTURNETT.NO PRESENTERER



Nettutstilling om Gurianna Husby

Utstillingen bygges omkring ei stue som Ørland kommunes fattigstyre satte opp i 1914 til Gurianna Husby. Med denne utstillingen ønsker Yrjar Heimbygdslag å berøre et vanskelig tema, nemlig fattigfolks kår på Ørland omkring århundreskiftet. Foto: Ole Petter Røstad. Eier: Anny Jensen.

Substans 09

Substans 09 er Masterutstillingen for Avdeling for design ved Kunsthøgskolen i Bergen, men det er også et seminar og DesignJam fra 30. april - 10. mai ved Vestlandske Kunstindustrimuseum.



Månedens forfatter

Markus Midré skriver for kulturnett.no i april 2009. Månedens forfatter velges ut i samarbeid med Norsk Forfattersentrum. Les hans Tre dikt, skrevet for Kulturnett. Foto: Egil Haraldsen

SØK I KULTURNETT.NO

TEMAGUIDEN

INSTITUSJONGUIDEN

KUNSTNERREGISTERET

KULTURKALENDEREN

ARTIKLER

KUNSTVERK

KULTURNETT ANBEFALER

KULTUR PÅ KART

NETTUTSTILLINGER

SPILL OG QUIZ

SØKNADSMIDLER

REGIONALE KULTURNETT

Gå til regionalt kulturnett

Kulturnett.no er Kultur- og kirkedepartementets nettportal til norsk kulturliv.

Kontakt kulturnett.no:
redaksjon@kulturnett.no



KULTUR- OG KIRKEDEPARTEMENTET

TEMAGUIDEN



DAGEN I DAG

28. april 1947:
Kon Tiki-ekspedisjonen ledet av Thor Heyerdahl la ut fra Peru. Etter å ha drevet 8000 km over Stillehavet kom de fram til Tuamotu i fransk Polynesia 7. august.

KULTURARRANGEMENT

[22 arrangement i Kulturkalenderen i dag]

[28.04] Den Norske Dokumentarfilmfestivalen
Volda

[28.04] Bergenfest

SIST OPPDATERT I INSTITUSJONGUIDEN

[3801 kulturinstitusjoner kulturinstitusjoner]

27.04 Dyrøy folkebibliotek (i Dyrøy kommune)

27.04 Ole Ottasastua (i

SIST OPPDATERT I KUNSTNERREGISTRET

[11020 kunstnarar, band og utevargrupper vargrupper]

28.04 Jeanette Eek Jensen (Bildekunstner)

28.04 Line Schjølberg (Bildekunstner)

SIST OPPDATERTE NETTRESSURSER

[3297 nettressurser]

28.04 Substans 09 (Nettutstilling)

28.04 Samtidsnett - Samtidshistorie og museer

FILMMAKER INTERVIEWS

Indiepix blog

INDIE PICKS

NEW RELEASES

in the news...

"A must have film if you are a fan of baseball!"
- Dan Roche, CBS

ROAD TO THE BIG LEAGUES
RUMBO A LAS GRANDES LIGAS

FEATURING MLB ALL-STARS
VLADIMIR GUERRERO
AND DAVID ORTIZ

NOW ON DVD



new releases

collections

download-to-own

from our catalog

discovery

IndiePix consistently brings you the newest and hottest independent films.



Glass: A Portrait of Philip in Twelve Parts
\$21.95 | 119 min



Betty La Flaca - Download
\$7.95 | 8 min



Black Sun - Download
\$14.95 | 70 min



High Score
\$19.95 | 52 min

INDIEPIX | BLOG

- **P-Star and Entre Nos at the Tribeca Film Festival**
So what happens after you premier two great films one day after the other at a high profile event like the Tribeca Film Festival? If you guessed "going home to catch up on sleep" that would... more
- **A DREAM takes over Philly**
As one walks through the streets of Philadelphia, he or she can't help but notice the stunning and original mosaic murals peppering the city walls, particularly around the traditionally... more
- **What's it really like, becoming a rap-star in New York City?**
from Gabriel Noble, Director and ...



You are here: Home \ All tags \ Topic Maps Portal or Online Application

Tag

Topic Maps Portal or Online Application

Links to real life Topic Maps Portals or Online Applications, like fuzzy.com

Created by [Lutz](#) at 15. februar 2007

[XML](#)

- Related tags (3)
 - [Topic Maps](#)
 - [Fuzzy](#)
 - [Topic Maps application](#)
- Experts on this tag (0)
- Members having this as a favorite (1)
 - [larsga](#)
- Comments (0)


Resources tagged with this


Bookmarks 48 Books 0 Audio 0 Video 0 Feeds 0 Events 0 Locations 0 [Create](#)


Style: * Level of detail: * Location Relevance: *


Items: 10 Sort by: Last added Recommended by: * Language: *


Added after date: * * * Added before date: * * *

- 

University of Bergen
 ★★★★★
 Common portal for the University of Bergen, which has ~15,000 students.
 Tagged with: [ZTM](#) , [Topic Maps Portal or Online Application](#)
 Added by [larsga](#) at 20. mars 2009
- 

visitnorway.com
 ★★★★★
 Official website of the Norwegian Tourist Board (Innovation Norway). Comprehensive information about nature, destinations, cities, accommodation, hol...
 Tagged with: [Topic Maps Portal or Online Application](#)
 Added by [larsga](#) at 20. mars 2009
- 

Topic Maps case examples
 ★★★★★
 A Topic Maps-driven web site listing Topic Maps presentations.
 Tagged with: [Topic Maps Portal or Online Application](#) , [OKS](#)
 Added by [larsga](#) at 1. desember 2008
- 

Topic Maps software and tools
 ★★★★★
 An index of Topic Maps software.
 Tagged with: [Topic Maps Portal or Online Application](#) , [OKS](#) , [lars marius](#)
 Added by [larsga](#) at 29. oktober 2008
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Topincs.com
 ★★★★★
 A community-driven Topic Maps portal about Topic Maps





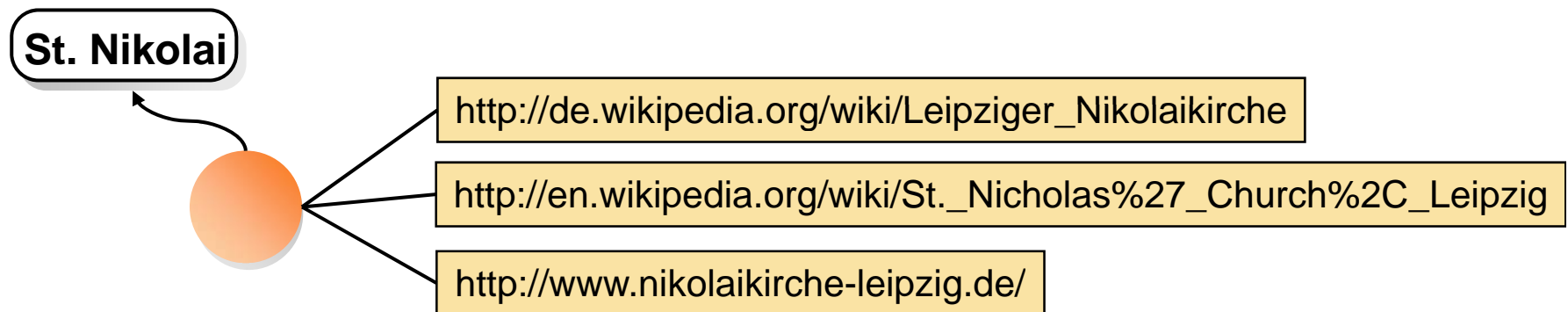
Merging – the integration model of Topic Maps





Integration model of Topic Maps

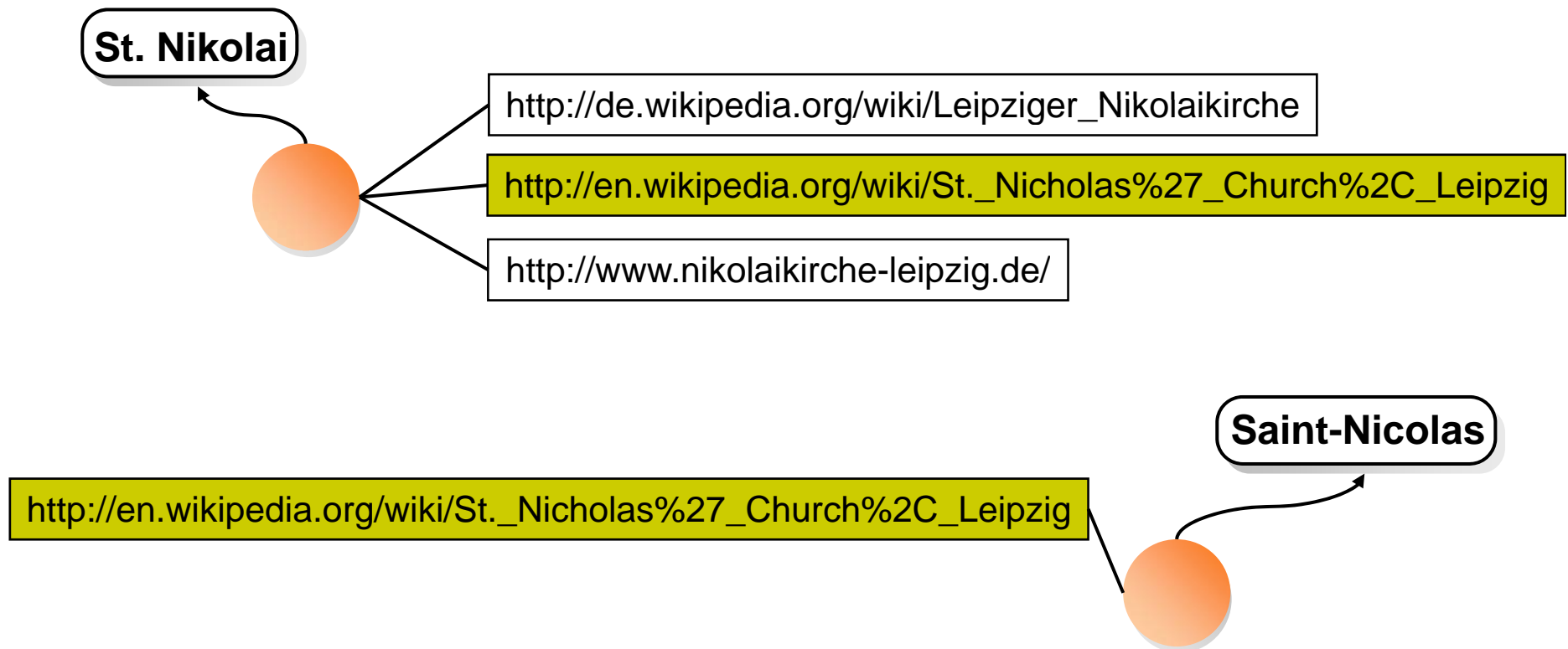
The identity of a topic is defined by a set of **Subject Identifiers** ...





Integration model of Topic Maps

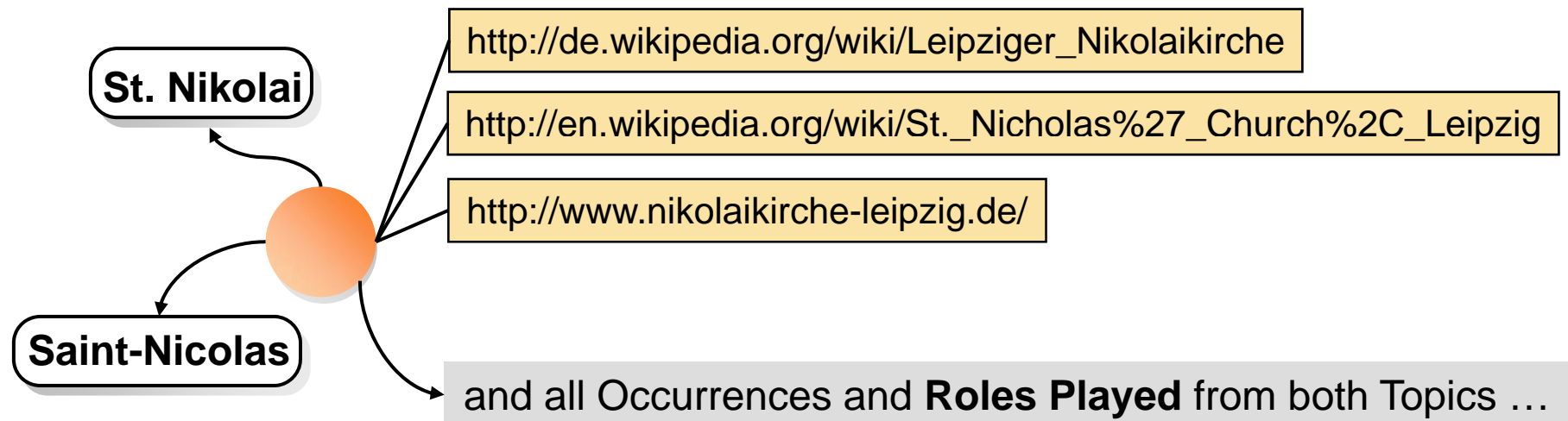
... whenever two topics in one topic map use the **same** subject identifier, they will be *merged*.





Integration model of Topic Maps

- Merging of Topics: a new topic replaces the old ones and provides all information of them as unified access hub
 - *all* subject identifiers
 - *all* names
 - *all* occurrences
 - *all* association roles, the topic is playing in



[Omnigator] Japan - Opera

File Edit View Navigation Bookmarks Mail Chat Tools Window Help

http://169.254.96.75:8080/omnigato Google search 100%

omnigator 007 @pepper

The Seamless Knowledge Navigator from **Ontopia**. Powered by the **Ontopia Knowledge Suite**.

Welcome | Opera TM | Manage | Customise | Export | Merge | Query | Reload | | No schema

Japan Type(s): Country

Names (3)

- **Japan**
- **JA** - Scope: *Data code*
- **Japan** - Scope: *Conventional short form*

Associations (9)

- **Contains**
 - Nagasaki
- **Defines standards for**
 - Japanese Industrial Standards Committee
- **has national religion**
 - observe both Shinto and Buddhist
 - other
- **has natural resource**
 - fish
 - negligible mineral resources
- **Setting for**
 - Iris

Subject Identifiers (1)

- <http://www.topicmaps.org/xtm/1.0/country.xtm#JP>

Containment Hierarchy

- Japan
 - ...

External Occurrences (4)

- **Flag**
 - <http://www.cia.gov/cia/publications/factbook/flags/ja-flag.jpg>
- **Main page**
 - <http://www.cia.gov/cia/publications/factbook/geos/ja.html>
- **Map reference**
 - <http://www.cia.gov/cia/publications/factbook/maps/ja-map.jpg>
- **Site about**
 - <http://www.csse.monash.edu.au/~jwb/japanese.html>



How to get started with my own Topic Maps portal?





Simply choose your Topic Maps portal software ...

- RTM in Ruby
 - <http://rtm.rubyforge.org/>
- ZTM with Zope
 - <http://sourceforge.net/projects/ztm/>
 - <http://www.lutzmaicher.de/2009/3/18/ztm-tutorial-in-oslo>
- OKS (soon: Ontopia)
 - <http://www.ontopia.net/>
- QuaaxTM in PHP
 - <http://quaaxtm.sourceforge.net/>





Lessons Learned





Lessons learned

- The world is interlinked,
and my data and portals will simply follow.
- I can semantically integrate my data by *subject*.
- I can simply start.





Join TMRA 2009 (from 11.11.2009 to 13.11.2009)

- Fifth International Conference on Topic Maps Research and Applications
 - Nov. 11, 2009 – tutorials day
 - Nov. 12 and Nov. 13, 2009 – conference days
 - Medien-campus Villa Ida, Leipzig, Germany
- Website will be published soon (<http://www.tmra.de>)



TMRA

UNIVERSITÄT LEIPZIG

Institut für Informatik
Automatische Sprachverarbeitung

“Topic Maps Portals”
LSWT 2009, Leipzig, Dr. Lutz Maicher



topicmapslab.de

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