jupyter魔法命令

%run

In [1]:
```
%run /Users/tiramisu/Desktop/test.py
```

```
hello python!
```

%load

In [2]:
```
# %load test.py
print('hello python!')
```

```
hello python!
```

In [4]:
```
import my.demo
```

In [5]:
```
my.demo.show('梓逸宸')
```

```
梓逸宸
```

In [6]:
```
from my.demo import show
```

In [7]:
```
show('过往云烟')
```

```
过往云烟
```

%timeit

%timeit 计算一行命令的运算时间

%%timeit 计算一个代码段的运行时间

In [9]:
```
%timeit li = [i**2 for i in range(1000)]
```

```
341 µs ± 9.32 µs per loop (mean ± std. dev. of 7 runs, 1000 loops each)
```

In [10]:
```
%timeit li = [i**2 for i in range(1000000)]
```

```
368 ms ± 11.8 ms per loop (mean ± std. dev. of 7 runs, 1 loop each
)
```

In [11]:
```
%timeit li = [i**2 for i in range(10)]
```

```
3.72 µs ± 193 ns per loop (mean ± std. dev. of 7 runs, 100000 loop
s each)
```

In [12]:
```
%%timeit
li = []
for i in range(1000):
    li.append(i**2)
```

```
411 µs ± 5.01 µs per loop (mean ± std. dev. of 7 runs, 1000 loops
each)
```

%time

%time 无论什么代码，都只执行一遍 1 loop each

%%time 计算代码段执行一遍的时间

In [15]:
```
%time li = [i**2 for i in range(1000)]
```

```
CPU times: user 365 µs, sys: 0 ns, total: 365 µs
Wall time: 371 µs
```

In [16]:
```
%%time
li = []
for i in range(1000):
    li.append(i**2)
```

```
CPU times: user 527 µs, sys: 1e+03 ns, total: 528 µs
Wall time: 536 µs
```

In [22]:
```
import random
li = [random.random() for i in range(1000)]
%timeit li.sort()
```

```
18.5 µs ± 509 ns per loop (mean ± std. dev. of 7 runs, 100000 loop
s each)
```

In [21]:
```
li = [random.random() for i in range(1000)]
%time li.sort()
```

```
CPU times: user 373 µs, sys: 57 µs, total: 430 µs
Wall time: 396 µs
```

In [23]:
```
%time li.sort()
```

```
CPU times: user 30 µs, sys: 0 ns, total: 30 µs
Wall time: 33.9 µs
```

%%html

In [30]:
```
%%html
<div class="mytest" style="color: cyan">梓逸宸</div>
```

红豆生南国

%%js

In [32]:
```
%%js
document.querySelector(".mytest").innerHTML = "红豆生南国";
```

!

! 可以执行系统命令

In [37]:
```
! cd /Users/tiramisu/Desktop/ && ls
```

```
$RECYCLE.BIN
2018年创新创业--机票比较系统的替身
7.18直播截屏
OneDrive - csu.edu.cn
Thumbs.db
desktop.ini
html笔记截屏
job
jsp
me.jpeg
my
test.py
www.runtofuture.cn.zip
~$系统课设设计.docx
速云
全校st-id
牛客网--写简历
优秀文章
屏幕快照 2018-06-22 下午3.03.32.png
屏幕快照 2018-07-03 下午3.39.58.png
屏幕快照 2018-07-07 上午9.07.46.png
屏幕快照 2018-08-06 下午2.42.57.png
屏幕快照 2018-08-06 下午2.43.00.png
屏幕快照 2018-08-06 下午2.45.02.png
屏幕快照 2018-08-06 下午2.49.00.png
屏幕快照 2018-08-06 下午2.52.04.png
屏幕快照 2018-08-06 下午2.52.09.png
屏幕快照 2018-08-06 下午2.55.15.png
屏幕快照 2018-08-06 下午2.55.48.png
屏幕快照 2018-08-06 下午2.56.43.png
求职技巧.pptx
全校部分js-id
桌面文件夹
```

%%writefile

In [42]:
```
%%writefile new_test.py
li = []
for i in range(1000):
    li.append(i**2)
```

```
Writing new_test.py
```

In [43]:
```
! ls
```

```
Application Data                PycharmProjects
Applications                    QQ-cloud
Applications (Parallels)        Qt5.8.0
CLionProjects                   QtProject
Desktop                         System Volume Information
Docker                          Workgroup
Documents                       bin
Downloads                       eclipse-workspace
Google-cloud-disk               iCloud 云盘 (归档)
HBuilder                        iCloud 云盘 (归档) - 1
HBuilderProjects                iCloud 云盘 (归档) - 2
Hexo                            iCloud 云盘 (归档) - 3
IdeaProjects                    jupyter_note.ipynb
Kingsoft                        my
Library                         new_test.py
Movies                          nodePipe1827.sock
Music                           nodePipe5558.sock
OneDrive - csu.edu.cn           node_modules
Parallels                       python_work
Pictures                        venv
Public                          webui-aria2
```

In [44]:
```
! cat new_test.py
```

```
li = []
for i in range(1000):
    li.append(i**2)
```