Python Data Science Bootcamp

Setup Guide

Welcome to Python Data Science Bootcamp! Before we start, you will need (1) access the command line (if you have a Windows machine you need to setup a Unix environment), (2) install a plain text editor, and (3) Setup your Github. This should be pretty straightforward, but we've included some instructions below to try and minimize problems. If you encounter a problem not addressed here, just post a question on our Piazza forum!

I. Opening a command line / terminal and Setting up a Unix environment

**Mac:** Go to Applications > Utilities > Terminal. And you are ready to go!

**Windows:**

Here is how we recommend setting up a Unix environment on a Windows machine

We recommend you use the Ubuntu subsystem, whci hyou can get from the windows app store:

Here is a link to step by step instructions on how to install the Ubuntu subsystem:

<https://ubuntu.com/tutorials/tutorial-ubuntu-on-windows#4-install-ubuntu-for-windows-10>

After installing you should be able to launch Ubuntu just like any other Windows app.

**Keep in mind the directory systems will be different between the Unix environment and your normal Windows environment. You can navigate to your Windows directories from the Unix environment by running:**

**cd /mnt/c/**

II. Installing a plain text editor

Next you need to install a plain text editor. There are many plain text editors to choose from, but some make coding more pleasant than others. You cannot use Word to write code, as Word adds all kinds of invisible characters to your text that make it unreadable to Python. Instead, I recommend one of the following:

**Mac :** [TextWrangler](http://www.barebones.com/products/textwrangler). This is free and works nicely for Mac users. If you're willing to pay a little money, there are some other options (google for recommendations).

**Windows:** [Notepad++](http://notepad-plus-plus.org) . This has a lot of nice features and it is free.

You're welcome to explore other text editors if you wish. There are several that are specifically made for writing code (e.g. Sublime can download it here <https://www.sublimetext.com/3> ) and may offer some nice extra features. There are also command line-based editors such as vim and emacs that many programmers use. These tools have a bit of a learning curve, and are not what I use personally, so I won't go over them during the course. Check them out if you're curious, though -- there are tons of tutorials online.

III. Setup Github and Github Desktop

First you will need to make a Github account. You can do that by going to the link bellow and making an account: <https://github.com/>

We recommend using a user interface called Github Desktop to upload and download files to the class Github page. You can download Github Desktop from this website:

<https://desktop.github.com/>

There are step instructions for how to install Github Desktop here:

<https://help.github.com/en/desktop/getting-started-with-github-desktop/installing-github-desktop>

We will cover the basics of Github Desktop on the first day of class, but if you want more information try this website: <https://help.github.com/en/desktop/getting-started-with-github-desktop>

Installing Python (just to be safe)

If everything has gone according to plan in the rest of the setup steps you should not need to install Python on your machine. However just to be safe here is how you can install Python 2.7.

**Mac:** Follow the instructions at this URL: <https://medium.com/@yangnana11/installing-python-2-on-mac-os-x-d0f1c9c4d808>

**Windows:**

Open your Ubuntu subsystem app and type:

**sudo apt install python2.7 python-pip**

**If you run into any setup problems please make sure to reach out to the TAs to get help!**