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Python 101

Python

- Very readable programming language (High Level Programming Language)
 - C (Lower Level Programming Language)
- Slow Compared to other languages (not important to most users)
- Has plenty of libraries
 - Less effort to do somethings
- Huge community
- Used in Data Analytics and Data Science

Why do I need Python, when I have Excel (for Data Analytics)?

Excel

- Excel is good for viewing data, performing basic analysis, and drawing simple graphs
- Audit trail of what was done is not known in Excel
- You have to pay for Excel

Python

- Would know exactly what has been done in python
- Repeatability
- Transparency and sharing
- Easier to clean data (missing data, dates in different formats, no headers)
- Analysis on big amount of data is easier
- Python is free and open source

Tools used in this class

- Anaconda
 - Jupyter Notebook
- We can run python in Jupyter Notebook
 - Execution of code can be done line by line
- If you do not want to use Jupyter Notebook you can use
 - Google Colabatory (online)
 - Colaboratory is a research tool for machine learning education and research.
 - It's a Jupyter notebook environment that requires no setup to use.(Chrome /Firefox)
 - Access to Google GPU (limited)

Resources

- <https://pythonprogramming.net> (<https://www.youtube.com/user/sentdex>)
- <https://cognitiveclass.ai/>
- <https://medium.com/@trungluongquang/why-python-is-popular-despite-being-super-slow-83a8320412a9>
- <https://github.com/jakevdp/PythonDataScienceHandbook>
- <https://www.anaconda.com/>
- <https://colab.research.google.com/>