00EnvironmentInstallation

March 18, 2019

1 Git

1. install

    1. go to official site
    2. download executable
    3. open executabled: Always "Next"

2. testing

    1. open Command line (命令提示字元)

    ```
    >>>git
    usage: git [--version] [--help] [-C <path>] [-c <name>=<value>]
        [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
        [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
        [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
        <command> [<args>]
    .........
    ```
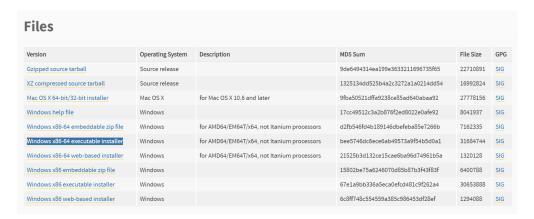
3. download git repo

    ```
    git clone https://github.com/GoatWang/IIIMaterial
    ```

2 Python(Don't use conda or VS please)

1. intall

    1. go to python 3.6.4 download page(official site)

    2. Download "Windows x86-64 executable installer"
    3. Open installer
        1. (very important!!) check "Add Python 3.6 to PATH" at bottom

        2. click install now

2. testing:

    1. open Command line (命令提示字元)

Files

Version	Operating System	Description	MD5 Sum	File Size	GPG
Gzipped source tarball	Source release		9de6494314ea199e3633211696735f65	22710891	SIG
XZ compressed source tarball	Source release		1325134dd525b4a2c3272a1a0214dd54	16992824	SIG
Mac OS X 64-bit/32-bit installer	Mac OS X	for Mac OS X 10.6 and later	9fba50521dffa9238ce85ad640abaa92	27778156	SIG
Windows help file	Windows		17cc49512c3a2b876f2ed8022e0afe92	8041937	SIG
Windows x86-64 embeddable zip file	Windows	for AMD64/EM64T/x64, not Itanium processors	d2fb546fd4b189146dbefeba85e7266b	7162335	SIG
Windows x86-64 executable installer	Windows	for AMD64/EM64T/x64, not Itanium processors	bee5746dc6ece6ab49573a9f54b5d0a1	31684744	SIG
Windows x86-64 web-based installer	Windows	for AMD64/EM64T/x64, not Itanium processors	21525b3d132ce15cae6ba96d74961b5a	1320128	SIG
Windows x86 embeddable zip file	Windows		15802be75a6246070d85b87b3f43f83f	6400788	SIG
Windows x86 executable installer	Windows		67e1a9bb336a5eca0efcd481c9f262a4	30653888	SIG
Windows x86 web-based installer	Windows		6c8ff748c554559a385c986453df28ef	1294088	SIG

download

download

```
>>> python -V
Python 3.6.4
>>> pip -V
pip 9.0.1 from C:\.......\pip (python 3.6)
```

3 Jupyter

1. install:

    1. open Command line (命令提示字元) with admin auth (以管理員權限開啟)

       ```
       >>>pip install --upgrade pip
       >>>pip install jupyter
       ```

2. testing

    1. open Command line (命令提示字元)

       ```
       >>>jupyter notebook
       ```

4 Dependency(Don't use conda or VS please)

1. install

    1. option 1: install your self

       ```
       >>>pip install numpy pandas scikit-learn matplotlib requests xgboost bs4
       ```

    2. option 2: install through requirements.txt

       ```
       >>>pip install -r requirements.txt
       ```

5 Jupyter 快捷鍵

0. shift-enter: 跑程式
1. A: 上面增加一格
2. B: 下面增加一格
3. C: 複製
4. V: 貼上
5. Z: 復原
6. shift-up & shift-down: 多個 block 選取
7. M: markdown 抄筆記