

# AI for Cloud Developers: GitHub Copilot and Azure Copilot to the Rescue

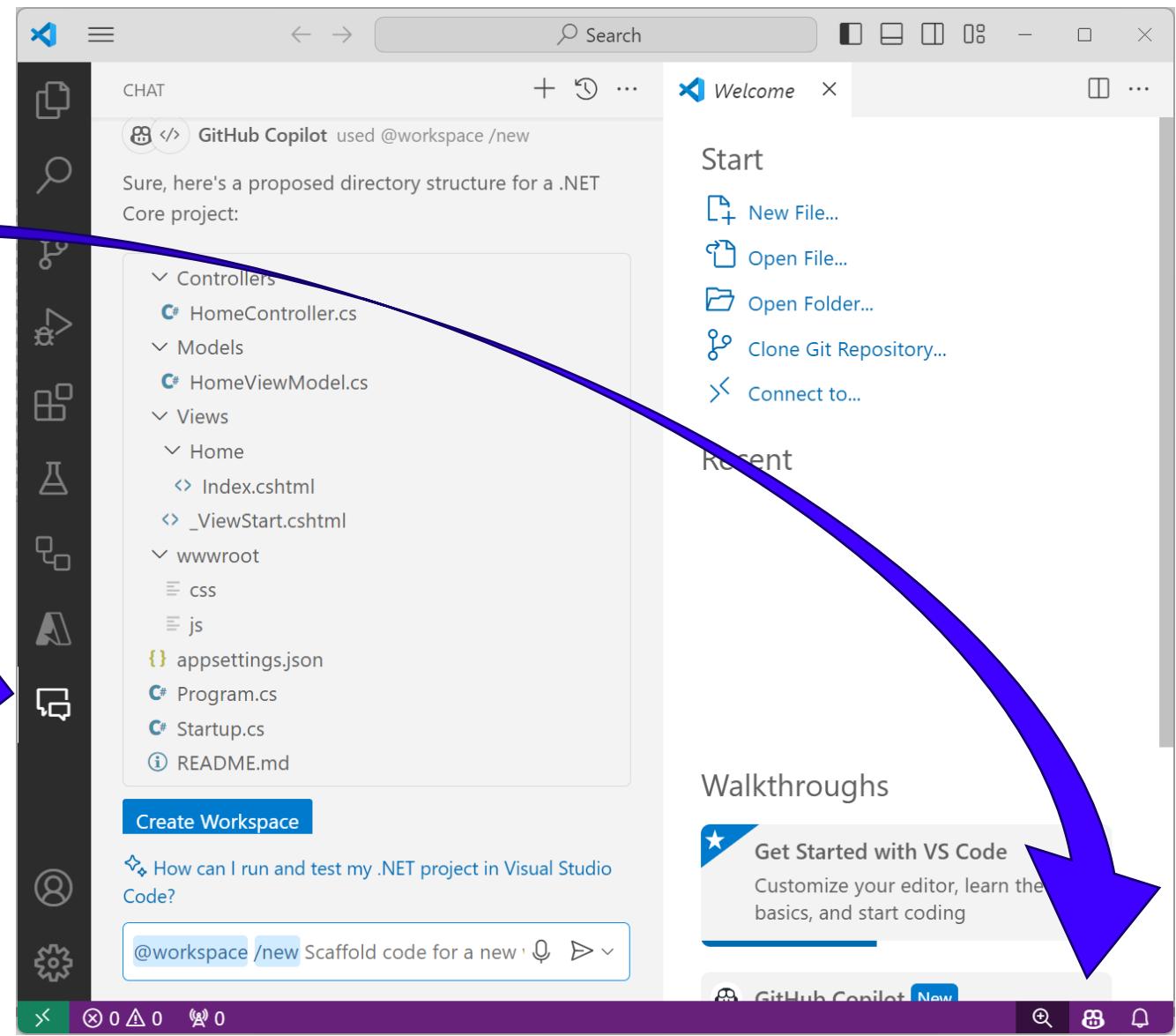
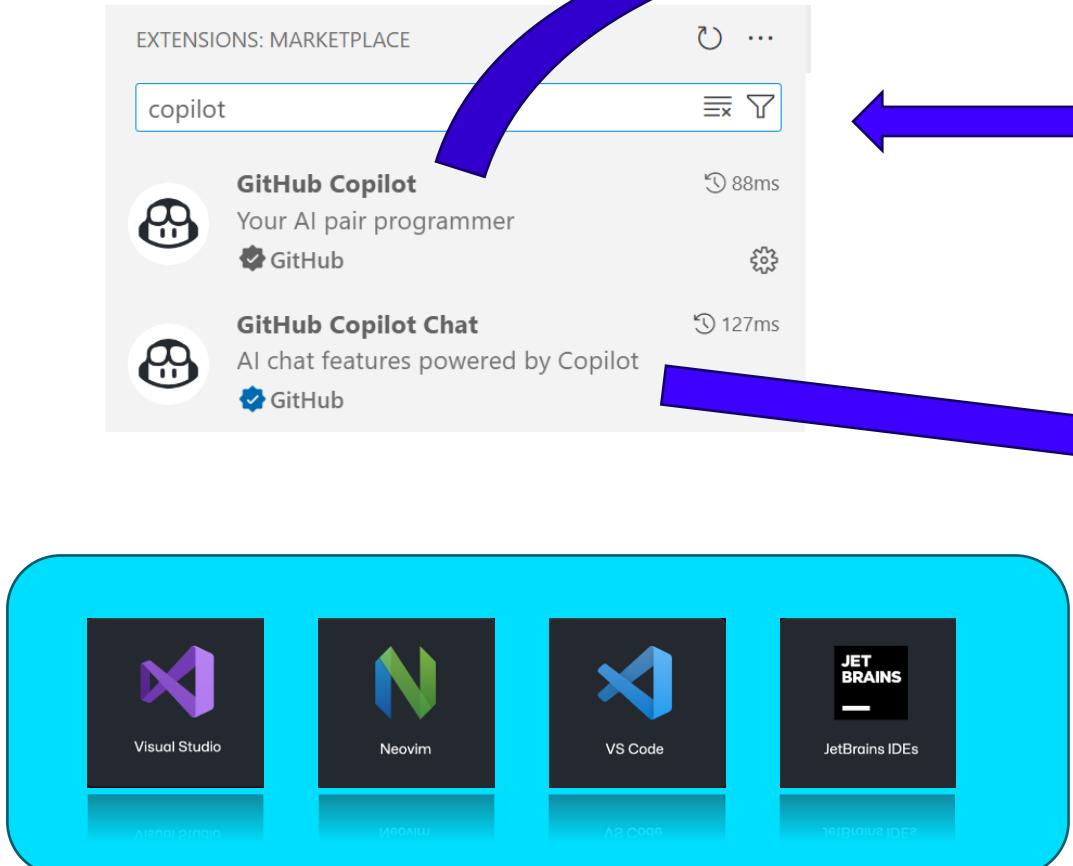
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# Sponsor



# Copilot in Your IDE



# When to use Copilot vs Copilot Chat

## Copilot

Direct Code Writing

Seamless IDE Integration

Solo Development

## Copilot Chat

\*not available in NeoVim

In-Depth Assistance

Learning & Teaching

Collaborative Scenarios

# How to Start with Copilot

## Visual Studio Code Editing evolved

### Start

New File...

Open File...

Open Folder...

Clone Git Repository...

Connect to...

### Documents

### Walkthroughs

Get Started  
Customize  
coding

GitHub Co

Learn the

The screenshot shows the Visual Studio Code interface with the GitHub Copilot welcome screen open. The top navigation bar includes File, Edit, Selection, View, ..., and a search bar. The left sidebar has icons for file operations like New File, Open File, and Open Folder, along with GitHub and Git icons. The main content area is titled "GitHub Copilot" with the subtitle "Your AI pair programmer to write code faster and with less work". A central callout box highlights "AI-powered suggestions" and "Prompts in comments". It also features a "Getting started videos" button. Below this are four circular icons: "Chat with Copilot", "Harness the power of context", "You are in control", and "Powered by your creativity". To the right, three examples demonstrate Copilot's capabilities: suggesting code as you type, implementing function signatures from comments, and prompting with specific instructions.

GitHub Copilot

Your AI pair programmer to write code faster and with less work

- AI-powered suggestions
- Prompts in comments
- Chat with Copilot
- Harness the power of context
- You are in control
- Powered by your creativity

As you type Copilot will suggest lines of code

```
const now = new Date();
const weekDay = now.getDay();
```

Get full implementation from function signatures and interfaces

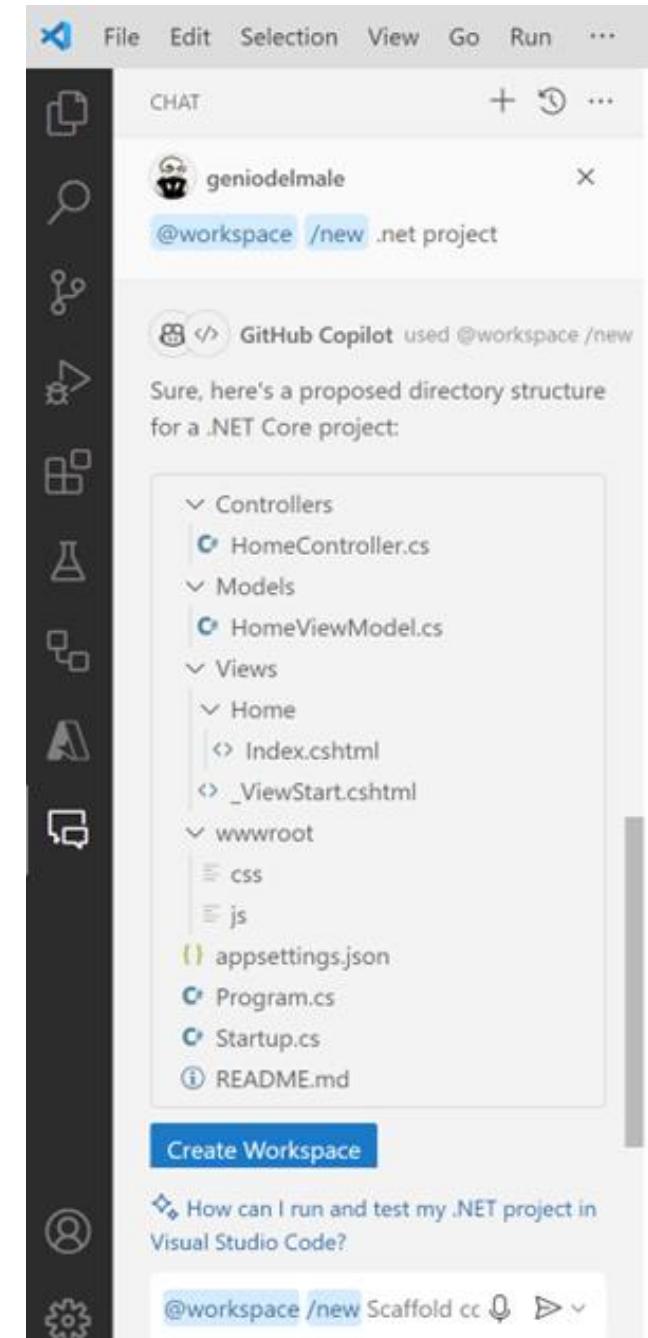
```
function daysAgo(from: Date, to?: Date): number {
  to = to || new Date();
  const diff = to.getTime() - from.getTime();
  return Math.floor(diff / (1000 * 60 * 60 * 24));
}
```

Prompt Copilot with specific instructions in comments

```
# Load survey and clean up data
survey = pd.read_csv('survey.csv')
survey = survey.dropna()
survey.head()
```

# Working in a project level

Type `/` command in GitHub Copilot Chat to start with a new project



# Writing Code...

The screenshot shows the Microsoft Visual Studio Code interface. On the left is a sidebar with various icons for file operations like Open, Save, Find, and Run. The main area has a Chat tab at the top with a "Create Workspace" button. Below it, a message from "geniodelmale" asks if a "util.cs" class can be added with a method to sum two numbers. A response from "GitHub Copilot" provides a sample C# code for a "Util" class with a "Sum" method. A context menu is open over the code, with the "Insert into New File" option highlighted. The code editor shows two files: "Util.cs" and "UtilTests.cs". "Util.cs" contains the "Util" class with a "Sum" method. "UtilTests.cs" is currently selected and shows a "Multiply" method being typed.

```
public class Util
{
    public static int Sum(int num1, int num2)
    {
        return num1 + num2;
    }
}

This class contains a static method Sum that takes two integers as parameters and returns their sum. You can use this method anywhere in your project by calling Util.Sum(num1, num2).
```

How can I call the `Sum` method from the `Util` class in my .NET project?

```
C# Util.cs • C# UtilTests.cs
C# Util.cs > Util > Mult
0 references
1 public class Util
2 {
3     0 references
4         public static int Sum(int num1, int num2)
5         {
6             0 references
7                 return num1 + num2;
8             0 references
9                 public static int Multiply(int num1, int num2)
10                {
11                    return num1 * num2;
12                }
13            }
```

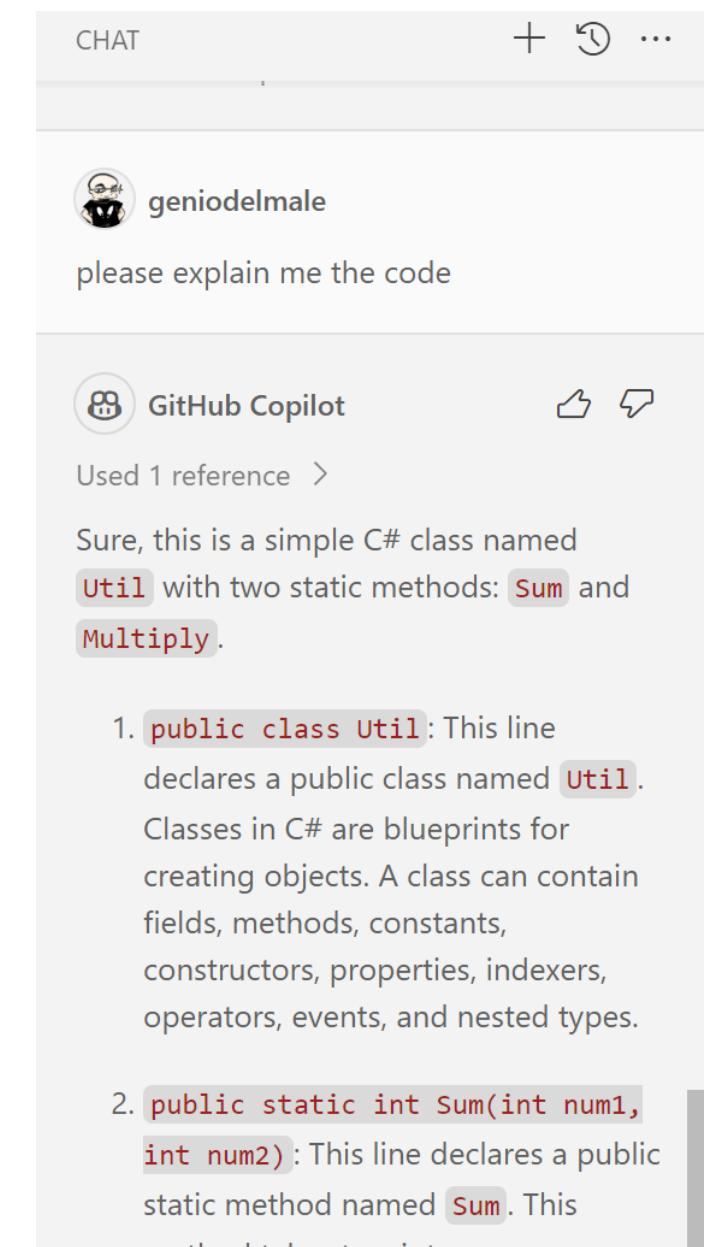
# ...Tests, and more...

The screenshot shows a code editor interface with a sidebar containing icons for file operations like Open, Save, and Undo. The main window has a title bar with tabs for "Util.cs" and "UtilTests.cs". A search bar at the top right contains the text "my-dotnet-app". The "UtilTests.cs" tab is active, showing the following C# code:

```
1  using NUnit.Framework;
2
3  [TestFixture]
4  public class UtilTests
5  {
6      [Test]
7      public void Sum_TwoPositiveNumbers_ReturnsCorrectSum()
8      {
9          int result = Util.Sum(5, 7);
10         Assert.AreEqual(12, result);
11     }
12
13     [Test]
14     public void Sum_NegativeAndPositiveNumber_ReturnsCorrectSum()
15     {
16         int result = Util.Sum(-3, 7);
17         Assert.AreEqual(4, result);
18     }
19
20     [Test]
21     public void Sum_TwoNegativeNumbers_ReturnsCorrectSum()
22     {
23         int result = Util.Sum(-3, -7);
24         Assert.AreEqual(-10, result);
25     }
26 }
```

In the left sidebar, there is a "CHAT" section where a user named "geniodelmale" asks, "can you create some test methods for Sum?". Below this, a "GitHub Copilot" section provides a response: "Sure, here's a simple unit test class for the `Sum` method in the `Util` class using NUnit. Used 1 reference >". The response includes the generated test code.

At the bottom of the editor, a footer bar says "How can I run the unit tests for my .NET" with a link icon.



# ...Refactoring...

CHAT + ⏱ ...

 geniodelmale

please refactor the code removing static members

 GitHub Copilot

Used 1 reference >

Sure, here's your refactored `Util` class with non-static methods:

```
public class Util
{
    public int Sum(int num1, int num2)
    {
        return num1 + num2;
    }
}
```

```
public int Multiply(int num1, int num2)
{
    return num1 * num2;
}
```

Now, to use these methods, you'll need to create an instance of the `Util` class:

```
Util util = new Util();
int sum = util.Sum(3, 4);
int product = util.Multiply(3, 4);
```

# ...and Comments!

The screenshot shows a split-screen interface. On the left is a 'CHAT' window with a message from 'geniodelmale' asking if comments can be added. On the right is a code editor for 'Util.cs'.

**Util.cs:**

```
public class Util
{
    // This method takes two integers as parameters and returns their sum.
    public static int Sum(int num1, int num2)
    {
        return num1 + num2;
    }

    // This method takes two integers as parameters and returns their product.
    public static int Multiply(int num1, int num2)
    {
        return num1 * num2;
    }
}
```

**GitHub Copilot:**

Used 1 reference >

Sure, here's your `Util` class with added comments:

```
public class Util
{
    // This method takes two integers as parameters and returns their sum.
    public static int Sum(int num1, int num2)
    {
        return num1 + num2;
    }

    // This method takes two integers as parameters and returns their product.
    public static int Multiply(int num1, int num2)
    {
        return num1 * num2;
    }
}
```

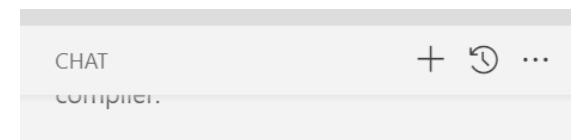
# Creating Sample Data

CHAT + ⏪ ... C# Util.cs • { Untitled-1 • C# UtilTests.cs

geniodelmale  
can you create a sample json file with 10 records with Italian person names, surnames, phone numbers and addresses?

GitHub Copilot  
Used 1 reference >  
Sure, here's a sample JSON file with 10 records of Italian person names, surnames, phone numbers, and addresses:

```
[  
  {  
    "name": "Giovanni",  
    "surname": "Rossi",  
    "phone": "+39 0123 456789",  
    "address": "Via Roma, 10, 00100 Roma, Italy"  
  },  
  {  
    "name": "Maria",  
    "surname": "Bianchi",  
    "phone": "+39 0123 456788",  
    "address": "Via Milano, 20, 20100 Milano, Italy"  
  },  
  {  
    "name": "Luca",  
    "surname": "Verdi",  
    "phone": "+39 0123 456787",  
    "address": "Via Napoli, 30, 80100 Napoli, Italy"  
  },  
  {  
    "name": "Anna",  
    "surname": "Russo",  
    "phone": "+39 0123 456786",  
    "address": "Via Torino, 40, 10100 Torino, Italy"  
  },  
  {  
    "name": "Marco",  
    "surname": "Papadopoulos",  
    "phone": "+30 210 123456",  
    "address": "Λεωφόρος Συγγρού, 10, 10100 Αθήνα, Ελλάς"  
  },  
  {  
    "name": "Giorgos",  
    "surname": "Kostopoulos",  
    "phone": "+30 210 123457",  
    "address": "Λεωφόρος Συγγρού, 12, 10100 Αθήνα, Ελλάς"  
  },  
  {  
    "name": "Dimitris",  
    "surname": "Papadopoulos",  
    "phone": "+30 210 123458",  
    "address": "Λεωφόρος Συγγρού, 14, 10100 Αθήνα, Ελλάς"  
  },  
  {  
    "name": "Spyros",  
    "surname": "Kostopoulos",  
    "phone": "+30 210 123459",  
    "address": "Λεωφόρος Συγγρού, 16, 10100 Αθήνα, Ελλάς"  
  },  
  {  
    "name": "Athanasios",  
    "surname": "Papadopoulos",  
    "phone": "+30 210 123460",  
    "address": "Λεωφόρος Συγγρού, 18, 10100 Αθήνα, Ελλάς"  
  },  
  {  
    "name": "Panagiotis",  
    "surname": "Kostopoulos",  
    "phone": "+30 210 123461",  
    "address": "Λεωφόρος Συγγρού, 20, 10100 Αθήνα, Ελλάς"  
  }]
```

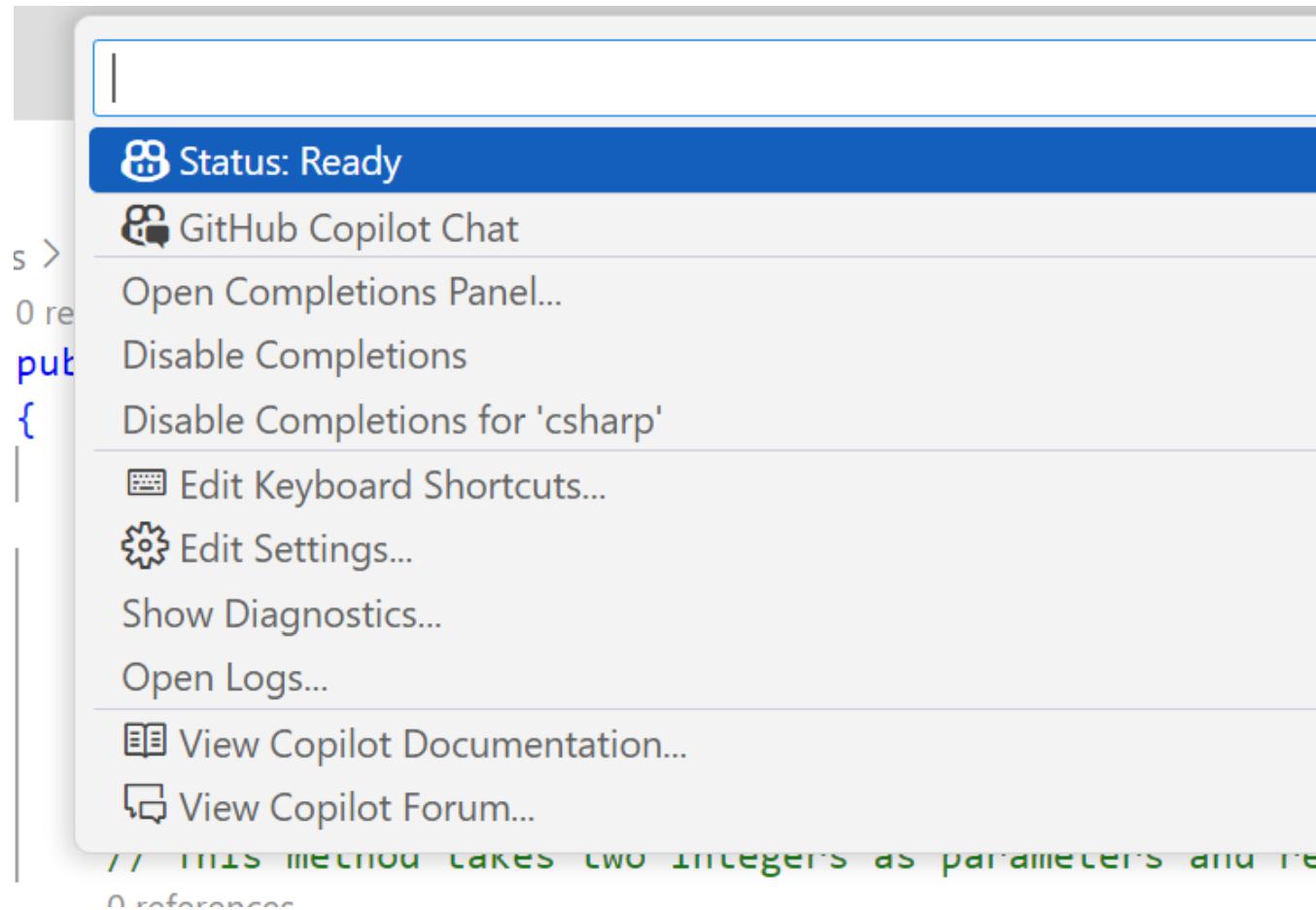


can you create a sample json file with 10 records with Greek person names, surnames, phone numbers and addresses?

GitHub Copilot  
Used 1 reference >  
Sure, here's a sample JSON file with 10 records of Greek person names, surnames, phone numbers, and addresses:

```
[  
  {  
    "name": "Γιάννης",  
    "surname": "Παπαδόπουλος",  
    "phone": "+30 210 123456",  
    "address": "Λεωφόρος Συγγρού, 10, 10100 Αθήνα, Ελλάς"  
  },  
  {  
    "name": "Μαρία",  
    "surname": "Νικολάου",  
    "phone": "+30 210 123457",  
    "address": "Λεωφόρος Συγγρού, 12, 10100 Αθήνα, Ελλάς"  
  },  
  {  
    "name": "Λουκάς",  
    "surname": "Βερτσίδης",  
    "phone": "+30 210 123458",  
    "address": "Λεωφόρος Συγγρού, 14, 10100 Αθήνα, Ελλάς"  
  },  
  {  
    "name": "Αννα",  
    "surname": "Ρουσού",  
    "phone": "+30 210 123459",  
    "address": "Λεωφόρος Συγγρού, 16, 10100 Αθήνα, Ελλάς"  
  },  
  {  
    "name": "Μάρκος",  
    "surname": "Παπαδόπουλος",  
    "phone": "+30 210 123460",  
    "address": "Λεωφόρος Συγγρού, 18, 10100 Αθήνα, Ελλάς"  
  },  
  {  
    "name": "Δημήτρης",  
    "surname": "Παπαδόπουλος",  
    "phone": "+30 210 123461",  
    "address": "Λεωφόρος Συγγρού, 20, 10100 Αθήνα, Ελλάς"  
  }]
```

# Tracking Suggestions



A screenshot of a code editor showing GitHub Copilot suggestions for a file named "Util.cs". The title bar says "GitHub Copilot Suggestions for Util.cs".

**GitHub Copilot Suggestions**

5 Suggestions

**Suggestion 1**

```
}
```

The Util `class` has two methods: Sum and Multiply. The Sum method takes two integers as parameters and returns their sum. The Multiply method takes two integers as parameters and returns their product.

The UtilTests class contains three test methods:  
Sum\_TwoPositiveNumbers\_ReturnsCorrectSum Sum\_NegativeAndPositiveNumber\_ReturnsCorrectSum Sum\_TwoNegativeNumbers\_ReturnsCorrectSum

Each test method calls the Sum method from the Util class and asserts

**Accept suggestion 1**

**Suggestion 2**

```
}
```

// Path: Program.cs

# GitHub Copilot CLI

```
$ gh copilot --help
Your AI command line copilot.
```

Usage:

```
copilot [command]
```

Examples:

```
$ gh copilot suggest "Install git"
$ gh copilot explain "traceroute github.com"
```

Available Commands:

<code>alias</code>	Generate shell-specific aliases <code>for</code> convenience
<code>config</code>	Configure options
<code>explain</code>	Explain a <code>command</code>
<code>suggest</code>	Suggest a <code>command</code>

Flags:

<code>-h, --help</code>	<code>help</code> <code>for</code> copilot
<code>-v, --version</code>	<code>version</code> <code>for</code> copilot

Use "`copilot [command] --help`" `for` more information about a command.

<https://github.com/github/gh-copilot>



# Create PR Summaries

The screenshot shows a GitHub pull request page for a repository named `octodemo / geektrainer-demo-conference`. The pull request is titled `Add Django messages to submit and edit flows #12`. The status is `Open`, and it shows that GeekTrainer wants to merge 1 commit from the `main` branch into the `add-success-messages` branch.

Key details visible on the page include:

- Conversation:** 0 comments
- Commits:** 1 commit by GeekTrainer, last updated 7 hours ago, with a commit message: `Add Django messages to submit and edit flows` and hash `0fb4de0`.
- Checks:** 0 checks.
- Files changed:** 2 files.
- Code changes:** +11 -2 lines of code.
- Reviewers:** No reviews.
- Assignees:** No one—assign yourself.
- Labels:** None yet.

At the bottom of the page, there is a note: "Add more commits by pushing to the `add-success-messages` branch on `octodemo/geektrainer-demo-conference`".

# Tips & Tricks

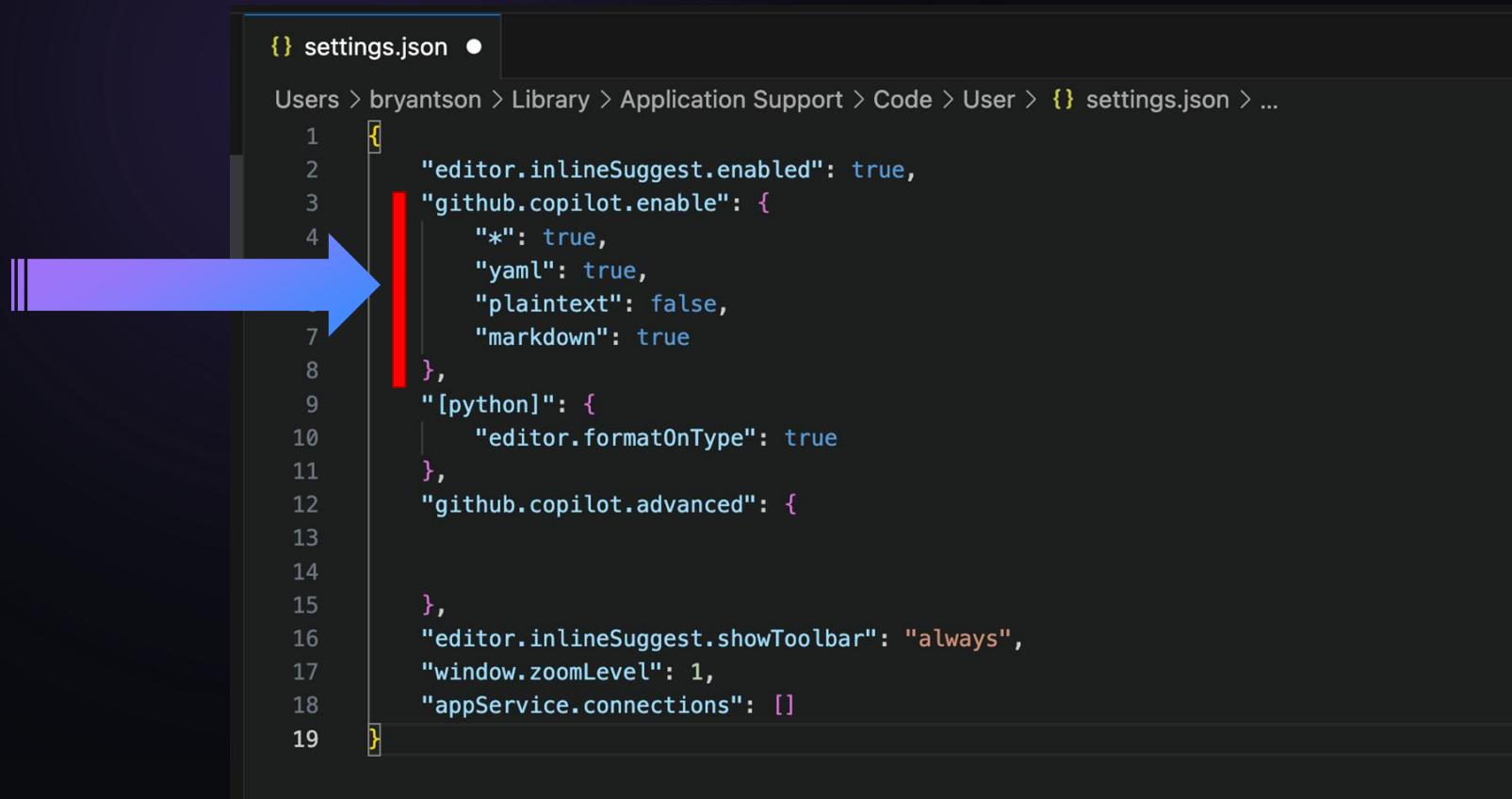
for working with  
your projects



# Enable non-programming Meta Files

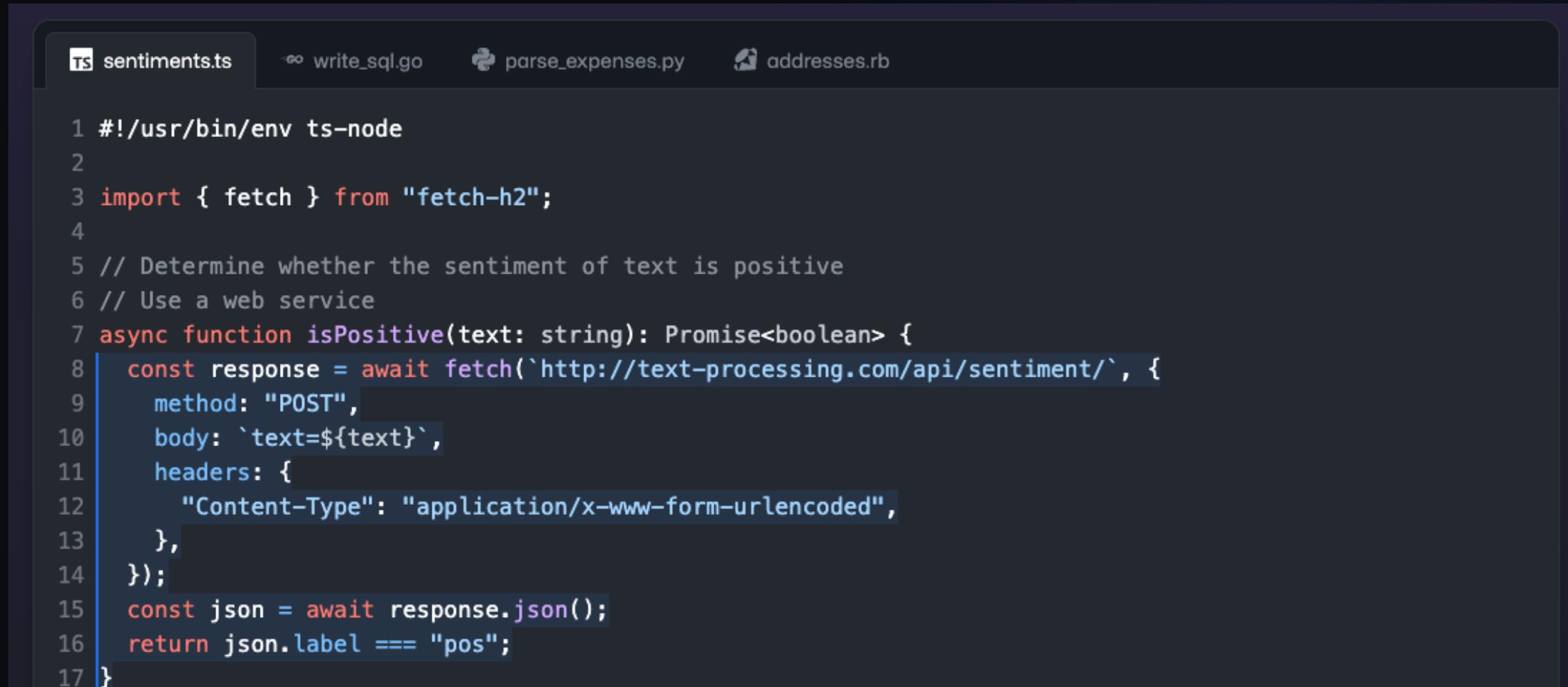
In **settings.json**, add

```
"github.copilot.enable":  
{  
    "*": true,  
    "yaml": true,  
    "plaintext": false,  
    "markdown": true  
}
```



```
{} settings.json ●  
Users > bryantson > Library > Application Support > Code > User > {} settings.json > ...  
1  "editor.inlineSuggest.enabled": true,  
2  "github.copilot.enable": {  
3      "*": true,  
4      "yaml": true,  
5      "plaintext": false,  
6      "markdown": true  
7  },  
8  "[python)": {  
9      "editor.formatOnType": true  
10 },  
11  "github.copilot.advanced": {  
12      },  
13  },  
14  "editor.inlineSuggest.showToolbar": "always",  
15  "window.zoomLevel": 1,  
16  "appService.connections": []  
17  }  
18  }  
19  }
```

# Neighboring Tabs



A screenshot of a code editor interface. At the top, there are four tabs: 'sentiments.ts' (selected), 'write\_sql.go', 'parse\_expenses.py', and 'addresses.rb'. The main area shows the content of the 'sentiments.ts' file:

```
1 #!/usr/bin/env ts-node
2
3 import { fetch } from "fetch-h2";
4
5 // Determine whether the sentiment of text is positive
6 // Use a web service
7 async function isPositive(text: string): Promise<boolean> {
8   const response = await fetch(`http://text-processing.com/api/sentiment/`, {
9     method: "POST",
10    body: `text=${text}`,
11    headers: {
12      "Content-Type": "application/x-www-form-urlencoded",
13    },
14  });
15  const json = await response.json();
16  return json.label === "pos";
17}
```

# Multiple chats with different contexts

The screenshot shows a Visual Studio Code interface with a dark theme. On the left is a sidebar with icons for File, Edit, Selection, View, Go, Run, Terminal, Help, CHAT, GitHub Copilot, and other tools. The main area has a tab bar with 'CHAT' and 'Welcome'. The 'Welcome' tab is active, displaying a message from GitHub Copilot: "Hi @geniodelmale, how can I help you?". Below this, there is a sub-tab bar with 'Working with YAML files in Visual Studio Code' and 'how can I work with docker inside @vscode'. The main content area shows a section titled "6. Use Docker Compose (Optional)":

- If your project requires multiple services, you can use Docker Compose.
- Create a `docker-compose.yml` file in your project directory and define your services.

Example `docker-compose.yml`:

```
version: '3'
services:
  web:
    build: .
    ports:
      - "8080:8080"
```

• Run the services using:

```
docker-compose up
```

By following these steps, you can effectively work with Docker inside Visual Studio Code.

How can I debug a Docker container in Visual Studio Code?

Ask Copilot or type / for commands

# Slash commands

“Create a new workspace with Node.js Express Pug TypeScript”

VS

“@workspace /new Node.js Express Pug TypeScript”

**/doc** to add a documentation comment

**/explain** to explain the code *including implementations of ref symbols*

**/fix** to propose a fix for the problems in the selected code

**/generate** to generate code to answer your question

**/help** to get help with Copilot Chat

**/optimize** to analyze and improve the running time of the selected code

**/tests** to create unit tests for the selected code

**/new** to scaffold code for a new workspace

**/newNotebook** to create a new Jupyter Notebook

**/help** to not remember everything above

# Agents and Extensions

@workspace

⌨️ *Ctrl-Enter in Chat view*

Knows how to gather context about the code in your workspace, can help you navigate it, find relevant classes, files, etc.

**Powered by:**

- GitHub's knowledge graph combined with semantic search
- Local code indexes
- VS Code's language services

@terminal

- Knows about the operating system and the shell used
- Workspace information can be explicitly pulled in

@vscode

- Knows about commands and features in the VS Code editor itself

# Available extensions...

 <b>Docker for GitHub Copilot</b>  Learn about containerization, generate Docker assets and analyze project vulnerabilities in GitHub Copilot		 <b>ReadMe API</b>  Ask questions about the ReadMe API and get help with code, directly in VS code	
 <b>Octopus for GitHub Copilot</b>  The Octopus extension allows a cloud hosted Octopus instance to be queried via the GitHub Copilot chat interface		 <b>Product Science</b> Get help with performance optimization techniques to make your code faster	
 <b>Sentry Copilot Extension</b>  The Sentry Copilot Extension allows developers to fix broken code from the GitHub UI		 <b>LambdaTest</b>  Design, implement and analyze test automation right where you code	
 <b>Teams Toolkit</b> Create, debug, and deploy Teams apps with Teams Toolkit for GitHub Copilot		 <b>DataStax</b> Chat with your data! Write queries and code with natural language	
 <b>Pinecone AI</b> Developers can leverage this app to gain crucial context or build AI applications with vector databases		 <b>LaunchDarkly for GitHub Copilot</b> The LaunchDarkly Copilot Extension, available under @launchdarkly-app	
 <b>New Relic Copilot Extension</b> New Relic AI-powered insights for app performance, monitoring, and deployment optimization		 <b>Atlassian Rovo</b>  Atlassian Rovo for GitHub Copilot brings your company's knowledge to your code	
 <b>Pangea</b>  The essential security features you need in API-based services that can be implemented easily with just a few lines of code		 <b>JFrog for GitHub Copilot</b>  Get version, security, compliance & other package insights, tailored to your company, without leaving your coding workflow	
 <b>Skryamp for GitHub Copilot</b>  Your Personal Quality Engineer			

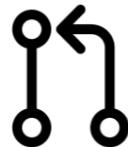
# Github Copilot for Azure



**1. In-Chat Azure Expertise:** Simply type "@azure" in Copilot Chat and get real-time insights and answers without leaving your code.



**2. Personal Resource Management:** Need to list your storage accounts or find the URL for your Azure container app? GitHub Copilot for Azure has your back.



**3. Deployment Guidance:** Need help understanding how to deploy an application on Azure? GitHub Copilot can provide guidance and help along the way.



**4. Troubleshooting:** GitHub Copilot for Azure can help you navigate Log Analytics to diagnose your problems.

[https://microsoft.qualtrics.com/jfe/form/SV\\_4OCHtDpnNfB1Meq](https://microsoft.qualtrics.com/jfe/form/SV_4OCHtDpnNfB1Meq)



# Why chatting with/about your code?

- Cleaner and better control over code generation
- Provide desired context and *keep it*
- Existing code-related tasks: fix, explain, document & more
- Non-code tasks: Terminal, IDE docs
- Accessing external knowledge bases

# Chat with Copilot directly in github.com

A screenshot of a GitHub repository page. The repository name is 'github/gITHUB-Ospo'. The 'Code' tab is selected. In the top right corner of the header, there is a 'Chat with Copilot' button. Below the header, there are standard GitHub navigation icons and statistics: '95' commits, '54' forks, and '564' starred repositories. The main content area shows an 'About' section with the text: 'Helping open source program offices get started'. It includes a link to a blog post ('github.blog/2023-03-13-an-open-sourc...'), several tags ('open-source', 'ospo', 'open-source-program-office'), and links to 'Readme' and 'MIT License'.

A screenshot of the 'New conversation' interface in GitHub. The repository 'Chatting about github/gITHUB-Ospo' is selected. A message states: 'You can ask questions like "What does this file do?" or "Where is this functionality defined?".' Another message notes: 'Copilot is powered by AI, so surprises and mistakes are always possible.' A warning message says: '💡 This repository is not currently indexed for semantic code search.' It explains: 'Copilot uses semantic code search to greatly improve response quality and accuracy.' At the bottom, there is a green button labeled 'Index this repository' and a message indicating that semantic code search is available and enabled.



## Chat with Copilot

Copilot indexes and understands your code so you can get answers to questions, learn about new codebases, or improve legacy code.

### Select a docset or repository to chat about

Search topics

#### Docsets

- GitHub Advanced Security →
- GitHub Engineering →
- GitHub Public →
- GitHub TheHub →
- Primer →
- GitHub A11y Docs →
- TypeScript →

#### Repositories

- github/enterprise-advocates →
- github/customer-engagement-programs →

DocSets  
available only  
on GH Copilot  
Enterprise

What is a geometric filter?

 Copilot Generating...

- Geometric Filter definition (in [geometric\\_filter.rs](#)):

- The Geometric Filter is a probabilistic set size estimator, distinct from related filters like HyperLogLog, MinHash, and others.
- It supports operations such as insertion and deletion, which are expressed by simply toggling the bit associated with the hash of the original item.
- The symmetric difference between two sets is denoted by a simple XOR operation of the associated Geometric Filters, however, it doesn't support the union operation.
- Unlike other set estimators, the estimated size of the symmetric difference between two sets is relative to the estimate size and not relative to the union of the original two sets.
- The Geometric Filter retains bits necessary to find potentially single item differences with

Indexing repositories is not a requirement and will not affect responses to questions about information in knowledge bases, pull requests, issues, discussions, or commits. However, indexing can help Copilot Chat answer questions that relate directly to the code within a repository.

The indexing status of a repository is displayed on GitHub.com when you start a conversation that has a repository context. You can index the repository if it has not been indexed yet.

After you index a repository it is automatically re-indexed every time a change is pushed to the repository.

## Indexing limits

---

	Copilot Individual	Copilot Business	Copilot Enterprise
Repository limit	5	50	Unlimited

# Copilot can understand your organization's repositories and knowledge base.

## Discover

Does code already exist for this?

Help! I need step-by-step instructions.

## Explain

What does this code do?

Why is this important?

## Analyze

What needs my attention?

Does anything here use anti-patterns?

# “Luckily” also Copilot has its limits, for now.

Training data impacts suggestions

GitHub Copilot != Compiler, tester, security scanner, etc.

The AI can't read your mind, yet.

[arxiv.org/pdf/2211.06956.pdf](https://arxiv.org/pdf/2211.06956.pdf)





Copilot Individual  
can improve  
productivity and  
code quality.

55%

faster **coding**

46%

**of code** written by  
AI

15%

higher **code quality**

**Focus on the code that only **YOU** can write!**



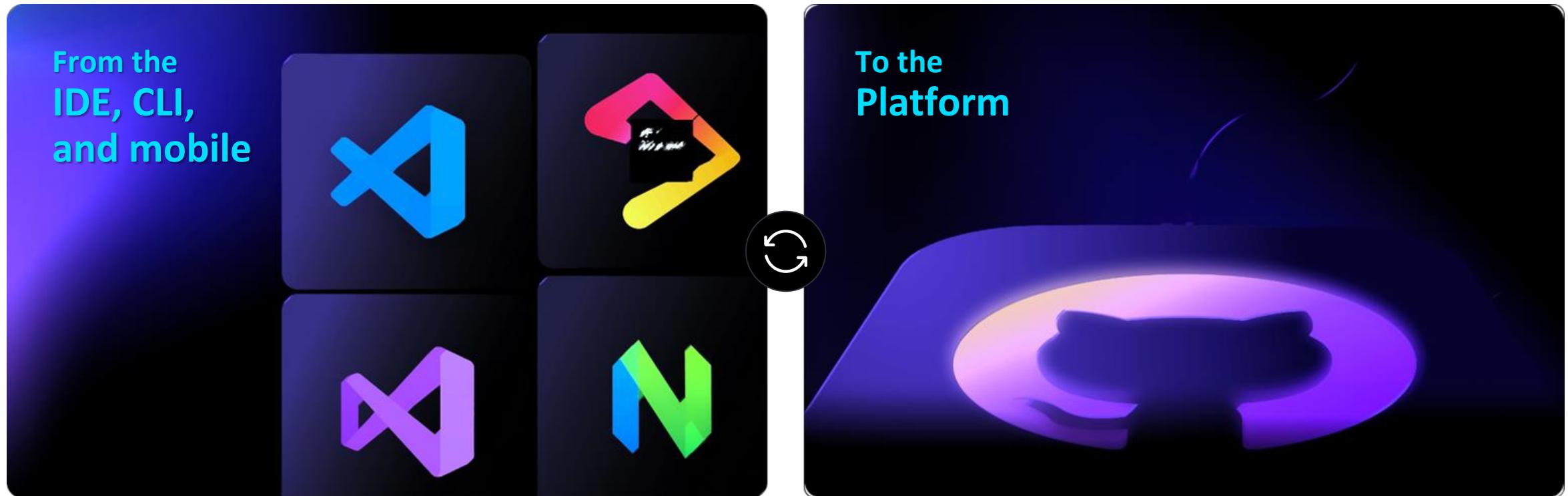
Copilot Business has the same features of Copilot Individual, but with more control on users and IP.

## Management and policies

- ✓ Public code filter
- ✓ User management
- ✓ Data excluded from training by default
- ✓ IP indemnity
- ✓ Content exclusions
- ✓ SAML SSO authentication<sup>2</sup>

<https://resources.github.com/copilot-trust-center/>

# Copilot Enterprise\* for an AI-powered software development lifecycle.



\*Requires GitHub Enterprise Cloud



# Fine-tuned models (in limited beta)

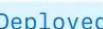
## Fine-tuned models

 **Shoelace-AI model has been deployed to Shoelace-AI**

Congratulations! Your first custom model has been successfully trained and deployed. Your team can now start using it in your IDE.

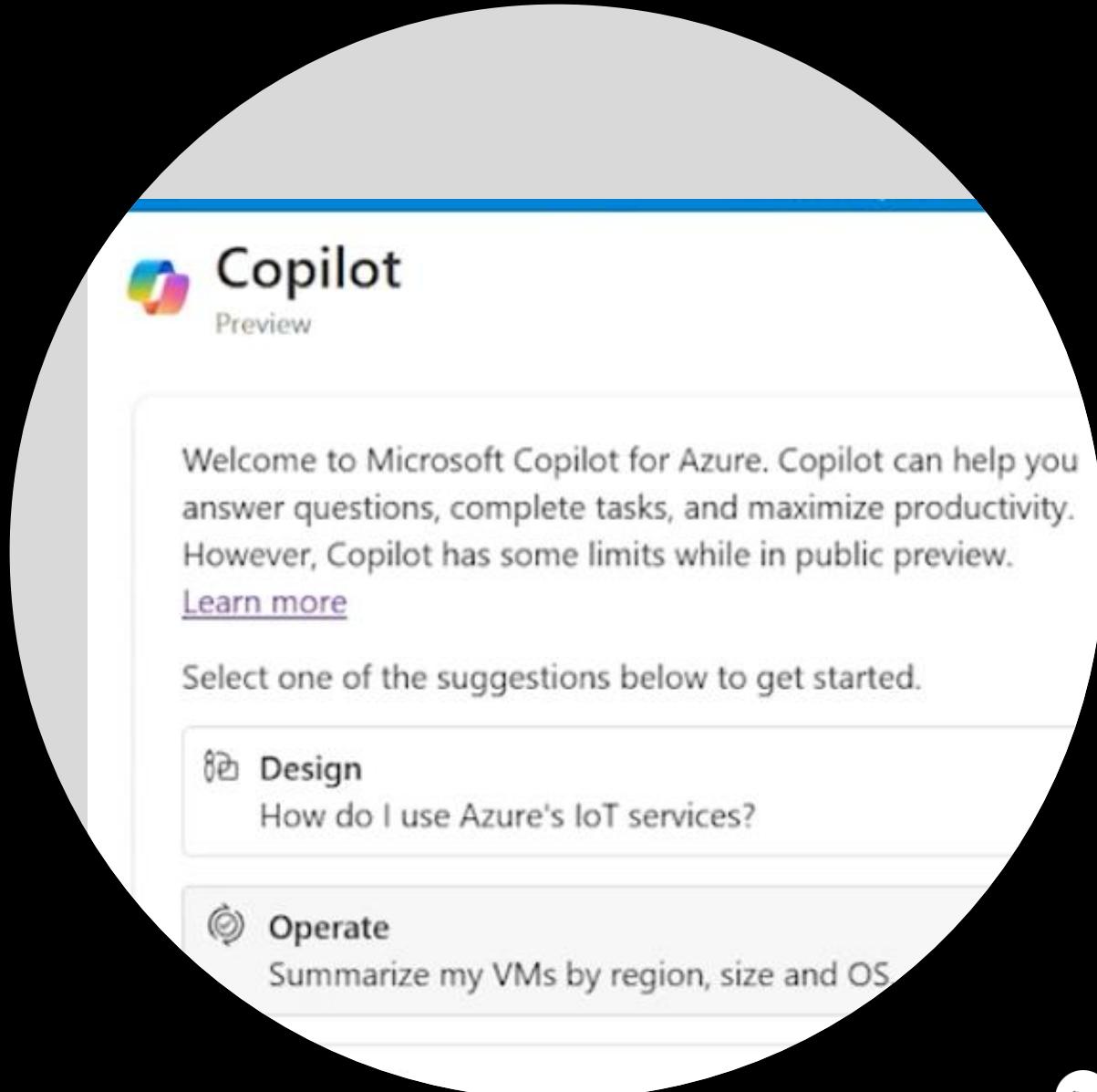
Created 2 seconds ago by	Status	Repositories	Telemetry collection
 monalisa	 <b>Deployed</b>	<b>4,000</b>	<b>On</b>

### Training history

-  **Shoelace-AI model**  
monalisa created 2 days ago
-  **Shoelace-AI model**   
monalisa created 20 days ago

one  
software

# Copilot for Azure



Home &gt;

PSLinuxVM ⚡ ⭐ ...

# Copilot for Azure CLI

- [Search](#)
- [Cloud](#)
- [Access control \(IAM\)](#)
- [Tags](#)
- [Resource visualizer](#)
- [Events](#)
- [Settings](#)
- [Cost Management](#)
- [Monitoring](#)
- [Automation](#)
- [Help](#)

Subscription ([move](#)) : [steven\\_ma \[stema\] subscription](#)

Subscription ID : dbf3b6cb-c1d0-4d04-94b9-51509b8d33fd

Tags ([edit](#)) : Add tags

Resources Recommendations (10)

Filter for any field... Type equals all Location equals all + Add filter

Name ↑	Type
mysshkey	SSH key
PSLinuxVM	Virtual machine
PSLinuxVM	Network Interface
PSLinuxVM	Network security group
<small>Virtual network</small>	

[Switch to PowerShell](#) [Restart](#) [Manage files](#) [New session](#) [Editor](#) [Web preview](#) [Settings](#) [Help](#)

Requesting a Cloud Shell. **Succeeded.**

Connecting terminal...

Welcome to Azure Cloud Shell

Type "az" to use Azure CLI

Type "help" to learn about Cloud Shell

damien [ ~ ]\$

Copilot  
Preview

Welcome to Microsoft Copilot for Azure. Copilot can help you answer questions, complete tasks, and maximize productivity. However, Copilot has some limits while in public preview.  
[Learn more](#)

Select one of the suggestions below to get started.

Design  
Scale out my Kubernetes cluster to 5 nodes.

Operate  
What is the distribution of resource types across my subscriptions?

Optimize  
What are the differences between standard and premium Azure file shares?

Troubleshoot  
Can you run anomaly detection on my Azure edge resources?

I want to ...

0 / 500



**Contoso-TestVM**

Virtual machine

Search

[Connect](#) [Start](#) [Restart](#) [Stop](#) [Hibernate](#) [Capture](#) [Delete](#) [Refresh](#) [Open in mobile](#) [Feedback](#) [CLI / PS](#)**Overview**Resource group ([move](#))[ContosoRG](#)

Status

Stopped (deallocated)

Location

West US

Subscription ([move](#))[IbizaFx - GPT integration](#)

Subscription ID

0531c8c8-df32-4254-a717-b6e983273e5f

Operating system

Linux

Size

Standard B1ls (1 vcpu, 0.5 GiB memory)

Public IP address

13.93.222.67

Virtual network/subnet

[Contoso-TestVM-vnet/default](#)

DNS name

[Not configured](#)

Health state

-

Time created

5/16/2024, 11:04 PM UTC

[View Cost](#) | [JSON View](#)

No new notifications from this session

[More events in the activity log](#)Tags ([edit](#))

azsecpack : nonprod

▼ More (1)

**Properties****Monitoring****Capabilities (7)****Recommendations****Tutorials****Virtual machine**

Computer name

Contoso-TestVM

Operating system

Linux

VM generation

V2

VM architecture

x64

Hibernation

Disabled

Host group

-

**Networking**

Public IP address

13.93.222.67 ( Network interface )

contoso-testvm315

Public IP address (IPv6)

-

Private IP address

10.2.0.4

Private IP address (IPv6)

-

Virtual network/subnet

[Contoso-TestVM-vnet/default](#)

# Copilot for Troubleshooting



# Copilot for YAML Editor

Add with YAML ...

Not sure where to start? Deploy a quickstart application to get up and running.

ⓘ Get YAML code from Copilot Specify your Kubernetes requirements and receive a customized YAML template in seconds.

YAML

```
1+apiVersion: apps/v1
2+kind: Deployment
3+metadata:
4+  name: azure-vote-front
5+spec:
6+  replicas: 1
7+  selector:
8+    matchLabels:
9+      app: azure-vote-front
10+   template:
11+     metadata:
12+       labels:
13+         app: azure-vote-front
14+     spec:
15+       containers:
16+         - name: azure-vote-front
17+           image: mcr.microsoft.com/azure-vote-front:v2
18+         ports:
19+           - containerPort: 80
20+...
21+apiVersion: v1
22+kind: Service
23+metadata:
24+  name: azure-vote-front
25+spec:
26+  type: LoadBalancer
27+  ports:
28+    - port: 80
29+  selector:
30+    app: azure-vote-front
```

Draft with Copilot PREVIEW

generate a simple voting app using the mcr.microsoft.com/azure-vote-frontv2 image ➔

Accept



Confirm me

AI-generated code may be incorrect.  
Changed 30 lines.



Preview

Welcome to Microsoft Copilot for Azure. Copilot can help you answer questions, complete tasks, and maximize productivity. However, Copilot has some limits while in public preview.

Learn more

Select one of the suggestions below to get started.



Design  
How can Azure help me simplify integrations and create automated workflows?



Operate  
Generate a table with the count of resources per public IP address.



Optimize  
Can I convert an existing standard general-purpose v2 storage account to a Premium block blob storage account?



Troubleshoot  
Why is my Azure database performance slow?

Create a yaml deployment

Would you like to navigate to the YAML deployment editor for the alexok-test-upgrade cluster?

Navigate to YAML Editor

AI-generated content may be incorrect



1 of 15 requests

How can I scale up my AKS cluster using YAML

What does my AKS YAML deployment file mean

Edit existing AKS YAML deployment file

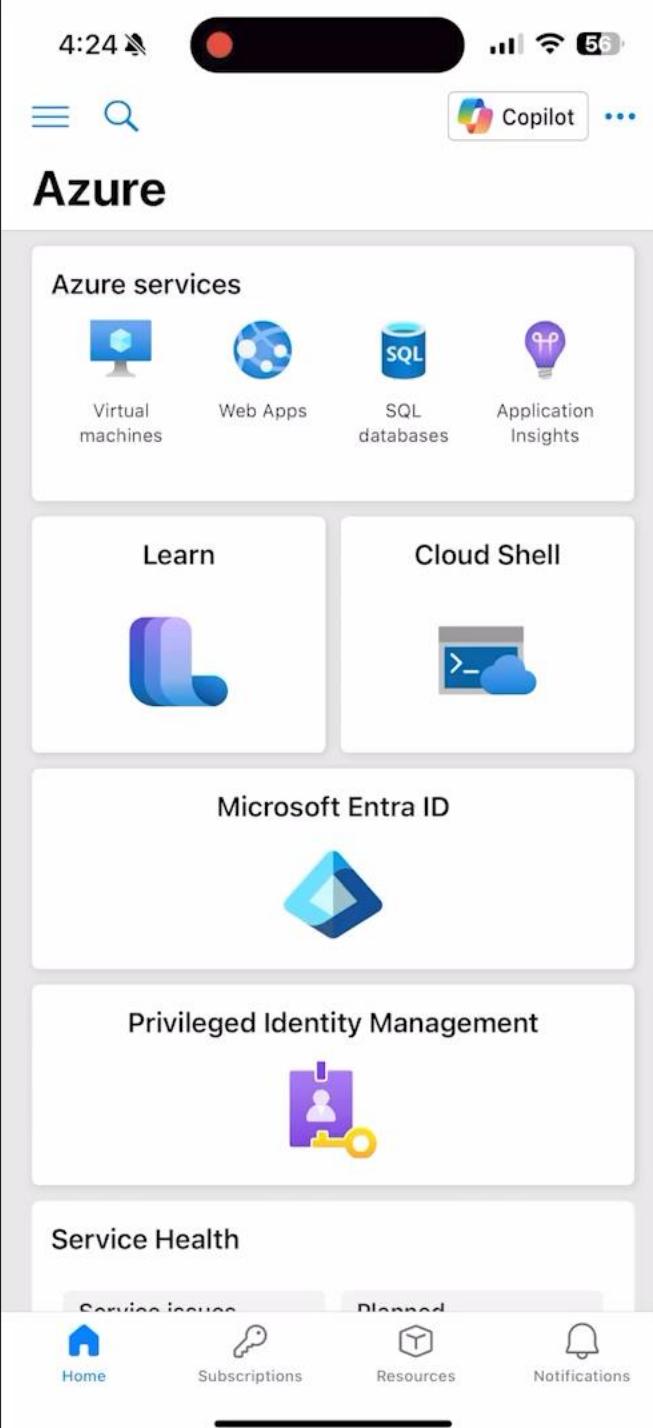
I want to ...

# Copilot for Azure has a lot of other features

- AKS Cluster Management

Azure Resource Graph

ARM & Terraform



# Microsoft Copilot for Azure on iOS and Android



# Thank you!



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Connect with me on LinkedIn



[LinkedIn.com/in/geniodelmale](https://www.linkedin.com/in/geniodelmale)