Recap

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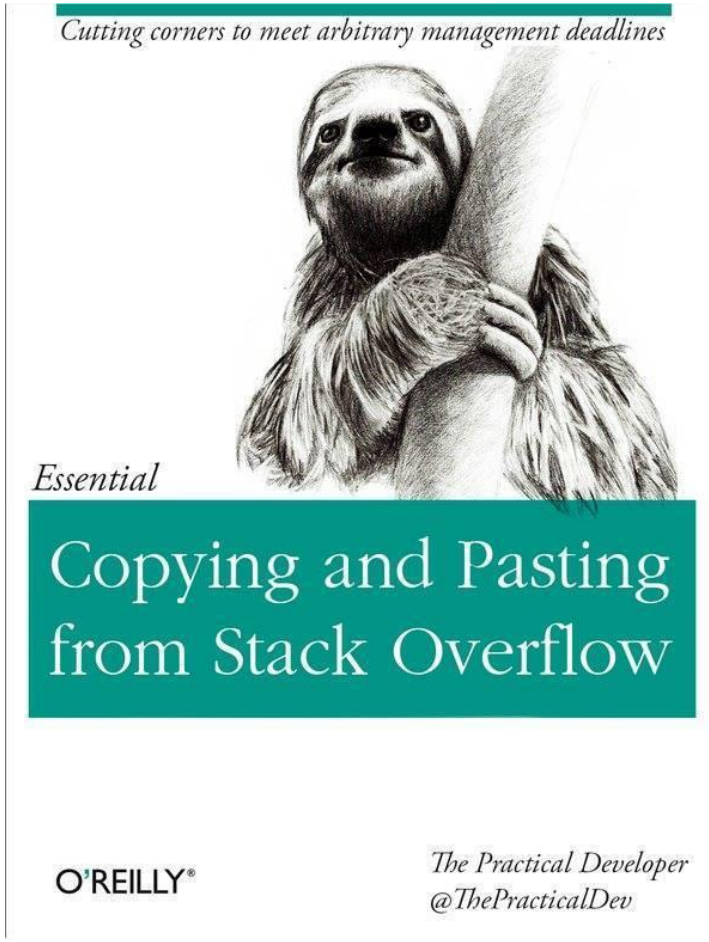
Motivation

- As data scientists, we know that computers are great at aiding in repetitive tasks
  - We have a vast range of tools available at our fingertips that enable us to be more productive and solve more complex problems when working on any computer-related problem
  - Yet many of us utilize only a tiny fraction of those tools; In this mini-course, I will try my best to help you become familiar with what kind of tools may be useful in your research



https://www.goodreads.com/book/show/29437996-copying-and-pasting-from-stack-overflow

Basics

- https://learnxinyminutes.com/docs/python/
- https://gto76.github.io/python-cheatsheet/
- https://github.com/juliangaal/python-cheat-sheet/tree/master/NumPy
- https://scipy-lectures.org/

Lectures

- Course website: https://phonchi.github.io/nsysu-math524/materials and Lab
- For the programming patterns: Reference book: *Practical Statistics for Data Scientists 50+ Essential Concepts Using R and Python*
  - Authors: Peter Bruce, Andrew Bruce and Peter Gedeck
  - https://github.com/gedeck/practical-statistics-for-data-scientists

- https://github.com/jakevdp/PythonDataScienceHandbook/tree/v2/notebooks_v2
- https://dafriedman97.github.io/mlbook/content/introduction.html

- Pandas and matplotlib
  - https://pandas.pydata.org/Pandas_Cheat_Sheet.pdf
  - https://matplotlib.org/cheatsheets/
  - https://github.com/shervinea/mit-15-003-data-science-tools
- Statsmodel and Sklearn
  - https://scikit-learn.org/stable/supervised_learning.html#supervised-learning
  - https://scikit-learn.org/stable/model_selection.html
  - https://scikit-learn.org/stable/visualizations.html
  - https://scikit-learn.org/stable/modules/preprocessing.html
  - https://www.statsmodels.org/stable/regression.html
  - https://www.statsmodels.org/stable/generated/statsmodels.regression.linear_model.OLSResults.html
  - https://www.statsmodels.org/stable/generated/statsmodels.stats.outliers_influence.OLSInfluence.html
  - http://rasbt.github.io/mlxtend/

Lab或相關資源的整理!

- https://drive.google.com/drive/folders/1dEy4T7IFHbxq8v0g0ViBWZKRbxPbUF98?usp=sharing
- https://hackmd.io/@phonchi/stats_learning_ex