

Development Environment Setup Tutorial

Visual Studio Code IDE & GitHub
Copilot
For Windows and macOS

Introduction

- In this tutorial, you will:
 - - Install Visual Studio Code (VS Code)
 - - Configure GitHub Copilot for AI-assisted coding

Prerequisites

- Before you start, make sure you have:
 - - A GitHub account
 - - Internet connection
 - - Administrative access on your computer

Install VS Code (Windows)

- 1. Go to code.visualstudio.com/download
- 2. Download Windows x64 Installer
- 3. Run installer, accept defaults
- 4. Add to PATH
- 5. Install & Finish

Install VS Code (macOS)

- 1. Go to code.visualstudio.com/download
- 2. Download macOS Universal package
- 3. Unzip and drag to Applications
- 4. Launch VS Code via Spotlight

Install GitHub Copilot Extension

- 1. Open VS Code
- 2. Go to Extensions Marketplace (Ctrl+Shift+X / Cmd+Shift+X)
- 3. Search 'GitHub Copilot'
- 4. Click Install

Authenticate GitHub Copilot

- 1. After installation, click Sign In
- 2. Log in to GitHub in browser
- 3. Authorize extension
- 4. Return to VS Code

Verify Copilot is Working

- 1. Open a new file (hello.py or hello.js)
- 2. Start typing a function
- 3. Suggestions appear in gray
- 4. Accept with Tab or Ctrl+Enter / Cmd+Enter

Optional Configurations

- You can:
 - - Enable/disable Copilot per language
 - - Trigger suggestions manually (Alt+\ or Option+\)
 - - Keep VS Code updated

Troubleshooting

- If Copilot doesn't activate:
 - - Ensure you are signed in
 - - Verify GitHub account access
 - - Restart or reinstall if needed

Next Steps

- You are ready to:
 - - Use VS Code as your IDE
 - - Use GitHub Copilot as coding assistant
- Next: Learn Git & GitHub collaboration