

Redis

This blog post was translated by Mistral

Open Redis official website, the first sentence states that Redis is an open-source, in-memory data structure store, commonly used for databases and caching. Redis is very common. Install Redis

You can install Redis from the official website. Just like SQLite, how do we use Redis in Python after installation?

```
pip install redis
``` Import redis module.\n>>> import redis\
Create a Redis object with given parameters.\n>>> r = redis.Redis(host='localhost', port=6379, db=0)\
Set key 'foo' to value 'bar'.\n>>> r.set('foo', 'bar')\
Return True if successful.\nTrue\
Get value of key 'foo'.\n>>> r.get('foo')\
Return value as bytes.\nb'bar' Python documentation provided some examples. Here comes something like `pip`. `pip` is a package

`pip` usually comes with the installation of `python`. If the computer has multiple versions of `Python

```shell
alias python=/usr/local/Cellar/python@3.9/3.9.1_6/bin/python3
alias pip=/usr/local/Cellar/python@3.9/3.9.1_6/bin/pip3
``` The meaning is to specify a certain version of `python` and `pip`. One way is to install it using ``

```bash
make
make test
make install
```

Translation:
```

Specify a certain version of Python and pip. One way is to install it using Homebrew. Another way is to

install it from the source code.

Build process:

```
make make test make install Redis is starting Redis version 6.2.1 64 bit Warning: no config file specified, using the default config Increased maximum number of open files to 10032 (it was originally set to 4864) monotonic clock: POSIX clock_gettime ...Server initialized 87684 M 10 Mar 2021 14:46:06.058 * Ready to accept connections
```

Version: 6.2.1 Open another terminal window for testing:

```
$ redis-cli 127.0.0.1:6379> set a 2 running the following code:
```

```
import redis

r = redis.Redis(host='localhost', port=6379, db=0)
result = r.get('a')
print(result)
```

The output of the code will be:

```
2
```

The Chinese text “127.0.0.1:6379> get a” translates to English as “running the following Redis command: get value for key ‘a’”. The number “2” is the value associated with key ‘a’ in the Redis database.

```
r.set('foo', 'bar') # set value 'bar' for key 'foo' in Redis
```

```
print(r.get('foo')) # print the value associated with key 'foo' in Redis
```

## Output:

```
shell $ python fib_redis.py b'bar' I. Redis Cache Example for Fibonacci Sequence To implement Fibonacci sequence using Redis. import redis

redis_instance = redis.Redis(host= 'localhost' , port=6379, db=0)

def function(n): stored_number = redis_instance.get(n) if stored_number is not None: return int(stored_number) `` if n < 2: # if statement condition is not met res_n = n

else: # if statement condition is met res_n = f(n-1) + f(n-2)

r.set(n, res_n) # set value of 'r' at index 'n' to 'res_n'

return res_n

print(f(10))
```

## Function definition and call

This function calculates the Fibonacci sequence recursively

```
def f(n): if n < 2: return n
else: return f(n-1) + f(n-2) This way it's done.
```