

# Getting Started with Python 3

Learn Python 3 from scratch with this entry-level training designed for new developers. Discover the fundamentals of Python programming, including functions, object-oriented principles, debugging, and data structures. By the end of this course, you'll be able to write professional-level Python code for web, GUI, and game development, no prior experience required.

[CBT Nuggets course material](#) →

## WEEK 1

### Introduction to Programming and Python

158 min.

Supplemental File	1
Wherefore Art Thou Programming?	8
Compiling Code into Executables	11
Installing Python 3	8
Configuring the PATH variable	7
Choosing a Code Editor	13
Writing our First Program	5

### Introduction to the Python Language

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Preparing Our Coding Environment	13
Basic Python Vocabulary	14
Our First Programming Steps	9
Good Programming Techniques	10

### Python Variables and Data Types

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Understanding Variables	13
Understanding Python Data Types	13
Casting Data Types	9
Python Literals	8
Putting it All Together	10

## WEEK 2

165 min.

## Python Operators

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Arithmetic Operators	12
Relational Operators	9
Combination, String, and Bitwise Operators	10
Making Change	9

## Basic Input and Output with Python

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Basic Input and Output	1
Output with Print	12
Print Parameters Sep, End, and File	9
Getting data with Input	7
Using fileinput to Read Files	7
Formatting Text Output	9
Putting Input and Output to Use	5

## Conditionals and Loops in Python

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Branching Code with Conditionals	11
Iterating Code with While Loops	7
Iterating Code with For Loops	10
Conditional and Loop Control	9
Creating the Game Hangman	17

## WEEK 3

## Understand Python Strings

158 min.

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Storing and Manipulating Strings	13
Encoding Strings with ASCII, Unicode, and UTF-8	16
Escape Characters for Strings	11
Operators and String Functions	12

## Lists and Dictionaries in Python

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Lists and Dictionaries in Python	1
Ordering Values in Lists	15
Named Values in Dictionaries	9
Working with Dictionaries	12
Using Collections in Practice	17

## Introduction to Functions in Python

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Supplemental Files	1
Introduction to Functions in Python	1
Invoking Functions	8
Importing Functions	11
Defining Functions	14
Lambda Functions	8

## WEEK 4

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59 min.

Recursive Functions 8

### Importing and Using Modules in Python

Overview 1

Supplemental File 1

Importing Modules 8

Using Import and Modules 14

Installing Packages with Pip 13

Writing Modules 12