

## GitHub Copilot and Copilot Chat Cheat Sheet

### Autocomplete Suggestions

#### *GitHub Copilot Hotkeys (Windows)*

- Accept an inline suggestion: ``Tab``
- Dismiss an inline suggestion: ``Esc``
- Show next inline suggestion: ``Alt + ]``
- Show previous inline suggestion: ``Alt + [``
- Trigger inline suggestion: ``Alt + \``
- Open GitHub Copilot (additional suggestions in separate pane): ``Alt + Enter``

#### *GitHub Copilot Hotkeys (Mac)*

- Accept an inline suggestion: ``Tab``
- Dismiss an inline suggestion: ``Esc``
- Show next inline suggestion: ``Option (⌘) or `Alt + ]``
- Show previous inline suggestion: ``Option (⌘) or `Alt + [``
- Trigger inline suggestion: ``Option (⌘) + \``
- Open GitHub Copilot (additional suggestions in separate pane): ``Option (⌘) or `Alt + Return``

### GitHub Copilot Tips

#### *Effective Prompts:*

- **Be Descriptive:** Use clear and detailed comments to describe the desired functionality.  
Example: ``// Generate a function to sort an array of integers``
- **Provide Examples:** Include input and output examples in comments to guide Copilot.  
Example: ``// Example input: [3, 1, 4], Example output: [1, 3, 4]``
- **Iterative Refinement:** Start with a basic prompt and refine it based on the suggestions provided by Copilot.

#### *Common Prompts:*

- **Basic Function Generation:**  
Comment: ``// Generate a function to reverse a string``
- **Complex Algorithm:**  
Comment: ``// Generate a func to find the longest common subsequence between two strings``
- **Data Processing:**  
Comment: ``// Generate a function to filter an array of objects based on a property value``

## GitHub Copilot Chat Tips

### *Engaging with Copilot Chat:*

- **Interactive Debugging:** Ask Copilot Chat specific questions about errors or issues to get detailed explanations and solutions.  
Example: ``Why am I getting a null pointer exception here?``
- **Contextual Help:** Use Copilot Chat to get context-aware assistance.  
Example: ``Can you explain what this piece of code is doing?``
- **Code Review Assistance:** Ask Copilot Chat to review code and identify potential issues.  
Example: ``Are there any potential issues with this function?``

### *Common Queries:*

- Understanding Code: ``What does this code do?``
- Improving Code: ``How can I improve this function?``
- Fixing Errors: ``How do I fix this error: [error message]?``
- Best Practices: ``What are the best practices for implementing [feature]?``