

# Setting Up Your Python Environment with VS Code, GitHub, and Copilot

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This tutorial will guide you through:

1. [Installing Anaconda \(Python\)](#)
  2. [Installing Visual Studio Code](#)
  3. [Installing Git](#)
  4. [Configuring Python in VS Code](#)
  5. [Creating a GitHub Account](#)
  6. [Activating GitHub Copilot](#)
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## 1. Install Anaconda

### 1.1 Download Anaconda

- **Link:** [Anaconda3-2024.10-1-Windows-x86\\_64.exe](#)
- Save the installer to your preferred location.

### 1.2 Run the Installer

- Double-click the downloaded `.exe` file.
- Click **Yes** if prompted by Windows User Account Control.

### 1.3 Follow the Setup Wizard

- Click **Next** on the welcome screen.
- Accept the license agreement.
- Choose "Just Me" (personal) or "All Users" (system-wide).
- **Optional:** Check the box to *Add Anaconda to my PATH environment variable*.  
*Note:* This makes it easier to use `conda` and `python` from any terminal but may lead to PATH conflicts.

### 1.4 Finish Installation

- After installation completes, you can launch the **Anaconda Prompt** or open your default shell (if you added Anaconda to PATH).

### 1.5 Verify Installation

- Open **Anaconda Prompt** or **Command Prompt**:

```
conda --version
python --version
```

- You should see the versions for `conda` and `python`.

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## 2. Install Visual Studio Code

### 2.1 Download VS Code

- **Link:** [VS Code \(Windows - User Installer\)](#)
- Save the **.exe** file.

### 2.2 Run the Installer

- Double-click the **.exe**.
- Click **Yes** if prompted by Windows User Account Control.

### 2.3 Follow the Setup Wizard

- Accept the license agreement.
- **Installation location:** Use the default unless you have specific needs.
- **Select Additional Tasks:**
  - *Add to PATH* (recommended so you can run **code** from the terminal).
  - *Register Code as an editor for supported file types*.

### 2.4 Finish Installation

- Click **Install**, then **Finish**.
  - **Launch VS Code** when prompted.
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## 3. Install Git

### 3.1 Download Git

- **Link:** [Git-2.47.1-64-bit.exe](#)

### 3.2 Run the Installer

- Double-click the **.exe**.
- Click **Yes** for Windows User Account Control.

### 3.3 Follow the Setup Wizard

- Accept the license agreement.
- Default settings are generally fine:
  - Choose *Use Git from the Windows Command Prompt* to put Git in your PATH.

### 3.4 Finish Installation

- Verify by opening a terminal and running:

```
git --version
```

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## 4. Configure Python in VS Code

### 4.1 Open VS Code

- Launch Visual Studio Code from the Start Menu or by typing `code` in a terminal (if you added it to PATH).

### 4.2 Install the Python Extension

- Click on the **Extensions** icon (`Ctrl+Shift+X`) in VS Code.
- Search "Python" (published by Microsoft).
- Click **Install**.
- Reload VS Code if prompted.

### 4.3 Select Your Python Interpreter

- Open the **Command Palette** (`Ctrl+Shift+P`).
- Type `Python: Select Interpreter`.
- Pick your **Anaconda** environment (e.g., `base: conda`).

### 4.4 Verify the Python Environment

- Create a new file named `test.py`:

```
print("Hello, Anaconda!")
```

- Press `F5` or go to **Run > Start Debugging** to confirm everything works.

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## 5. Create a GitHub Account

### 5.1 Sign Up on GitHub

- **Link:** <https://github.com>
- Click **Sign up** in the top-right corner.

### 5.2 Fill in Details

- Enter your **email address**, **username**, and **password**.
- Solve the CAPTCHA if prompted.

### 5.3 Choose a Plan

- Pick **GitHub Free** (or another plan if you need advanced features).

### 5.4 Complete Sign-up

- Verify your email if needed.

- Now you have a GitHub account.
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## 6. Activate GitHub Copilot

GitHub Copilot usually requires a subscription or a free trial.

copilot for vs: <https://code.visualstudio.com/docs/copilot/setup>

Enjoy your new development environment and happy coding!