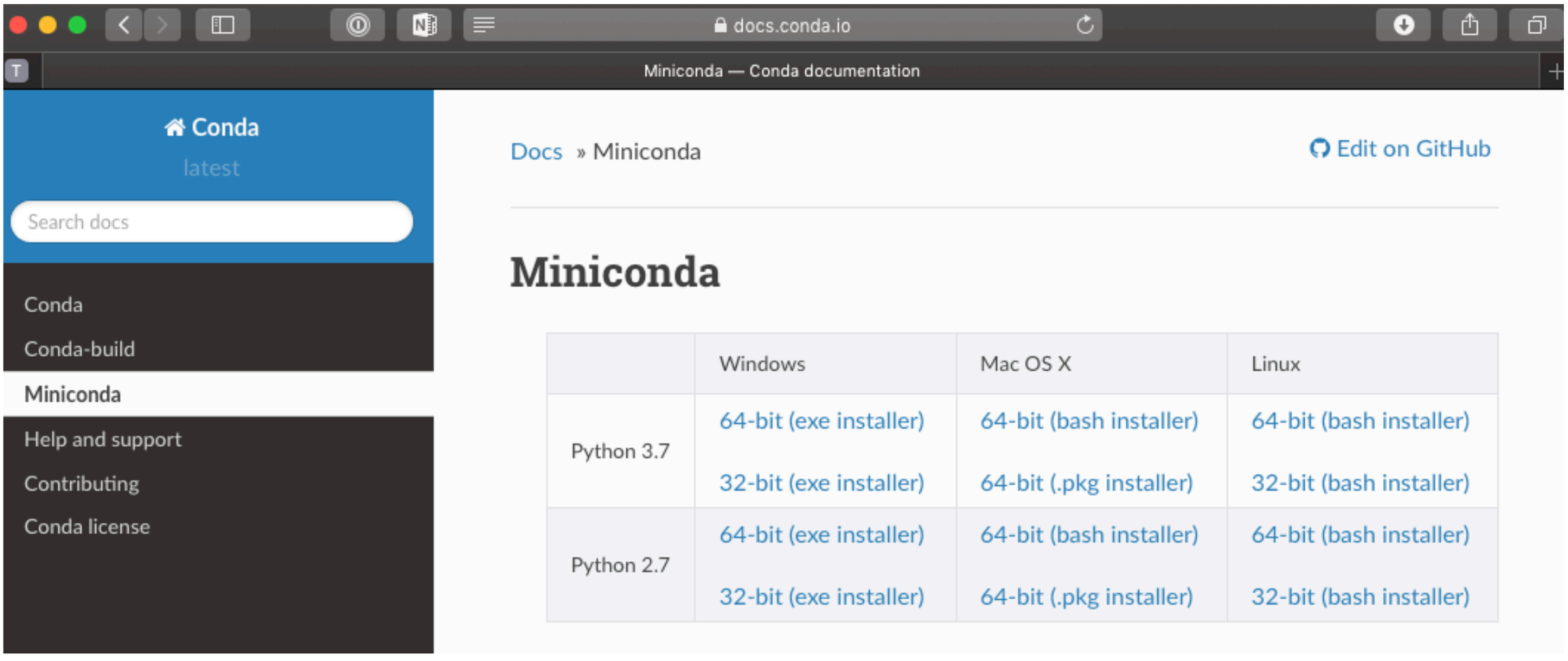
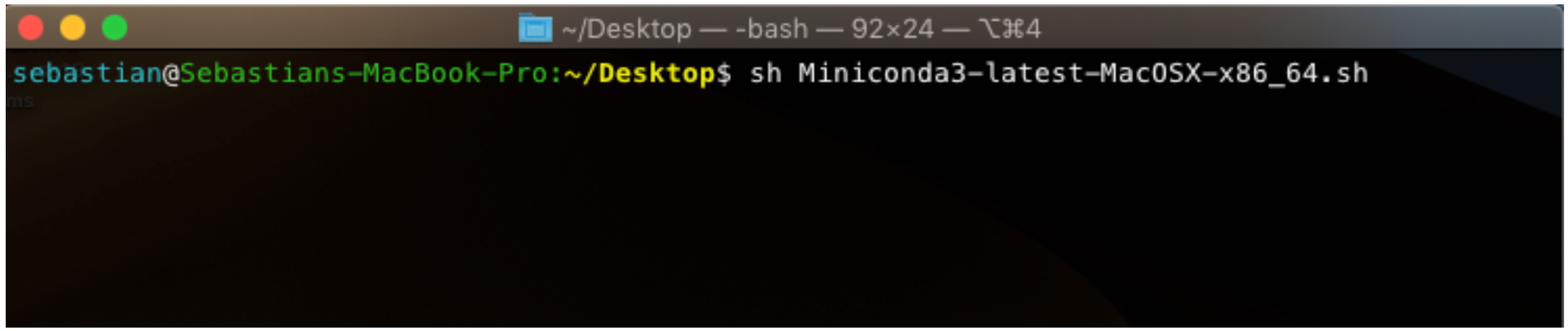
Quick Guide for Installing and Using Jupyter Notebook/Lab

- I recommend installing Python via the Miniconda Package manager
- Choose the installer appropriate for your OS from the website

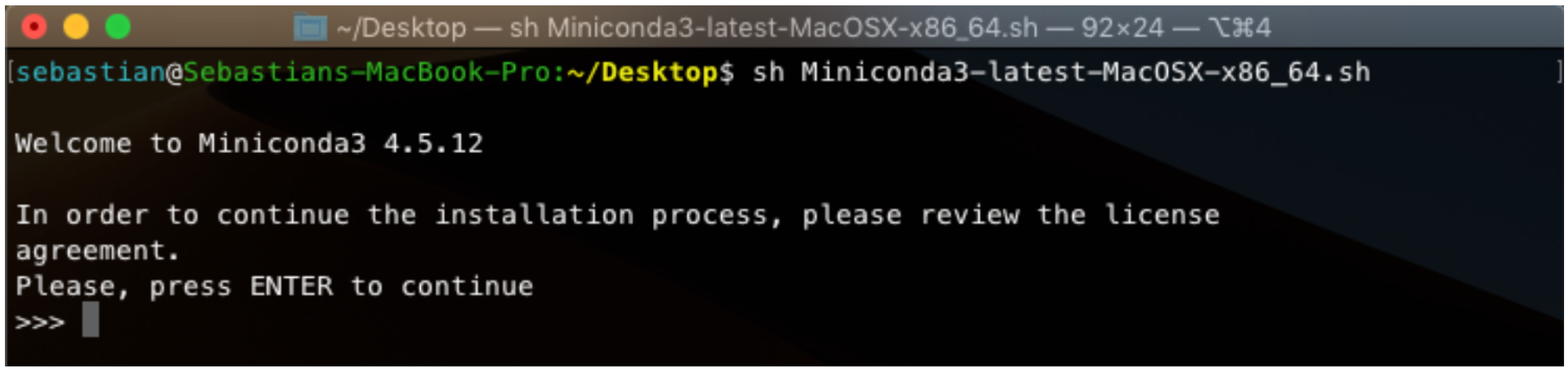
https://docs.conda.io/en/latest/miniconda.html



- **If you chose "64-bit (bash installer)", you would initiate the installation as follows:**



- **Then just follow the instructions on the screen:**



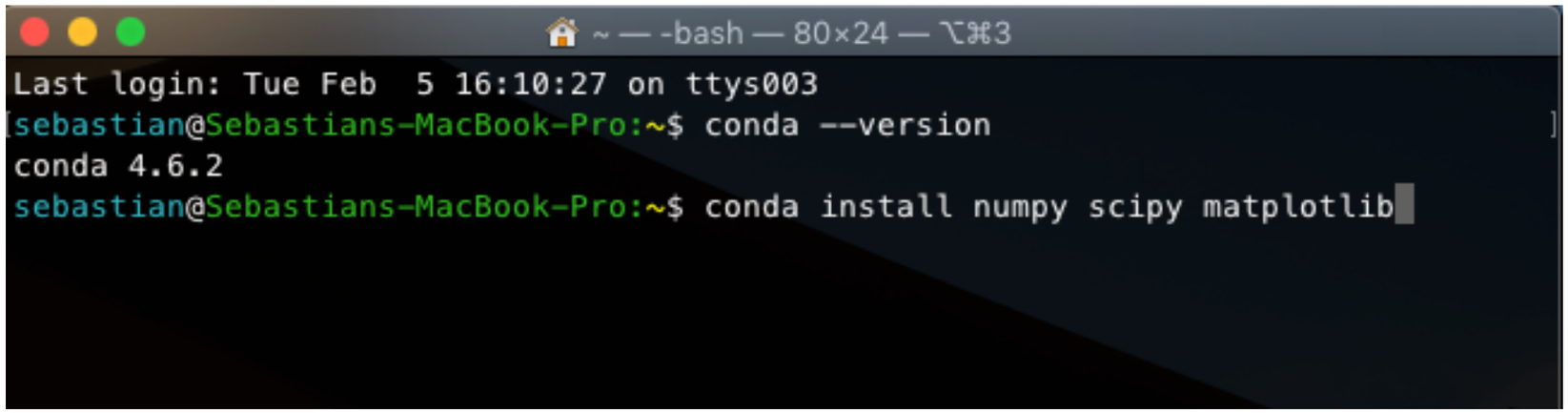
- **After installation, close your terminal and open a new terminal; the "conda" command should now be available from the command line**

- **On Windows, you may have to add "conda" to the "PATH" manually (this basically means you have to define a shortcut so that your terminal knows what to do if you type "conda")**

- **In this case, it's probably best if you read through the suggestions at**

  https://stackoverflow.com/questions/44597662/conda-command-is-not-recognized-on-windows-10

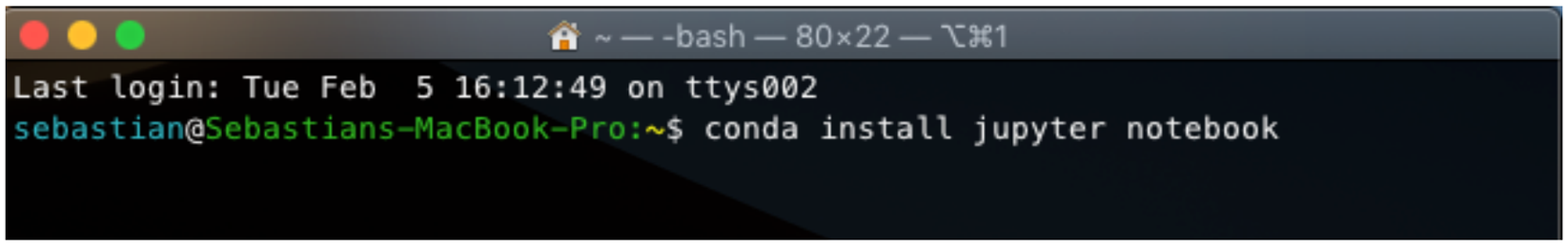
- **After you got conda to work from the command line, you may want to install the commonly used packages ...**

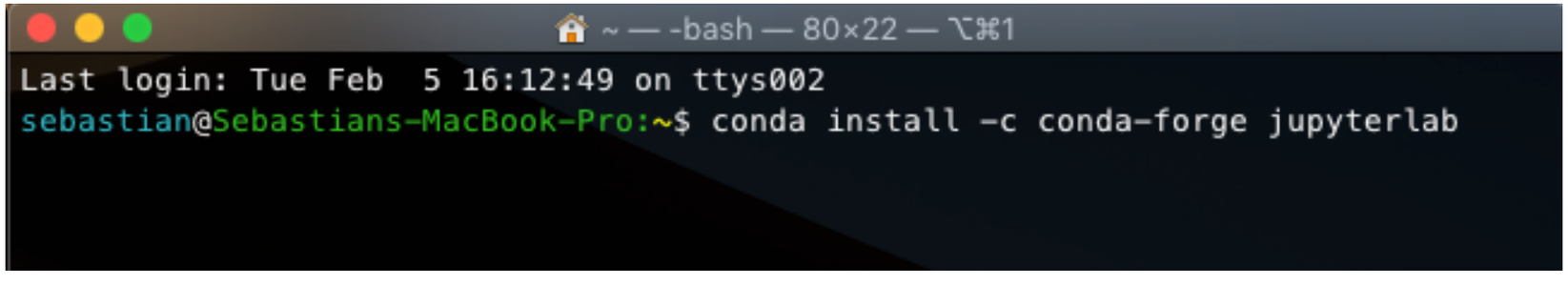


- **Next, you can either install Jupyter Notebook or Jupyter Lab; both are programs for working with Jupyter Notebook files (.ipynb files)**

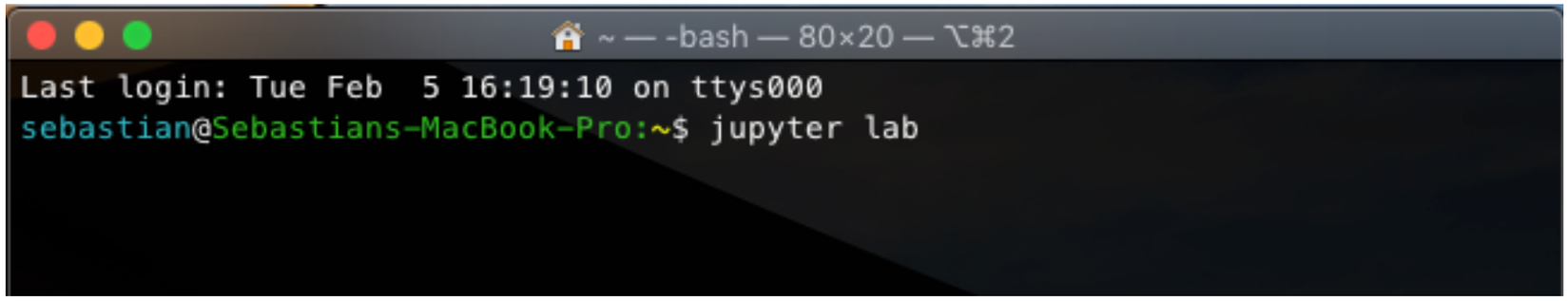
- **Both work well, but Jupyter Lab is a bit more modern**

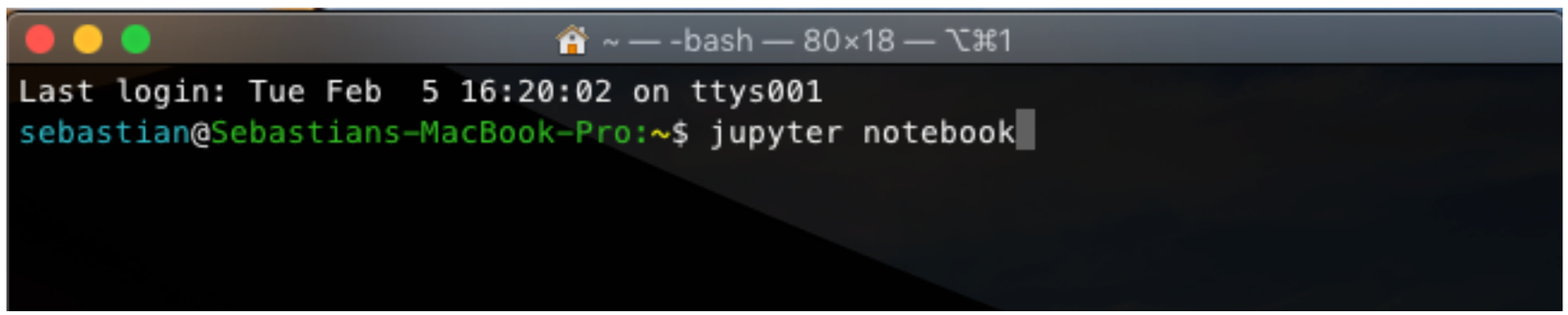
- **You can them as follows (you only need one)**





- **After installation, you can then start Jupyter Notebook or Jupyter Lab as follows (again, you only need one of the two)**



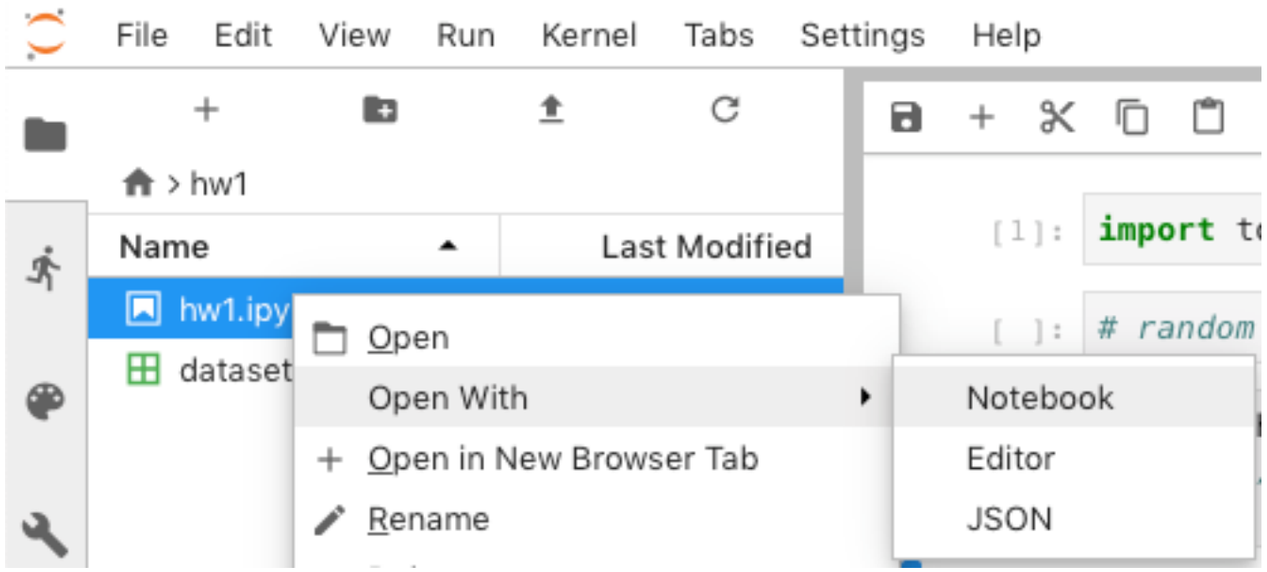


- **The application will then start in your default web browser, which you will then use to interact with the notebook; however, you need to keep the terminal running as long as you use the application in your browser**

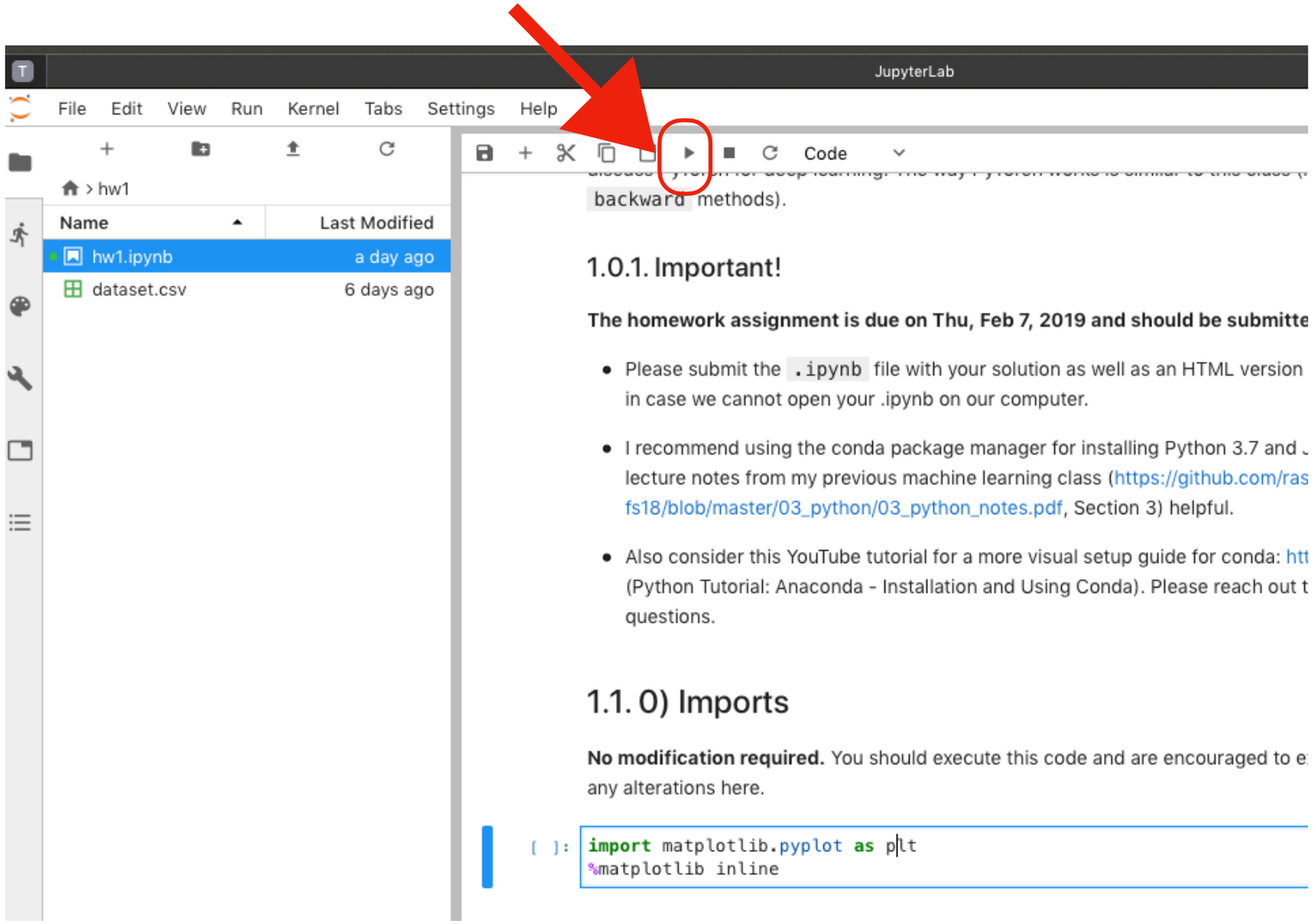
- **Suppose now you want to work on HW1**

- **Open Jupyter Lab in your home directory and then navigate to the location where you stored the "hw1" directory after downloading from GitHub (or directly start the Jupyter Lab application from the terminal in this folder)**

- **Then right-click on the hw1.ipynb file and choose "Open With -> Notebook"**



- **You can execute code cells by selecting the cell and then clicking on this button (or click "shift+enter")**



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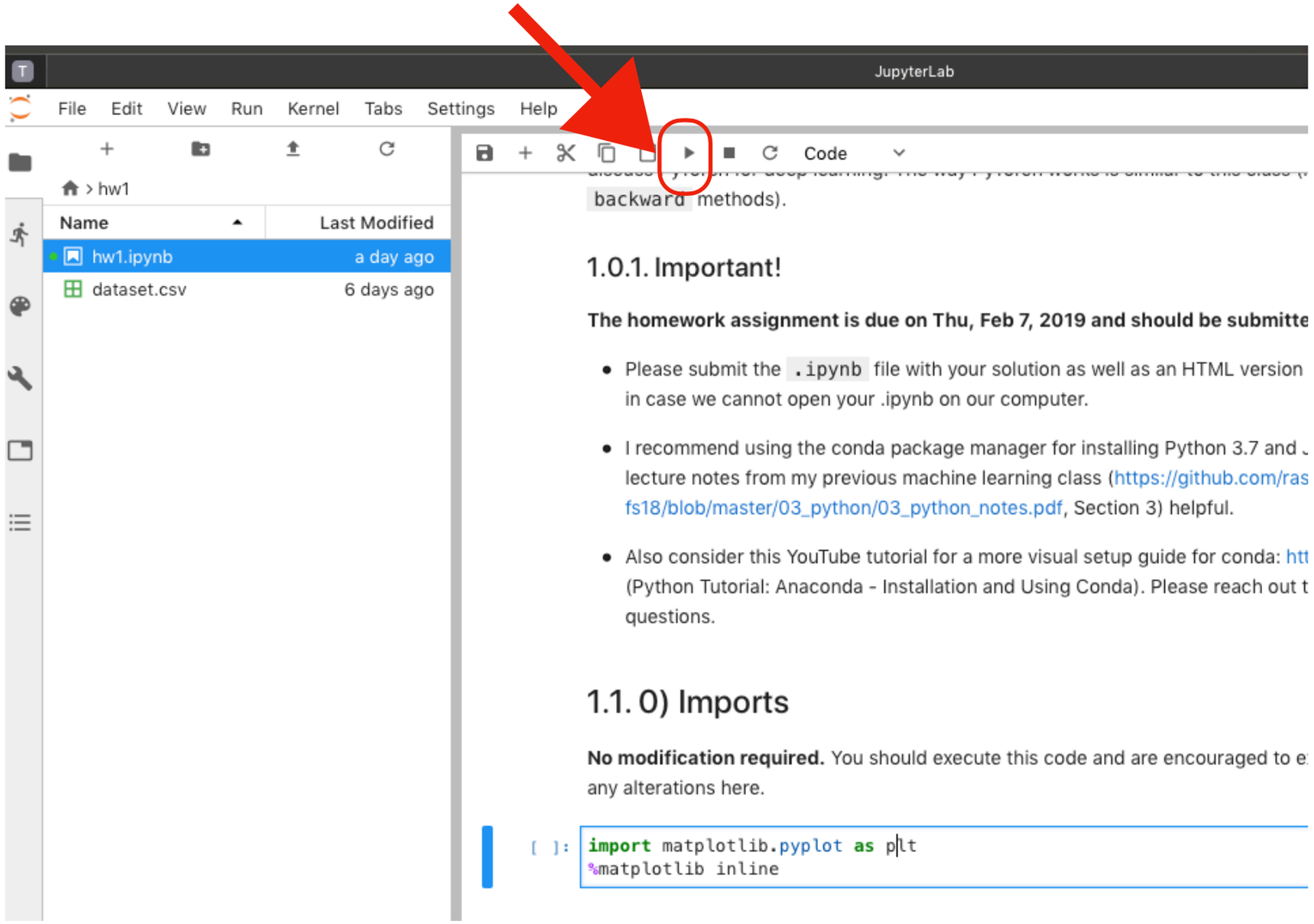
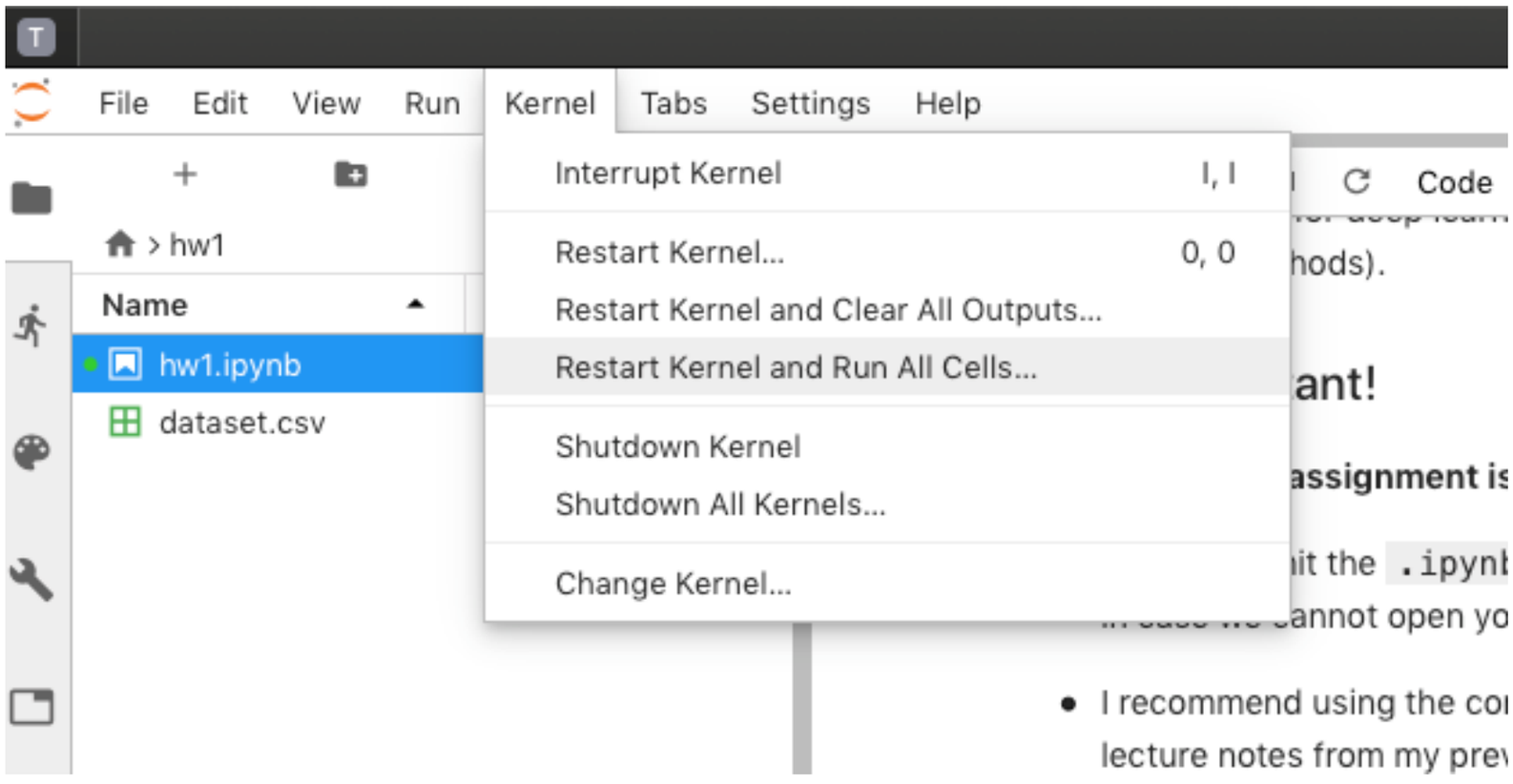


- **When you are finished, I recommend restarting the notebook and running all cells to make sure they execute correctly in sequential order**



- **Finally, save the notebook and also create an HTML version**
- **Then, submit both your .ipynb file and the .html file to Canvas**