Python_0

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Python Installation(Mac)

- Edition
  - 2.x: officially stop support at 2020
  - 3.x
    - 3.5: all packages are available
    - 3.6: lack of some deep learning packages, heroku(free Django website cloud) doesn't support
    - 3.7(developing)

- Approaches：
  - Official website：google search "python download"
    path: cd /Application/Python3.X
  - Anaconda：useful packages pre-installation
    path: ~/anaconda/Python

- Why the path is important ?
  - what engine do you use to compile python code?
  - where to install the package?
- To edit where you call the python
  - external installation: cd /usr/local/bin

    use this code to edit: vim ~/bash_profile
  - built-in: cd /usr/bin/python2.7

Package Management

```
>>> python3 -m pip -V
>>> pip3 -V
>>> pip install {package_name}
>>> pip uninstall {package_name}
>>> pip list
>>> pip freeze > requirements.txt
>>> pip install -r requirements.txt
```

Developing Environment

- Recommend
  - Data: jupyter notebook(pip3.6 install ipython[notebook])
  - Bigger Project: vscode(google search "vscode")
- Other:
  - Thin: terminal, IDLE(official)
  - Complicated but powerful: vim, sublime
  - Fat: visual studio

jupyter notebook shortcuts

- shift + enter: execute a block
- command + d: delete a line
- command + /: comment out(註解掉)
- command + s: save this notebook
- tab: autocomplete
- shift + tab: see definition of a function
- command+shift+p: find command

- esc: command mode
  - A: insert block above
  - B: insert block below
  - C: copy block
  - X: cut block
  - V: paste block
  - M: Markdown
  - D + D : Delete
- refer to: https://www.dataquest.io/blog/jupyter-notebook-tips-tricks-shortcuts/