

# GitHub Copilot Tips, Tricks and Best practices

#### **Agenda**



**Beyond code completion** 



**Workspace Agent** 



**Context, Context, Context** 



**Threads** 



**Inline Chat** 



**Slash Commands** 



**Copilot CLI** 

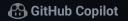


Q&A





## GitHub Copilot



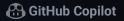
#### Beyond code completion



It's no longer just a code completion tool in your editor it now includes a chat interface that you can use in your IDE, a command line tool via a GitHub CLI extension, a summary tool in your pull requests, a helper tool in your terminals, and much, much more.

- Copilot

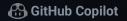






- LLMs are designed to make prediction based on the context provided
- Provide ample context is the key
- Copilot is able to infer from the code in IDE editor
- How about adding more context?

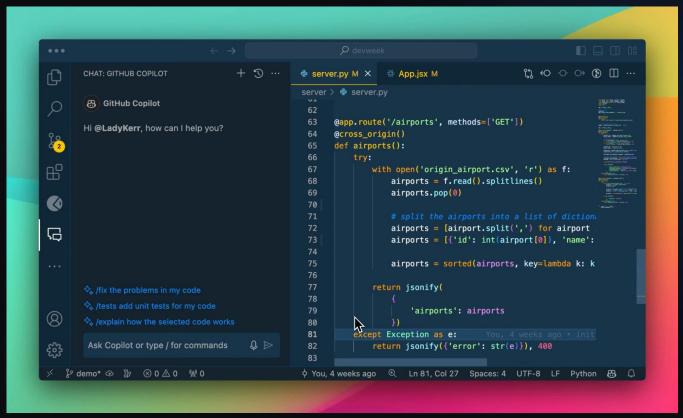




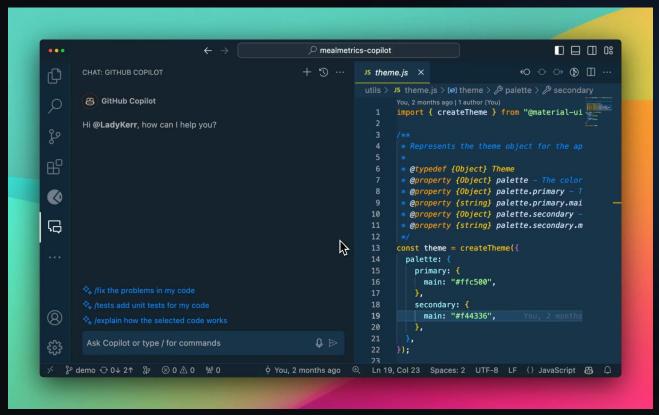


- Open Relevant files
- Provide Top level comment
- Set Includes and references

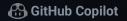








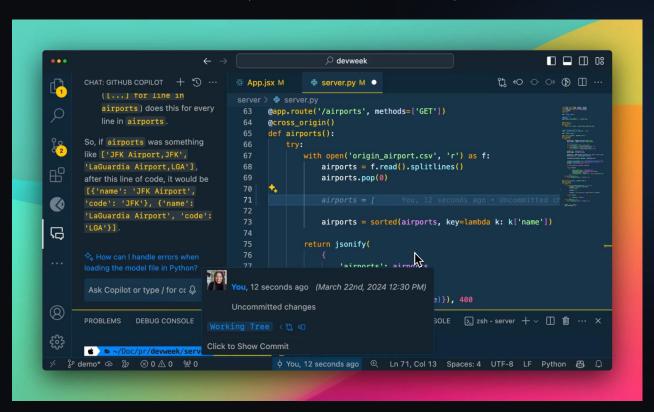




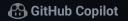


- Meaningful names
- Specific function comments
- Provide sample code
- Let's give them a try









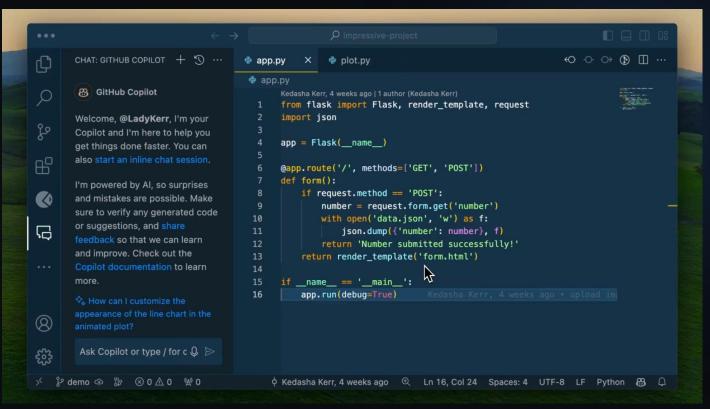
#### Inline Chat with GitHub Copilot



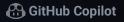
- CTRL + I on Windows
- Ask specific questions
- Inline code diffs
- Slash command support
- Let's give it a go



#### Inline Chat with GitHub Copilot



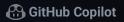




#### GitHub Copilot CLI



- You can use Copilot with the GitHub CLI to get suggestions and explanations for the command line.
- To ask Copilot in the CLI to explain a command, run gh copilot explain followed by the command that you want explained.
- To ask Copilot in the CLI to suggest a command, run gh copilot suggest followed by the command that you want



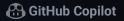
#### **Copilot Chat**



GitHub Copilot Chat provides an experience in your editor where you can have a conversation with the AI assistant. You can improve this experience by using built-in features to make the most out of it.

- Copilot



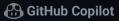


#### **Copilot Chat**



- Remove irrelevant requests
- Navigate through your conversation
- Use the @workspace agent
- Highlight relevant code
- Organize your conversations with threads





#### **Slash Commands**

Command	Description	Usage
/explain	Get code explanations	Open file with code or highlight code you want explained and type:
		/explain what is the fetchPrediction method?
/fix	Receive a proposed fix for the problems in the selected code	Highlight problematic code and type:
		/fix propose a fix for the problems in fetchAirports route
/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	Type:
		/clear
/doc	Add a documentation comment	Highlight code and type:
		/doc
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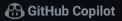




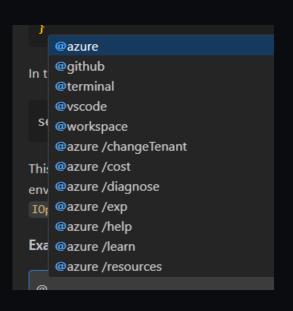
#### **Slash Commands**

/generate	Generate code to answer your question	Type: /generate code that validates a phone number
/optimize	Analyze and improve running time of the selected code	Highlight code and type: /optimize fetchPrediction method
/clear	Clear current chat	Type: /clear
/new	Scaffold code for a new workspace	Type: /new create a new django app
/simplify	Simplify the selected code	Highlight code and type: /simplify
/feedback	Provide feedback to the team	Type: /feedback



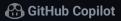


#### Workspace Agent

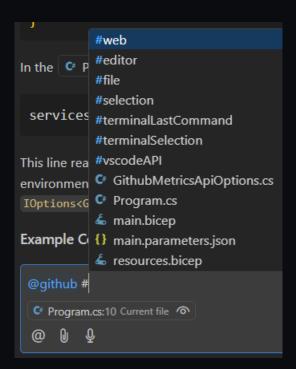


- Doesn't response straight away
- Analyzes the current workspace files and directories
- Creates a context from everything it was able to collect.



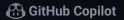


#### **Chat Variables**



- Use chat variables to include specific context in your prompt.
- Use # in the chat prompt box, followed by a chat variable.
- #web is in preview that uses Bing web search engine





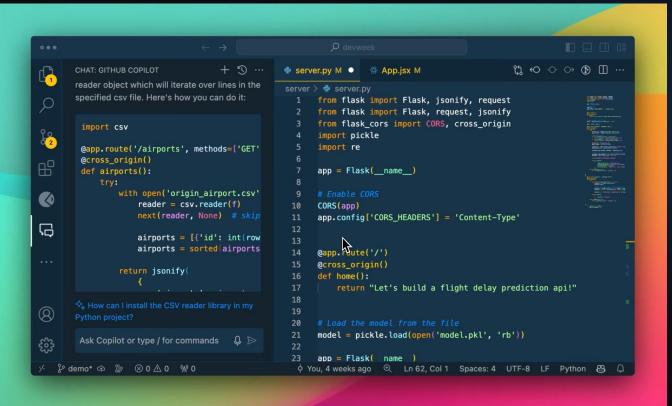
#### More tips



- Attach relevant files for reference
- Start with GitHub Copilot Chat for faster debugging
- Be on the lookout for sparkles!



#### More tips







#### Conclusion



- Context
- Prompt Crafting
- Stay in control

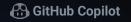




## GitHub Copilot Fundamentals Survey







## **Upcoming Sessions**

- 1 Intro to Prompt Engineering
- 2 Demo of Use Cases
- (3) Q&A Session



