Python
Exclusive Resources

Curated by
JU Computer Club

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ONE

01

FREECODECAMP

FREECODECAMP PYTHON CERTIFICATION

Python Certifications

Type: Course

All of the lessons and projects are publicly available. You don't even need to create a freeCodeCamp account to access them. But if you want to save your progress and eventually earn certifications, you will need to create an account.

go to https://www.freecodecamp.org/learn/

or click on the link given on the right

- Scientific Computing w/Python Certification
- Data Analysis w/Python Certification
- Machine Learning w/Python Certification

freeCodeCamp

Scientific Computing with Python Projects - Arithmetic Formatter

Create a function that receives a list of strings that are arithmetic problems and returns the problems arranged vertically and side-by-side.

You can access the full project description and starter code on repl.it.

After going to that link, fork the project. Once you complete the project based on the instructions in 'README.md', submit your project link below.

We are still developing the interactive instructional part of the Python curriculum. For now, here are some videos on the freeCodeCamp.org YouTube channel that will teach you everything you need to know to complete this project:

- Python for Everybody Video Course (14 hours)
- Learn Python Video Course (2 hours)

Solution

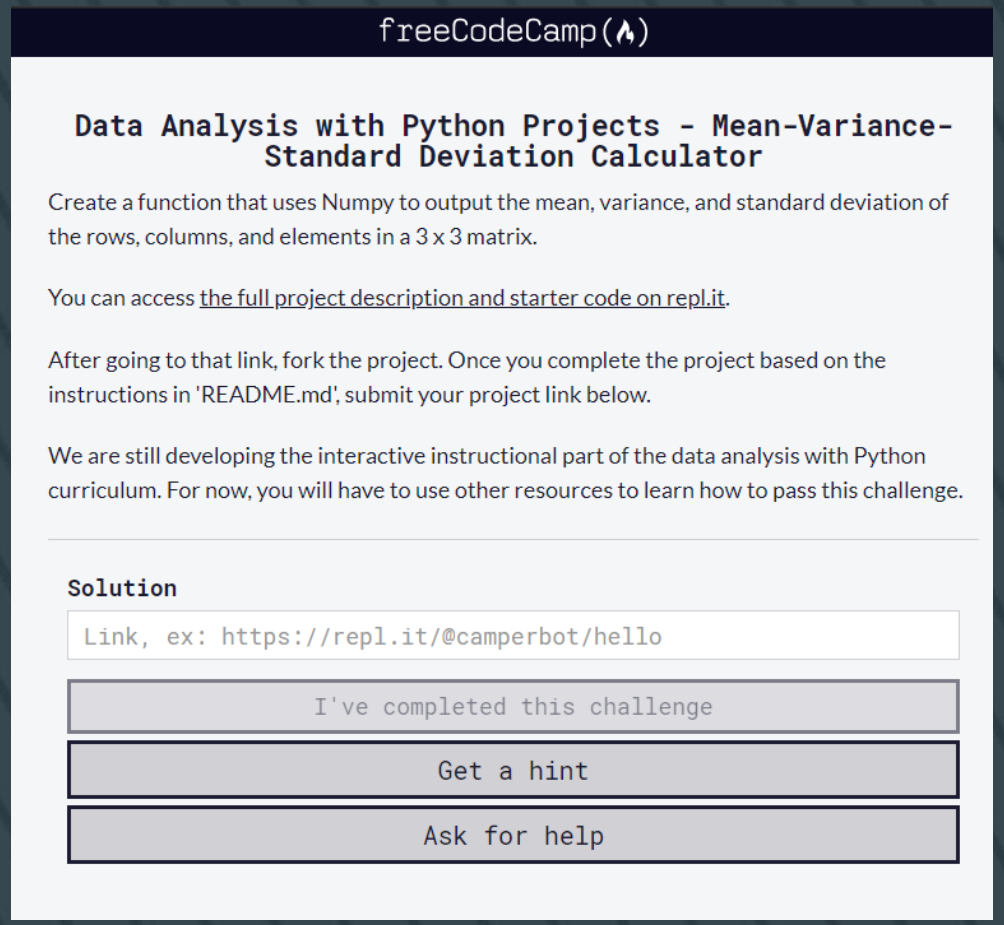
Link, ex: https://repl.it/@camperbot/hello

I've completed this challenge

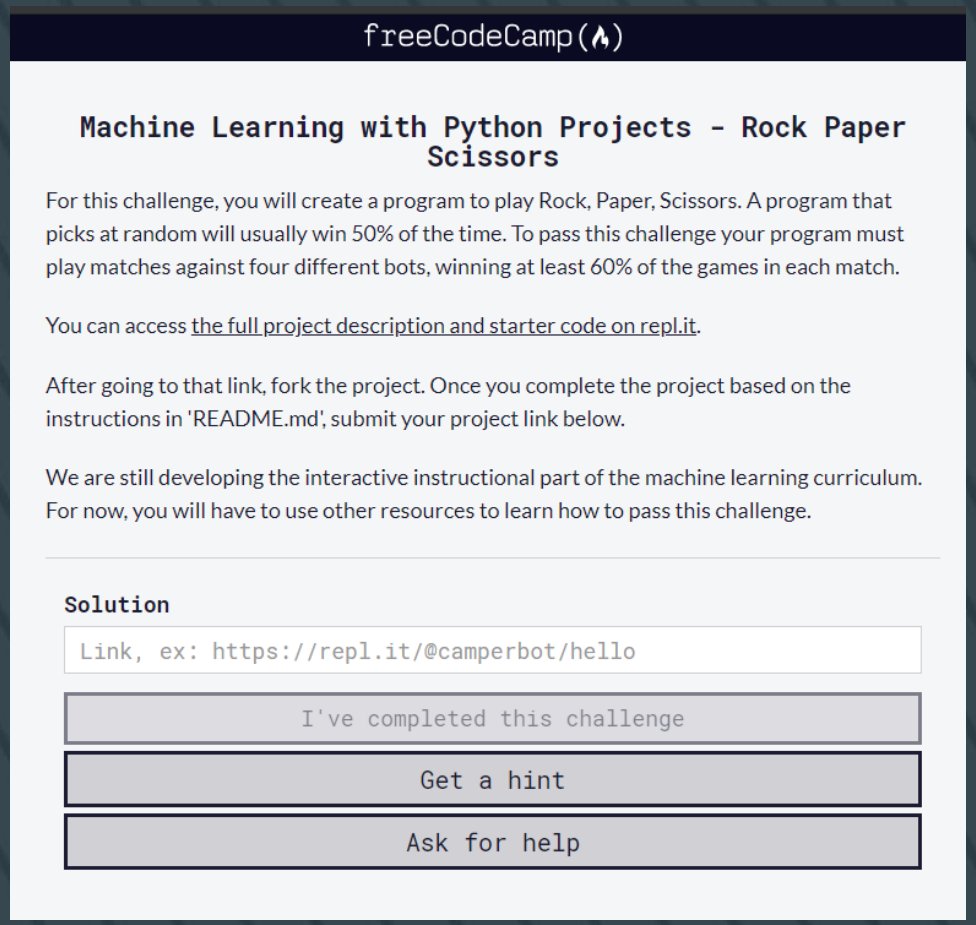
Get a hint

Ask for help

Certification Course 1



Certification Course 2



Certification Course 3

TWO

02

YouTube

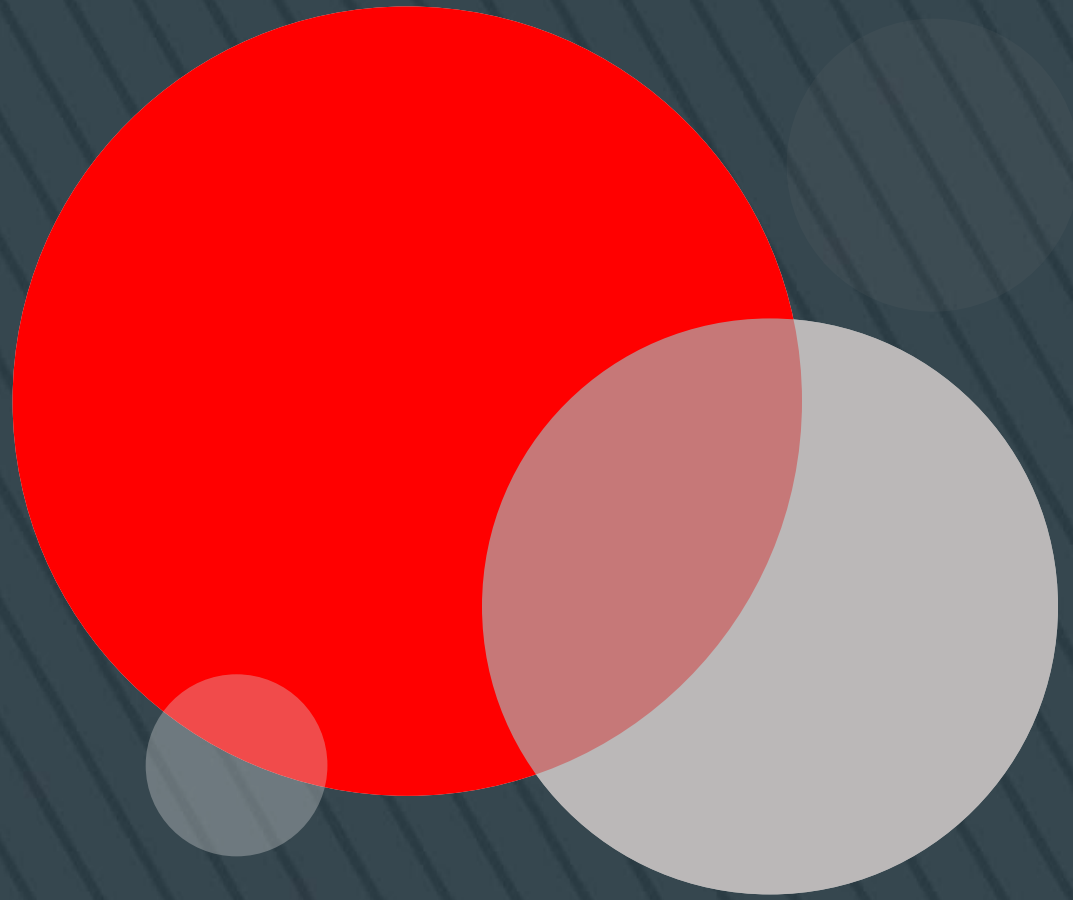
Playlist

YouTube Playlist

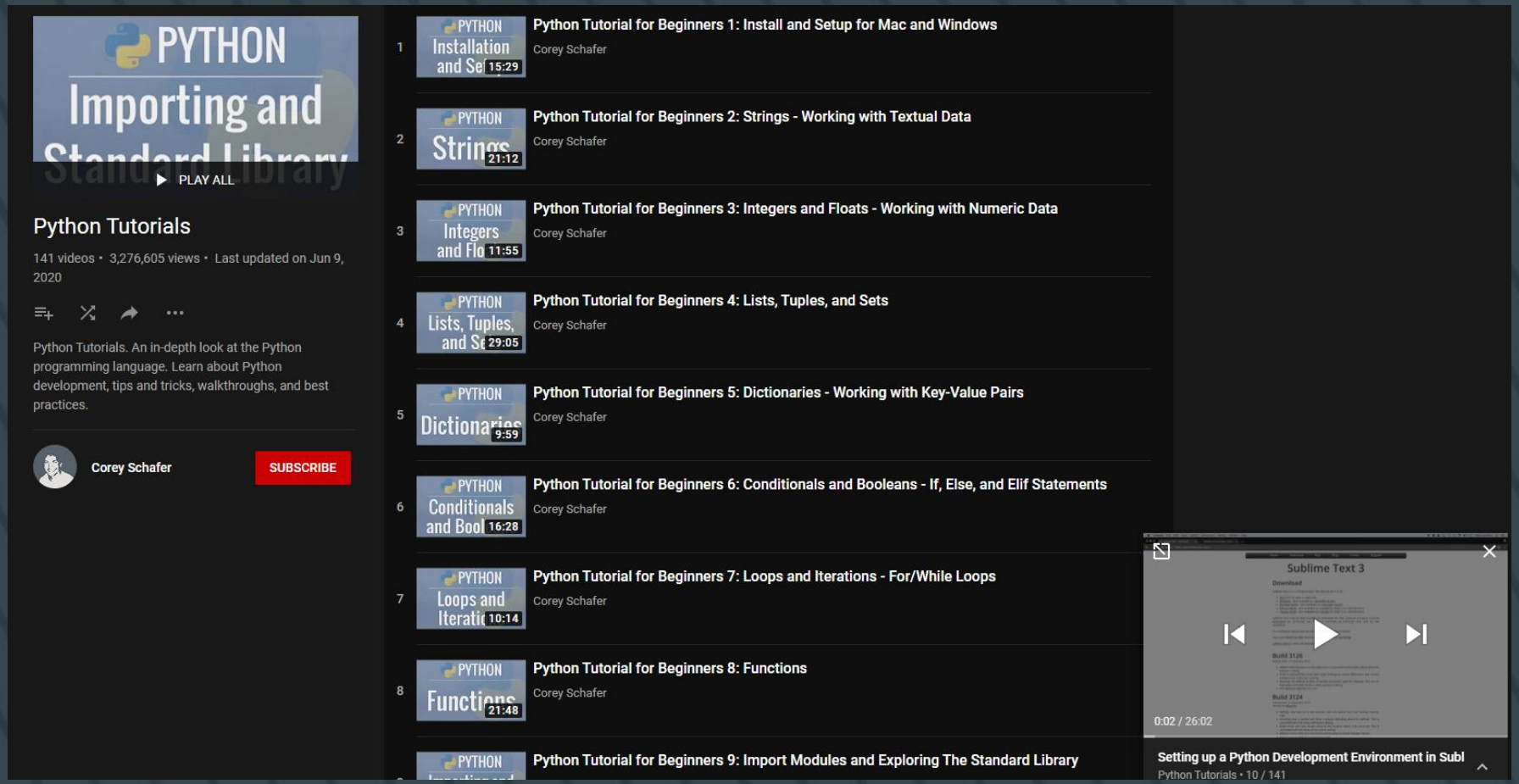
Python Tutorials

Type: Tutorial

A playlist on YouTube by Corey Schafer. It's an in-depth look at the Python programming language. You can learn about Python development, tips and tricks, walkthroughs, and best practices from here.



click here go to https://www.youtube.com/playlist?list=PL-osiE80TeTt2d9bfVyTiXJA-UTHn6WwU


PYTHON
Importing and
Standard Library
PLAY ALL
Python Tutorials
141 videos • 3,276,605 views • Last updated on Jun 9, 2020
Python Tutorials. An in-depth look at the Python programming language. Learn about Python development, tips and tricks, walkthroughs, and best practices.
Corey Schafer
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1 Python Tutorial for Beginners 1: Install and Setup for Mac and Windows
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4 Python Tutorial for Beginners 4: Lists, Tuples, and Sets
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5 Python Tutorial for Beginners 5: Dictionaries - Working with Key-Value Pairs
Corey Schafer
9:59
6 Python Tutorial for Beginners 6: Conditionals and Booleans - If, Else, and Elif Statements
Corey Schafer
16:28
7 Python Tutorial for Beginners 7: Loops and Iterations - For/While Loops
Corey Schafer
10:14
8 Python Tutorial for Beginners 8: Functions
Corey Schafer
21:48
Python Tutorial for Beginners 9: Import Modules and Exploring The Standard Library
Sublime Text 3
0:02 / 26:02
Setting up a Python Development Environment in Subl
Python Tutorials • 10 / 141

THREE

03

Misc Courses

Misc Courses

01

Programming for Everybody (Getting Started with Python)
Offered by: University of Michigan

Machine Learning Course Online: Python Data Structures
Offered by: University of Michigan

02

03

Python for Beginners – Learn Python Programming
Offered by: Programming with Mosh

Introduction to Data Science in Python
Offered by: University of Michigan

04

05

Become a Python Data Analyst
Offered by: Packt Publishing

Browse > Computer Science > Software Development

This course is part of the **Python for Everybody Specialization**

Programming for Everybody (Getting Started with Python)

★★★★★ 4.8 133,118 ratings | 98% Share

Charles Russell Severance TOP INSTRUCTOR

Enroll
Starts Jul 10

1,540,535 already enrolled

Offered By

UNIVERSITY OF MICHIGAN

This course covers-

- Installing Python and write your first program
- The basics of the Python programming language
- Usage of variables to store, retrieve and calculate information
- Utilization of core programming tools such as functions and loops

Click here or go to https://coursera.org/share/fc9b748983a12111ffe874928378f224

Browse > Computer Science > Software Development

This course is part of the **Python for Everybody Specialization**

Python Data Structures

4.9 62,618 ratings | 98% Share

Charles Russell Severance TOP INSTRUCTOR

Enroll
Starts Jul 10

513,400 already enrolled

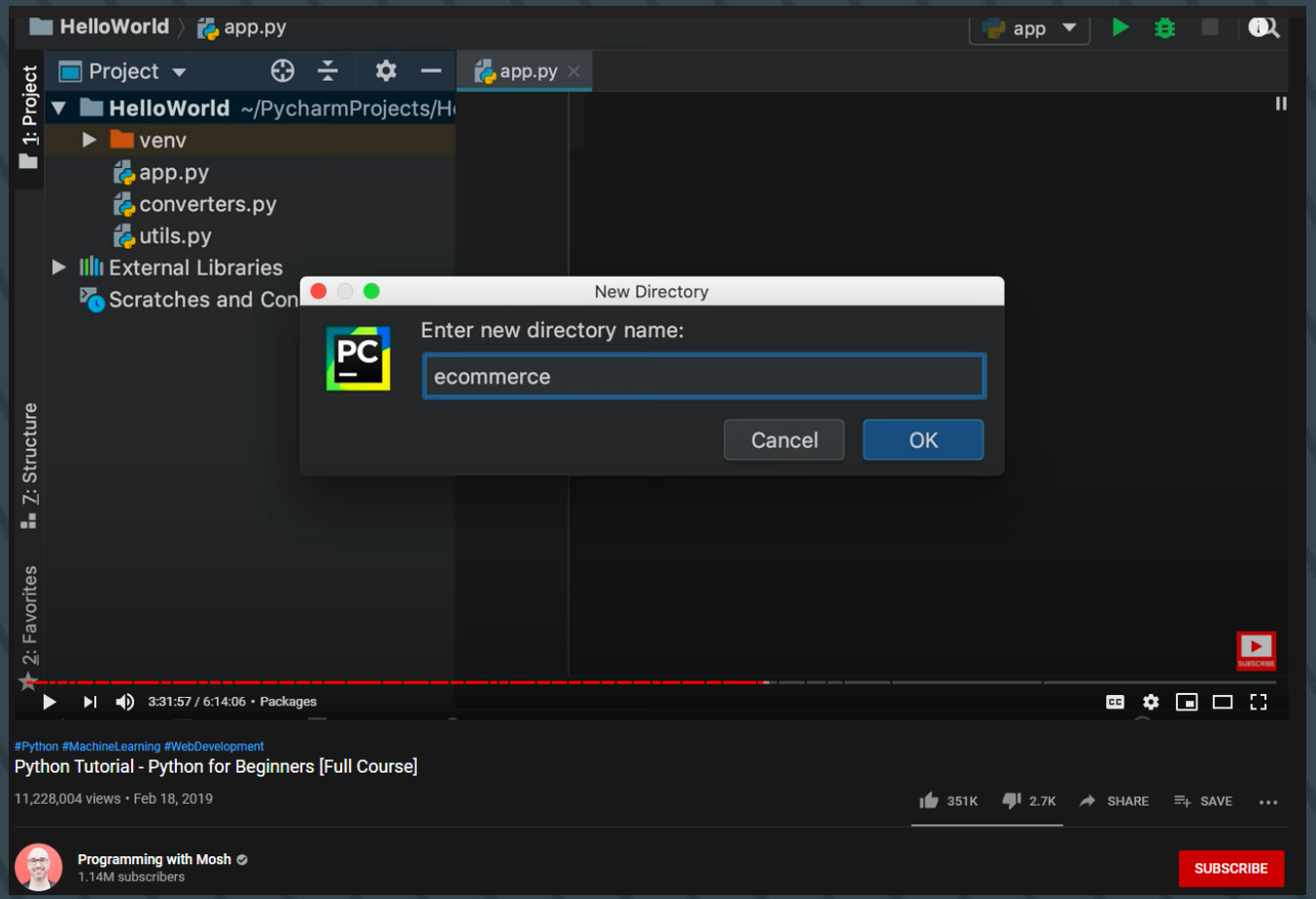
Offered By

UNIVERSITY OF MICHIGAN

After completion, you'll be able to-

- Explain the principles of data structures & how they are used
- Create programs that are able to read and write data from files
- Store data as key/value pairs using Python dictionaries
- Accomplish multi-step tasks like sorting or looping using tuples

Click here or go to https://coursera.org/share/967c87b8be224c97b1ea6988a78b2f65



Python Tutorial - Python for Beginners
Type: Tutorial

This tutorial includes-

- Python fundamentals- variable and data structures
- Mathematical operations, conditional statements and loops
- Object oriented programming
- 3 projects involving Django

Click here or go to:
https://youtu.be/_uQrJ0TkZlc

Browse > Data Science > Data Analysis

This course is part of the **Applied Data Science with Python Specialization**

Applied Machine Learning in Python

4.6 5,882 ratings | 91% Share

Kevyn Collins-Thompson

Enroll
Starts Jul 10

170,905 already enrolled

Offered By

UNIVERSITY OF MICHIGAN

After completion, you'll be able to-

- Describe how machine learning is different than descriptive statistics
- Create and evaluate data clusters
- Explain different approaches for creating predictive models
- Build features that meet analysis needs

Click here or go to https://coursera.org/share/60ee2fb69f15684a84abd78123f91368

Become a Python Data Analyst

Take your data analytics and predictive modeling skills to the next level using the popular tools and libraries in Pytho

4.0 (387 ratings) 3,149 students enrolled

Created by Packt Publishing Last updated 6/2017 English English [Auto]

Click here or go to https://www.udemy.com/share/101rag/

What you'll learn

- Learn about the most important libraries for doing Data Science with Python and how they can be easily installed with the Anaconda distribution.
- Understand the basics of Numpy which is the foundation of all the other analytical tools in Python.
- Produce informative, useful and beautiful visualizations for analyzing data.
- Analyze, answer questions and derive conclusions from real world data sets using the Pandas library.
- Perform common statistical calculations and use the results to reach conclusions about the data.
- Learn how to build predictive models and understand the principles of Predictive Analytics

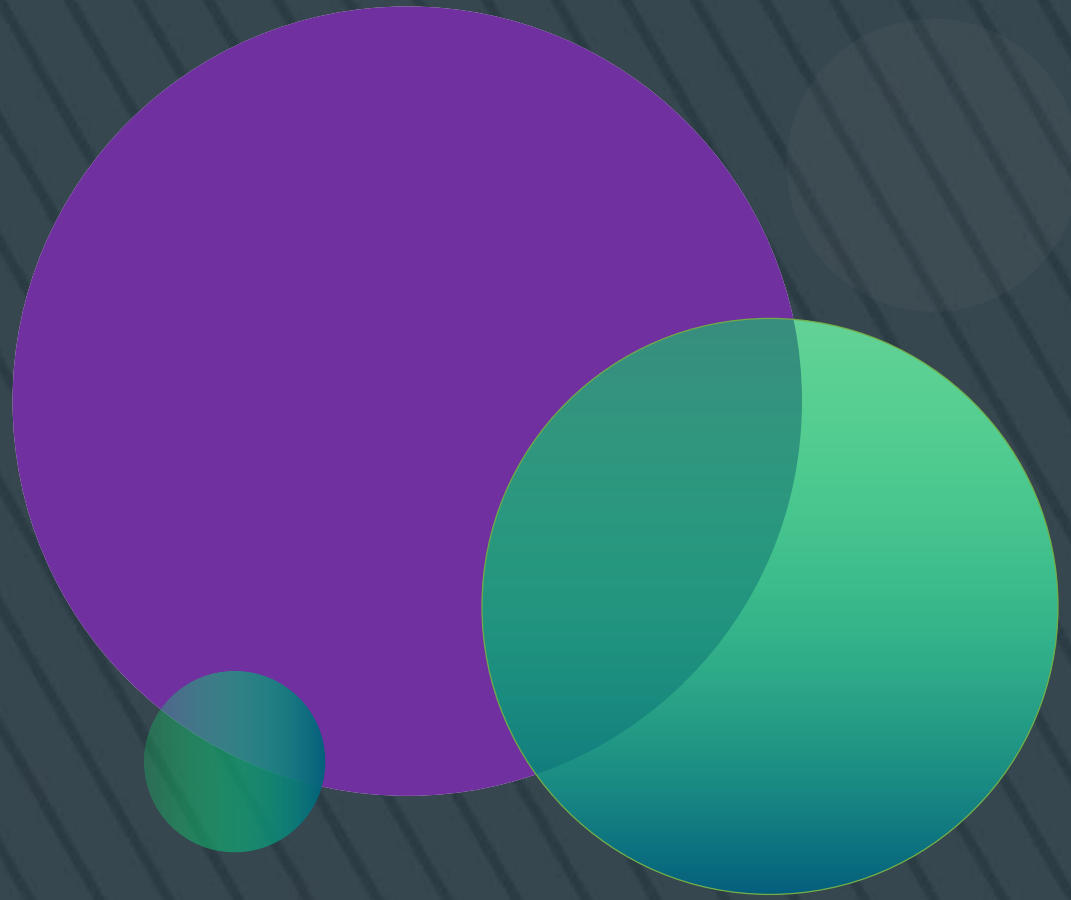
FOUR

04

JetBrains Academy

Python Track

JeBrains Academy: Python Track



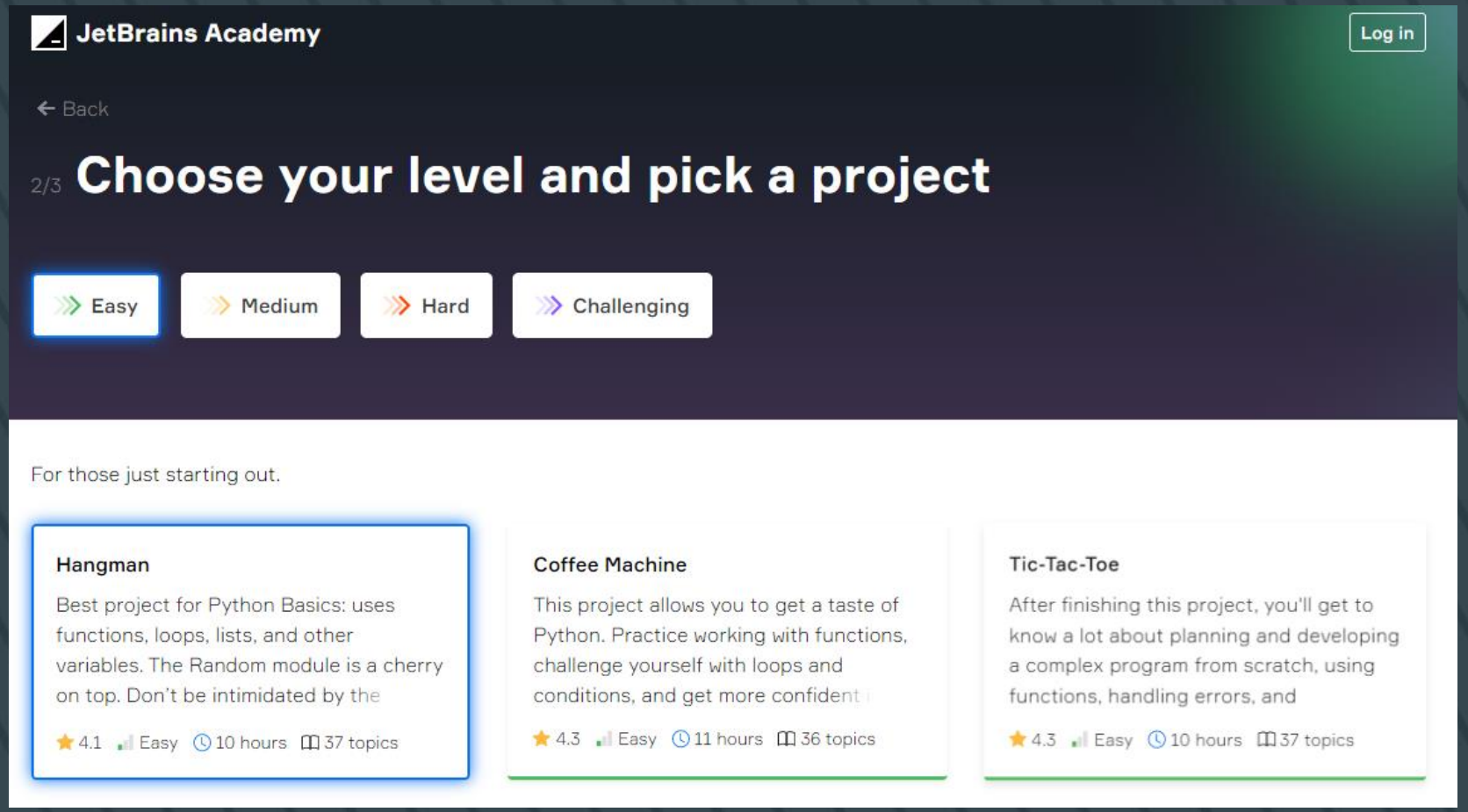
Python Track

Type: Course

The full Python track takes 75 hours to complete on average.

It covers the basic syntax of Python, and an introduction to some standard libraries. It also has the Django framework, which is used to build web applications.

Click here or go to https://hyperskill.org/join/0d3d08ee6?


JetBrains Academy
Log in
Back
2/3 Choose your level and pick a project
Easy
Medium
Hard
Challenging
For those just starting out.
Hangman
Best project for Python Basics: uses functions, loops, lists, and other variables. The Random module is a cherry on top. Don't be intimidated by the
4.1 Easy 10 hours 37 topics
Coffee Machine
This project allows you to get a taste of Python. Practice working with functions, challenge yourself with loops and conditions, and get more confident
4.3 Easy 11 hours 36 topics
Tic-Tac-Toe
After finishing this project, you'll get to know a lot about planning and developing a complex program from scratch, using functions, handling errors, and
4.3 Easy 10 hours 37 topics