

Introduction to Python

PDF Version

Overview

Environment Setup

Python is general-purpose interpreted, interactive, objectoriented, and high-level programming language. It was created by Guido van Rossum during 1985-1990. Like Perl, Python source code is also available under the GNU General Public License (GPL). This tutorial gives enough understanding Python on programming language.

Why to learn Python?

Python is a high-level, interpreted, interactive and object-oriented scripting language. Python designed to be highly readable. It uses English keywords frequently where as other languages punctuation, and it has fewer syntactical constructions than other languages.

Python is a MUST for students and working professionals to become a great Software Engineer specially when they are working in Web Development Domain. I will list down some of the key advantages of learning Python:

You do not need to compile your program before executing it. This is similar to PERL and PHP.

- Python is Interactive –
 You can actually sit at a
 Python prompt and
 interact with the
 interpreter directly to write
 your programs.
- Python is Object Oriented Python
 supports Object-Oriented
 style or technique of
 programming that
 encapsulates code within
 objects.
- Python is a Beginner's
 Language Python is a
 great language for the
 beginner-level
 programmers and
 supports the development
 of a wide range of
 applications from simple
 text processing to WWW
 browsers to games.

Characteristics of Python

Here are some of the important characteristics of Python Programming:

 It supports functional and structured programming methods as well as OOP.

be complied to byte-code for building large applications.

- It provides very high-level dynamic data types and supports dynamic type checking.
- It supports automatic garbage collection.
- It can be easily integrated with C, C++, COM, ActiveX, CORBA, and Java.

Hello World using Python

Just to give you a little excitement about Python, I'm going to give you a small conventional Python Hello World program.

You can try it by writing this code in our code editor.

print ("Hello, Python!");

Applications of Python

As mentioned before, Python is one of the most widely used language over the web. I'm going to list a few of the applications of python proramming:

- Web Development
- Game Development
- Scientific and Numeric Applications



- Desktop Gul
- Software Development
- Enterprise-level / Bussiness Applications
- Education programs and training courses
- Language Development
- Operating Systems
- Web Scrapping Applications
- Image Processing and Graphic Design Applications

PDF Preview

Next Page >

CodeRun

A platform where coders and non-coders can learn programming easily with practice.

in





Python - Basic

Basic Syntax Variable types Basic Operators

Python - Intermediate

Decision Making Loops Numbers Strings Lists



Python - Advanced

Date & Time
Functions
Modules
File I/O
Exceptions
Class & Object