### Lab00

刚看到lab00的时候晕了两天,<u>Lab 0: Getting Started | CS 61A Summer 2021</u>,对这么长的文档直接崩溃,对python的交互式方式也很诧异。我只会在devC++里面写代码,然后点击run。然后上知乎去b站,翻遍syllabus翻油管。甚至听了几小时的国内python入门,都对做lab00的效果不大。

后来想到花了一万多块不能浪费,就对着文档的目录逐节往下阅读和操作,而且逐句朗读查单词,最后花了十个小时左右,搞定了这个文档。

#### 1. Follow the YouTube Guidance

I learned how to install and use python, powershell and vscode, from the YouTube guidance. And the summary is as below:

Do as YouTube does

#### Windows

- install python 3
- test PowerShell
- install vscode
- test demo.py in vscode
  - how to create py file
  - how to run a py file
  - o how to open a py file

but the webpage (<u>Lab 0: Getting Started | CS 61A Summer 2021</u>) is more than what I have learned form the video: CS61A Su20: Lab 00 Setup - YouTube.

I could catch the YouTube video, but cannot do as the tutorial do. because the words are abstract.

# 2. Learn the tutorial webpage step by step(click the content icons one by one)

#### 2.1. Install Live Share extension for Pair Programming

#### 2.2. Summary of the commands

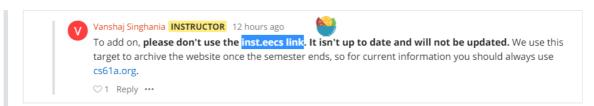
- cd
- Is (dir)
- mkdir
- mv

## 2.3. At here: <u>Lab 0: python-basics</u>, I have a question: What is the differences among interpreter, terminal and editor?

- refer to: 一文搞懂Python解释器,终端,编辑器区别和联系 云+社区 腾讯云 (tencent.com)
- Terminal
  - o Terminal is Shell, which is system of computer
  - Terminal is a place to input command and output results. (Notice: Commands are totally different from Codes)
  - Terminal can be opened by 3 methods
    - cmd
    - Windows PowerShell
    - VsCode
- Interpreter
  - for primary learning, interpreter can be considered as ">>>"
- editor
  - o code editor, also known as Integrated Development Environment (IDE)
  - o IDLE
  - o <u>VsCode</u>
  - Jupyter Notebook
  - o <u>Pycharm</u>

#### 2.4. Then Python expressions

- primitive expressions
- arithmetic expressions
  - o // Floor division 整除
  - o / Floating point division 浮点除法
  - 。 % Modulo 求余



I eventually find the difference between eecs link and cs61a link!

Previously, I thought eecs link is a website of ECE SICP Course. (In fact, ECE College in China will also open Data Structure or Operations Research)

(In Chinese: 我以为eecs的cs61a和cs61b是电气学院开的SICP和DS, 只有CS61a和CS61b的网站才是计算机学院开的正宗SICP和DS)

#### 2.5. Test OK Grading Website

- run ok(in the lab00) by terminal
- submit ok file to <a href="https://okpy.org">https://okpy.org</a> by terminal
- type in python3 ok -q python-basics -u in the terminal to unlock the test (这里要cd到 lab00的目录里才行)
- write code and run the code
  - edit lab00.py in vscode and write return 2021
  - input python3 ok, then the code will run
  - type in python3 ok --submit, then the lab00.py will be submitted to <a href="https://okpy.org">https://okpy.org</a>
  - A useful summary: okpy Command Generator (cs61a.org)

#### 2.6. Submit and check submission

- drag the .py file to the Submission Area: <u>Submit Assignment | Ok (okpy.org)</u>
- Or submit py file by terminal
  - o In the terminal, cd to the lab00 directory and type in python3 ok --submit
  - click into <u>Assignment | Ok (okpy.org)</u>, check the <u>Recent Submissions</u> of Lab0