Important resources

Learning Unix and bash

Resource	Description
http://www.ee.surrey.ac.uk/Teaching/Unix/	Tutorial on unix and bash. We will use this for the course.
http://www.thegeekstuff.com/2009/03/15-practical-unix-grep-command-examples	Grep tutorial

Learning Python and packages

Resource	Description
https://docs.python.org/3.5/tutorial/interpreter.html	Extensive introduction to Python. We will use this for the course.
http://github.com/pydata/pydata-book	Examples from the text book
https://www.python.org	All things python
http://www.scipy-lectures.org	Another extensive tutorial. Recommended as extra reading.
http://pandas.pydata.org/pandas-docs/version/0.18.1/10min.html#min	Quick pandas intro
https://docs.scipy.org/doc/numpy-dev/user/quickstart.html	Numpy tutorial
http://matplotlib.org/users/beginner.html	Matplotlib intro
http://codecademy.com/	Has interactive session for hands-on learning, lots of content. Free content is very good, for-pay is probably even better
http://datacamp.com/	Also has interactive sessions, focusing on data analysis. everything up through machine learning for free.
http://learnpythonthehardway.org/book/	A funny (or annoying) cynics guide to learning python. free materials are extensive, and there is more if you pay.

Learning git

Resource	Description

https://help.github.com/desktop/guides/getting-started/	Setting up github on your computer
https://guides.github.com	Good introductory tutorials. We will use this for the course.

Other tools

Resource	Description
https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet	Nice cheatsheet/demo for markdown syntax within git

Getting help

- In the terminal, use man command (hint: man man gives help on man)
- In apps (such as TextWrangler, Terminal, and Safari) click on Help at the top of the screen
- Google is your friend, and copy (ctl-C) and paste (ctl-V) makes it even friendlier
- Check out StackOverflow.com
- in ipython:
  - cmd? gives help for "cmd" (e.g. help? gives help on the help command)
  - cmd?? gives the code for "cmd"
- in python: help(object) gives help on "object" (e.g. help(dict) gives help on dictionaries)

Miscellaneous tips and tricks

- in Unix
  - up arrow (and down arrow) step through command history
  - tab autocompletes
- In python *txt<tab> shows possible autocompletions, that is shows possibilities that begin with "txt"