



ENVISION

Intro to Engineering Applications of Python

Presented By: Joshua Donaldson

Agenda

Presentation

- 2 min: Python Background
- 3 min: Python Resources
- 2 min: Questions

Coding

- 5 min: Basic Python
- 15 min: Intro to Pandas, Numpy and Scipy

Why does everyone like Python?

1. Python Has a Healthy, Active and Supportive Community
2. Python Has Some Great Corporate Sponsors
3. Python Has Big Data
4. Python Has Amazing Libraries
5. Python Is Reliable and Efficient
6. Python Is Accessible



NETFLIX

IBM

Google

Who uses Python?



Dropbox



Spotify®



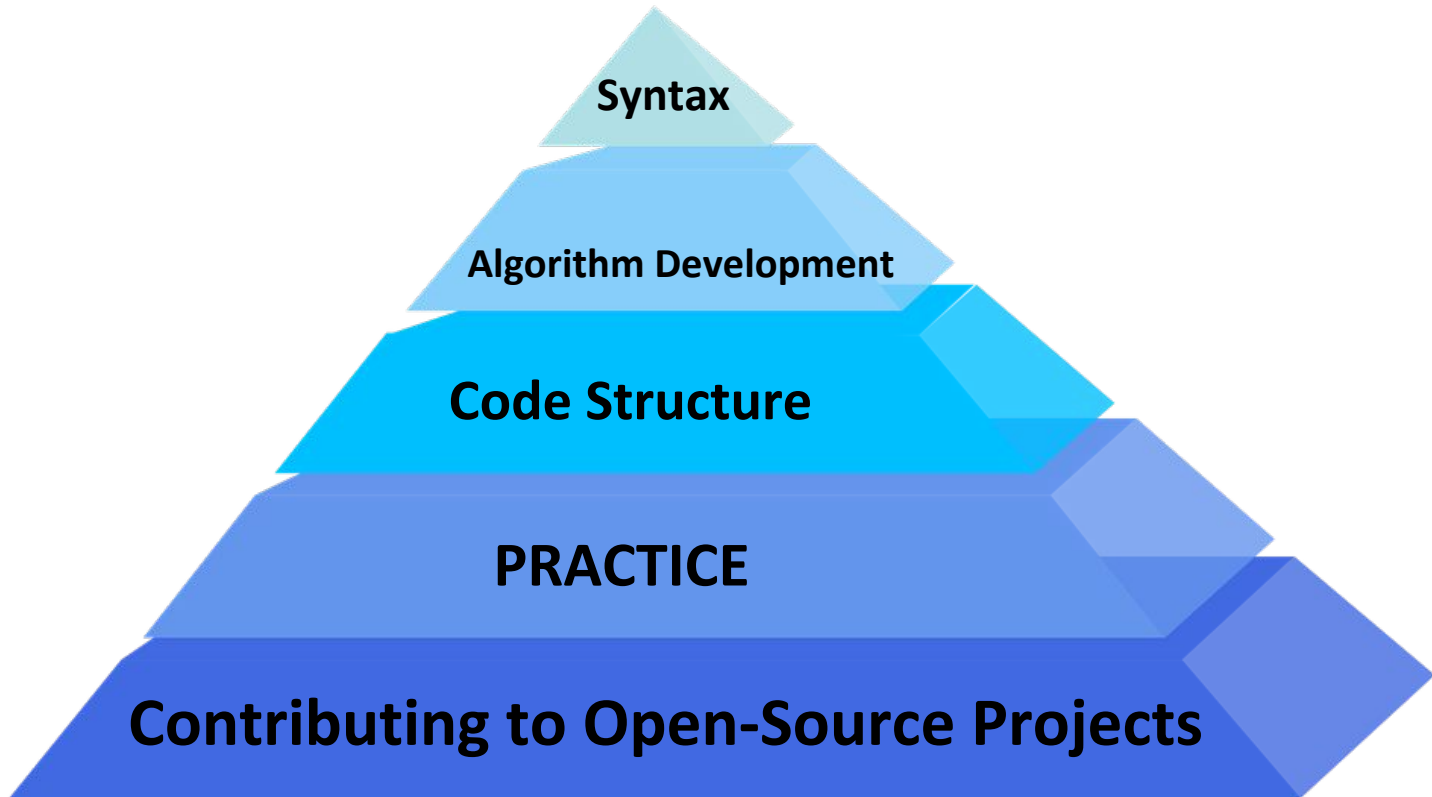
How do I learn Python?



Learn Python: <https://www.learnpython.org/>

Codecademy: <https://www.codecademy.com/>

How did YOU learn to code?



Okay... that's great but how do I master Python?

Okay... that's great but how do I master Python?

You don't.



???

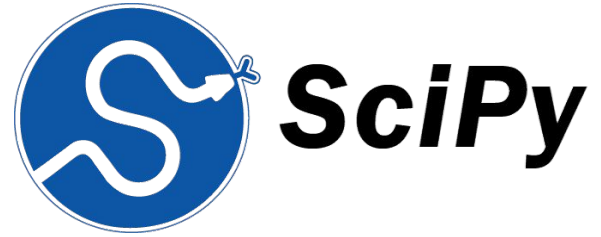
???



Programming is HARD. Luckily there are GREAT resources!



Documentation!



The BEST place to start is the docs! Every Library in Python has corresponding documentation explaining how to use it.

Pandas: <https://pandas.pydata.org/pandas-docs/stable/>

Numpy: <https://docs.scipy.org/doc/numpy-1.13.0/reference>

Scipy: <http://scipy.github.io/devdocs/hacking.html/>



Jupyter



Go to <https://ubc.syzygy.ca/>

Jupyter Notebook is an open-source web application that allows you to create and share documents that contain live code, equations, visualizations and narrative text.

Above and Beyond

Visual Studio Code

Anaconda

Github

SourceTree

Command Line

Questions?