Installing Python, Pip, and Jupyter Notebooks

Installing Python

Download and run the Python installer for your operating system:
https://www.python.org/downloads/

Windows:

Click "Customize Installation" and make sure that all boxes are checked.

On the "Advanced Options" screen, check "Add Python to environment variables."

MacOS

Install with default settings.

You may need to use "python3" and "pip3" when running Python and Pip from the terminal.

Opening the Terminal

Windows:

Open the command prompt by opening the Windows search and searching for "Command Prompt."

MacOS:

Open the terminal by going to Applications → Utilities → Terminal.

Verifying Your Python and Pip Installation

In the terminal or command prompt, type the command: `python` (or, `python3`, on MacOS) and hit the "enter" or "return" key.

Verify that you have the version of Python that you installed at https://www.python.org/downloads/ by typing `python --version`

If you do not get the correct version, try typing `python3 --version`
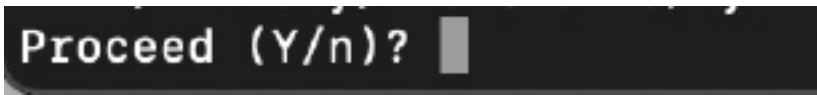
In the terminal type `pip` or `pip3` , as needed, and hit the "enter" or "return" key.

You should see a long list of options and commands for Pip.

Installing Jupyter Notebook

In the terminal or command prompt, type `pip install notebook` (or, `pip3 install notebook`).

If you are prompted in the terminal by something like this,

then type "Y" and hit "enter" or "return" to continue the installation.

Running Jupyter Notebook

Open the terminal or command prompt by following the instructions above.

Use the cd ("change directory") command to navigate to where the files are stored on your computer by typing "cd" followed by the location of the exercise files on your computer.

For example, if you are on a Windows computer and the files are on your Desktop, you might use a command like:

`cd C:\Users\YourName\Desktop\exercise_files`

If you're on a Mac and you've used GitHub to get the files, you might use a command like:

`cd /Users/YourName/Documents/GitHub/python-essential-training-2449125`

Tip: Use the "tab" key to autocomplete filenames as you type them in the terminal or command prompt.

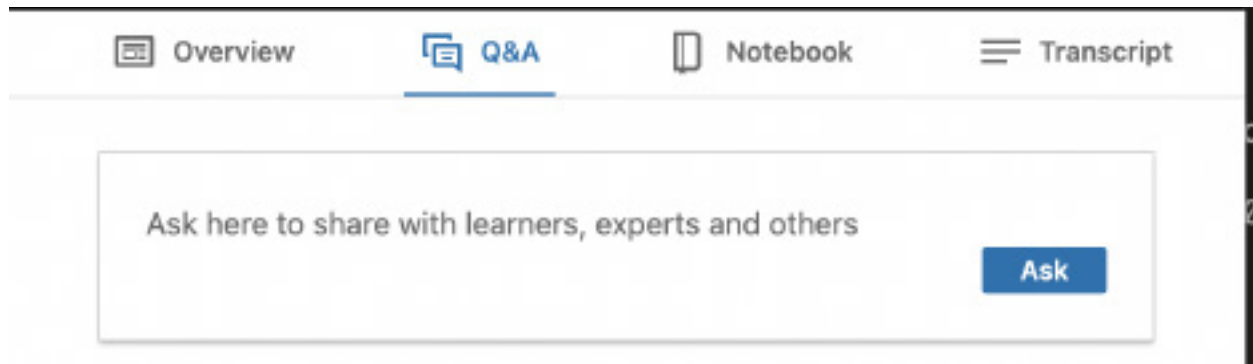Once you are at the location of the exercise files, run the command:

`jupyter notebook`

The notebook files should open in your web browser.

Troubleshooting

There are four main resources available to you for troubleshooting installation problems.

- An ongoing collection of help and troubleshooting materials for this course can be found here: https://github.com/LinkedInLearning/python-essential-training-2449125/wiki/Troubleshoot ing

- Comprehensive Python troubleshooting guides for installing Python and packages:
  - https://docs.python.org/3/using/windows.html
  - https://packaging.python.org/en/latest/tutorials/installing-packages/

- Look at the Q&A section of Python Essential Training to see if your question has been asked and answered before. If it has not, ask a new question.

- Use Google to search for the error message or problem you're having. The odds are very good that a solution can be found on StackOverflow, official Python documentation, or many other sources of online help!