Python for Data Science Workshop Computer Detailed Setup Instructions

Thanks for coming to our workshop! The objective of the next two hours is to get you started from ground zero – no programming background and no computer setup assumed – to enough working knowledge to get started on doing data analysis yourself. If you are completely new, below are step-by-step instructions on how to setup your computer to follow the examples and exercises for tonight.

If you have any questions, let one of us know asap!

On Windows

1. Download Anaconda for Windows – <https://www.continuum.io/downloads#windows>
2. Click the 64-bit installer for Python 3.5 and no need to input your ‘work email’.
   1. This should take about 3-5 minutes.
3. Once downloaded, open up the installer and follow its instructions. The default settings and install location are all fine.
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4. Download Git – <https://git-for-windows.github.io>
5. Once downloaded, open up the installer and follow its instructions. The default settings and install location are all fine – you may want to select the checkbox to have a desktop icon when prompted.
6. To setup your workflow (just a smidgen of Unix commands!)
   1. Launch Git Bash
   2. Type “ls” and hit enter. This command allows you to view all your files in the current folder (also known as “directory”).
   3. Type “mkdir src” and hit enter. This command **m**a**k**es a new **dir**ectory called **src** in your current directory.
      1. Note: if you do not want to create this folder in your current directory for any reason (e.g. your current directory is Downloads and you don’t like that), type “cd ..” to go up a directory level and “cd <directory name>” to step inside a directory. These are the only navigation commands you will need to move to another directory on your computer. Then type “mkdir src” in the directory you are comfortable in.
   4. Type “cd src” and hit enter. This command **c**hanges your **d**irectory to the src directory (that you just created). If you type “ls” again you should see nothing because you don’t have any files yet in your newly created directory.
7. Download workshop files into your src directory.
   1. Go back to your Git Bash terminal and in your src directory type:

“git clone https://github.com/dssberkeley/python\_workshop.git”

* 1. If you type “ls” you should now see a new directory called “python\_workshop”. Type “cd python\_workshop”.
  2. You should now see the files used for this workshop. Type “jupyter notebook” to finally run jupyter notebook. It will automatically open up your default browser and navigate to “localhost:/8888” for you.
  3. Now you can click on the iPython notebook called “python\_workshop.ipynb” to follow along!

On OSX

1. Download Anaconda for OSX – <https://www.continuum.io/downloads#osx>
2. Click the Python 3.5 Graphical Installer
   1. This should take about 3-5 minutes.
3. Once downloaded, open up the .pkg file and follow the instructions. (If you cannot open because the app is from an “unidentified developer”, find the .pkg in Finder and then open it while pressing the Control key).
   1. This should take about 3-5 minutes.
4. To run jupyter notebook (just a smidgen of Unix commands!)
   1. Launch terminal
   2. Type “ls” and hit enter. This command allows you to view all your files in the current folder (also known as “directory”).
   3. Type “mkdir src” and hit enter. This command **m**a**k**es a new **dir**ectory called **src** in your current directory.
      1. Note: if you do not want to create this folder in your current directory for any reason (e.g. your current directory is Downloads and you don’t like that), type “cd ..” to go up a directory level and “cd <directory name>” to step inside a directory. These are the only navigation commands you will need to move to another directory on your computer. Then type “mkdir src” in the directory you are comfortable in.
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  3. Now you can click on the iPython notebook called “python\_workshop.ipynb” to follow along!