REDIS cheatsheet [u1.0]

starting the server	cd redis; ./redis-server
running the client	./redis-cli <command/>

commands

exists key	Test if specified key exists. Return: 1 if exists, 0 if not
del key1 key2 keyN	Remove the specified keys. Return: integer > 0 if keys removed, 0 if none of the keys existed
type key	Return the type of the value stored at key, as a string. Return: "none", "string", "list", "set"
keys pattern	Return all keys matching pattern. Ex: keys h*llo, keys h?llo, keys h[aeo]llo Return: bulk reply string with keys separated by spaces
randomkey	Return a randomly-selected key from the current database. Return: the selected key, or empty string if database is empty
rename oldkey newkey	Atomically renames key. Note: If newkey exists it is overwritten. Return: 1 if OK, 0 if <i>oldkey</i> doesn't exist or if it equals <i>newkey</i>
renamenx oldkey newkey	Atomically renames key, fails if newkey exists. Return: 1 if OK, 0 if newkey exists, if oldkey doesn't exist or if it equals newkey
dbsize	Returns the number of keys in the current database. Return: integer, the number of keys
expire key seconds expireat key unixtime	Sets timeout on the specified key. Return: 1 if timeout set, 0 if key already has a timeout or doesn't exist
ttl key	Returns remaining time to live, in seconds, for a key with EXPIRE set. Return: integer number of seconds, or -1 if key doesn't exist or has no expiration
select db-index	Selects a database by index (zero-based). Default database is 0. Return: 1 if OK, 0 if error
move key db-index	Moves a key from current database to specified database. Return: 1 if OK, 0 if key doesn't exist or is already present in the target database
flushdb	Deletes all keys in the currently-selected database. Return: 1 this command never fails
flushall	Deletes all keys in all existing databases. Return: 1 this command never fails

set key value setnx key value	Sets the value of key to the string value; setnx will not overwrite an existing value. Return: 1 if OK, 0 if error
get key	Gets the value of key. Return: string value if OK, "nil" if key does not exist
getset key value	Atomically sets the value of key to the string value and returns old value of key. Return: value of key prior to the new value being set ("nil" if key did not exist)
mget key1 key2 keyN	Gets the values of all specified keys. Return: multi-bulk reply of all values, with "nil" for any keys that do not exist
mset key1 value1 keyN valueN msetnx key1 value1 keyN valueN	Sets the values of the keys to the string values; msetnx will not overwrite existing values if any key exists. Return: 1 if all keys were set, 0 if none were set
incr key decr key	Increments/decrements value of key by 1. Return: New value after increment/decrement operation
incrby key integer decrby key integer	Increments/decrements value of key by the integer value specified. Return: New value after increment/decrement operation

commands for strings

generic commands for all types

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	rpush key string lpush key string	Adds the string to the head (rpush) or tail (lpush) of the list at key. Return: 1 if exists, 0 if key exists but is not a list
	llen key	Returns the length of the list at key. Return: integer length, or error if key is not a list
10	lrange key start end	Returns the elements of list at key, zero-based. Negative numbers are offset from the end of the list. Return: requested elements or empty list if no match
commands operating on lists	ltrim key start end	Trims list at key to contain only the specified elements. Return: 1 if OK, error if key is not a list
	lindex key index	Returns the element at the specified index of the list key. Return: the requested item; empty string if no such element; error if key isn't a list
	lset key index value	Sets the element of list key at <i>index</i> to the specified value. Return: 1 if OK, error if index out of range or key isn't a list
отта	lrem key count value	Removes count number of items from the list that have the specified value. Count 0 will remove all; negative count starts from the end. Return: # items removed
٥	<pre>lpop key string rpop key string</pre>	Atomically removes and returns the first (lpop) or last (rpop) element from list key. Return: the element, or "nil" if empty/nonexistent list; error if key isn't a list
	blpop key1keyN timeout brpop key1keyN timeout	Blocking pop, returns when a specified list contains an element. Return: key and popped value, or "nil" if operation times out
	rpoplpush srckey destkey	Atomically returns last element from srckey and pushes as first element to destkey. Return: element popped/pushed, or "nil" if srckey empty or nonexistent
	sadd key member	Adds member to the set stored at key. Return: 1 if OK, 0 if element was already a set member; error if key isn't a set
	srem key member	Removes member from set key. Return: 1 if OK, 0 element not a set member; error if key isn't a set
(0)	<pre>spop key srandmember key</pre>	Returns random element from set key. spop will remove the element. Return: element, or nil object if key is empty or doesn't exist
on set	smove srckey dstkey member	Atomically moves member from set srckey to set dstkey. Return: 1 if OK, 0 if element not found in srckey; error if either key isn't a set
erating	scard key	Returns the number of elements in set <i>key</i> . Return: integer number of elements; 0 if empty or <i>key</i> doesn't exist
ommands operating on sets	sismember key member	Return whether <i>member</i> is in set key. Return: 1 if element is a member, 0 if not or if key doesn't exist
omma	sinter key1 key2keyN sinterstore dstkey key1keyN	Returns the members resulting from intersection of sets specified. sinterstore will store results in new set and return status code.

SORT key [by pattern] [limit start count] [get pattern] [asc|desc] [alpha] [store dstkey]

Return: the members

results in new set and return status code.

sunion key1 key2...keyN

sunionstore dstkey key1...keyN

sdiff key1 key2...keyN
sdiffstore dstkey key1...keyN

smembers key

Returns the members resulting from union of sets specified. sunionstore will store

Returns the members resulting from the difference between the first set and the

rest. sdiffstore will store results in new set and return status code.

Returns all of the members of set key. This is sinter, for only one set.

Sorts the elements in the list, set, or sorted set at key. Default sort is numeric, ascending. Specifying asc or desc will sort in ascending or descending order. Specifying alpha will sort alphabetically. limit will return count number of elements beginning at offset start (zero-based). store will put the results of the sort into a list with key dstkey.

Specifying "by pattern" will sort using the values at keys generated using the pattern. For example, if the list/set being sorted contains the values 1, 2, 3 then "sort by weight_*" will sort using the values at keys "weight_1", "weight_2", "weight_3".

Specifying "get pattern" will retrieve the values stored at keys generated using the pattern. For example, "get items_*" will return the values at keys items_1, items_2, items_3 if the list/set being sorted contains the values 1, 2, 3.

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	zadd key score member	Adds member to zset key, with specified score. Return: 1 if added, 0 if element was already a member and score was updated
sets	zrem key member	Removes member from zset key. Return: 1 if removed, 0 if element was not a member
sorted	zincrby key incr member	Increments score of member by incr and updates element's position in zset. Return: integer, the new score of member after the increment
8	zrange key start end zrevrange key start end	Returns elements in zset key within the specified index range, sorted in order (or reverse with zrevrange). Option: "withscores" will also return scores.
operating	<pre>zrangebyscore key min max [limit offset count]</pre>	Returns elements in zset key with scores within the specified range. Option: "withscores" will also return scores.
commands	zremrangebyscore key min max	Removes elements from zset key with scores between <i>min</i> and <i>max</i> . Return: integer, number of elements removed
СОШГ	zcard key	Returns the number of elements in the zset key. Return: integer, the number of elements; returns 0 if key doesn't exist
	zscore key element	Returns the score of the specified element in zset key. Return: the score, as a string; or "nil" if key or element don't exist

save	Saves all databases to disk. Connection requests will not be served during the save. Returns OK when complete.
bgsave	Saves all databases to disk in the background. Redis forks and writes so the parent process continues to process connection requests.
lastsave	Returns integer unix time of last successful save. This can be used following a bgsave to check if it was successful.
bgrewriteaof	Rewrites the Append Only File in the background.
shutdown	Stops all clients, saves databases, and quits.
info	Returns information and statistics about the server.
monitor	Used to enter commands for debugging. Telnet to redis server then enter monitor command. Enter quit to end the session.
slaveof host port slaveof no one	Makes server the replication slave of the redis server at host/port. The "no one" form turns off replication, making the server a master.
quit	Tells server to close the connection immediately.
auth password	Authorizes client using the provided password, if redis server is configured with requirepass. Returns OK or error if password is incorrect.

redis site: http://code.google.com/p/redis/

persistence and control commands

mailing list: http://groups.google.com/group/redis-db