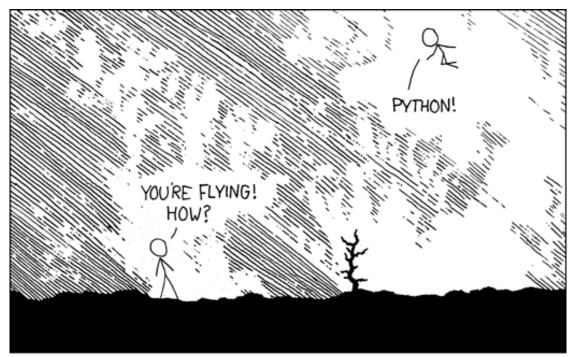
## Data Science UW Methods for Data Analysis

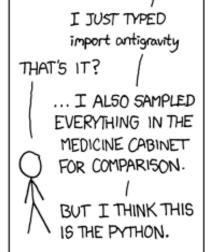
Introduction to Python Nick McClure













## **Python Background**

- > Python is arguably used as much as R in the data science world.
  - Focuses on readability and ease of usage.
  - Uses dynamic typing/whitespace.
  - 'Pythonic': Only one obvious easy way to do things.
  - Not as statistically focused, but has very easy OOP, logging, and interfacing.
  - Ipython! (Jupyter) for data/algorithm exploration
  - Spyder for the R-studio user.
  - Dataframes = pandas
  - Numerical library = numpy
  - Statistics = Statsmodels, PyMC
  - Machine Learning = scikit-learn, Shogun
  - Plotting = matplotlib
  - Indexing is different!

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