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GitHub Copilot: From Vibe Coding to AI-Assisted DevOps, Seamlessly

GitHub Copilot meets you where you are



Favorite IDE

A grid of six IDE icons: Visual Studio Code, JetBrains IDEs, PyCharm, Vim, IntelliJ, and JetBrains IDEs with a hammer icon.



Models of Choice

A screenshot of the GitHub Copilot model selection menu. It shows a list of models categorized into Standard Models and Premium Models. The selected model is GPT-4.1 (Base).

Standard Models	
GPT-4.1 (Base)	Included
Premium Models	
Claude 3.5 Sonnet	1x
Claude 3.7 Sonnet	1x
Claude 3.7 Sonnet Thinking	1.25x
Claude Opus 4	10x
Claude Sonnet 4	1x
Gemini 2.0 Flash	0.25x
Gemini 2.5 Pro (Preview)	1x
✓ GPT-4.1	1x
GPT-4.5 (Preview)	50x
GPT-4o	1x
o1 (Preview)	10x
o3 (Preview)	5x
o3-mini	0.33x
o4-mini (Preview)	0.33x

At the bottom of the menu, there is an "Add Context..." button and a "Ask Copilot" prompt. The current model selection is shown as "Ask GPT-4.1".



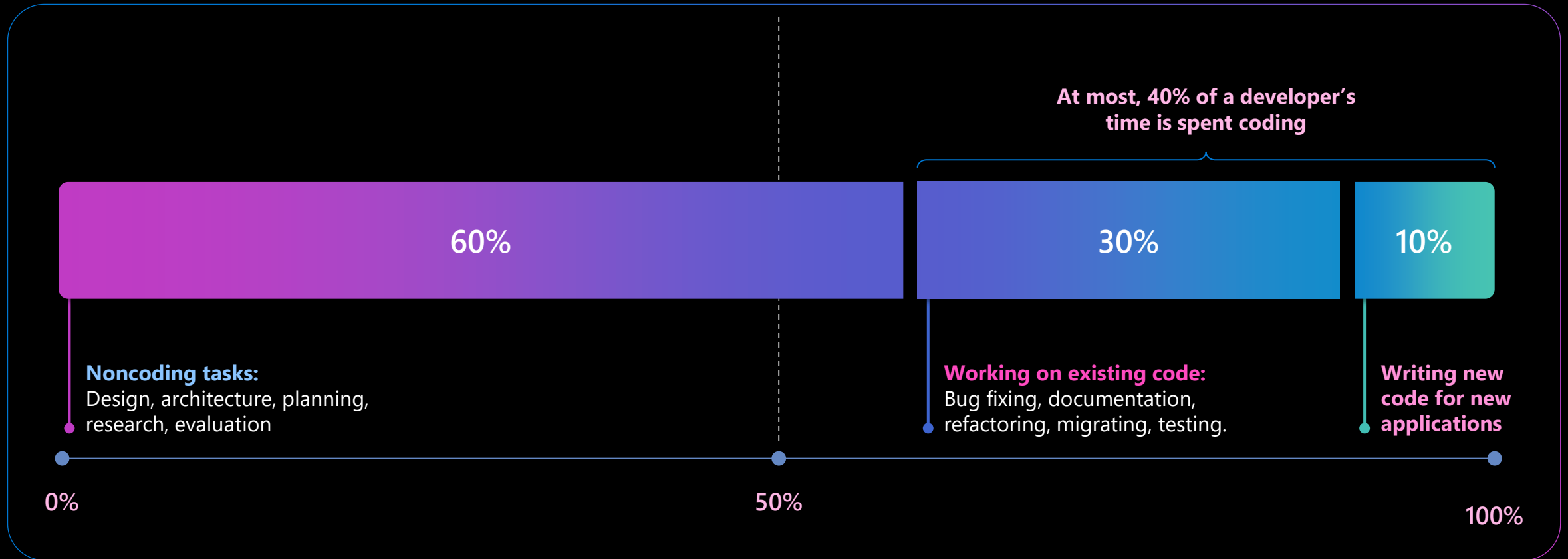
Extensibility

Marketplace

MCP

The Marketplace section features a shopping cart icon with a globe. The MCP section features a network diagram icon.

Productivity is heavily impacted by non-coding tasks!

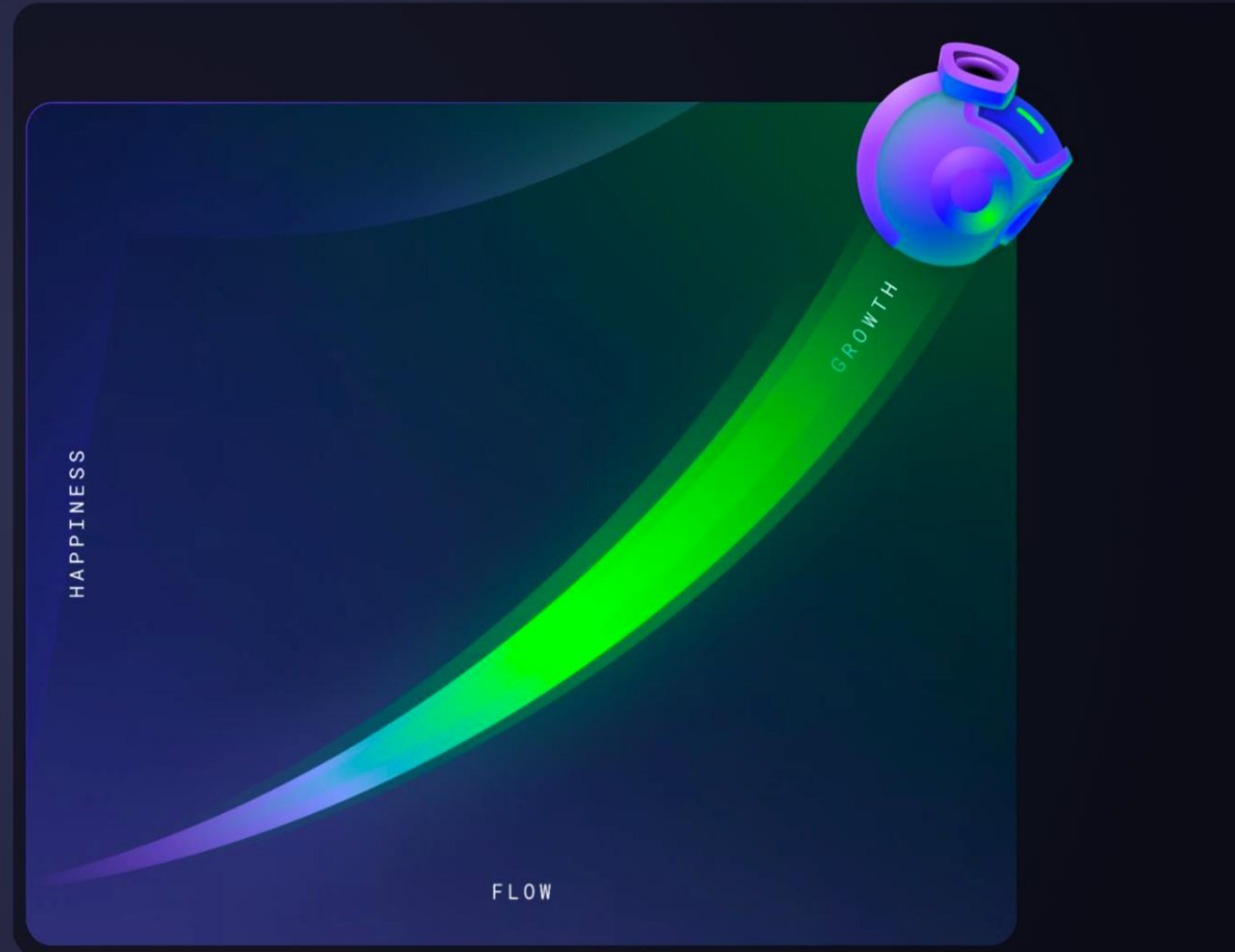


AI is transforming the developer experience





A McKinsey study found that equipping developers to be their most productive also significantly improves the developer experience, and developers using generative AI-based tools were more than twice as likely to report overall happiness, fulfillment, and a state of flow.

Source: [McKinsey, 2023](#)






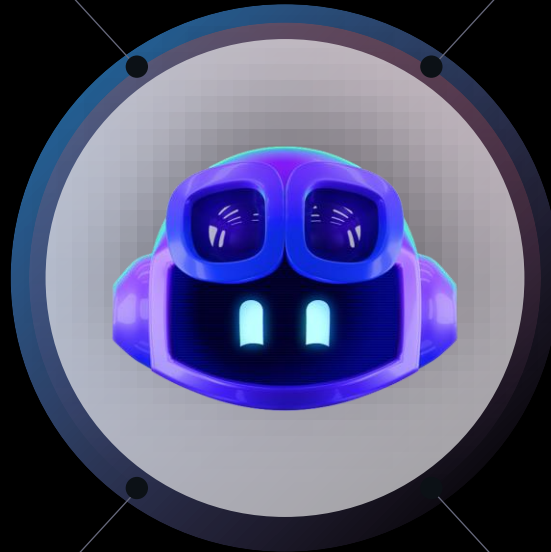
GitHub Copilot in a nutshell

Code completion



- Ask Mode 
- Next Edit Suggestions 
- Copilot Vision

Model Context Protocol (MCP)





- GitHub 
- Playwright 
- Azure 
- 3P Services



Agentic Features

-  Agent and Plan Mode
-  Custom Agents
- Agent Skills

Extensibility

-  App Modernization
-  Upgrade
-  Migrate
-  Copilot for Azure

Riding the waves

Wave 1

Wave 2

Pair programmer



Code Completion | Copilot Chat

Peer programmers



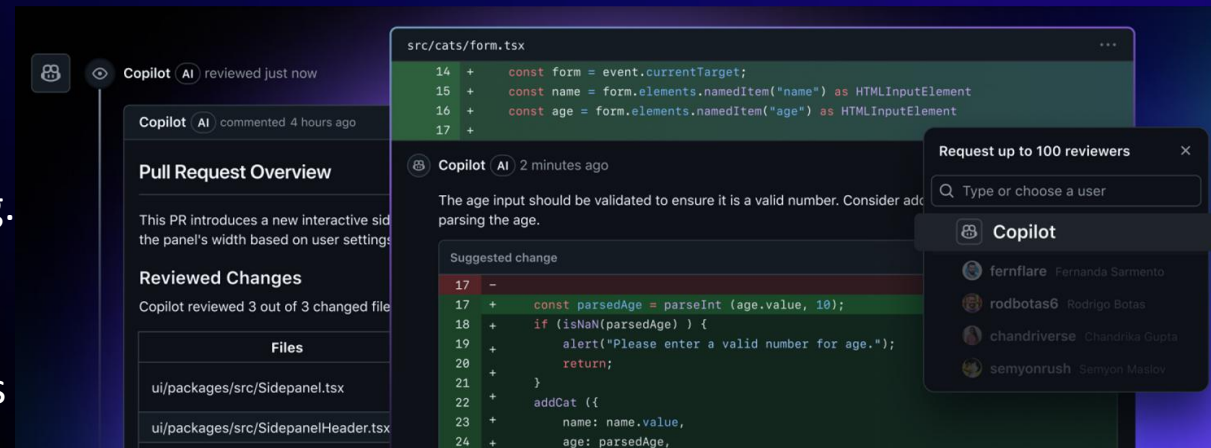
Sync Agent Mode



Copilot Code Review Agent

Review code with Copilot from your PR

- **Faster reviews:** Instant, actionable feedback—no waiting.
- **Understands context:** Looks beyond the diff for smarter suggestions.
- **Lightens the load:** Handles routine comments so humans can focus on what matters.





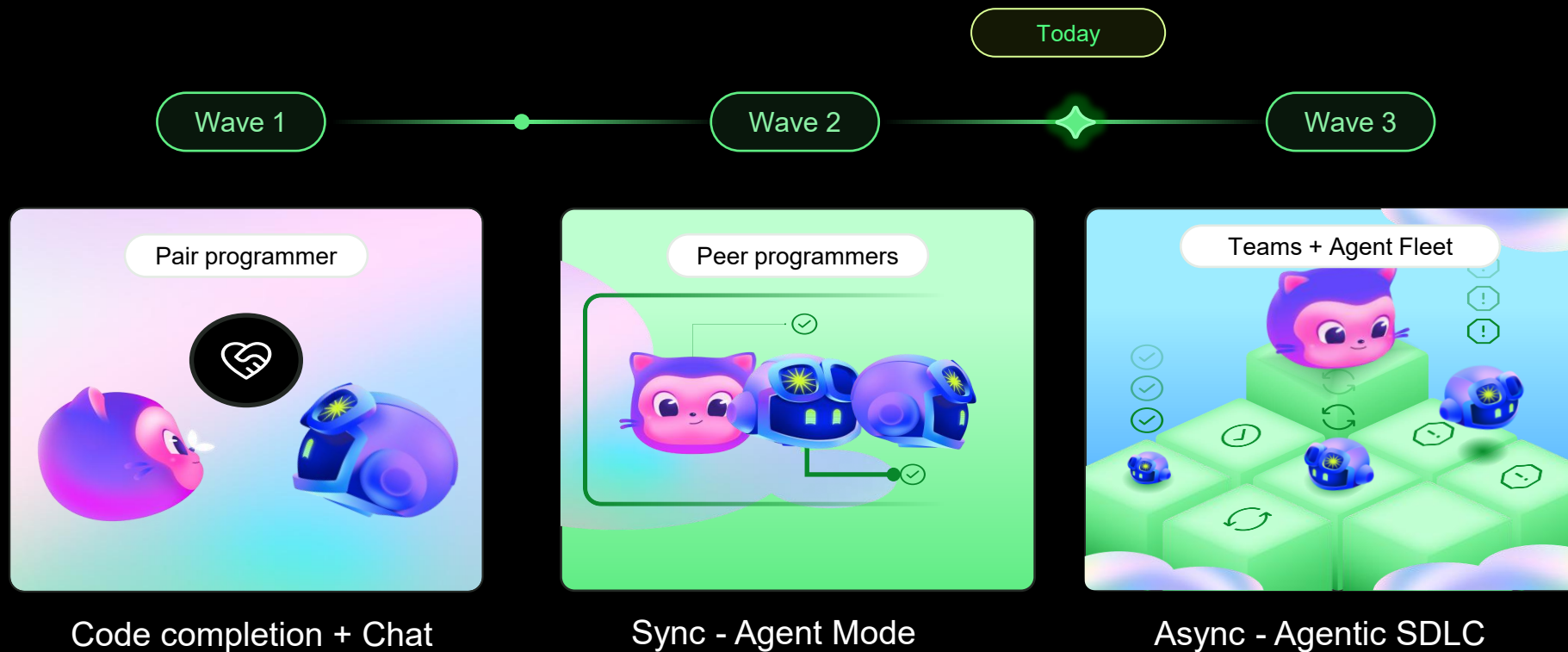
Demo



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Wave 3 Changes Everything



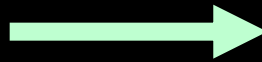
More Agents

Agents run for longer

Shared Infra

Prompt Engineering

Teaching Engineers how
to prompt for better
outcomes from AI agents



Context Engineering

Artifacts

- User Stories
- Specs (PRD / ERD)
- Documentation
- Code
- Test Cases
- Production logs

Agentic Primitives

- Skills
- Custom Instructions
- Custom Agents
- MCP Tools
- Slash Commands
- Hooks

Shared Memory

Spec Driven Development & GitHub Spec Kit

Spec-driven development with AI: Get started with a new open source toolkit

Developers can use their AI tool of choice for spec-driven development with this open source toolkit.

💡 **What is spec-driven development?**

Instead of coding first and writing docs later, in spec-driven development, you start with a (you guessed it) spec. This is a contract for how your code should behave and becomes the source of truth your tools and AI agents use to generate, test, and validate code. The result is less guesswork, fewer surprises, and higher-quality code.

Agent HQ

Any agent, any way you work on GitHub



 Code



Copilot CLI



GitHub Copilot v0.0.411

Describe a task to get started.

Pick a model with `/model`. Send this session to GitHub with `/delegate`, and Copilot will create a PR. Copilot uses AI, so always check for mistakes.

-  Experimental mode is enabled. These features are not stable, may have bugs, and may be removed in the future.
 -  No copilot instructions found. Run `/init` to generate a `copilot-instructions.md` file for this project.
 - Configured MCP servers: `workiq`, `markdown`, `octocode`, `playwright`
 - Connected to Visual Studio Code - Insiders
 - Autopilot mode enabled with all permissions.
- > `/agent-council`
- `skill(agent-council)`
 - I've loaded the Agent Council skill. It's ready to dispatch 3 subagents in parallel across different model families for multi-perspective analysis.
 - Asking user: What task or question would you like the Agent Council to...

What task or question would you like the Agent Council to work on?

- > 1. I'll describe the task now (freeform)
2. Collaborative mode: brainstorm/explore an idea
3. Adversarial mode: debate/stress-test a decision
4. Other (type your answer)

↑↓ to select · Enter to confirm · Esc to cancel

GitHub Agentic Workflows

Repository automation, running the coding agents you know and love, with strong guardrails in GitHub Actions.

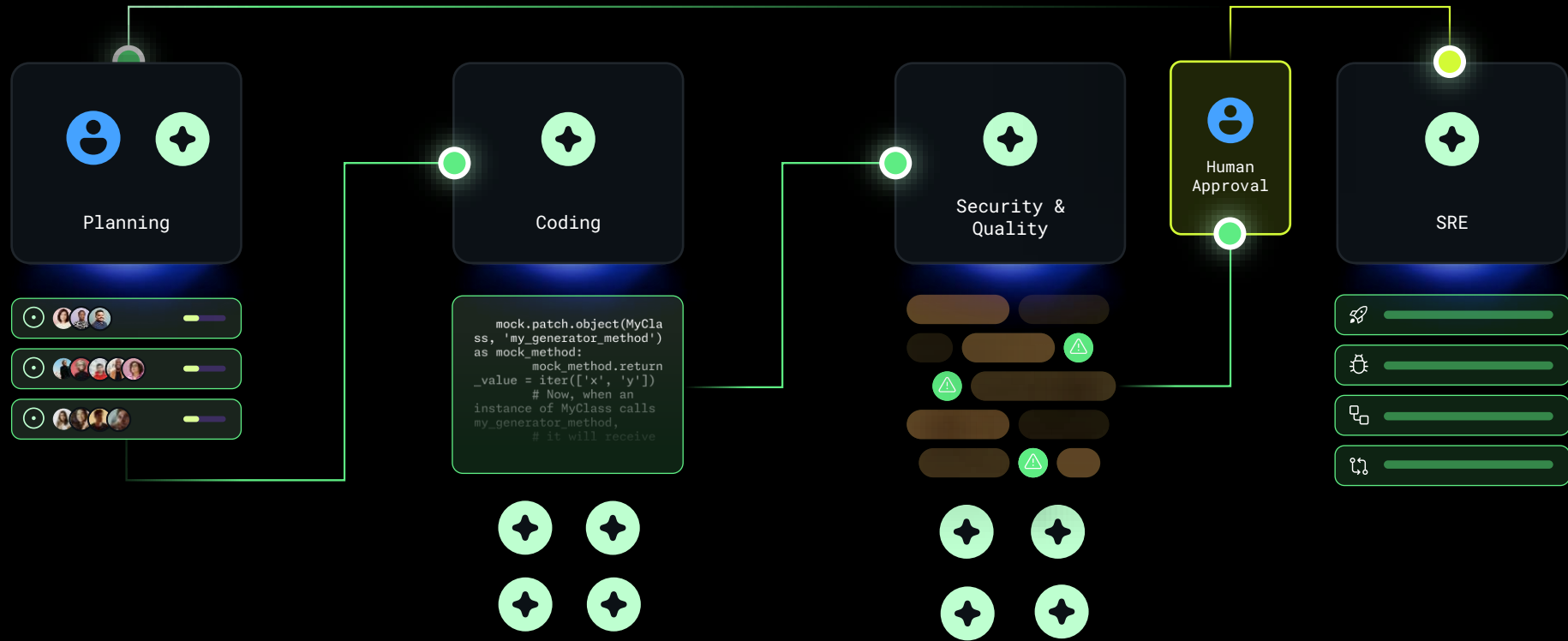
[Quick Start with CLI →](#)

[Creating Workflows →](#)

Recap: Waves of agentic development



Intent



GitHub Copilot

across the software development lifecycle



Create
in the IDE



Collaborate
across the SDLC

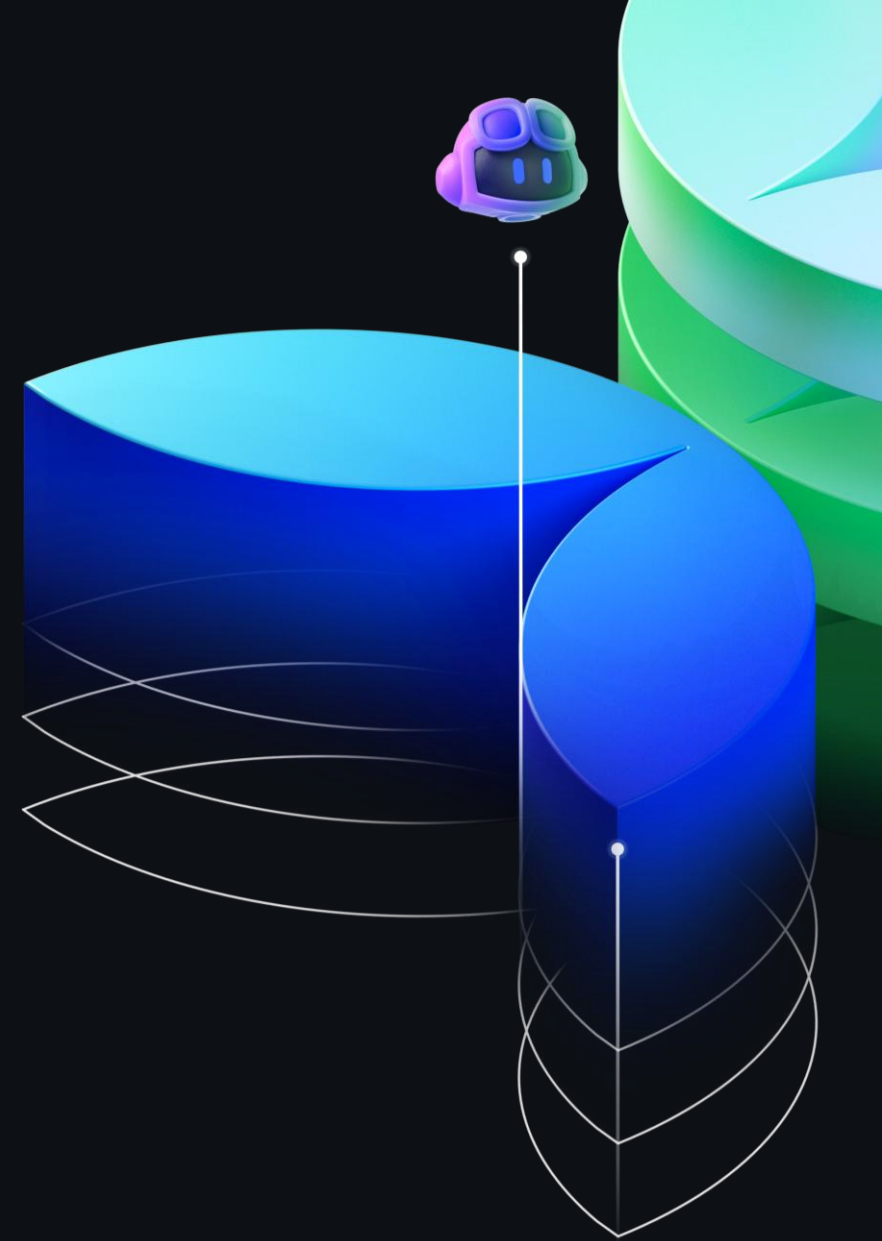


Operate
in the cloud



GitHub Copilot

Thank you!



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Resources

- [GitHub Copilot Docs](#)
- [Changelog](#)
- [VSCode – Docs](#)
- [VS Code – Youtube Channel](#)
- [Copilot – Youtube Channel](#)
- [GitHub Support](#)
- [Awesome Copilot Repo](#)
- [GitHub Learn](#)
- [Agentic Workflows](#)