



Python!

By- Mugdha Panhale,

Finitely Infinite Systems Pvt. Ltd.





Python Overview

- Python is a high-level, interpreted, interactive and object-oriented scripting language.
- Python is an open-source and cross-platform programming language. It is available for use under **Python Software Foundation License** (compatible to GNU General Public License) on all the major operating system platforms Linux, Windows and Mac OS.
- Python leaves you free to choose to program in an object-oriented, procedural, functional, aspect-oriented, or even logic-oriented way. These freedoms make Python a great language to write clean and beautiful code.

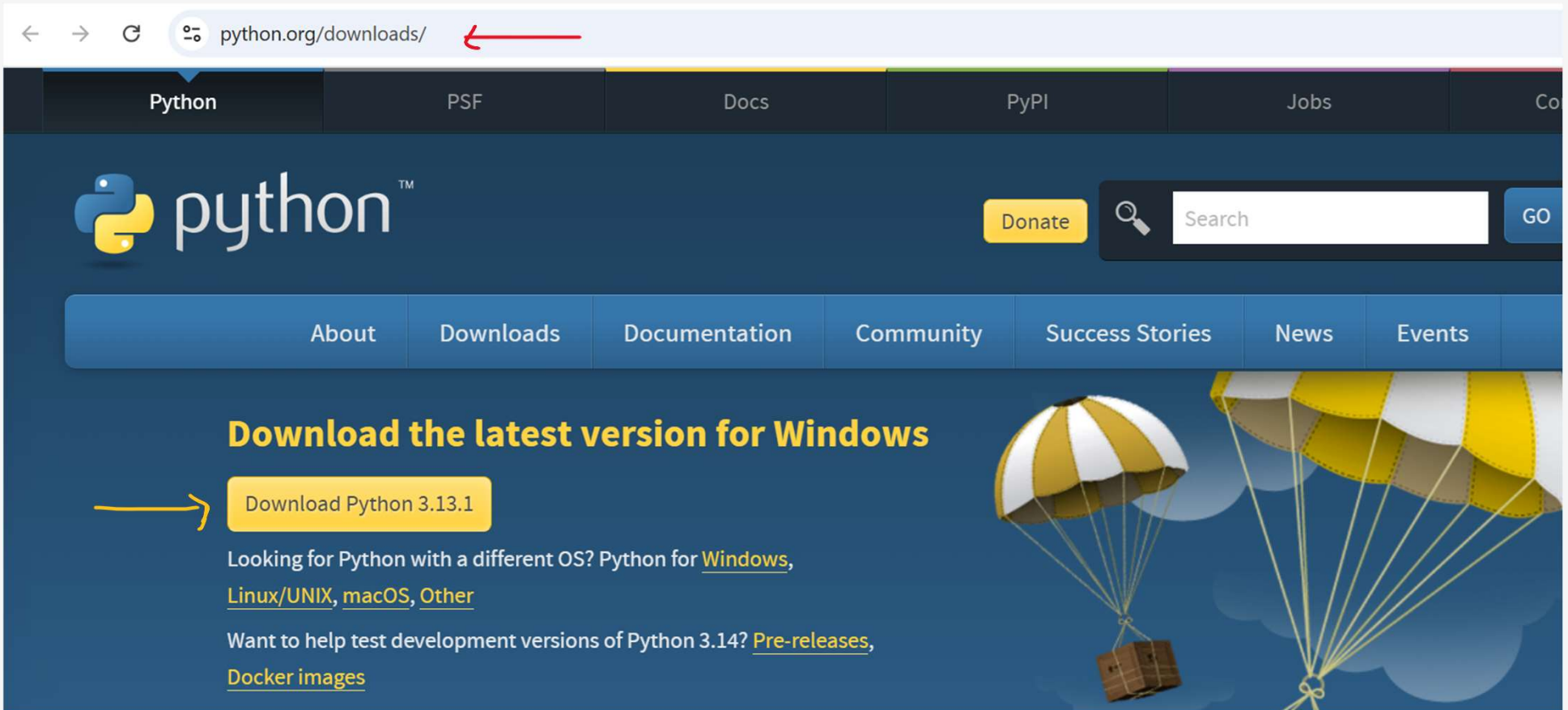
Python Overview

- **Python is Interpreted** – Python is processed at runtime by the interpreter. 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.

Python Overview

- Python was developed by Guido van Rossum (a Dutch programmer) in the late 1980s and early nineties at the National Research Institute for Mathematics and Computer Science in the Netherlands.
- Python 0.9.0
 - :Python's first published version is 0.9. It was released in February 1991.
- Python is a general-purpose, high-level programming language.
- Python is the programming language of choice for professionals working in fields such as Artificial Intelligence, Machine Learning (ML), Data Science, the Internet of Things (IoT), etc., because it excels at both scripting applications and as standalone programs.
- Using Python, we can perform –
 - Web development
 - Data analysis and machine learning
 - Automation and scripting
 - Software testing and many more

Python Installation



The screenshot shows the Python.org website's download page. The browser's address bar displays 'python.org/downloads/' with a red arrow pointing to it. The website's navigation bar includes links for Python, PSF, Docs, PyPI, Jobs, and Co. The main header features the Python logo, a 'Donate' button, and a search bar. Below the header, a secondary navigation bar contains links for About, Downloads, Documentation, Community, Success Stories, News, and Events. The main content area is titled 'Download the latest version for Windows' in yellow text. A yellow button labeled 'Download Python 3.13.1' is highlighted with a yellow arrow. Below the button, there are links for other operating systems: 'Looking for Python with a different OS? Python for [Windows](#), [Linux/UNIX](#), [macOS](#), [Other](#)'. At the bottom, there are links for development versions: 'Want to help test development versions of Python 3.14? [Pre-releases](#), [Docker images](#)'. The background of the main content area features a blue sky with clouds and two yellow and white striped parachutes.

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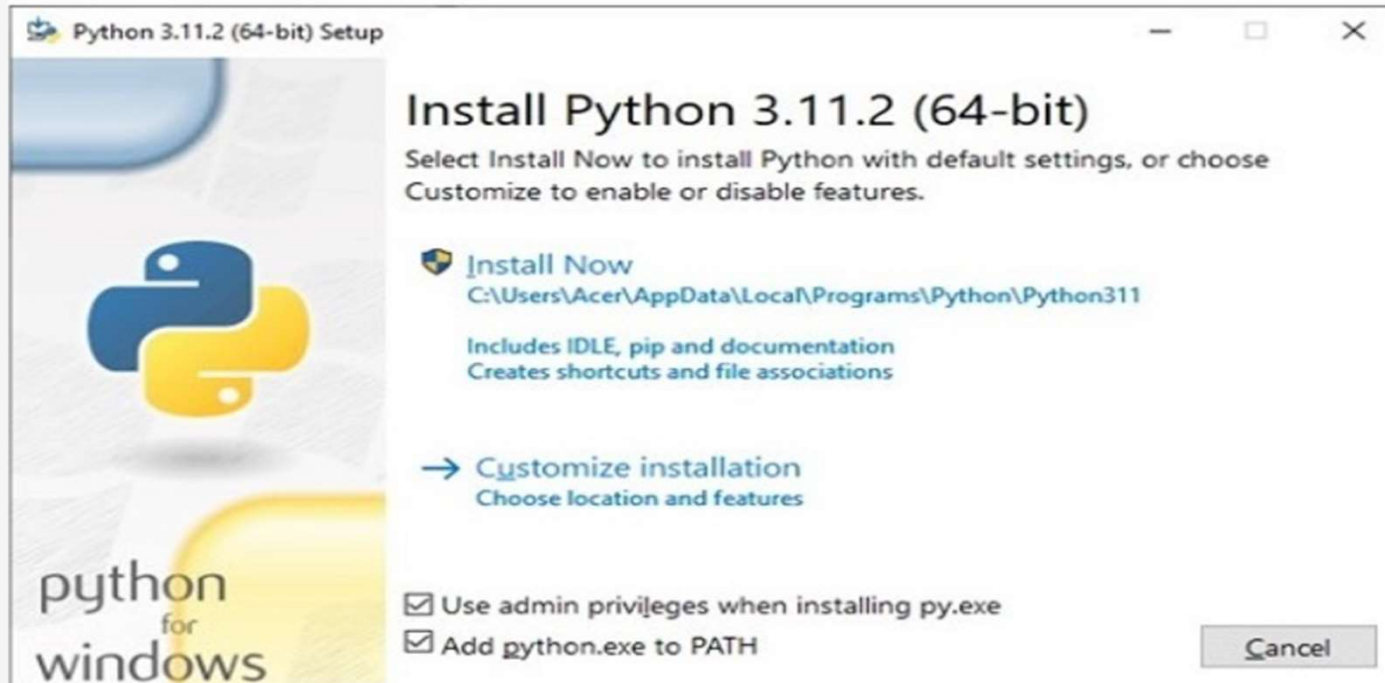
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[Docker images](#)



Python Installation

Double click on the file where it has been downloaded to start the installation.





Python Installation

- Step 1: Install Python. Make sure that Python is installed on your system or not. If Python is not installed, then install it from here: <https://www.python.org/downloads/>
- Step 2: Choose Text Editor or IDE to write the code.
- Step 3: Open Text Editor or IDE, create a new file, and write the code to print Hello World.
- Step 4: Save the file with a file name and extension ".py".
- Step 5: Compile/Run the program.



Python Installation



Python

Microsoft  microsoft.com

 151,839,282

★★★★

Python language support with extension access points for ...

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Python extension for Visual Studio Code

A [Visual Studio Code extension](#) with rich support for Python language (for all actively supported Python versions), providing access points for extensions to

Installation

Identifier	ms-python.python
Version	2024.22.2
Last Updated	2025-01-10, 22:11:26
Size	36.9 MB