Installing the Environment, Class 1

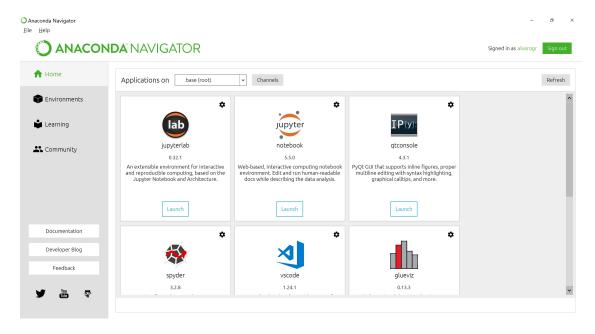
July 4, 2018

Anaconda and Jupyter environments.

What is Anaconda? Anaconda is a distribution of the Python and R programming languages for data science and machine learning related applications (large-scale data processing, predictive analytics, scientific computing) (wikipedia)

Included packages: NumPy, SciPy, Pandas, Matplotlib, Seaborn, Bokeh, Plotly, SciKit-learn, Tensorflow, etc

Out[32]:



What is JuPyteR? Jupyter Notebook, or just Notebook, is a browser based environment. A Notebook document is a JSON document, it contains an ordered list of input and output cells. These can contain code, text (as Markdown), math, plots and other media.

Notebooks can be presented in a large number of formats, such as HTML, presentation slides, LaTeX, PDF, ReStructuredText, Markdown, Python. Jupyter supports several dozen languages



title

and its name is a reference to 3 core languages supported: Julia, Python and R, and it's a reference to Galileo's notebooks regarding his discovery of Jupiter's moons.

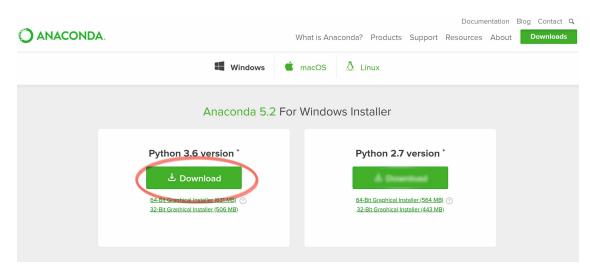
Convinced? good!

We are going to use Python ver 3.6 in this course (* note: if you have version 2.7 or older installed, it is best that you uninstall this older version) For Window please go to:

https://docs.anaconda.com/anaconda/install/windows.html

https://www.anaconda.com/download/#windows

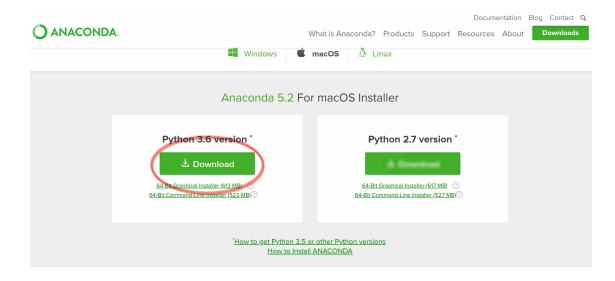
Out [42]:



For MacOS:

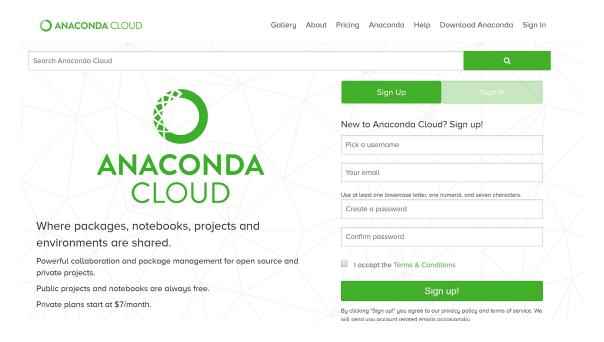
https://docs.anaconda.com/anaconda/install/mac-os

Out[43]:



Please also sign up to Anaconda cloud: https://anaconda.org/

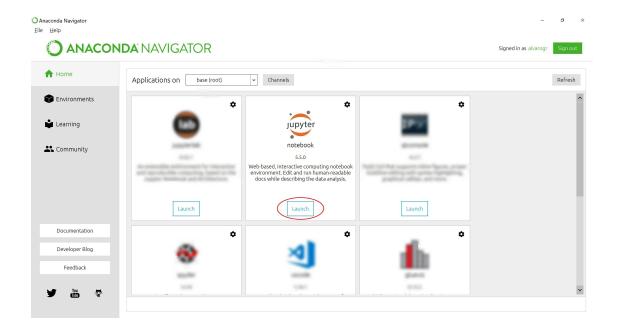
Out [44]:



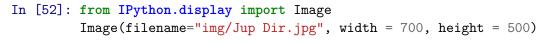
Windows Users: Find your Anaconda Navigator on your Startup Menu



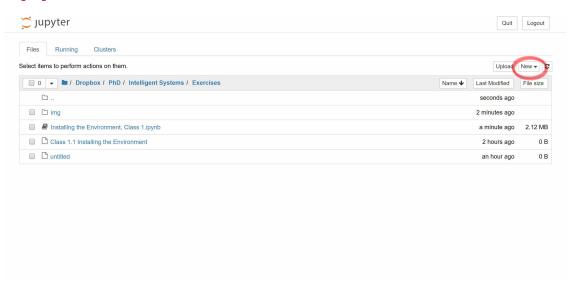
Select a Jupyter notebook



An in browser file navigator should appear. Click on "New" button, located near your upper right corner

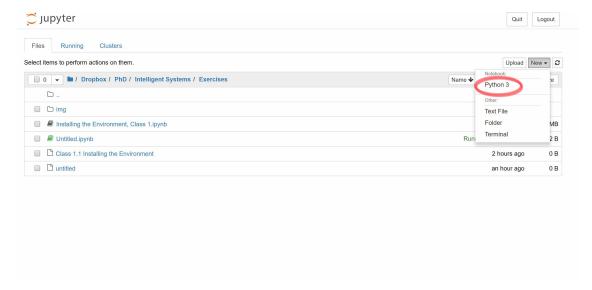


Out[52]:



A dropdown menu should appear, Select Python 3 to start a New Python Notebook

Out[53]:



Your Notebook, and shell, should appear. You can switch between coding and text by selecting your choice on the "code" or "markdown" option on the drop down menu.

Out [54]:

