Introduction to Computer Programming Day 2: Setting up python environment

Hebi Li

Slides

All slides available at

https://github.com/ forrestbao / PythonClass



Step 0

Open terminal



Step 0

Open terminal

Step 1

Install Homebrew https://brew.sh/

Step 0

Open terminal

Step 1

Install Homebrew https://brew.sh/

Step 2

brew install python

Step 0

Open terminal

Step 1

Install Homebrew https://brew.sh/

Step 2

brew install python

Verify your installation

- 1 python
- 2 >> 1 + 2
- 3 5

Install on Windows

Step 1

Download the binary python3 installer from python.org a , and install. You will get:

- a python shell executer
- IDLE shell and editor

Add python to your PATH during the installation. Or you can rerun the installer to add it later.

ahttps://www.python.org/downloads/windows/

Install on Windows

Try IDLE

Search and open IDLE in launcher.

Install on Windows

Try IDLE

Search and open IDLE in launcher.

Try shell

Open terminal (command prompt) and type python (you need to add python to your PATH during installation):

- python
- 2 >> 1 + 2
- з З

Install on Linux

Use your distribution package manager to install python. Ubuntu

apt install python

Arch Linux

pacman -S python



Install on Linux

Use your distribution package manager to install python. Ubuntu

apt install python

Arch Linux

pacman -S python

Make sure you installed python3

python --version





Interactive shell

```
1 # python
2 >>> 1 + 2
```

з З

Interactive shell

```
1 # python
```

2 **>>>** 1 + 2

з З

run a .py file

python file.py

Interactive shell

```
1 # python
```

- 2 >>> 1 + 2
- з З

run a .py file

python file.py

IDEs

- IDLE
- Editor + plugins
- Other IDEs e.g. VS Code

Interactive shell

```
1 # python
```

- 2 >>> 1 + 2
- з З

run a .py file

python file.py

IDEs

- IDLE
- Editor + plugins
- Other IDEs e.g. VS Code

Web: Jupyter notebook

Install Jupyter Notebook

Install

- pip install jupyter ipython
- 2 pip install jupyterlab

Install Jupyter Notebook

Install

- pip install jupyter ipython
- pip install jupyterlab

Start a jupyter notebook

jupyter notebook

Install Jupyter Notebook

Install

- pip install jupyter ipython
- pip install jupyterlab

Start a jupyter notebook

jupyter notebook

Start a jupyter lab

jupyter lab





E1: Hello World

Print "hello <your name>" out.



E1: Hello World

Print "hello <your name>" out.

E2: calculate factorial 50

$$fact_n = n * fact_{n-1}$$

E1: Hello World

Print "hello <your name>" out.

E2: calculate factorial 50

 $fact_n = n * fact_{n-1}$

E3: print all even numbers under 20