# Redis

https://redis.io/topics/data-types-intro

Redis Strings：

> set mykey somevalue

OK

> get mykey

"somevalue"

For example, I may ask [SET](https://redis.io/commands/set) to fail if the key already exists, or the opposite, that it only succeed if the key already exists:

> set mykey newval nx

(nil)

> set mykey newval xx

OK

## Redis线程安全，所以多线程incr、decr永远不会出错

Expire:

> set key some-value

OK

> expire key 5

(integer) 1

> get key (immediately)

"some-value"

> get key (after some time)

(nil)

## Redis Lists - 基于linkedlist

Lpop/rpop/lpush/rpush

Blpop/brpop - blocking list阻塞list，注意blpop/brpop需要设置等待时间，如果超时则直接返回

## Redis Hashes- 普片用于存储对象

> hmset user:1000 username antirez birthyear 1977 verified 1

OK

> hget user:1000 username

"antirez"

> hget user:1000 birthyear

"1977"

> hgetall user:1000

1) "username"

2) "antirez"

3) "birthyear"

4) "1977"

5) "verified"

6) "1"

## Redis Sets

Sadd/smembers

## Redis Sorted sets

> zadd hackers 1940 "Alan Kay"

(integer) 1

> zadd hackers 1957 "Sophie Wilson"

(integer) 1

> zadd hackers 1953 "Richard Stallman"

(integer) 1

> zadd hackers 1949 "Anita Borg"

(integer) 1

> zadd hackers 1965 "Yukihiro Matsumoto"

(integer) 1

> zadd hackers 1914 "Hedy Lamarr"

(integer) 1

> zadd hackers 1916 "Claude Shannon"

(integer) 1

> zadd hackers 1969 "Linus Torvalds"

(integer) 1

> zadd hackers 1912 "Alan Turing"

(integer) 1

> zrange hackers 0 -1

1) "Alan Turing"

2) "Hedy Lamarr"

3) "Claude Shannon"

4) "Alan Kay"

5) "Anita Borg"

6) "Richard Stallman"

7) "Sophie Wilson"

8) "Yukihiro Matsumoto"

9) "Linus Torvalds"

> zrevrange hackers 0 -1

1) "Linus Torvalds"

2) "Yukihiro Matsumoto"

3) "Sophie Wilson"

4) "Richard Stallman"

5) "Anita Borg"

6) "Alan Kay"

7) "Claude Shannon"

8) "Hedy Lamarr"

9) "Alan Turing"