

Introduction to Python

What is Python?

- Python is general purpose, object-oriented and high level programming language.
- It was created by Guido Van Rossum in 1991.
- version 1.0 in January 1994.
- version 2.0 in October 2000.
- version 3.0 in December 2008

Python Features :

- 1. Easy
 - a. Easy to Code
 - b. Easy to Read
- 2. Expressive
- 3. Free and Open-Source
- 4. High-Level
- 5. Portable
- 6. Interpreted

Python Features :

- 7. Object-Oriented
- 8. Extensible
- 9. Embeddable
- 10. Large Standard Library
- 11. GUI Programming
- 12. Dynamically Typed

Applications of Python



Web
Development



Game
Development



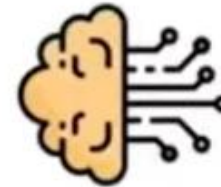
Scientific
Applications



Education
Program



Desktop
Development

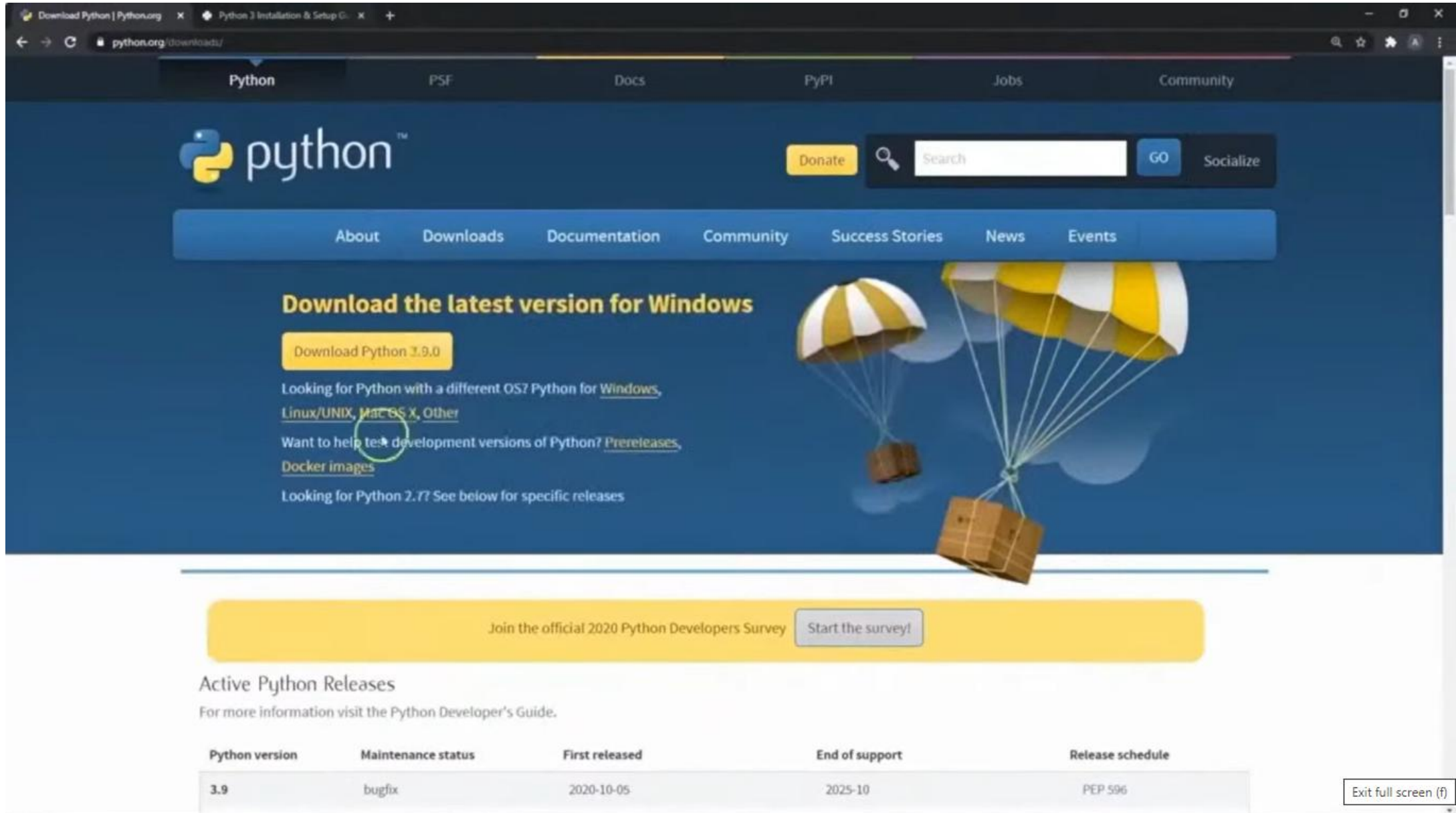


Artificial
Intelligence



Graphic
Design Applications

Python Installation



The screenshot shows the Python.org website's download page. The main heading is "Download the latest version for Windows". Below it is a yellow button labeled "Download Python 3.9.0". There are links for "Looking for Python with a different OS? Python for Windows, Linux/UNIX, MacOS X, Other", "Want to help test development versions of Python? Prereleases, Docker images", and "Looking for Python 2.7? See below for specific releases". A yellow banner at the bottom of the main section says "Join the official 2020 Python Developers Survey" with a "Start the survey!" button. Below this is a section titled "Active Python Releases" with a link to the "Python Developer's Guide". At the bottom is a table with columns: "Python version", "Maintenance status", "First released", "End of support", and "Release schedule". The table has one row for Python 3.9. A small box in the bottom right corner says "Exit full screen (f)".

Download the latest version for Windows

[Download Python 3.9.0](#)

Looking for Python with a different OS? Python for [Windows](#), [Linux/UNIX](#), [MacOS X](#), [Other](#)

Want to help test development versions of Python? [Prereleases](#), [Docker images](#)

Looking for Python 2.7? See below for specific releases

Join the official 2020 Python Developers Survey [Start the survey!](#)

Active Python Releases

For more information visit the [Python Developer's Guide](#).

Python version	Maintenance status	First released	End of support	Release schedule
3.9	bugfix	2020-10-05	2025-10	PEP 596

Exit full screen (f)

Anaconda Python Interface



Anaconda Installers

Windows

Python 3.8

64-Bit Graphical Installer (466 MB)

32-Bit Graphical Installer (397 MB)

MacOS

Python 3.8

64-Bit Graphical Installer (462 MB)

64-Bit Command Line Installer (454 MB)

Linux

Python 3.8

64-Bit (x86) Installer (550 MB)

64-Bit (Power8 and Power9) Installer (290 MB)

Supercharge your data science
efforts with **Anaconda**.

Python IDE's :

- **1. PyCharm**
- **2. IDLE**
- **3. Visual Studio Code**
- **4. Atom**
- **5. Sublime Text**
- **6. Spyder**
- **7. PyDev**
- **8. Jupyter**
- **9. Thonny**
- **10. PyScripter**