

Setup Python Environment on Mac

1. Download and Install Python 3.12

1. Download Python 3.12:

- Go to the [Python Downloads page](#).
- Click on the macOS installer for Python 3.12 to download the `.pkg` file.

2. Install Python 3.12:

- Open the downloaded `.pkg` file and follow the installation prompts.

2. Download and Install Visual Studio Code (VS Code)

1. Download VS Code:

- Go to the [VS Code Downloads page](#).
- Download the macOS version of VS Code.

2. Install VS Code:

- Open the downloaded `.zip` file and drag the VS Code app to your Applications folder.

3. Check and Update Path

1. Check the Path:

Open Terminal and check where Python is installed:

bash

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`which python3.12`

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2. Update the Path in `.zshrc`:

Open `.zshrc` in a text editor:

bash

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`nano ~/.zshrc`

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Add the following line to include Python in your PATH:

bash

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```
export
PATH="/Library/Frameworks/Python.framework/Versions/3.12/bin:$PATH"
```

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- Save and exit (CTRL + O, Enter, CTRL + X).

3. Create Symlink for Python:

Create a symbolic link for `python` to point to `python3.12`:

bash

```
sudo ln -s
/Library/Frameworks/Python.framework/Versions/3.12/bin/python3.12
/usr/local/bin/python
```

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4. Reload `.zshrc`:

Apply changes:

bash

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```
source ~/.zshrc
```

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4. Verify Installation

Check Python Version:

bash

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```
python --version
```

```
python3 --version
```

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2. **Check VS Code:**

- Open VS Code from Applications or using Spotlight (Cmd + Space, then type "Visual Studio Code").

Setup Python Environment on Windows

1. Download and Install Python

1. Download Python:

- Go to the [Python Downloads page](#).
- Click on the Windows installer for Python 3.12 to download the `.exe` file.

2. Install Python:

- Run the downloaded `.exe` file.
- **Important:** Check the box that says "Add Python to PATH" before clicking "Install Now."
- Follow the installation prompts to complete the installation.

2. Download and Install Visual Studio Code (VS Code)

1. Download VS Code:

- Go to the [VS Code Downloads page](#).
- Download the Windows version of VS Code.

2. Install VS Code:

- Run the downloaded `.exe` file and follow the installation prompts.

3. Verify and Update Path

1. Check Python Path:

Open Command Prompt or PowerShell and run:

`cmd`

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`where python`

`where python3`

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2. Update Path (if needed):

- If Python is not found, you might need to add it to your system PATH manually:
 - Right-click on `This PC` or `Computer` on the Desktop or in File Explorer.
 - Select `Properties > Advanced system settings`.
 - Click `Environment Variables`.

- In the **System variables** section, find and select the **Path** variable, then click **Edit**.
- Add the path to the Python installation directory (e.g., **C:\Users\<YourUsername>\AppData\Local\Programs\Python\Python312**).
- Click **OK** to save the changes.

4. Verify Installation

1. Check Python Version:

Open Command Prompt or PowerShell and run:

cmd

Copy code

```
python --version
```

```
python3 --version
```

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2. Check VS Code:

- Open VS Code from the Start Menu or by searching for it.