

# Lab00

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刚看到lab00的时候晕了两天，[Lab 0: Getting Started | CS 61A Summer 2021](#)，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

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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
  - how to open a py file

but the webpage ([Lab 0: Getting Started | CS 61A Summer 2021](#)) is more than what I have learned from 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)

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

### 2.2. Summary of the commands


- cd
- ls (dir)
- mkdir
- mv


## 2.3. At here: [Lab 0: python-basics](#), 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
  - 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
  - code editor, also known as Integrated Development Environment (IDE)
  - IDLE
  - [VsCode](#)
  - [Jupyter Notebook](#)
  - [Pycharm](#)

## 2.4. Then Python expressions

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

 **Vanshaj Singhania** INSTRUCTOR 12 hours ago



To add on, **please don't use the [inst.eecs link](#). It isn't up to date and will not be updated.** We use this target to archive the website once the semester ends, so for current information you should always use [cs61a.org](#).

♡ 1 Reply ...

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

Previously, I thought eeecs 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eeecs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 <https://okpy.org> 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 <https://okpy.org>
  - A useful summary: [okpy Command Generator \(cs61a.org\)](https://okpy.org).

## 2.6. Submit and check submission

- drag the `.py` file to the Submission Area: [Submit Assignment | Ok\(okpy.org\)](#)
- Or submit `.py` file by terminal
  - In the terminal, `cd` to the lab00 directory and type in `python3 ok --submit`
  - click into [Assignment | Ok\(okpy.org\)](#), check the `Recent Submissions` of Lab0