

VS Code Dev Days

São Paulo

Sábado, 06/09/2025

UniFECAF – Taboão da Serra-SP



The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left displays a project structure under 'HIKING-JOURNAL': 'docs' (with 'functionality.md' selected), 'journal-entries', and 'website'. The code editor on the right contains the following Markdown content:

```
1 # Functionality for Hiking Journal
2
3 ## Basic functionality
4
5 - Add an entry
6 - view previous entries
7
8 ## For individual entries we need to:
9 - add title
10 - add date
11 - add description
12 - attach map or photos
13
14 ## Things to investigate
15 - adding in maps that aren't static images
16 - stylizing the maps
```

The Chat sidebar on the right shows a conversation with a bot named K, with messages like "I'd like n6TIn... id=1-2", "css file", "create collect...", "I'll help design create...", "Ra...", "1. Crea...", "2. Set...", "3. Crea...", "4. Style...", "5. Add...", "Let me the we...", and "✓ Re...".

VS Code Dev Days

VS Code: O Editor de Código de IA Open Source

Técnicas Essenciais para GitHub Copilot no VS Code



Agenda

01 Introdução ao VS Code

02 Open source AI Editor

03 Últimos Recursos em IA

04 Q&A





Família Visual Studio

+50 milhões de Devs
ativos mensalmente



GitHub

150 milhões de Devs
ao redor do mundo

hiking-journal

EXPLORER

HIKING-JOURNAL

- docs
- functionality.md
- journal-entries
- website
- index.html
- styles.css

functionality.md index.html styles.css

```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>Hiking Journal</title>
7     <link rel="stylesheet" href="styles.css">
8     <link rel="preconnect" href="https://fonts.googleapis.com">
9     <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin="anonymous">
10    <link href="https://fonts.googleapis.com/css2?family=PT+Serif:wght@normal&family=Merriweather:wght@normal&family=Ubuntu:wght@normal" rel="stylesheet">
11  </head>
12  <body>
13    <main>
14      <header>
15        <h1>Hiking journal</h1>
16        <button class="add-button" aria-label="Add new entry">
17          <svg width="24" height="24" viewBox="0 0 24 24" fill="none" stroke="currentColor" stroke-width="2" stroke-linecap="round" stroke-linejoin="round">
18            <path d="M12 5V19M5 12H19" stroke="currentColor" stroke-width="2" stroke-linecap="round" stroke-linejoin="round"/>
19          </svg>
20        </button>
21      </header>
22
23      <article class="journal-entry">
24        <div class="entry-header">
25          <div class="meta-info">
26            <span class="date">March 10, 2025</span>
27            <span class="separator">|</span>
28            <span class="location">2201 Imola Ave. Napa, CA 94559</span>
29          </div>
30          <h2>Morning hike at Skyline Wilderness Park</h2>
31        </div>
32        <p>For my hike this morning I did the Skyline Trail and Manzanita Creek. The weather was perfect for a morning hike. The views were amazing!</p>
33        
34      </article>
35    </main>
36  </body>
37 </html>
```

CHAT

collection to make the font styles.

I'll help you create the landing page based on the Figma design. Let me first check the Figma design and then create the necessary files.

> Ran `get_Figma_data`

1. Create basic file structure
2. Set up CSS variables for theming and typography
3. Create HTML structure
4. Style components using CSS
5. Add interactive elements

Let me first check the existing file structure in the website folder:

✓ Read `website`

I see the website folder is empty, so I'll create the necessary files. Let me start implementing the landing page based on the Figma design:

index.html +37 -1

2 file changed

index.html
styles.css

Add Context...
Ask Copilot or type / for commands
Agent ▾ Claude 3.7 Sonnet ▾

Codifique com extensões

Personalize o VS Code com extensões que disponibilizam funcionalidades alimentadas por IA de extensões, além de MCP Servers (integrações baseadas em Model Context Protocol) para uso no Chat. Ou, construa sua propria extensão para empoderar seu time em cenários únicos.

The image displays a grid of nine VS Code extension cards, each featuring a logo, the extension name, and a brief description. The extensions are arranged in three rows of three:

- Python**: Adds rich language support for Python.
- Stripe**: Build, test, and use Stripe inside your editor.
- C/C++**: Adds rich language support for C/C++.

- Jupyter**: Language support for Jupyter Notebooks.
- GitLens**: Supercharge your Git experience.
- C# Dev Kit**: Powerful tools for your C# environment.

- MongoDB**: Extension for the @MongoDB agent.
- GitHub Copilot for Azure**: Streamline the process of developing for Azure.
- Remote Development**: Open folders in a container on a remote machine.

[View 75k+ extensions in the Extension Marketplace](#)

Codifique em qualquer linguagem

O VS Code suporta a maioria das linguagens de programação. Várias já vêm incluídas, como JavaScript, TypeScript, CSS e HTML, mas extensões para outras podem ser encontradas no VS Code Marketplace.

JS JavaScript

C# C#

J Java

 Markdown

TS TypeScript

C++ C++

{} JSON

> Powershell

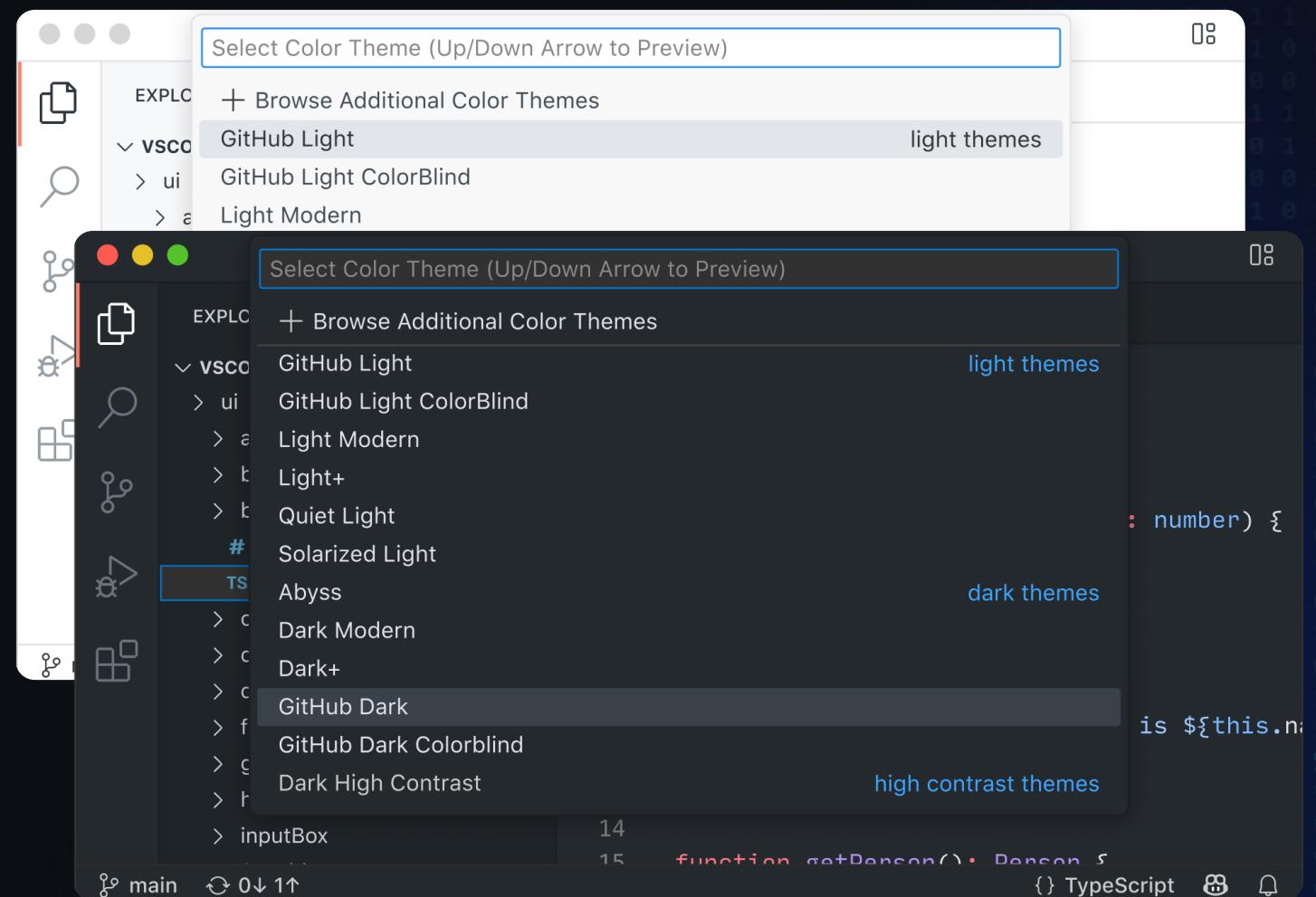
Totalmente personalizável

Personalize a interface e o layout do VS Code para que eles se adaptem ao seu estilo de codificação.

Color themes permite que você modifique as cores na interface do VS Code para atender às suas preferências e ambiente de trabalho.

Settings Sync permite que você compartilhe suas configurações de usuário em suas instâncias do VS Code com um mecanismo de sincronização..

Profiles permitem que você crie conjuntos de personalizações e alterne rapidamente entre elas ou compartilhe as mesmas com outras pessoas.

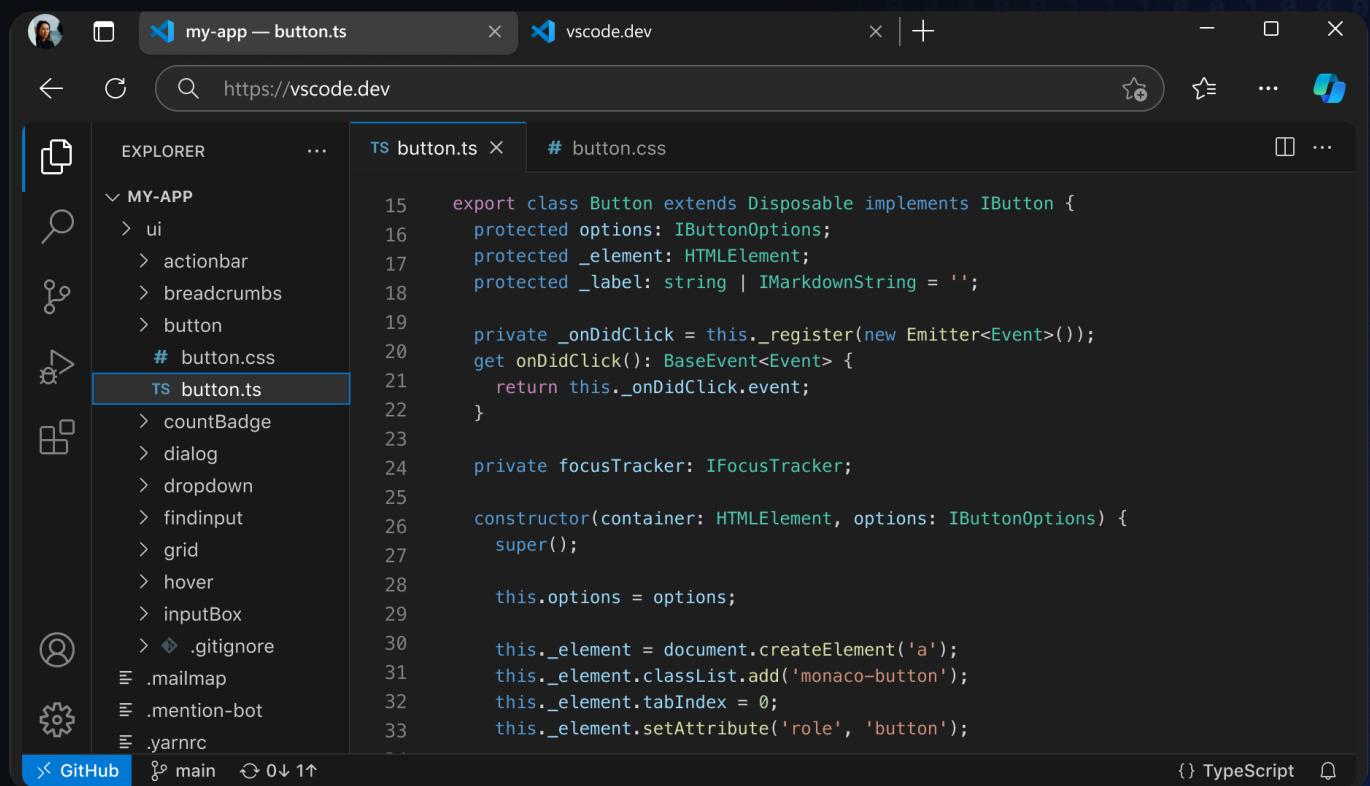


Codifique em qualquer lugar

Codifique onde você for mais produtivo, esteja você conectado à nuvem, a um repositório remoto ou no navegador com o VS Code for the Web (vscode.dev).

Built-in Source Control oferece suporte para Git out-of-the-box (já pronto para uso). As integrações com outras ferramentas de gerenciamento de código estão disponíveis por meio de extensões.

GitHub Codespaces fornece ambientes de desenvolvimento baseados em nuvem para qualquer atividade, seja um projeto de longo prazo ou uma tarefa de curto prazo - como revisar um pull request.



The screenshot shows the VS Code for the Web interface running in a browser window. The title bar indicates the current file is 'button.ts'. The left sidebar is the Explorer view, showing a project structure for 'MY-APP' with various components like ui, actionbar, breadcrumbs, button, and others. The 'button.css' file is currently selected. The main editor area displays the code for 'button.ts', which defines a class 'Button' that extends 'Disposable' and implements 'IButton'. It includes methods for handling clicks and setting up focus tracking. The bottom status bar shows 'GitHub' and other navigation controls.

```
15  export class Button extends Disposable implements IButton {
16    protected options: IButtonOptions;
17    protected _element: HTMLElement;
18    protected _label: string | IMarkdownString = '';
19
20    private _onDidClick = this._register(new Emitter<Event>());
21    get onDidClick(): BaseEvent<Event> {
22      return this._onDidClick.event;
23    }
24
25    private focusTracker: IFocusTracker;
26
27    constructor(container: HTMLElement, options: IButtonOptions) {
28      super();
29
30      this.options = options;
31
32      this._element = document.createElement('a');
33      this._element.classList.add('monaco-button');
```

Codifique com recursos avançados

Há muito mais do que funcionalidades de edição. Seja com recursos integrados ou extensões avançadas, há recursos úteis para todos.



Integrated terminal

Use your favorite shell whether it's zsh, pwsh, or git bash, all inside the editor.



Run code

Run and debug your code without leaving your editor.



Version control

Built-in support for git and many other source control providers.



Build tasks

Run tools and analyze their results from within VS Code.



Local history

Never lose your changes with automatically tracked local history.



Themes

Your theme is an extension of your personality. Add some flair to your editor and add your touch.



Accessibility

Optimized experience for screen readers, high contrast themes, and keyboard-only navigation.



Web support

Whether you are on your phone, tablet, or desktop, you can access your code from anywhere.

The open source
AI code editor

Agent Mode

Lide com tarefas complexas e com várias etapas. O Agent mode lê seu código-fonte, sugere edições em arquivos, executa comandos de terminal e responde a falhas de compilação ou teste — tudo em um loop até que a tarefa seja concluída. Refine ainda mais o Agent mode para se adequar aos fluxos de trabalho da sua equipe com extensões do VS Code e MCP Servers (integrações baseadas em Model Context Protocol).

```
1 import Image fr
2 import Link fro
3 import { Descri
4
5 interface Projec
6   title: string
7   description:
8   images: string
9   link: string;
10 }
11
12 const Project:
13   title,
14   description,
15   images,
16   link,
17 } => {
18   return (
19     <div classN
20       <Descript
21       { images.
```

CHAT

Kenzi.lawson

What are my open issues?

Github Copilot

Let me check for any open issues in your repository.

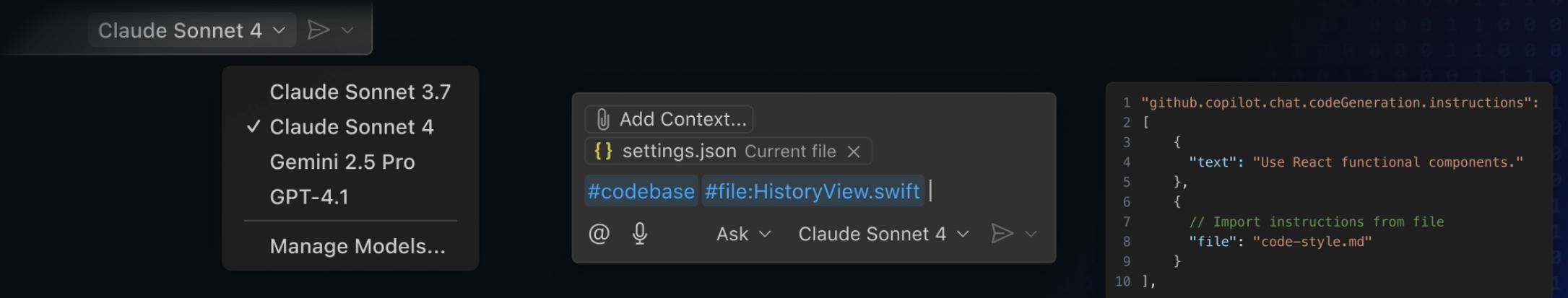
Ran list_issues

You have 1 open issues in your repository:

- Issue #4: "Create detailed flow for adding new journal entries to the app"
 - Created on March 21, 2025
 - Assigned to you
 - Description: Create a detailed user flow exploring all the options for adding a new journal entry.

Ask Copilot or type / for commands

Agent ▾ Claude Sonnet 4 ▾



```
1 "github.copilot.chat.codeGeneration.instructions":  
2 [  
3   {  
4     "text": "Use React functional components."  
5   },  
6   {  
7     // Import instructions from file  
8     "file": "code-style.md"  
9   }  
10 ],
```

Qualquer modelo para qualquer equipe

Use modelos de IA out of the box (prontos para uso) como o Claude Sonnet, ou traga sua própria chave para acessar modelos da Azure, Anthropic, Google, Ollama, OpenAI e OpenRouter.

Um especialista em seu código-fonte

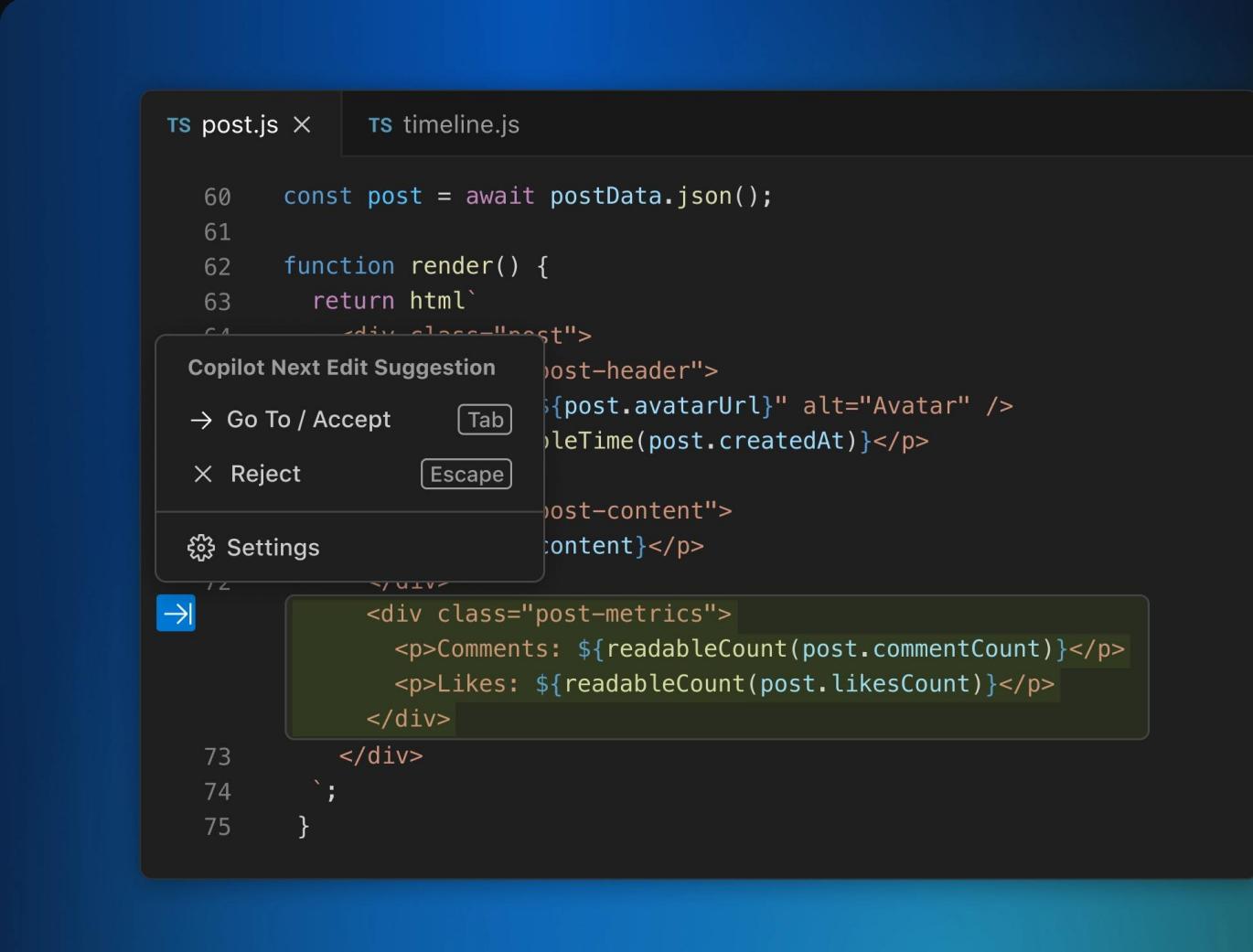
Seu código-fonte está indexado localmente e remotamente (no GitHub) para entender o que é relevante, permitindo interações rápidas e com consciência do contexto.

Uma IA que trabalha do jeito que você faz

Personalize as interações usando instruções customizadas e arquivos de prompt reutilizáveis adaptados aos seus fluxos de trabalho, ferramentas e projetos.

Next edit suggestions

O VS Code prevê seu próximo passo enquanto você codifica. Use a tecla Tab para aceitar sugestões de IA diretamente no seu editor. Ele recomenda de forma inteligente o que alterar — e onde — com base nas edições que você já está fazendo.



The screenshot shows a dark-themed VS Code interface with two tabs: "post.js" and "timeline.js". In the "post.js" tab, line 60 contains code to await post data. Line 62 starts a function render(). Line 63 returns an HTML string. A tooltip labeled "Copilot Next Edit Suggestion" appears over the closing tag of the div element. The tooltip has three options: "Go To / Accept" (with Tab key), "Reject" (with Escape key), and "Settings". Below the tooltip, the code continues with a post header, a timestamp, and a post content section. Line 73 ends the render function with a closing brace. A green box highlights the "Metrics" section of the code, which includes comments and likes counts. The status bar at the bottom shows binary code.

```
60 const post = await postData.json();
61
62 function render() {
63   return html`

64   ${post.header}
65   ${post.avatarUrl}" alt="Avatar" />
66   ${post.createdAt} ${post.timeago(post.createdAt)}</p>
67   <div class="post-content">
68     ${post.content}</p>
69   </div>
70   <div class="post-metrics">
71     <p>Comments: ${readableCount(post.commentCount)}</p>
72     <p>Likes: ${readableCount(post.likesCount)}</p>
73   </div>
74 }
75 }


```

TS button.ts

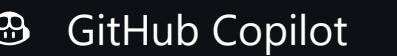
```
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
```

A screenshot of a code editor interface. At the top, it says "TS button.ts". Below that is a code editor window with the following content:

```
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
```

Below the code editor is a modal dialog box with a light blue header bar containing a copy icon. The main body of the dialog has a white background and contains the following buttons:

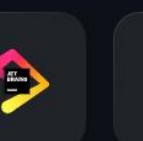
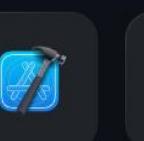
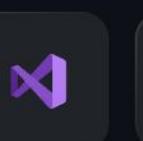
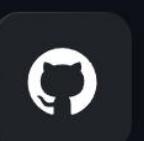
Accept Discard ⌂



GitHub Copilot

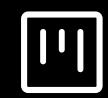
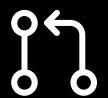
Seu AI pair programmer

- ✓ Sugestões de código em tempo real
- ✓ Comentários para códigos
- ✓ Next edit suggestions
- ✓ Modelo gpt4o-copilot aprimorado
- ✓ GitHub Copilot Chat & Edits
- ✓ Inline chat commands
- ✓ Agent mode



a nova central de comando... |

Agentic layer

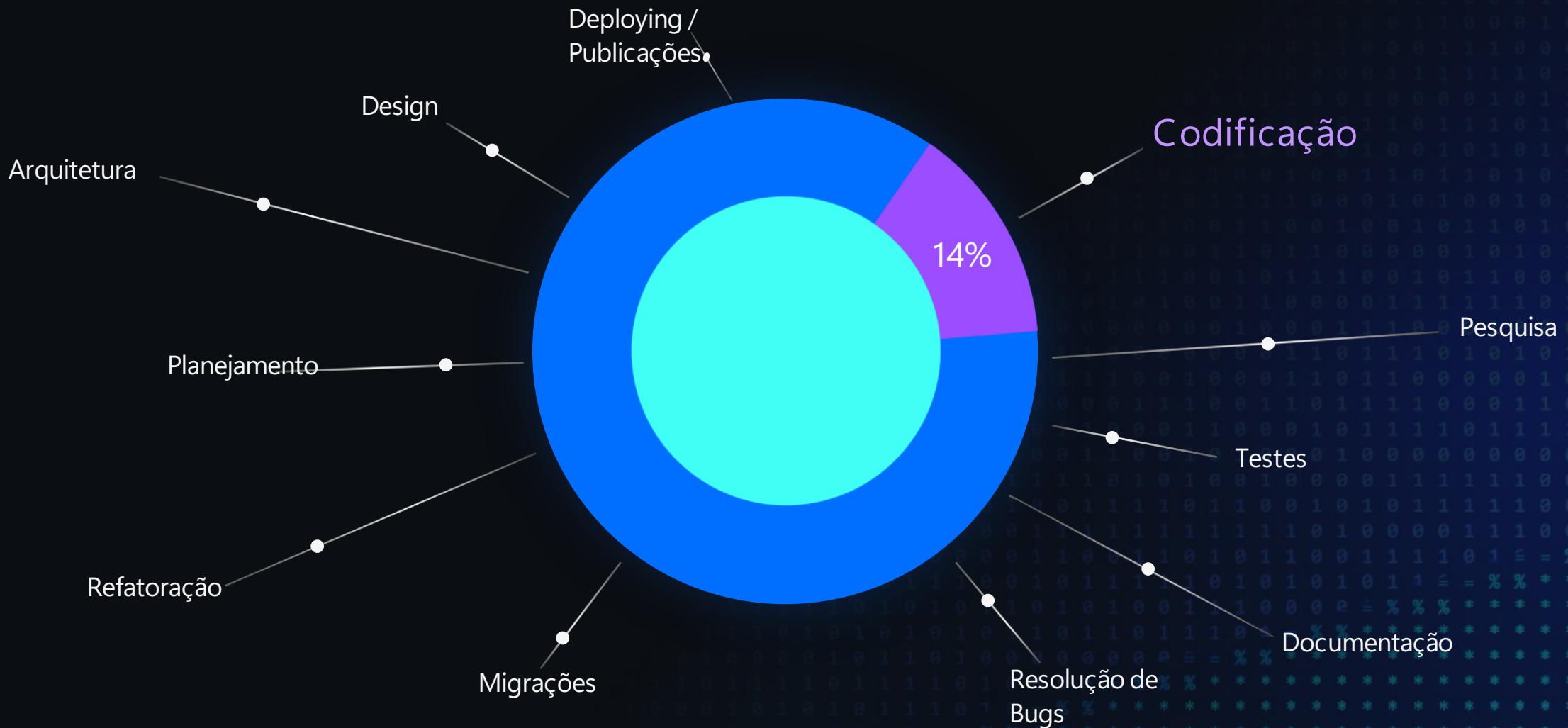


Crie

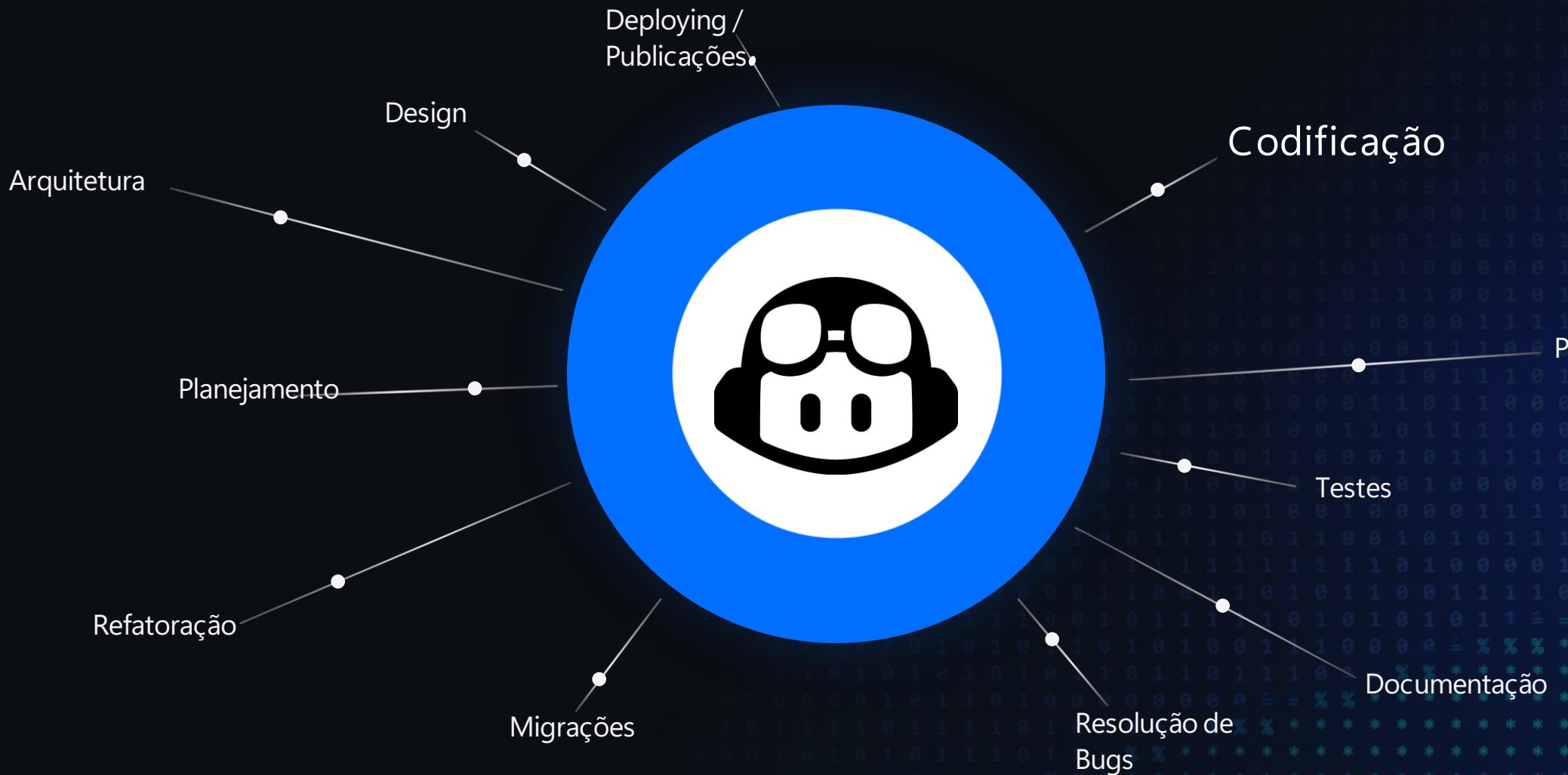
Colabore

Opere

Os desenvolvedores gastam apenas uma fração do seu tempo escrevendo novos códigos



O GitHub Copilot pode ajudar você com tudo



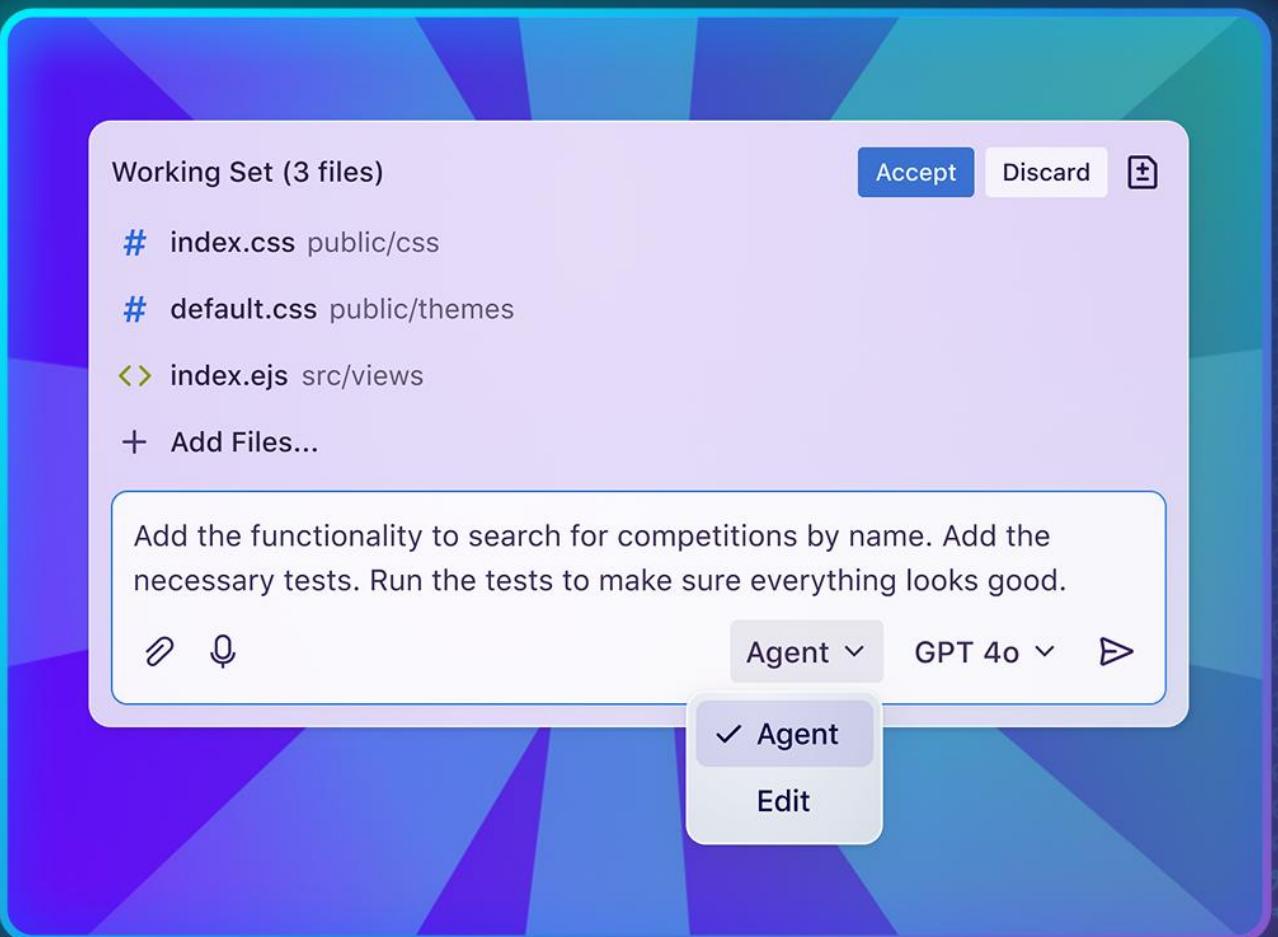
VS Code + Copilot

Exemplo prático (Demo)

GitHub Copilot Agent mode

Agora disponível no **Visual Studio**, **Visual Studio Code**, JetBrains IDEs, Eclipse e Xcode

<https://aka.ms/copilot-free>





Multi-Model Choice

Últimos Modelos

Use o melhor modelo para sua tarefa e projeto com suporte para os últimos modelos da OpenAI, Anthropic e Gemini, incluindo GPT 5, Gemini 2.5 Pro e Claude Sonnet 4.

Melhore suas interações com o GitHub Copilot tirando proveito de múltiplos modelos.

The screenshot shows the GitHub Copilot interface within a web browser. At the top, there's a search bar with the placeholder 'src -'. Below it, a user profile for 'ditarald' is shown, along with a file named 'organic-store-design.jpg' and a code snippet 'Home.tsx:1-23'. A GitHub Copilot card below it indicates 'Used 3 references'. The main content area displays a React component for a 'cat cafe' website, starting with the import statement 'import React from 'react'' and continuing with the function definition 'function Home() {'. The code uses various CSS-in-JS classes like 'min-h-screen bg-warmth-50', 'container mx-auto px-4 py-12 flex', and 'grid grid-cols-1 md:grid-cols-2 gap-4'.

```
import React from 'react';

function Home() {
  return (
    <div className="min-h-screen bg-warmth-50">
      /* Hero Section */
      <div className="container mx-auto px-4 py-12 flex
```



Multi-Model Choice

Utilize seu próprio modelo & key

Conecte-se a provedores de LLM customizados e use o modelo que melhor funciona para você.

Anthropic, Azure OpenAI (incluindo datacenters governamentais), Google Vertex, Ollama, OpenAI, OpenRouter

Public Preview – Copilot Free & Pro apenas

style.css +12 -0

The `# style.css` file has been updated to include the CSS Grid layout and styling for the snake and food elements. This should resolve the issue with the snake not moving.

Here's what was added:

1. **Grid Layout:** The `#game-board` now uses `display: grid` with 20 columns and 20 rows, each 20px wide/tall.
2. **Snake Styling:** The `.snake` class now has a dark background.
3. **Food Styling:** The `.food` class is styled as a red circle.

Try refreshing the browser to see the snake move. If it still doesn't work, let me know!

Keep Undo ⌘

3 files changed

index.html
script.js
style.css

7 Add Context... script.js Current file

Edit files in your workspace in agent mode

Agent DeepSeek

Claude 3.5 Sonnet (Preview)
Claude 3.7 Sonnet (Preview)
DeepSeek: DeepSeek V3 0324
GPT-4o

Manage Models...



Personalized code and workflows

Crie **workflows repetíveis e com tecnologia de IA para sua equipe**, com **arquivos de prompt** que descrevem seus próprios prompts, ferramentas e modelos.

Escale o conhecimento do domínio de membros sêniores do time com **custom instructions**.

Crie **custom modes** que encapsulam diferentes **workflows**, como planejamento, debugging, etc.

Descubra os **recursos de comunidade** no repositório **Awesome Copilot**.

```
research.prompt.md
.github > prompts > research.prompt.md

1  ---
2  mode: 'agent'
3  tools: [ 'perplexity_ask' ]
4  description: 'Research'
5  ---
6
7  Perform an indepth a
8
9  Home tracking app fo
10
11 Rules:
12   - Clarify any details that might be helpful before starting to
13   - Start your session with me by doing some research using the
14   - Summarize your findings that might be relevant to me before
15   - Perform another research loop if asked.
16
17 Include the following pivots in your research:
18   -Customers
19   -Problem statements
20   -Possible competitors
21   -Unmet needs
```

Select the prompt file to run (hold ⌘-key to use in new chat)

- + New prompt file...
- implement .github/prompts
- new .github/prompts
- plan .github/prompts
- research .github/prompts**
- spec .github/prompts

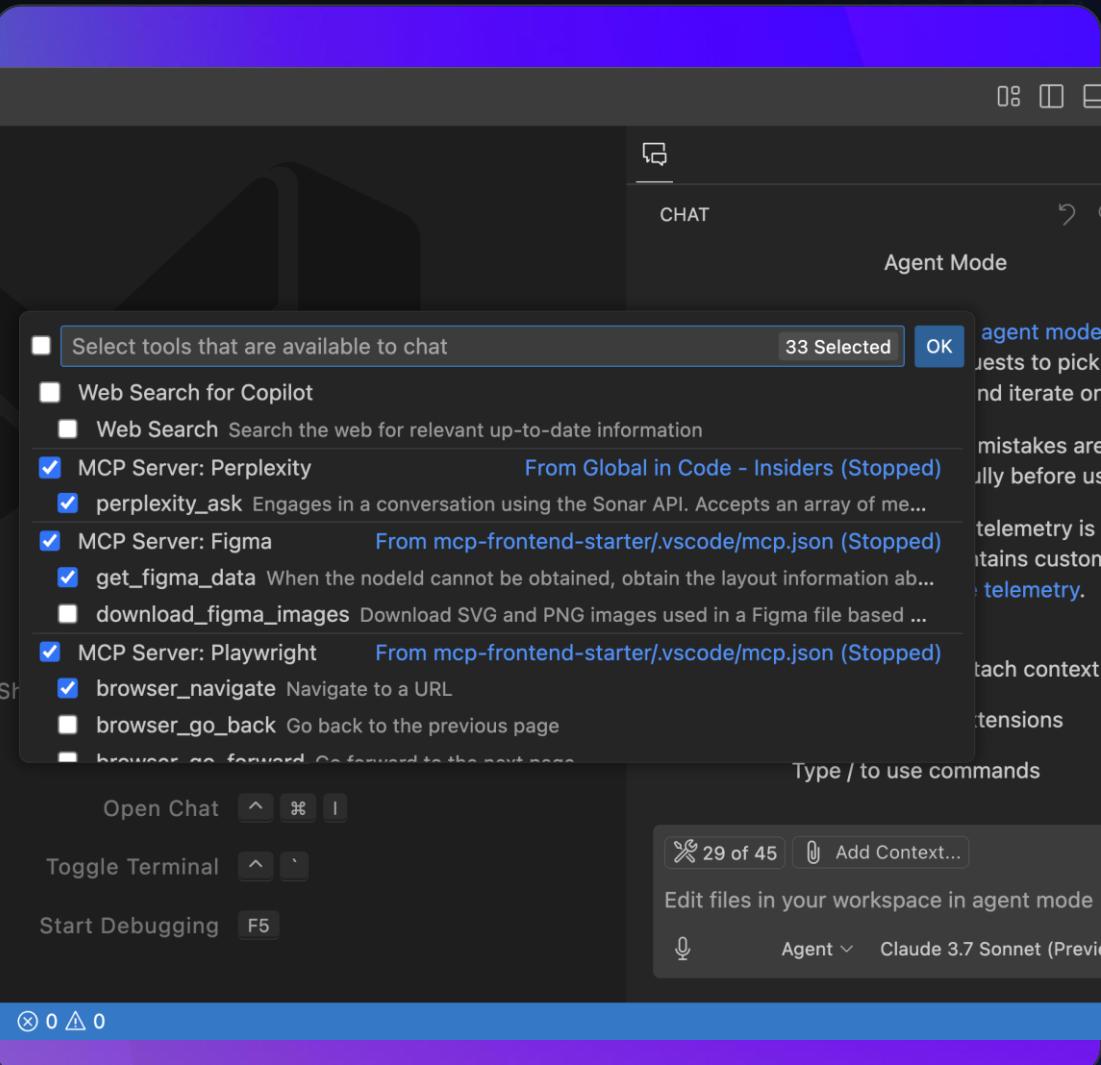


MCP Extensibility

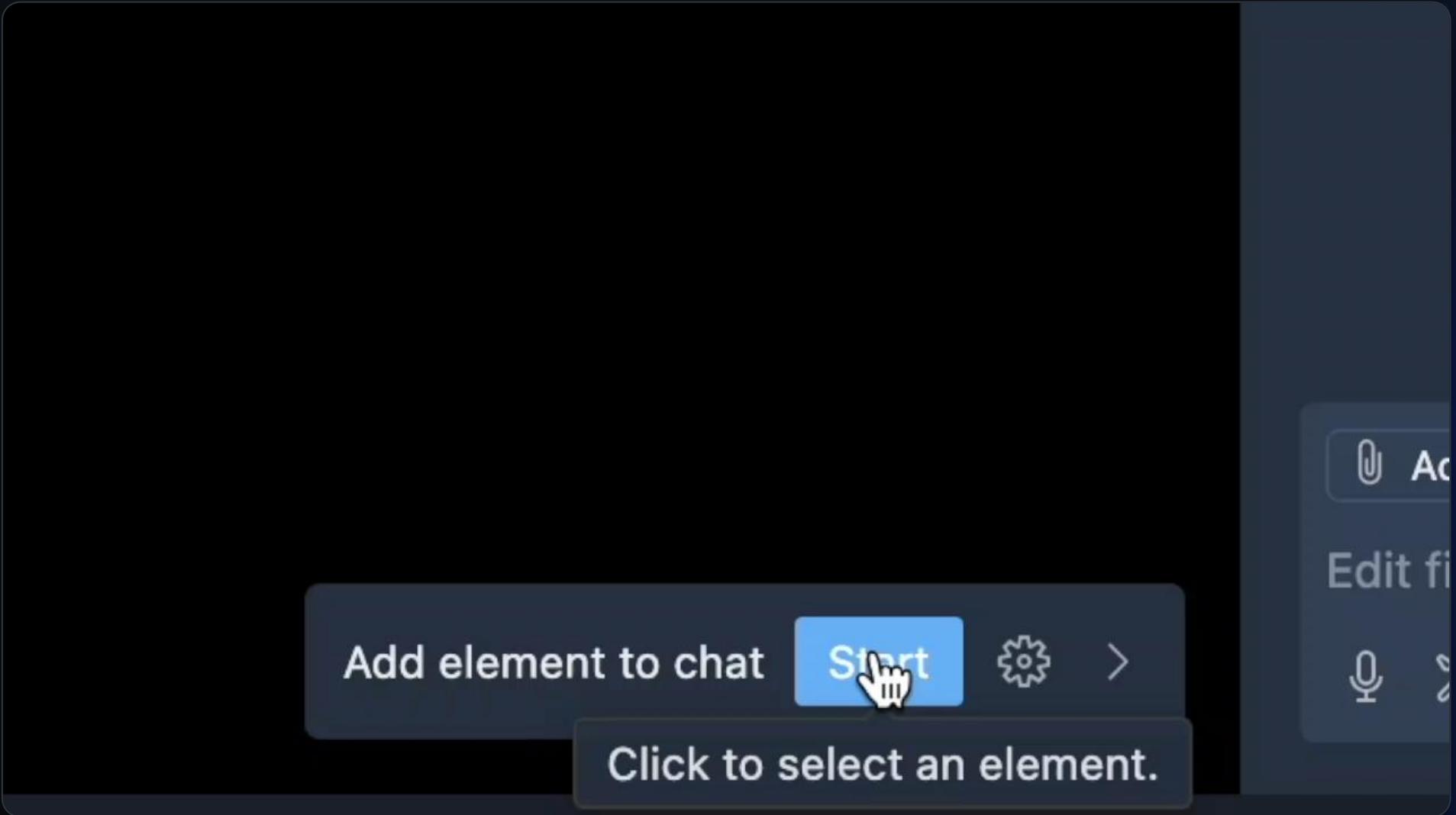
Estenda o agent mode com Model Context Protocol (MCP)

Personalize o agent mode à sua maneira, adicionando ferramentas disponibilizadas por MCP Servers de soluções como Figma, GitHub ou Perplexity.

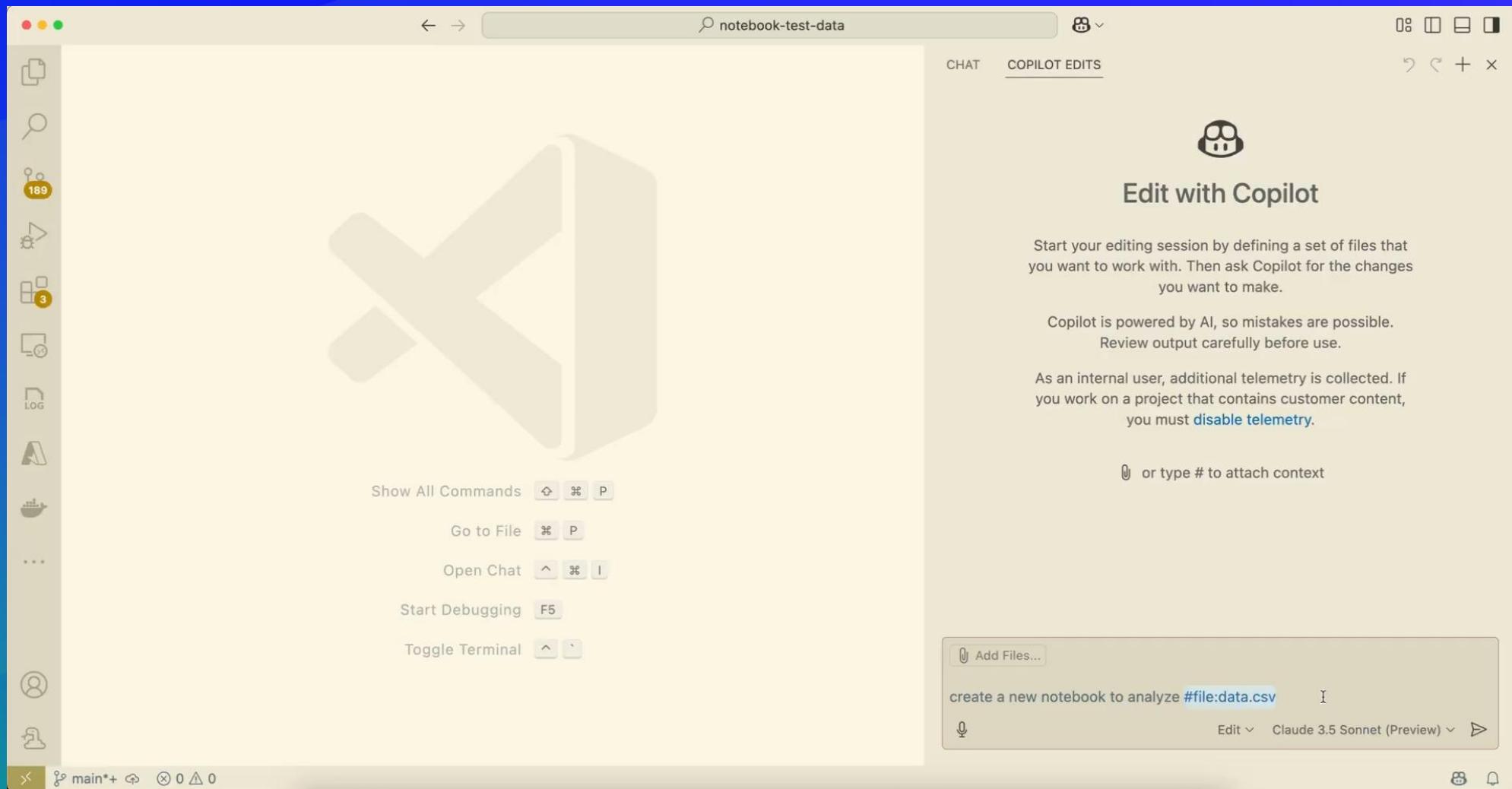
O VS Code é o *único* editor a suportar a especificação completa do MCP, incluindo OAuth, prompts, sampling e recursos.



Visual web vibing



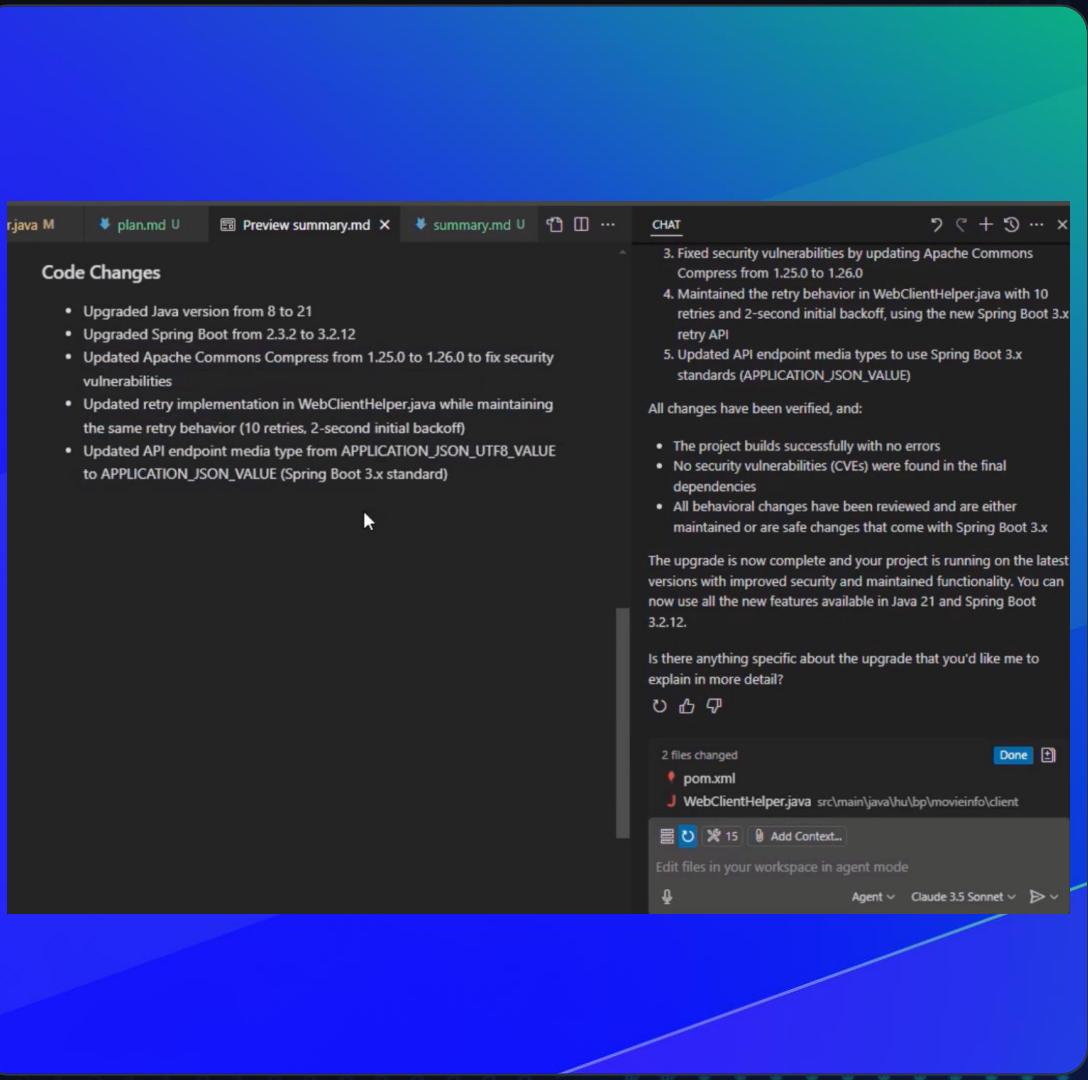
Copilot-powered Data Science



Agents especializados para reduzir o trabalho do desenvolvedor

Membros expert em um time para resolver problemas específicos e reduzir o trabalho de engenharia.

Facilite updates com os agents para .NET e Java.



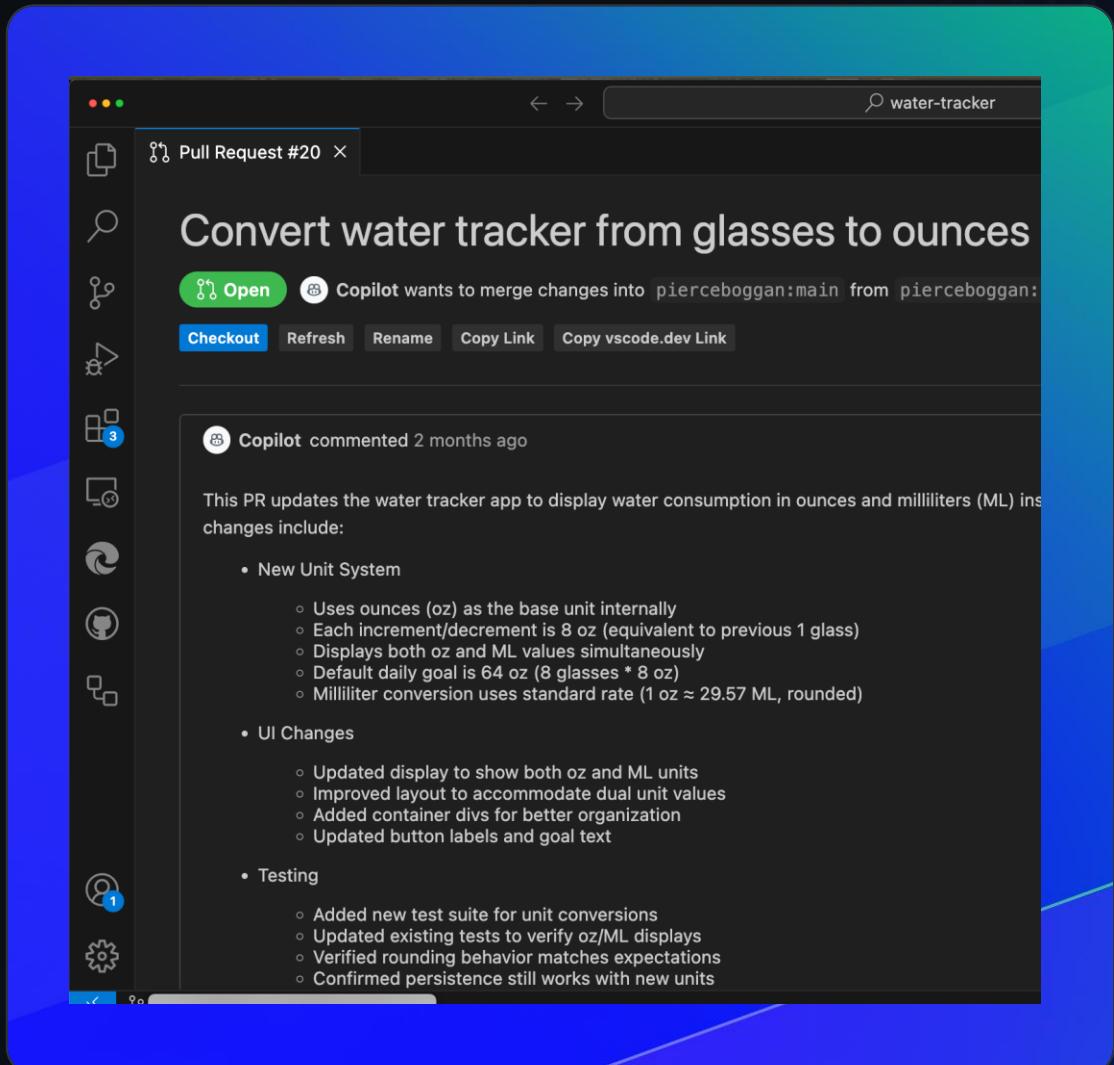
VS Code & Coding Agent (Preview)

Deleque tarefas para agents assíncronos

Os desenvolvedores podem **conseguir ainda mais com agend mode delegando tarefas ao coding agent** no VS Code.

Um coding agent **trabalha como qualquer outro membro de um time**: criando issues e submetendo PRs.

Tire proveito da **integração com a plataforma GitHub em IDEs** que Desenvolvedores adoram.



The open source
AI code editor

Obrigado!

Próximos passos

1.

Download do VS Code:
aka.ms/vscode-dev-days/get-vscode

2.

Obtenha o GitHub Copilot Free:
aka.ms/vscode-dev-days/get-copilot

3.

Inicie o treinamento:
aka.ms/vscode-dev-days/training

Pesquisa ao final do evento

**Por favor deixe
seu feedback
para a Microsoft.**

