Complete Python / Practical Python Programming Boot Camp

Code:	TTPS4820
Length:	5 days
URL:	View Online

A core component of our Python Journey series, the Complete Python / Practical Python Boot Camp, is a highly rated training course that has helped thousands of students get up and running with solid, practical Python skills, enabling them to leverage Python on the job. You'll be able to use Python to automate or simplify day to day common tasks with the use of Python scripts, or learn how to use Python for web development. You'll have a solid foundation to build additional skills around using Python for analytics, data science or machine learning, or advanced web development.

This introductory-level course leads you from the basics of writing and running Python scripts, to more advanced core features such as file operations, regular expressions, working with binary data, as well as using the extensive functionality of Python modules. Extra emphasis is placed on features unique to Python, such as tuples, array slices, and output formatting. This comprehensive, practical course provides you with an in-depth exploration of working with the programming language, not just an academic overview of syntax and grammar. You'll exit this course immediately able to use Python scripting to complete tasks in the real world.

This course combines expert lecture, real-world demonstrations and group discussions with machine-based practical labs and exercises. Our engaging instructors and mentors are highly experienced practitioners who bring years of current "on-the-job" experience into every classroom. Throughout the hands-on course, you'll learn to write essential Python scripts using the most current and efficient skills, best practices and techniques.

Skills Gained

Working within in an engaging, hands-on learning environment, guided by our expert instructor, students will learn to:

- Create working Python scripts following best practices
- Use python data types appropriately
- Read and write files with both text and binary data
- Search and replace text with regular expressions
- Get familiar with the standard library and its work-saving modules
- Use lesser known but powerful Python data types
- Create "real-world", professional Python applications
- Work with dates, times, and calendars
- Know when to use collections such as lists, dictionaries, and sets
- Understand Pythonic features such as comprehensions and iterators
- Write robust code using exception handling

Who Can Benefit

This in an introductory-level Python course geared for experienced users who want to use Python in web development

projects, or system administrators and web site administrators who want to use Python to support their server installations, as well as anyone else who wants to automate or simplify common tasks with the use of Python scripts.

Prerequisites

Basic familiarity with any programming or scripting language would be helpful, along with a working, user-level knowledge of Unix/Linux, Mac, or Windows.

Course Details

Course Outline

- Quick Intro to Python
- Setting up the Python Environment
- Getting Started
- Flow Control
- Array Types
- Working with files
- Dictionaries and Sets
- Functions
- Sorting
- Errors and Exception Handling
- Modules and Packages
- Object Oriented Programming & Classes
- Regular Expressions
- Splitting strings
- Dates and times
- Working with the file system
- Advanced data handling
- Network programming
- Writing real-life applications

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