



Python Training

Training Topics

Introduction

- Why do we need Python?
- Program structure

Execution steps

- Interactive Shell
- Executable or script files.
- User Interface or IDE

Memory management and Garbage collections

- Object creation and deletion
- Object properties

Data Types and Operations

- Numbers
- Strings
- List
- Tuple
- Dictionary
- Other Core Types

Statements and Syntax

- Assignments, Expressions and prints
- If tests and Syntax Rules
- While and For Loops
- Iterations and Comprehensions



File Operations

- Opening a file
- Using Files
- Other File tools

Functions

- Function definition and call
- Function Scope
- Arguments
- Function Objects
- Anonymous Functions

Modules and Packages

- Module Creations and Usage
- Module Search Path
- Module Vs. Script
- Package Creation and Importing

Classes

- Classes and instances
- Classes method calls
- Inheritance and Compositions
- Static and Class Methods
- Bound and Unbound Methods
- Operator Overloading
- Polymorphism



Exception Handling

- Default Exception Handler
- Catching Exceptions
- Raise an exception
- User defined exception

Advanced Concepts

- Decorators
- Generators
- Iterators
- Co-routines
- Standard Library Modules



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