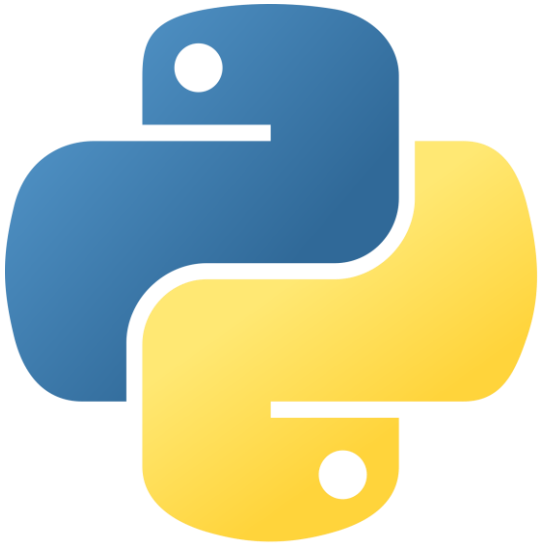
C0 - Introduction

Applications
- Data analysis
- Statistics

Pros
- High level

Cons
- Bad for software products
- Hard to see source code



Applications
- ML, DL
- Software

Pros
- Easy to see source code
- Good for deploying products

Cons
- More lines of code than R

Python libraries

Datasets (dataframes)

Beautiful plots

Scientific computing

Linear algebra
(vectors, matrices)

Basic plots

ML algorithms ready-to-use

Python Online IDEs

- Integration with Google Drive
- Good to learn
- No installations required

kaggle

- Alternative to Colab

Additional resources

https://github.com/SuvroBaner/Python-for-Data-Science-and-Machine-Learning-Bootcamp/blob/master/1.%20Python%20Crash%20Course/Python%20Crash%20Course.ipynb

https://colab.research.google.com/github/kamperh/data414/blob/main/practicals/python_numpy/python_numpy.ipynb

https://github.com/donnemartin/data-science-ipython-notebooks/blob/master/pandas/pandas.ipynb

https://github.com/neurodatascience/course-materials-2020/blob/master/lectures/12-may/01-python-for-data-analysis/python-for-data-analysis.ipynb

https://github.com/donnemartin/data-science-ipython-notebooks/tree/master/pandas

https://github.com/iutzeler/Introduction-to-Python-for-Data-Sciences/tree/master