



Python for Beginners - 40 Hours

Overview:

Python is good for a very wide range of uses. It is completely objectoriented, so large and complex applications can also be written in it.

The Python language is easy to learn, has an elegant and clear syntax, and yet contains many efficient mechanisms for quickly writing code.

Python interfaces with diverse graphical interfaces, and contains many modules for every use.

This course will give you the all the knowledge to program in Python.

Outline

Introduction and basic data types

- The uses of Python
- Static vs. Managed Vs. Dynamic Languages
- Development Tools
- python data: everything is an object
- Numbers: int, float
- Strings: the str type
- Boolean: the bool type
- Basics of lists
- Input & Output



Control Flow structures

- if statement
- for loops
- range type and the range() function
- break and continue
- pass keyword
- while loops

Functions

- defining functions with the def keyword
- default values for parameters
- keyword arguments
- arbitrary argument lists
- unpacking argument lists
- lambda expressions
- nested functions and closures
- Scopes: using the global keyword

Data Structures

- Python lists (The del statement)
- Looping with in
- Python dictionaries
- Python tuples
- Python sets

Modules & Packages

- Creating modules in a separate file
- Importing complete modules
- Importing from modules
- Module search path
- "compiling" modules
- The standard library
- dir() function
- Packages



Input/Output

- Using formatted printing
- opening files
- reading and writing text
- Reading and Writing JSON

Errors and Exceptions

- Errors & Exceptions
- Handling Exceptions
- Raising Exceptions
- User defined Exceptions
- Cleanup actions with finally

Classes

- Python namespaces
- Class definition, class object
- Instance Objects
- Method Objects
- Class variables and instance variables
- Inheritance
- Iterators
- Generators

Python Project



מבין לקוחותינו:









































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