

It's not the syllabus or the slides, it's the trainer experience!

Python

5 days 40 hours

Abstract

Python is a general purpose, efficient, fast, common, interoperable and easy programming language. Its extensibility and its huge repository of libraries and packages and its wide community support makes Python an ideal RAD (Rapid Application Development) System. This course intended for programmers will cover the basic as well as several advances features of the Python language and environment. The course is Python 3 oriented but covers also the differences between Versions 3 and 2 when appropriate. The course is full of Demos, Code walks and Practical Labs based on real life experience using Python in the field.

Workshop Targets

- Teach programmers how to program in Python the Python way.

Target Audience

- Experienced programmers interested in learning Python.

Prerequisites

- At least 1 years of experience in procedural or OO languages such as C, C++, C#, Java etc.
- Knowledge of Object oriented concepts and terminology.
- No previous knowledge of Python is either required or assumed (If you already knows Python this course is **not** for you)

Topics

- Introduction to Python
- Data Types
- Control flow
- Functions
- Classes and objects
- I/O
- Error handling and exceptions
- Interacting with the Operating system
- Advanced techniques introduction (Iterators, Generators, Decorators, etc.)
- Common public Python packages and their usage
- Python syntax
- Expressions
- Statements
- Modules and Packages
- Debugging
- Regular Expressions
- Interop with other languages
- Multi-tasking and parallel execution
- Python standard libraries
- Building Libraries and Packages
- Support tools