

Python

# What is Python ?

Python is a clear and powerful object-oriented programming language, comparable to Perl, Ruby, or Java.

Python is a programming language that combines features of C and Java.

<https://www.python.org/>

# History

- Python was developed by *Guido Van Rossum* in the year *1990* at Stichting Mathematisch Centrum in the Netherlands as a successor of a language called ABC.
- Name “Python” picked from TV Show Monty Python’s Flying Circus.

<https://docs.python.org/3/license.html>

# Version

- Python 0.9.0 - February, 1991
- Python 1.0 - January 1994
- Python 2.0 - October, 2000
- Python 3.0 - December, 2008
- Python 3.1 - June, 2009
- Python 3.2 - February, 2011
- Python 3.3 - September, 2012
- Python 3.4 - March, 2014
- Python 3.5 - September, 2015
- Python 3.6 - December, 2016
- Python 3.7 - June, 2018

Python 3.5+ cannot be used on Windows XP or earlier.

<https://www.python.org/doc/versions/>

# Features

- Easy to Learn
- High Level Language
- Interpreted Language
- Platform Independent
- Procedure and Object Oriented
- Huge Library
- Scalable

# Application for Python

- Web Application - Django, Pyramid, Flask, Bottle
- Desktop GUI Application – Tkinter
- Console Based Application
- Games and 3D Application
- Mobile Application
- Scientific and Numeric <https://www.python.org/about/apps/>
- Data Science
- Machine Learning - scikit-learn and TensorFlow
- Data Analysis - Matplotlib, Seaborn
- Business Application