**Resources**

## **Programming (General)**

* [Giving and Receiving Technical Help](https://www.youtube.com/watch?v=hY14Er6JX2s)

## **Python**

* [Key Differences between Python 2 and 3](http://sebastianraschka.com/Articles/2014_python_2_3_key_diff.html)
* [Python Vs. R](http://www.dataschool.io/python-or-r-for-data-science/)
* [Jupyter Notebook Tips and Tricks](https://www.dataquest.io/blog/jupyter-notebook-tips-tricks-shortcuts/)
* [Python Reference](https://github.com/rasbt/python_reference)
* [List Comprehensions Explained Visually](http://treyhunner.com/2015/12/python-list-comprehensions-now-in-color/)
* [Curated List of Python Frameworks](https://github.com/vinta/awesome-python)
* [How to Think Like a Computer Scientist: Learning with Python](http://openbookproject.net/thinkcs/python/english2e/index.html)
* [Python for Biologists](http://pythonforbiologists.com/)
* [Google’s Python Class](https://developers.google.com/edu/python/)
* [Codeacademy](http://codeacademy.com/)
* [Pandas Resources](https://www.dataschool.io/best-python-pandas-resources/)
* [Why scikit-learn?](https://www.oreilly.com/ideas/six-reasons-why-i-recommend-scikit-learn)
* [API design for machine learning software](https://arxiv.org/pdf/1309.0238v1.pdf)
* [nbviewer](http://nbviewer.jupyter.org/)
* [Python for Informatics](https://www.py4e.com/)

## **Machine Learning**

* [Machine Learning Coursera](https://www.coursera.org/learn/machine-learning)
* Python Machine Learning by Sebastian Raschka
* [Excellent Article on Bias-Variance Tradeoff](http://scott.fortmann-roe.com/docs/BiasVariance.html)
* [A Few Useful Things to Know About Machine Learning](https://homes.cs.washington.edu/~pedrod/papers/cacm12.pdf)
* [DataQuest](https://www.dataquest.io/)
* [The Two Cultures of Statistics](http://te7fv6dm8k.scholar.serialssolutions.com/?sid=google&auinit=L&aulast=Breiman&atitle=Statistical+modeling:+The+two+cultures+(with+comments+and+a+rejoinder+by+the+author)&id=doi:10.1214/ss/1009213726&title=Statistical+science&volume=16&issue=3&date=2001&spage=199&issn=0883-4237#gla)

## **Data Science/General**

* [Jupyter Notebook Tips](https://www.dataquest.io/blog/jupyter-notebook-tips-tricks-shortcuts/)
* [Data Science Terms](https://github.com/rasbt/pattern_classification/blob/master/resources/data_glossary.md)
* [Machine Learning Video Library](http://work.caltech.edu/library/index.html)
* [Data Management Plan Tool](https://dmptool.org/)
* [Chris Albon](https://chrisalbon.com/)
* [Data School YouTube Channel](https://www.youtube.com/channel/UCnVzApLJE2ljPZSeQylSEyg)
* [Software Carpentry](https://software-carpentry.org/)
* Data Science From Scratch by Joel Grus
* Python Machine Learning by Sebastian Raschka
* [Introduction to Statistical Learning](http://www-bcf.usc.edu/~gareth/ISL/)
* [The Elements of Statistical Learning](http://www-stat.stanford.edu/~tibs/ElemStatLearn/)
* Think Stats (good if you know Python and want to learn statistics from that perspective)