

Python Quick Start

GoSkills online course syllabus

Skill level

Beginner

Lessons

28

Pre-requisites

No prior experience needed

Video duration

1h 48m

Estimated study time

1h 48m

Instructor

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Introduction

1 Advancing your career with Python

Python is a powerful programming language you can use to get started in the world of programming.

Defining Python

2 Demystifying Python

Python is one of the most used and fastest growing programming languages, and it's a great way to enter into the world of programming.

3 Starting with Python

Python is a great first language to start with for several reasons.

4 Comparing Python vs. Java

Another commonly taught language in introductory programming courses is Java.

5 Harnessing the power of Python

Python is versatile, and building your Python skills can set you up for future opportunities in programming.

Working with Data in Python

6 Setting up your Python environment

There are a few things you'll want to have in place on your device to ensure you can work effectively with Python.

7 Sorting your types of data

Categorizing data into different types helps you organize information and solve problems.

8 Storing data using variables

You'll naturally need to keep track of the data or information you find, but as your datasets grow, it becomes tougher to remember and keep track of things.

Using Functions in Python

9 Defining functions in Python

You may be familiar with functions in math, and functions in programming are structured similarly.

10 Using built-in functions in Python

There are many useful functions that have already been created in Python that are ready for you to use.

11 Building your own functions

While there are cool built-in functions, you'll often need to create your own functions to complete a certain task or solve a specific problem.

12 Distinguishing types of functions

Recognizing the different forms that a function can have is critical to defining and using functions in your programs.

13 Using modules in Python

Modules contain code that has already been written, and being able to reuse them is a critical programming skill.

Leveraging Sequences in Python

14 Defining sequences

Sequences allow you to store collections of data.

15 Using lists in Python

A list is a commonly used type of sequence. After watching this video, you'll be able to create lists in Python.

16 Leveraging tuples in Python

A tuple is a common form of a Python sequence. After this lesson, you'll be able to utilize tuples when working in Python.

Using Conditional Statements in Python

- 17** **Defining conditional statements**
Conditional statements help you control the computer's actions by dictating the terms of a function.
- 18** **Working with if statements**
An if statement is used to evaluate if something is true or false across your data in Python.
- 19** **Using If-else statements**
An if-else statement is a common conditional statement that allows you to do things like skip sections of code from your evaluation in Python.
- 20** **If-elif and if-elif-else statements**
If-elif and if-elif-else statements are conditional statements used to navigate code blocks that feature two alternatives.

Working with Iteration in Python

- 21** **Defining iteration**
Iteration enables the computer to repeatedly perform tasks when working in Python.
- 22** **Using a for loop**
A for loop is a means you can use to achieve iteration. After watching this video, you'll be able to explain what a for loop is and write a for loop.
- 23** **Writing a while loop**
A while loop is a means you can use to achieve iteration.

Using Recursive Functions in Python

- 24** **Demystifying recursive functions**
Recursive functions are important in programming.
- 25** **Navigating a recursive function**
Many recursive functions share a particular anatomy.

Object Oriented Programming in Python

26 **What is Object Oriented Programming?**
Python supports Object Oriented Programming (OOP), a useful approach to programming.

27 **Applying Object Oriented Programming**
There are several ways that OOP can be applied which are helpful when getting started with programming.

Conclusion

28 **Next steps**
Thanks for watching this course!

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