REDIS cheatsheet [u2.0]

starting the server	cd redis; ./redis-server
running the client	./redis-cli <command/>
running the chem	(or with no command, to enter interactive mode)

	commands	
	exists key	Test if specified key exists. Return: 1 if exists, 0 if not
sadñ	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
generic commands for all types	randomkey	Return a randomly-selected key from the current database. Return: the selected key, or empty string if database is empty
nands	rename oldkey newkey renamenx oldkey newkey	Atomically renames key. renamenx fails if newkey exists and returns 0. Return: 1 if OK, 0 if <i>oldkey</i> doesn't exist or if it equals newkey
c comr	dbsize	Returns the number of keys in the current database. Return: integer, the number of keys
generi	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
П	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
П	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
	set key value	Sets the value of key to the string value; setnx will not overwrite an existing value.
	setnx key value	Return: 1 if OK, 0 if error
П	get key	Gets the value of key. Return: string value if OK, "nil" if key does not exist
nands for strings	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)
nds for	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
commar	mset keyl valuel keyN valueN msetnx keyl valuel 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
٥	incr key decr key	Increments/decrements value of key by 1. Return: New value after increment/decrement operation
	<pre>incrby key integer decrby key integer</pre>	Increments/decrements value of key by the integer value specified. Return: New value after increment/decrement operation
	deciby key integer	retain. New value arter interement decirement operation
ctions	multi <command1></command1>	Performs set of commands within a transaction, in a single step. Either all or none of the commands will be processed. exec will cause the commands to be processed; discard will abandon all of the commands.
transactions	<pre>ccommandn> exec or discard</pre>	Return: exec returns multi bulk reply with the return value of each command discard returns OK

$\overline{}$	REDIS cheatsheet	page 2
	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
commands operating on lists	llen key	Returns the length of the list at key. Return: integer length, or error if key is not a list
	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
	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
ado spo	lset key index value	Sets the element of list key at index to the specified value. Return: 1 if OK, error if index out of range or key isn't a list
ошшаг	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
۵	<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
		Adds member to the set stored at key.
	sadd key member	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
S	<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
commands operating on sets	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
	sismember key member	Return whether <i>member</i> is in set <i>key</i> . Return: 1 if element is a member, 0 if not or if <i>key</i> doesn't exist
	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.
	sunion key1 key2keyN sunionstore dstkey key1keyN	Returns the members resulting from union of sets specified. sunionstore will store results in new set and return status code.
	sdiff key1 key2keyN sdiffstore dstkey key1keyN	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.

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

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.

Return: the members

smembers key

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.

REDIS cheatsheet page 3

commands operating on sorted sets

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
zrem key member	Removes member from zset key. Return: 1 if removed, 0 if element was not a member
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
zrank key member zrevrank key member	Returns the rank of the member in the sorted set, zero-based; returns nil if member doesn't exist. zrevrank returns the rank in high-to-low order.
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.
<pre>zrangebyscore key min max [limit offset count] [withscores]</pre>	Returns elements in zset key with scores within the specified range. Option "withscores" will also return scores with the elements.
zremrangebyrank key start end	Removes elements from zset key with rank between start and end. Negative numbers will start from the end. Return: integer, number of elements removed
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
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
<pre>zunion/zinter dstkey N</pre>	Creates union or intersection of N sorted sets named by keys k1kN, and stores it in key dstkey. The number of input keys, N, must be specified. The weights option will multiply the scores by the provided weights. The aggregate option changes how the scores are aggregated into the new set. Returns the number of elements in the new set at dstkey.

zsets available in redis 1.1 and later. zrank, zrevrank, zrangebyscore [withscores], zremrangebyrank in redis 1.3.4. zunion/zinter in redis 1.3.5.

hset key field value hsetnx key field value	Sets hash field to the value. Will create a new hash if key does not exist. hsetnx will do nothing if field already exists. Return: 1 if new field was created, 0 if existing field was updated or already exists	
hget key field	Returns value of field stored in hash key. Return: value of field, or nil if field or key do not exist	
hmset key field1 value1 fieldN valueN	Sets fields to the values provided, replacing existing values if any. Creates new hash if none exists at key.	
hincrby key field value	Increments value in field. Negative values will decrement. If field does not exist or holds a string, will reset to zero first. Return: the new value of field	
hexists key field	Returns 1 if field exists in hash at key. Returns 0 if key or field don't exist.	
hdel key field	Removes field from hash stored at key. Return: 1 if field removed, 0 if field was not present	
hlen key	Returns the number of fields in hash stored at key, or 0 if key does not exist.	
hkeys key hvals key	Returns the keys or values of the hash stored at key.	
hgetall key	Returns the keys and values of the hash stored at key, as a multi bulk reply in the form field1, value1,, fieldN, valueN.	
hash commands available in redis 1.3.10.		

REDIS cheatsheet page 4

	<pre>subscribe channel1</pre>	Subscribes the client to the specified channels.
spu	<pre>psubscribe pattern1 patternN</pre>	Subscribes the client to any channels matching the specified patterns.
se commands	unsubscribe [channel1 channelN]	Unsubscribes the client from the specified channels, or from all channels if no channels are specified. Returns a message for each unsubscribed channel, and the number of channels still subscribed to.
subscribe /	<pre>punsubscribe [pattern1 patternN]</pre>	Unsubscribes the client from channels matching the specified patterns, or from all channels if no patterns are specified. Returns a message for each unsubscribed channel, and the number of channels still subscribed to.
5		Condo a massage that will be received by all clients subscribed to the energified
publist	<pre>publish channel message</pre>	Sends a message that will be received by all clients subscribed to the specified channel. Returns the number of clients that received the message.
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When a message is received by a client, the message type will be message or pmessage to indicate how the client is subscribed to the originating channel. If pmessage, the pattern matched will be provided. For both, the originating channel and the message are then provided.

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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 view 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.
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

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

persistence and control commands

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