Runestone Academy's Online Courses

- Available for free, and highly recommended for anyone without prior knowledge of computer programming or Python

➢ Python for Everybody – Interactive
https://runestone.academy/ns/books/published/py4e-int/index.html

➢ How to Think Like a Computer Scientist: Interactive Edition
https://runestone.academy/ns/books/published/thinkcspy/index.html

Other Python Tutorials & Courses

Tutorials

- The Official Python Tutorial. https://docs.python.org/3/tutorial/
- McKinney, W. (2022). Python for data analysis. https://wesmckinney.com/book/

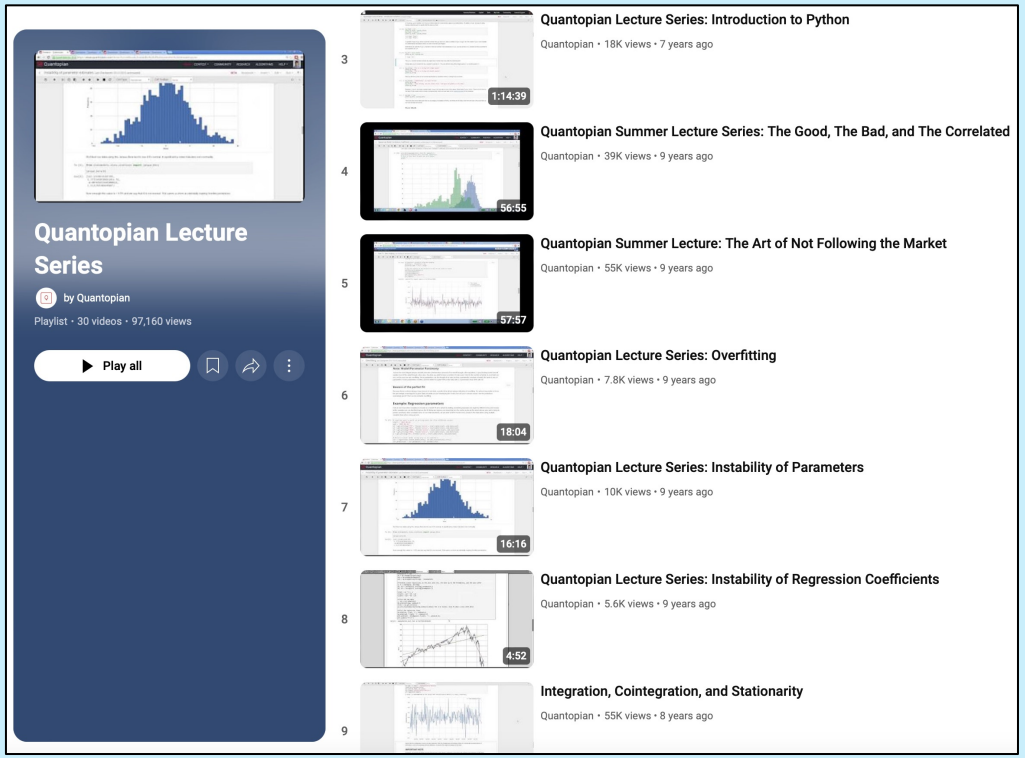
Courses

- Data Analysis with Pandas and Python (Udemy) https://www.udemy.com/course/data-analysis-with-pandas/
- Introduction to Data Science in Python (Coursera) https://www.coursera.org/learn/python-data-analysis
- MITx: Introduction to Computer Science and Programming Using Python (audit access through edX)

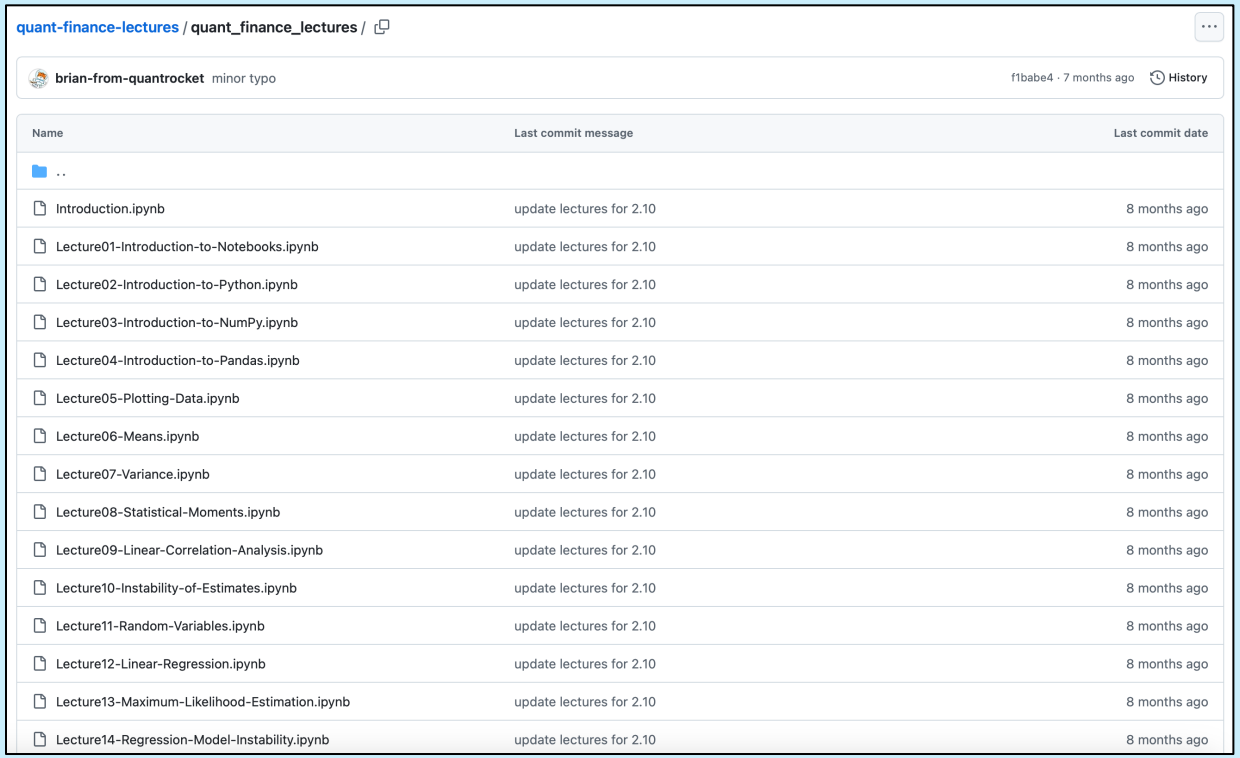
Domain-Focused: Quantitative Finance

Quantopian Lecture Series

- Videos: https://www.youtube.com/playlist?list=PLRFLF1OxMm_UL7WUWM31iynp0jMVf_vLW



- Notebooks: https://github.com/quantrocket-codeload/quant-finance-lectures/tree/master/quant_finance_lectures



Domain-Focused: Quantitative Finance

JPMorgan Python training for business analysts and traders

https://github.com/jpmorganchase/python-training

README Code of conduct Apache-2.0 license

J.P.Morgan

Python Training

This Python training is for JPMorgan business analysts and traders, as well as select clients.

license Apache-2.0 Contact Email

Overview

This course is designed to be an introduction to numerical computing and data visualization in Python. It is not designed to be a complete course in Computer Science or programming, but rather a motivational demonstration of how relatively complex topics can be accessible even to those without formal progamming backgrounds.

This training is designed to be conducted in-person, led by J.P. Morgan technologists and traders. For interested institutional clients, please contact your J.P. Morgan team.

LAUNCH CLOUD INSTANCE

Contributors 7

Languages

Jupyter Notebook 99.1% Other 0.9%

Python Quiz Preparation

- **29th January lab session, in class, first 45 minutes**
- The actual quiz will be similar in structure and content to the Practice Quiz on Canvas (which is not graded and can be retaken as many times as needed)
- After you submit the practice quiz, you'll see the correct answers and step-by-step explanations next to your responses (be sure not to skip any questions, otherwise the explanations will not show)
- This Friday's lab will cover software setup, a light GenAI introduction, the practice quiz, and any additional questions

Python Quiz Preparation

The quiz focuses on **common pitfalls** and **tricky problems** for new programming learners, including (but not limited to):

- Understand the difference between “=” (assignment) and “==” (comparison)
- Know that comparison operators (==, >, <) take precedence over logical operators (and, or, not). Use parentheses () to avoid logical errors, as they always have the highest precedence
- Recognize the difference between v (a single value) and [v] (a list containing one element)
- Understand the distinction between methods like [1,2].extend([3,4]) (mutates the original list) and [1,2] + [3,4] (creates a new list)
- Ensure proper indentation as it defines the code structure and program flow
- Avoid conflicts between global and local variables, especially inside and outside functions