

Python Course

Introduction

Feb 2023
Matin KarimPour



Programming Language

- It Guarantees You a Job
- No Need for a Four-Year Degree
- You Get to Work From Home
- You Can Create Anything You Want
- High Income Potential
- You Understand How Software Works
- It Teaches You Persistence
- You Learn To Combine Technical Skills and Creativity
- You Develop Problem Solving Skills
- Open Your Own Business

Why python?

- It couldn't get simpler than Python!
- Python is highly flexible and extensible
- Python has a library to cater to your every need.
- Python makes web development a breeze
- There's plenty for Data Visualization
- Python comes with numerous testing frameworks
- Python is excellent for Machine learning
- Python is great for scripting
- Python is backed by an active community
- Python skills can command high salaries

C lang



C lang

```
#include <stdio.h>
int main(void)
{
    printf("Hello, world\n");
}
```

python



python :)

```
print("Hello, World\n")
```

Applications of python

- Web and Internet Development
- Scientific and Numeric
- Education
- Desktop GUIs
- Software Development
- Business Applications
- Image processing
- AI and more...

What we learn in this course?

- Basics of python
 - Variables, expressions, and statements
 - Conditional execution
 - Functions
 - Iteration
 - Strings
 - Lists
 - Dictionaries
 - Tuples
 - Files
- Numpy (basic)
- Matplotlib (basic)

IDE

Visual Studio Code Docs Updates Blog API Extensions FAQ Learn

Search Docs

Download

Code editing. Redefined.

Free. Built on open source. Runs everywhere.



.deb
Debian, Ubuntu...

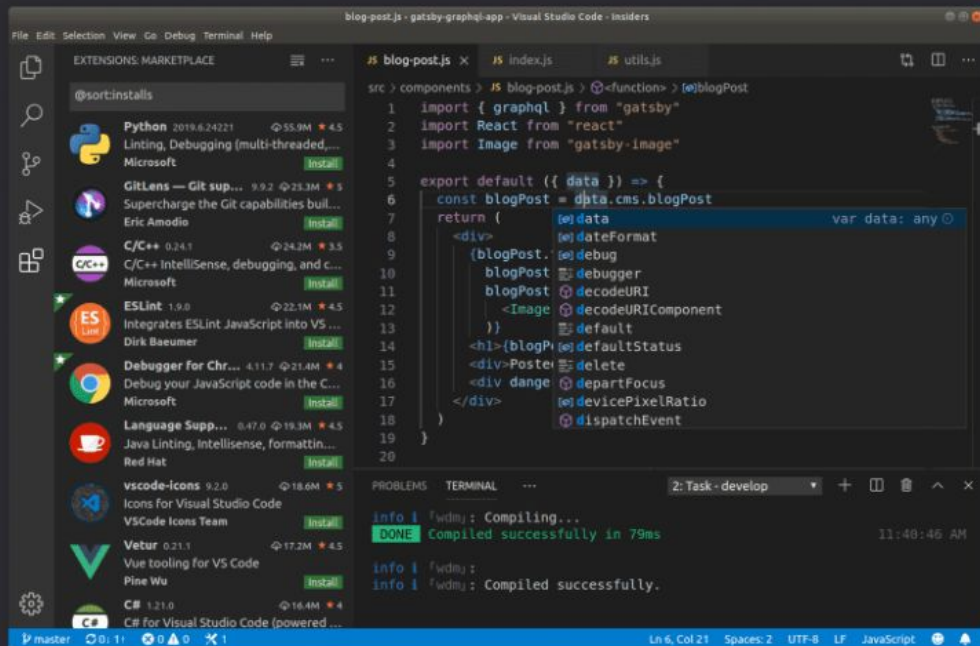


.rpm
Red Hat, Fedora...




Web, Insiders edition, or other platforms

By using VS Code, you agree to its
[license and privacy statement](#).



Colab

 **Welcome To Colaboratory**
File Edit View Insert Runtime Tools Help

Share ⚙️ 👤

Table of contents

Getting started

Data science

{x} Machine learning

More Resources

Featured examples


+ Section

+ Code + Text Copy to Drive to exit fullscreen

Connect Editing ^

Welcome to Colab!

If you're already familiar with Colab, check out this video to learn about interactive tables, the executed code history view, and the command palette.



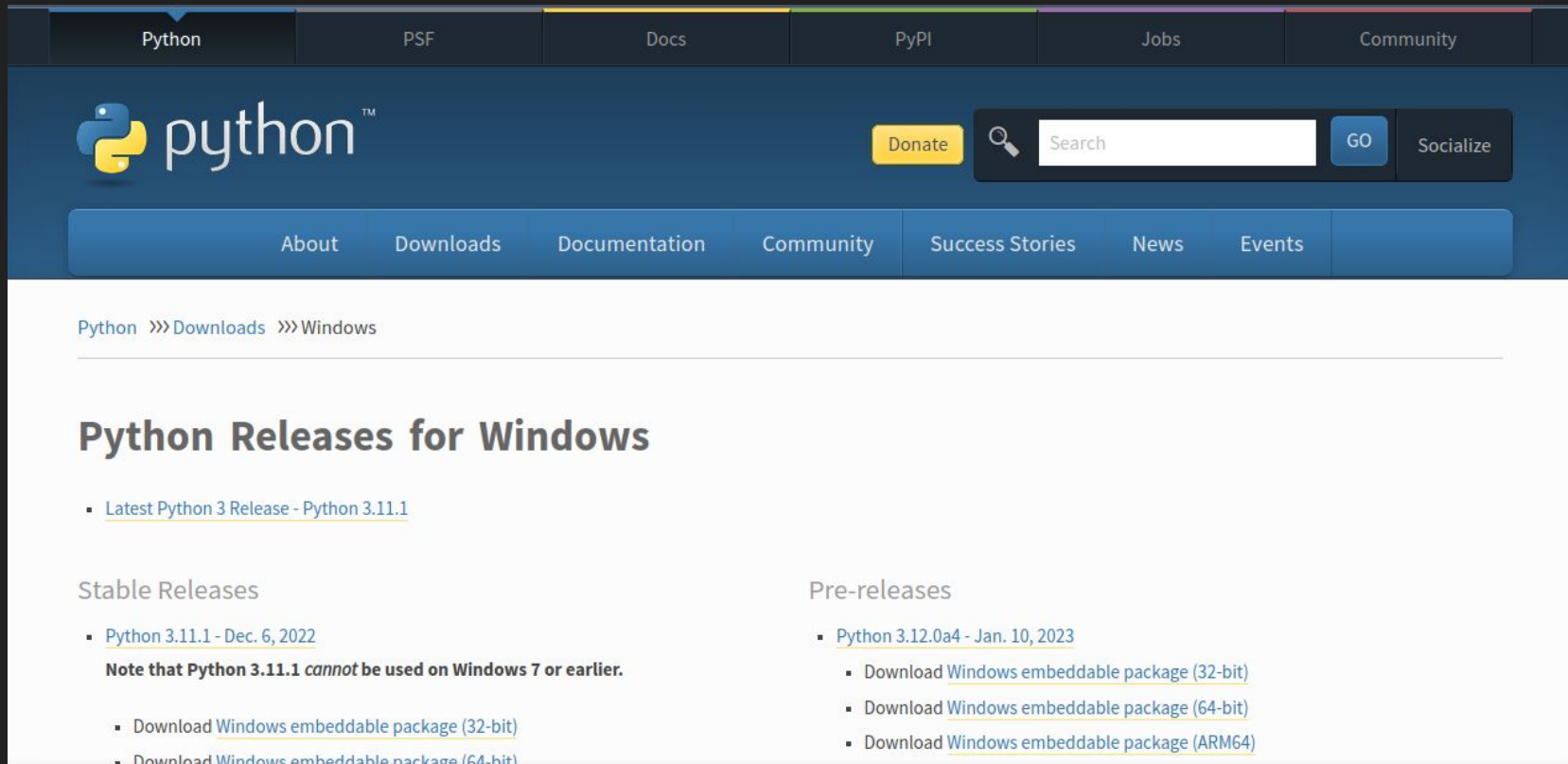
What is Colab?

Colab, or "Colaboratory", allows you to write and execute Python in your browser, with

- Zero configuration required
- Access to GPUs free of charge
- Easy sharing

Whether you're a **student**, a **data scientist** or an **AI researcher**, Colab can make your work easier. Watch [Introduction to Colab](#) to learn more, or just get started below!

Python Installation



The screenshot shows the Python.org website. The top navigation bar includes links for Python, PSF, Docs, PyPI, Jobs, and Community. Below this is a dark blue header with the Python logo, a 'Donate' button, a search bar with a 'GO' button, and a 'Socialize' button. A secondary navigation bar contains links for About, Downloads, Documentation, Community, Success Stories, News, and Events. The main content area is titled 'Python >>> Downloads >>> Windows' and features the heading 'Python Releases for Windows'. Under this heading, there is a link to the 'Latest Python 3 Release - Python 3.11.1'. The page is divided into two columns: 'Stable Releases' and 'Pre-releases'. The 'Stable Releases' column lists 'Python 3.11.1 - Dec. 6, 2022' with a note that it cannot be used on Windows 7 or earlier, and provides download links for 32-bit and 64-bit Windows embeddable packages. The 'Pre-releases' column lists 'Python 3.12.0a4 - Jan. 10, 2023' and provides download links for 32-bit, 64-bit, and ARM64 Windows embeddable packages.

Python >>> Downloads >>> Windows

Python Releases for Windows

- [Latest Python 3 Release - Python 3.11.1](#)

Stable Releases

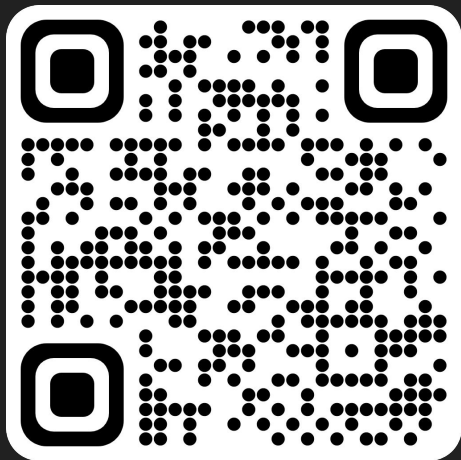
- [Python 3.11.1 - Dec. 6, 2022](#)
 - Note that Python 3.11.1 cannot be used on Windows 7 or earlier.**
 - Download [Windows embeddable package \(32-bit\)](#)
 - Download [Windows embeddable package \(64-bit\)](#)

Pre-releases

- [Python 3.12.0a4 - Jan. 10, 2023](#)
 - Download [Windows embeddable package \(32-bit\)](#)
 - Download [Windows embeddable package \(64-bit\)](#)
 - Download [Windows embeddable package \(ARM64\)](#)

Get Python & vscode Installer

1. Connect to *pycourse* network
2. Go to or scan the QR code
3. Click on the button
4. Install files :)



Let's Code :)

Please scan this QR code and
complete the survey.