

GitHub Copilot

Cheat Sheet



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GitHub Cheat Sheet:

To make full use of the power of GitHub Copilot, it's important to understand its capabilities. GitHub Copilot is developing rapidly, and new features are being added all the time. GitHub Copilot Cheat Sheet help you to get the most out of GitHub Copilot and become a more efficient, productive user of the AI assistant.

Installation:

Visual Studio Code (VS Code):

1. Open Visual Studio Code.
2. Go to the Extensions view (Ctrl+Shift+X).
3. Search for "GitHub Copilot".
4. Click "Install".
5. Sign in to GitHub if prompted and authorize GitHub Copilot.

Basic Usage:

Accepting Suggestions:

1. Accept Suggestion: 'Tab'
2. Reject Suggestion: 'Esc'
3. Next Suggestion: Alt +] or Option +] (Mac)
4. Previous Suggestion: Alt + [or Option + [(Mac)

Inline Suggestions:

- GitHub Copilot provides inline suggestions as you type. You can see the suggestion in light gray text. Press Tab to accept the suggestion or keep typing to modify it.

Code Blocks:

- GitHub Copilot can also suggest multiple lines or blocks of code based on the context and comments.

Commands

Trigger Suggestions Manually:

- Trigger Suggestion: Ctrl + Enter (Windows/Linux) or Cmd + Enter (Mac)

Show Copilot Pane:

- Open GitHub Copilot: Ctrl + Shift + P then type "GitHub Copilot" and select the desired command.

Customization

Settings in VS Code:

1. Go to File > Preferences > Settings.
2. Search for "Copilot".
3. Adjust the settings such as enabling/disabling for specific languages, adjusting suggestion appearance, and more.

Key Settings:

- Enable/Disable Copilot: Toggle GitHub Copilot on/off for specific languages.
- Suggestion Appearance: Configure how and when suggestions appear.

Practical Tips

Writing Comments:

Use comments to guide GitHub Copilot. Writing a descriptive comment about what you want to achieve can help Copilot provide more accurate suggestions.

```
python Copy code

# Function to calculate factorial
def factorial(n):
    # suggestion will appear here
```

Refining Suggestions:

- If the initial suggestion is not suitable, you can refine it by writing more specific comments or partially writing the code and then triggering the suggestion again.

Security Practices:

- Always review the suggested code carefully, especially in sensitive projects.
- Avoid accepting suggestions that include sensitive information like passwords or API keys.

Troubleshooting:

No Suggestions Appearing:

1. Check that the extension is installed and enabled.
2. Ensure you are signed in to GitHub and have authorized GitHub Copilot.
3. Verify your internet connection.
4. Restart VS Code.

Reporting Issues:

Use the GitHub Copilot feedback channels or visit the GitHub Copilot repository to report bugs or issues.

Slash Commands for common tasks.

GitHub Copilot includes a set of slash commands that can help you quickly perform common tasks. These commands can be invoked directly in the code editor to enhance your productivity. Press “**CTRL + I**” in the editor and use these commands to receive targeted assistance, including explanations, documentation, test creation, and various other forms of support related to your code.

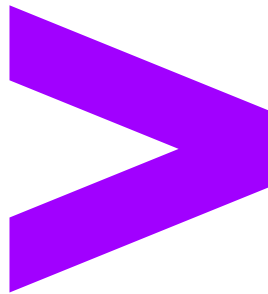
Command	Description	Usage
/explain	Get code explanations	Open file with code or highlight code you want explained and type /explain.
/fix	Receive a proposed fix for the problems in the selected code	Highlight problematic code and type: /fix which propose a fix for the problems.

/tests	Generate unit tests for selected code	Open file with code or highlight code you want tests for and type: /tests
/help	Get help on using Copilot Chat	Type: /help what can you do?
/clear	Clear current conversation in the chat.	Type: /clear
/doc	Add a documentation comment	Highlight code and type: /doc You can also press CMD+I in your editor and type /doc/ inline.
/generate	Generate code to answer your question	Type: /generate
/optimize	Analyze and improve running time of the selected code	Highlight code and type: /optimize
/simplify	Simplify the selected code	Highlight code and type: /simplify
/feedback	Provide feedback to the team.	Type: /feedback
/complete	Generates code completion suggestions based on the context.	/complete in your code file where you want suggestions.
/suggest	Provides suggestions for the next line or block of code.	Type /suggest followed by the partial code or comment.
/refactor	Suggests ways to refactor or improve the selected code.	Select the code and type /refactor.

Useful Resources

- [GitHub Copilot Documentation](#)
- [GitHub Copilot Community](#)

By using this cheat sheet, you can efficiently leverage GitHub Copilot to enhance your coding productivity. Remember to customize settings according to your workflow and review all AI-generated code suggestions for accuracy and security.



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