

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



Quantopian Lecture Series
by Quantopian
Playlist • 30 videos • 97,160 views

Quantopian Lecture Series: Introduction to Python
Quantopian • 18K views • 7 years ago

Quantopian Summer Lecture Series: The Good, The Bad, and The Correlated
Quantopian • 39K views • 9 years ago

Quantopian Summer Lecture: The Art of Not Following the Market
Quantopian • 55K views • 9 years ago

Quantopian Lecture Series: Overfitting
Quantopian • 7.8K views • 9 years ago

Quantopian Lecture Series: Instability of Parameters
Quantopian • 10K views • 9 years ago

Quantopian Lecture Series: Instability of Regression Coefficients
Quantopian • 5.6K views • 9 years ago

Integration, Cointegration, and Stationarity
Quantopian • 55K views • 8 years ago

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

quant-finance-lectures / quant_finance_lectures /

brian-from-quantrocket minor typo f1babe4 · 7 months ago History

Name	Last commit message	Last commit date
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Introduction.ipynb	update lectures for 2.10	8 months ago
Lecture01-Introduction-to-Notebooks.ipynb	update lectures for 2.10	8 months ago
Lecture02-Introduction-to-Python.ipynb	update lectures for 2.10	8 months ago
Lecture03-Introduction-to-NumPy.ipynb	update lectures for 2.10	8 months ago
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Lecture11-Random-Variables.ipynb	update lectures for 2.10	8 months ago
Lecture12-Linear-Regression.ipynb	update lectures for 2.10	8 months ago
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Lecture14-Regression-Model-Instability.ipynb	update lectures for 2.10	8 months ago

Domain-Focused: Quantitative Finance

**JPMorgan
Python
training for
business
analysts
and traders**

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

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J.P.Morgan

Python Training

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

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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 programming 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**

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