Welcome to Jupyter notebooks!

First order of business: installation!

1. Install Anaconda

* Go to: <http://continuum.io/downloads> and download Anaconda for your computer. Scroll down the page to find the correct option for your computer. Please install the latest version (Anaconda 4.3.1; Python 3.6). You may use either the “Graphical Installer” or the “Command Line Installer” depending on your preference (if you’re not sure what your preference is, “Graphical Installer” is probably easier!).
* Open either an X11 or Terminal Window (found in the Utilities folder on a Mac).
* Type python at the command line. If you see in your terminal something like:

Python 3.5.3 |Anaconda 4.3.1 (x86\_64)|

Followed by a bunch of other stuff, then you are set! The specific version of Python (here 3.5.3—this is what I’m running) isn’t important, as long as it’s at least 3. If you don’t see the words “Anaconda” in your terminal, you may need to add Anaconda to your Python path. Exit python by typing exit() and then type in the terminal window:

export PYTHONPATH=$PYTHONPATH:~/anaconda

Try then try typing python again and see what you get!

1. Test your Setup

If you have exited python, open it again in your terminal by typing python at the command line. Once python is open, Type the following in the window, one line at a time. You should not get any error messages.

import matplotlib

import matplotlib.pyplot as plt

import numpy as np

import pdb

If everything worked, exit python again by typing exit().

1. Open up Jupyter

Download the “1-Python Intro.ipynb” notebook from the SIP.zip archive that is in your email. Create a folder on your Desktop called “PythonTutorial”, and **save the notebook in that folder**.

Using your terminal, go to your “PythonTutorial” folder (using the **cd** command). “cd” stands for “change directory”: directory is another word for folder on your computer. On my computer, I would type:

cd /Users/raja/Desktop/PythonTutorial/

and this would take me into the “PythonTutorial” folder. You can always see what is in a directory by typing **ls** (that is the lowercase letter L, then lowercase S): this will list everything that is in your folder. You should see the “1-Python Intro.ipynb” notebook listed when you type **ls.**

Finally, type:

jupyter notebook

into the command line and press enter. If the anaconda Python installation worked correctly, this will launch a browser window. In the browser window, click on the “1-Python Intro.ipynb” notebook. From there, follow the instructions in the notebook!