



Developer: Guido van Rossum, Master of Mathematic and Computer Science

Release :1991

Type : Interpreted language

Interpretataion : CPython, the reference implementation of Python, is open source software

Name : Named after a TV Show called 'Monty Python's Flying Circus' and not after Python-the snake.

Version : python 2.x and python 3 (released in 2008)

Encoding : python2 - raw data (mark with u for unicode) , python3 – unicode (utf-8)

About the origin of [Python](#), van Rossum wrote in 1996:

Over six years ago, in December 1989, I was looking for a "hobby" programming project that would keep me occupied during the week around Christmas. My office ... would be closed, but I had a home computer, and not much else on my hands. I decided to write an interpreter for the new scripting language I had been thinking about lately: a descendant of ABC that would appeal to Unix/C hackers. I chose Python as a working title for the project, being in a slightly irreverent mood (and a big fan of [Monty Python's Flying Circus](#))

Popularity :

Dec 2017	Dec 2016	Change	Programming Language	Ratings	Change
1	1		Java	13.268%	-4.59%
2	2		C	10.158%	+1.43%
3	3		C++	4.717%	-0.62%
4	4		Python	3.777%	-0.46%
5	6	⬆	C#	2.822%	-0.35%
6	8	⬆	JavaScript	2.474%	-0.39%
7	5	⬇	Visual Basic .NET	2.471%	-0.83%
8	17	⬆	R	1.906%	+0.08%
9	7	⬇	PHP	1.590%	-1.33%
10	18	⬆	MATLAB	1.569%	-0.25%

Fig: Top Programming Language

Courtesy: <https://www.tiobe.com/tiobe-index/> (Jan,18)

Very Long Term History

To see the bigger picture, please find below the positions of the top 10 programming languages of many years back. Please note that these are *average* positions for a period of 12 months.

Programming Language	2017	2012	2007	2002	1997	1992	1987
Java	1	2	1	1	15	-	-
C	2	1	2	2	1	1	1
C++	3	3	3	3	2	2	4
C#	4	5	7	11	-	-	-
Python	5	7	6	12	27	16	-
Visual Basic .NET	6	14	-	-	-	-	-
JavaScript	7	9	8	7	20	-	-
PHP	8	6	4	5	-	-	-

Fig: Ranking of Programming Language (Past History)

Features :

Easy-to-learn

Easy-to-read

Easy-to-maintain

broad standard library

Interactive Mode

Portable

Extendable (low-level modules to the Python interpreter).

Databases

GUI Programming

Scalable

Dynamic type system

Reference counting and garbage collector for **automatic memory management**

Supports **multiple programming paradigms** includign oop and procedural ,functional ..

Can be used as a **scripting language** or can be compiled to byte-code

Can be **easily integrated** with C, C++, COM, ActiveX, CORBA, and Java.

Functionality

As of September 2017, the [Python Package Index](#), the official repository for third-party Python software, contains over 117,000 packages with a wide range of functionality, including:

- Graphical user interfaces
- Web frameworks
- Multimedia
- Databases
- Networking
- Test frameworks
- Automation

- Web scraping
- Documentation
- System administration
- Scientific computing
- Text processing
- Image processing

Source: [https://en.wikipedia.org/wiki/Python_\(programming_language\)](https://en.wikipedia.org/wiki/Python_(programming_language))