Install Anaconda

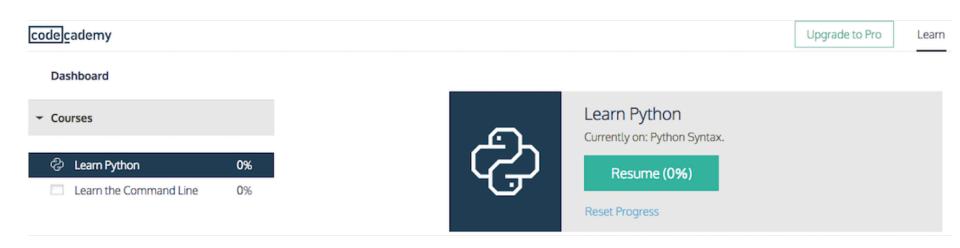
Install anaconda version 2.7 from:

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

It will directly install a lot of useful tools related to python usage to your computer. If your computer refuses to install it, then download python 2.7 here instead:

https://www.python.org/downloads/release/python-2712/

If you have never programmed



Codecademy.com

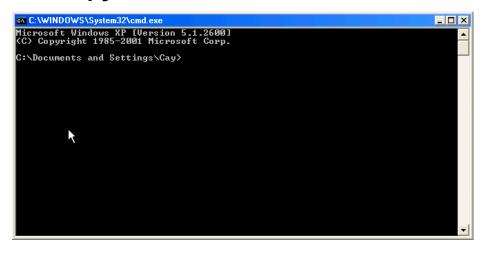
These are self-contained tutorials to get you familiar with python!



You need:

1. Windows Command Prompt

It will read python code if you type: **ipython**



* If you opened ipython directly from Anaconda no need of starting ipython from the terminal, it is the same thing.

2. A Text editor. You can open scripts there. For example *wordpad*. All the scripts are text files that can be ran bit by bit or at once. Today we want to run them bit by bit.

```
■ NaiveBayes.py - WordPad
                                                               <u>File Edit View Insert Format Help</u>
import os
import sys
def Execute (cmd):
   print "Exec: " + cmd
   os.system(cmd + " >> run.log")
# Check the number of command line arguments
if (len(sys.argv) != 2):
   print "Usage: NaiveBayes.py <basename>"
   sys.exit(1)
base = sys.argv[1]
# Split the data file into training and test cases\
Execute("ITSC Sample -c class -i " + base + ".arff -o trn.arff -t tst.arff -p 0.66")
# Train the classifier
Execute ("ITSC NaiveBayesTrain -c class -i trn.arff -b bayes.txt")
# Apply the classifier
Execute("ITSC NaiveBayesApply -c class -i trn.arff -b bayes.txt -o res trn.arff")
Execute ("ITSC NaiveBayesApply -c class -i tst.arff -b bayes.txt -o res tst.arff")
# Evaluate the results
Execute("ITSC Accuracy -c class -t res trn.arff -v trn.arff -o acc trn.txt")
Execute("ITSC Accuracy -c class -t res tst.arff -v tst.arff -o acc tst.txt")
or Help, press F1
```

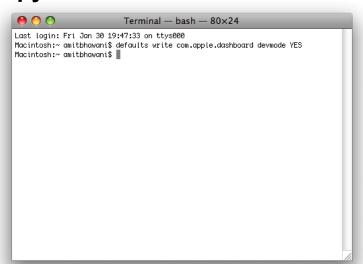


You need:



1. Terminal (in Applications/Utilities)

It will read python code if you type: **ipython**



* If you opened ipython directly from Anaconda no need of starting ipython from the terminal, it is the same thing.

2. A Text editor. You can open scripts there. For example *TextEdit*. All the scripts are text files that can be ran bit by bit or at once. Today we want to run them bit by bit.

```
ubiquitous_C83CFFE0-FC5F-4BC0-B628-7CF7680AB20D.mailsignature — Edited
Content-Transfer-Encoding:
bit
Content-Type: text/html;
charsetus-ascii
charsetus-ascii
charsetus-ascii
located-Type: text/html;
charsetus-ascii
located-Type: text/html;
charsetus-ascii
located-Type: text-type:
located-Type:
```

http://tinyurl.com/k9ore9o

- GettingStarted.pdf
 - How to open python on your own computer
- AdvancedBasics.py
 - data structures and python basics
- Summary_fasta.py
 - Output a brief summary from an input file
- data_and_plotting.py
 - process data using python and easy plotting
- resources.txt
 - Some links to a few nice resources