

Introduction to Python

GoSkills online course syllabus

Skill level Lessons Accredited by

Beginner 41 CPD

Pre-requisites Video duration Estimated study time

No prior experience needed 3h 1m 5h 5m

Instructor

John Elder

Intro and Setup

Install Sublime and Git Bash Terminal

We'll start off by installing the Sublime Text editor and the Git Bash Terminal.

Installing Python

We'll download and install Python.

First Program

Let's create our first program.

✓ Comments and C9 Transition

Learn when and how to use comments in your code.

Python Basics

5 Variables

What is a variable and how can you name them?

Data Types

We'll look at data types including numbers, strings, lists, tuples, and dictionaries.

7 Strings What is a string?

Q	String Manipulation
O	How to manipulate strings.

Math Operators

How to do basic math in Python.

1 Numbers

What's the difference between a floating point number and an integer?

1 1 Assignment Operators

What are the different assignment operators and how are they used.

19 Lists

What are lists and how do we use them?

1 2 Lists of Lists

We'll look at multidimensional lists, or - lists of lists.

1 / Tuples

What is a tuple and how is it different from a list?

1 C Dictionaries

What is a dictionary and how do we use them?

Intermediate Python

1 C Data Type Conversion

How to convert one data type into another data type.

17 Comparison Operators

How to compare two things.

Conditionals If/Else/Elif

Using comparison operators to make decisions.

10	Multiple Conditionals What are the logical operators AND/OR/NOT and how do we use them?
19	What are the logical operators AND/OR/NOT and how do we use them?

- Python Formatting
 Formatting in Python is important! Let's look at lines and indentation, and single line If statements.
- 21 Membership Operators
 We'll look at the membership operators "In", and "Not In".
- 22 Identity Operators

 We'll look at the identity operators "Is", and "Is Not".
- While Loops
 Learn to loop using a While loop.
- For Loops
 Learn to loop using a For loop.
- 25 Loop Control Statements

 Take control of your loops using "break", "continue", and "pass".
- 26 FizzBuzz!

 Let's build a FizzBuzz app!
- Functions Part 1
 What are functions and how to use them.
- Functions Part 2

 More about functions and how to use them.
- Program Flow
 Understanding Program Flow in Python, and how functions can change that flow.
- Random Numbers

 How to create and use random numbers.

31	Using third party modules in your code, and creating your own.
32	Getting User Input Allow the user to interact with your program with raw_input and input.
33	Opening and Closing Files How to open and close a file with Python.
34	Reading and Writing Files How to read and write to a file with Python.
35	Renaming and Deleting Files How to rename and delete a file with Python.
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nuvai	nced Python
36	Overview of Classes and Object Oriented Programming What are classes and what are they used for.
36 37	Overview of Classes and Object Oriented Programming
363738	Overview of Classes and Object Oriented Programming What are classes and what are they used for. Creating a Class Part 1
36373839	Overview of Classes and Object Oriented Programming What are classes and what are they used for. Creating a Class Part 1 How to create a simple class. Creating a Class Part 2
36 37 38 39 40	Overview of Classes and Object Oriented Programming What are classes and what are they used for. Creating a Class Part 1 How to create a simple class. Creating a Class Part 2 More about creating simple classes. Creating A Class Part 3

Using other classes inside of your class.