



Using Python to Interact with the Operating System

Google

Course Material

- Week 1
- Week 2
- Week 3
- Week 4
- Week 5
- Week 6
- Week 7

Grades

Notes

Discussion Forums

Messages

Resources

Course Info

Getting Your Python On

1h 15m of videos left 40 min of readings left

In this module, you'll learn about the different types of operating systems, and how you can get your python code ready to interact with the operating system. We'll learn about getting your environment set up and installing additional Python modules that will help you along the way. We'll rundown interpreted versus compiled language, and how they differ from each other. We'll dive into the benefits of automation, and point out common pitfalls so you can avoid them. Finally, we'll learn about Qwiklabs, which will be used for graded assessments.

Learning Objectives

- Identify the components and functions of an operating system
- Describe the difference between interpreted and compiled programming languages
- Explain what an IDE (integrated development environment) is
- Install and run Python on a local machine
- List the benefits and pitfalls of automation

Hide Learning Objectives

Course Introduction

- ▶

Course Introduction
Video • 6 min

Get started
- ⌘

Welcome to the Course
Reading • 10 min
- 💬

Meet & Greet
Discussion Prompt • 10 min

Getting Ready for Python

- ▶

Intro to Module 1: Getting Your Python On
Video • 2 min
- ▶

Getting Familiar with the Operating System
Video • 6 min
- ▶

Getting Your Computer Ready for Python
Video • 4 min
- ▶

Setting up Your Environment on Windows (Optional)
Video • 4 min
- ▶

Setting up Your Environment on MacOS (Optional)
Video • 5 min
- ▶

Setting up Your Environment on Linux (Optional)
Video • 8 min
- ⌘

Pointers for Getting Your Environment Setup
Reading • 10 min
- 📖

Practice Quiz: Getting Ready for Python
Practice Quiz • 5 questions

Running Python Locally

- ▶

Interpreted vs. Compiled Languages
Video • 2 min
- ▶

How to Run a Python Script
Video • 6 min
- ▶

Your Own Python Modules
Video • 5 min
- ▶

What is an IDE?
Video • 4 min
- ⌘

Setting up Your Environment
Reading • 10 min
- 📖

Practice Quiz: Running Python Locally
Practice Quiz • 5 questions

Automating Tasks Through Programming

- ▶

Benefits of Automation
Video • 4 min
- ▶

Pitfalls of Automation
Video • 6 min
- ▶

Practical Automation Example
Video • 7 min
- ⌘

Is it worth the time?
Reading • 10 min
- 📖

Practice Quiz: Automation
Practice Quiz • 5 questions

Module Review

- ▶

Module 1 Wrap Up: Getting Your Python On
Video • 1 min
- 💬

Discussion Prompt
Discussion Prompt • 10 min