

# Introduction to GitHub Copilot



# Let's get to know each other

- ✓• Your name
- ✓• Company affiliation
- ✓• Title/function
- ✓• Your experience
- <sup>2</sup> Your expectations for the course



# Introduction

"GitHub Copilot" is the world's first at-scale AI developer tool that can help you write code faster with less work.

At the end of the module, you'll be able to:

- ✓ Understand how "GitHub Copilot" can help you code by offering autocomplete-style suggestions.
- ✓ Understand the various ways to trigger GitHub Copilot.
- ✓ Comprehend the differences among GitHub Copilot Free, Pro, Business, and Enterprise.  
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- ✓ Know how to configure GitHub Copilot.
  - Know how to troubleshoot GitHub Copilot.

# GitHub Copilot, your AI pair programmer

## Copilot for Chat

- **Chat Interface:** Integrates with VS Code and Visual Studio.
- **Error Recognition:** Identifies code errors and suggests fixes, generating unit tests.

## Copilot for Pull Requests

- **Iterate and Validate:** Integrate suggested changes to code by using Copilot Workspace.
- **Review and Modify:** Developers can review and adjust the suggested descriptions.

## Copilot for the CLI

- **Command Composition:** Helps compose commands and loops, making terminal usage more efficient.
- **Syntax Assistance:** Provides obscure find flags and command syntax reminders.

## Subscription Plans

- **Personal Accounts:** Available through GitHub Copilot Free and Pro.
- **Organization and Enterprise Accounts:** Available through GitHub Copilot Business and Enterprise.

## GitHub Copilot Pro+

- Highest level of access for individual developers.
- Includes Copilot coding agent

## GitHub Copilot Business



- **Access Control:** Allows organizations to manage who can use GitHub Copilot.
- **Productivity and Security:** Features include code completions, chat in IDE and mobile, and security filters.

## GitHub Copilot Enterprise

- **Enhanced Features:** Includes all Business features plus personalized suggestions based on internal code.
- **Integration and Documentation:** Provides chat interface integration and helps build documentation.



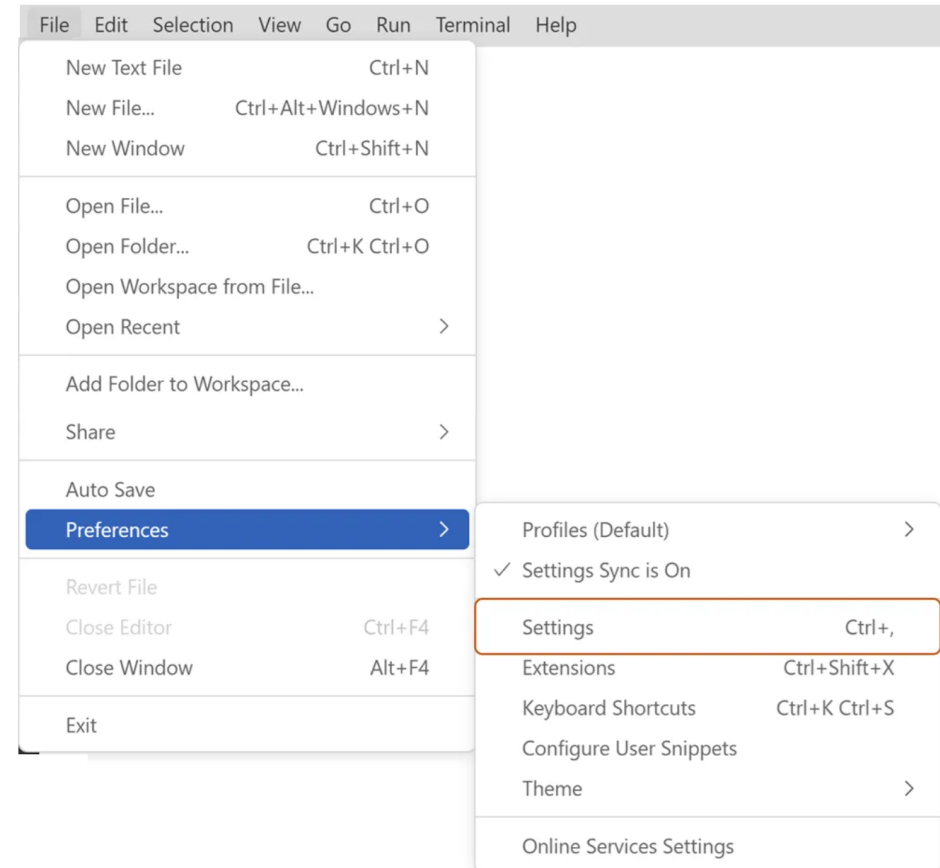
# Interact with Copilot

-  **Real-Time Code Completions:** Copilot offers  inline suggestions as you type, predicting your next steps and displaying them subtly.
- **Accepting and Rejecting Suggestions:** Use the Tab or right arrow key to accept suggestions, and the Esc key to reject them. Keyboard shortcuts:  
macOS: Command+→  
Windows or Linux: Control+→
- **Command Palette Access:** Quickly access Copilot functions with **Ctrl+Shift+P** (Windows/Linux) or **Cmd+Shift+P** (Mac) to perform tasks like generating unit tests.
- **Interactive Copilot Chat:** Communicate with Copilot using natural language to ask questions or request code snippets directly in your IDE.
- **Context-Specific Inline Chat:** Request code modifications or explanations without switching contexts using **Ctrl+I** (Windows/Linux) or **Cmd+I** (Mac).
- **Comments to Code:** Convert comments into code using natural language processing, making it easy to draft straightforward tasks quickly.
- **Multiple Code Suggestions:** Explore different coding approaches by cycling through multiple alternatives using the light bulb icon or **Alt+/Option+]**.
- **Automated Test Generation:** Generate unit tests for functions or classes to ensure code quality and reliability, saving time and effort.

# Set up, configure, and troubleshoot GitHub Copilot

Before you can start using GitHub Copilot, you need to set up a free trial or subscription for your account.

- **Installation:** Install the GitHub Copilot extension from the Visual Studio Marketplace, open VS Code, and sign in to GitHub if prompted.
- ✓ • **Enable/Disable:** Use the status icon in the bottom pane of VS Code to enable or disable GitHub Copilot globally or for specific languages.
- **Inline Suggestions:** Configure inline suggestions by navigating to Preferences > Settings > Extensions > GitHub Copilot, and selecting or clearing the checkbox for auto completions.



# Summary

This module you saw how to personalize GitHub Copilot for every team, project, and repository that uses it.

Now that you've finished this module, you should be able to:

- Explain the GitHub Copilot features and the subscription plans (Free, Pro, Business, and Enterprise).
- Get started with and configure GitHub Copilot.
- Develop by using GitHub Copilot and VS Code.



Thank you.