

**Course:**

Intro to Data Science – DS-GA-1001 /

Data Mining for Business Analytics - INFO-GB.2336.11

Fall 2015

**Instructor:**

Brian d’Alessandro

**Homework 1 – Due 9/22/2015 11:59 pm**

1. **Install iPython Notebook**

iPython Notebook is an interactive Python programming environment. The main instruction page for iPython is here:

<http://ipython.org/install.html>

A MAC OSX or greater should have Python already included. If you have it, installing iPython is just a two step process. Here is a link that might be a bit more useful:

<http://quanttutorials.wordpress.com/2013/05/13/how-to-install-ipython-on-mac-osx/>

If you have Windows, the installation process is a bit trickier. Here are two links that give somewhat clear instructions.

<http://ipython.org/ipython-doc/2/install/install.html#windows>

<http://richardt.name/blog/setting-up-ipython-notebook-on-windows/>

(one the 2nd link above, make sure to read through the comments).

1. **Watch the 5 minute iPython overview video:**

<http://ipython.org/notebook.html>

If brand new to python, read some intro docs in the Python folder in NYU Classes Resources.

**3. Fill out the student questionnaire**

<https://www.surveymonkey.com/r/ids_hw1>

(note: only one response is allowed per computer, but you can go back and edit. And when you complete it, you’ll get an ad asking you to make some surveys. You can just ignore that and close your browser.)

The password to take the survey is: Homework1

**4. Review the following notebooks to catch up on Python basics**

The following are iPython notebooks that cover basic Unix commands and core Python libraries that will be used frequently in this course. These are condensed tutorials compiled from several guidebooks.

*Unix Commands*

<http://nbviewer.ipython.org/github/jattenberg/PDS-Spring-2014/blob/master/ipython_notebooks/Basic%20Unix%20Shell%20Commands%20for%20the%20Data%20Scientist.ipynb>

*Python Numpy*

<https://github.com/briandalessandro/DataScienceCourse/blob/master/ipython/Lecture_NumPyBasics.ipynb>

*Python Pandas*

<https://github.com/briandalessandro/DataScienceCourse/blob/master/ipython/Lecture_PandasIntro.ipynb>