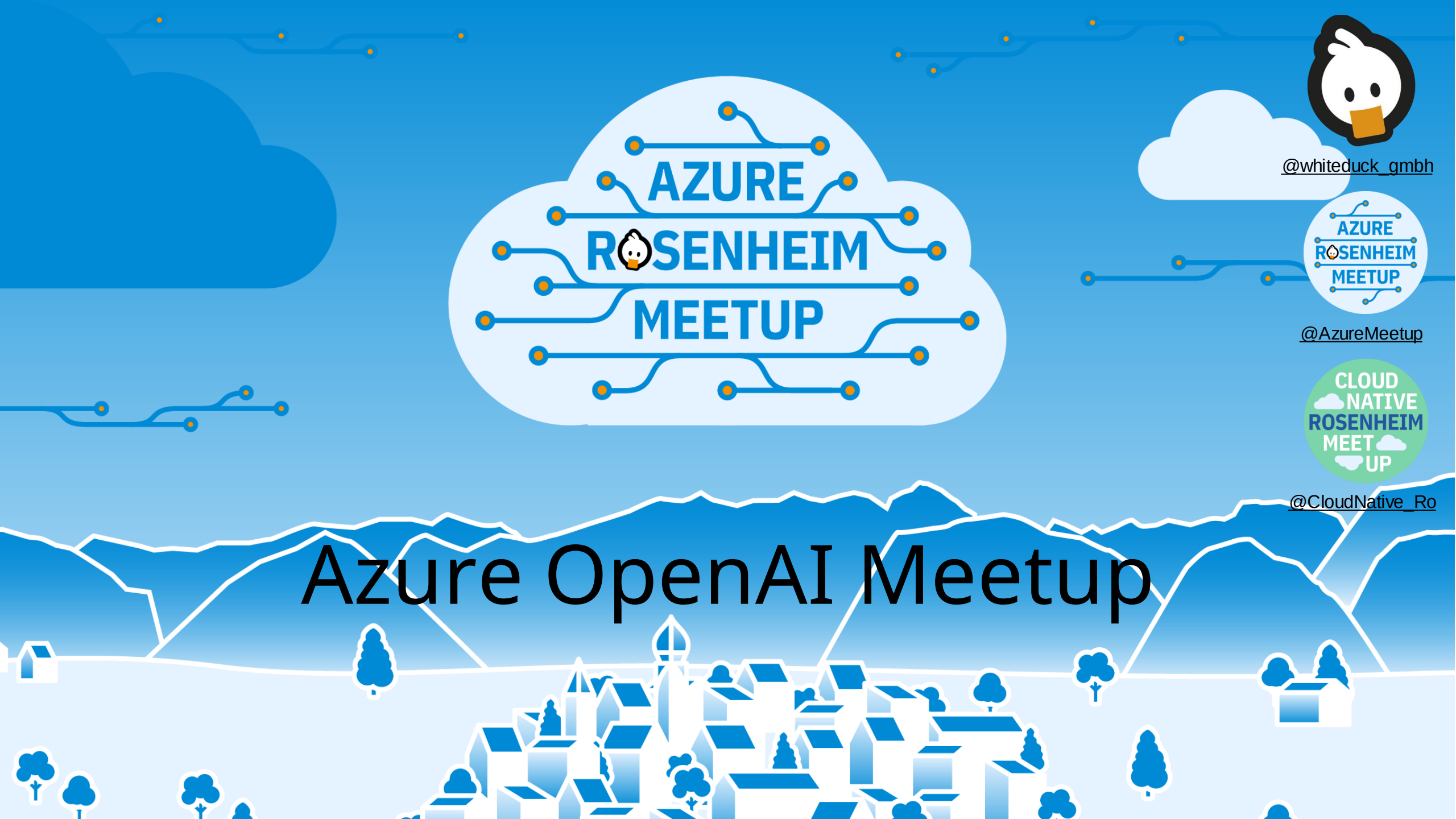

@whiteduck_gmbh

@AzureMeetup

@CloudNative_Ro

Azure OpenAI Meetup

Talks

- Generative AI Use Cases mithilfe von Azure OpenAI umsetzen
  - Sophia Cullen (Microsoft)

- ChatGPT & JUNE: Wie wir Azure OpenAI in unser SaaS-Produkt integriert haben
  - Christian Häp (JUNE)

- Steigerung der Developer Productivity mit den Möglichkeiten von GitHub und AI
  - Martin Brandl & Nico Meisenzahl (white duck)

white
duck

Increase your Developer Productivity with the power of GitHub and AI

Azure OpenAI Meetup, October 23

Who are we?

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white duck

Cloud Native Development

Conception, development and operation of cloud native and SaaS applications

Application Modernization

Modernization and transformation of existing applications

DevOps

Introduction and coaching of DevOps as a method and DevOps platforms

Agenda

- The Importance of Developer Productivity
- How GitHub can Boost Your Teams
- The Power of GitHub Copilot

The Importance of Developer Productivity

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What is Developer Productivity?

- Measures how **efficiently** and **effectively** developers can complete tasks and implement features
- Is a gauge of a developer's ability to deliver **high-quality** results in a timely and **cost-effective** manner
- Can be influenced by several factors, including development, tool sets, processes, and team dynamics
- Not easy to measure; DORA and SPACE metrics can

Key takeaways of Developer Productivity

- **Efficient use of time and resources**
  - Faster time-to-market & reduced costs
  - Helps meet project deadlines which leads to less stress
- **Higher feature quality**
  - Efficiency goes hand-in-hand with the quality
  - A more stable, reliable, and robust codebase leading to reduces long-term maintenance costs

Key takeaways of Developer Productivity

- **Team collaboration & innovation**
  - Opens up more time to collaborate with team members, share knowledge
  - Also leads time to focus on exploring new technologies, tools, and approaches
- **Employee satisfaction & motivation**
  - Skills are being effectively utilized which leads to a higher level of job satisfaction and motivation
  - Reduces cognitive load
  - Attracts and retains top talent

How GitHub can Boost Your Teams

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Unify your DevOps lifecycle with GitHub

GitHub got you covered!

- Your environment at your fingertips with Codespaces
- Collaborate with your fellows within Issues and PRs
- Manage your team with Projects
- Automate everything with GitHub Actions
- Centralize your artifacts with Packages
- Integrated security in all stages (DevSecOps)

DevSecOps – why is it important?

- Early vulnerability detection aka. “shift-left”
- Continuous security testing & streamlined risk management
- Greater business agility & Faster delivery aka. “fail-fast”
- Increased collaboration

How GitHub can help

- Security Policy
- Security Advisories
- Dependabot alerts and security updates
- Dependabot version updates
- Dependency graph
- Secret scanning alerts for partners (public Repos only)

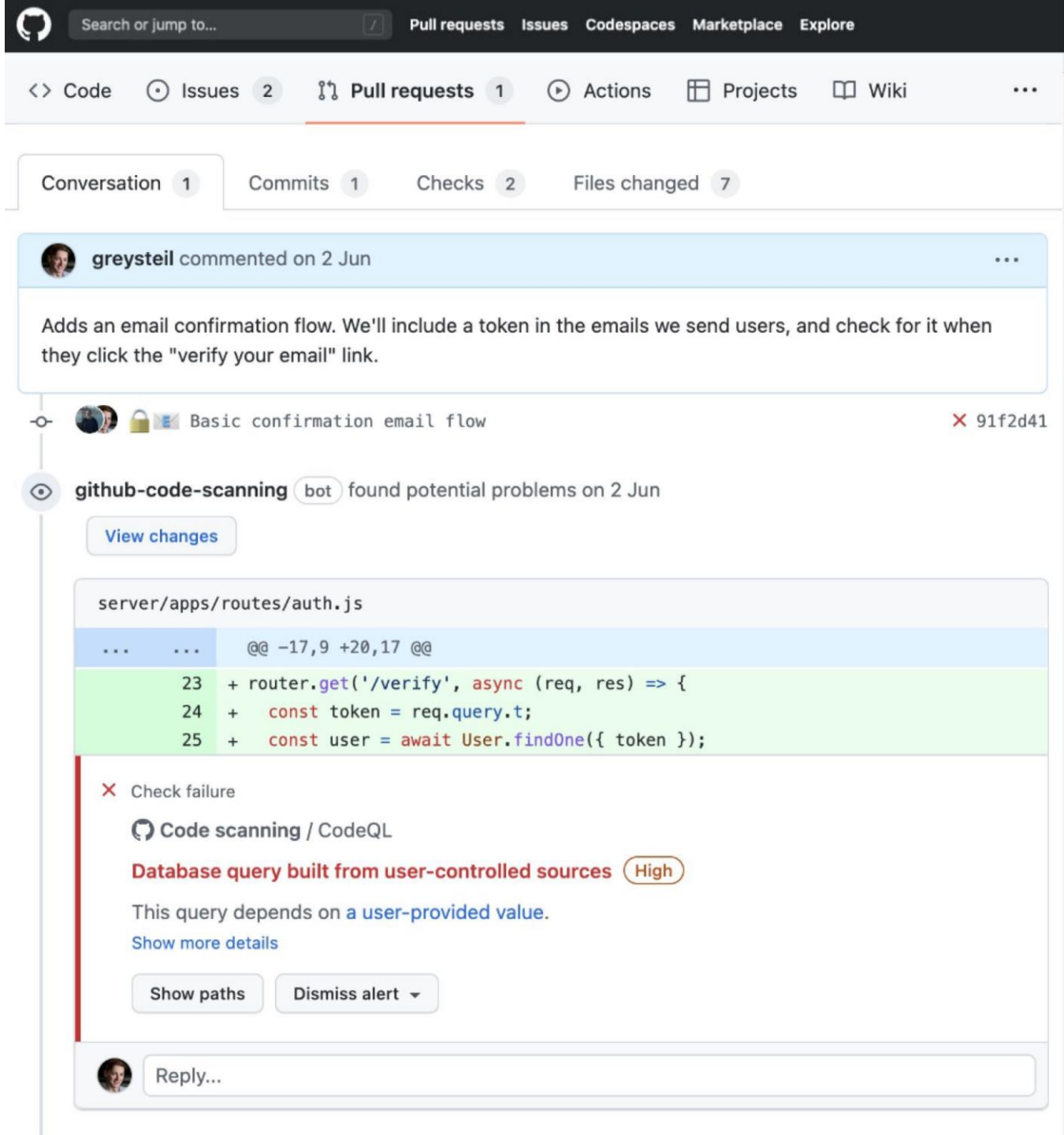
GitHub Advanced Security

- Code scanning for vulnerabilities and errors
- Dependency review for better awareness in your supply chain
- Secret scanning alerts and push protection keep you secure

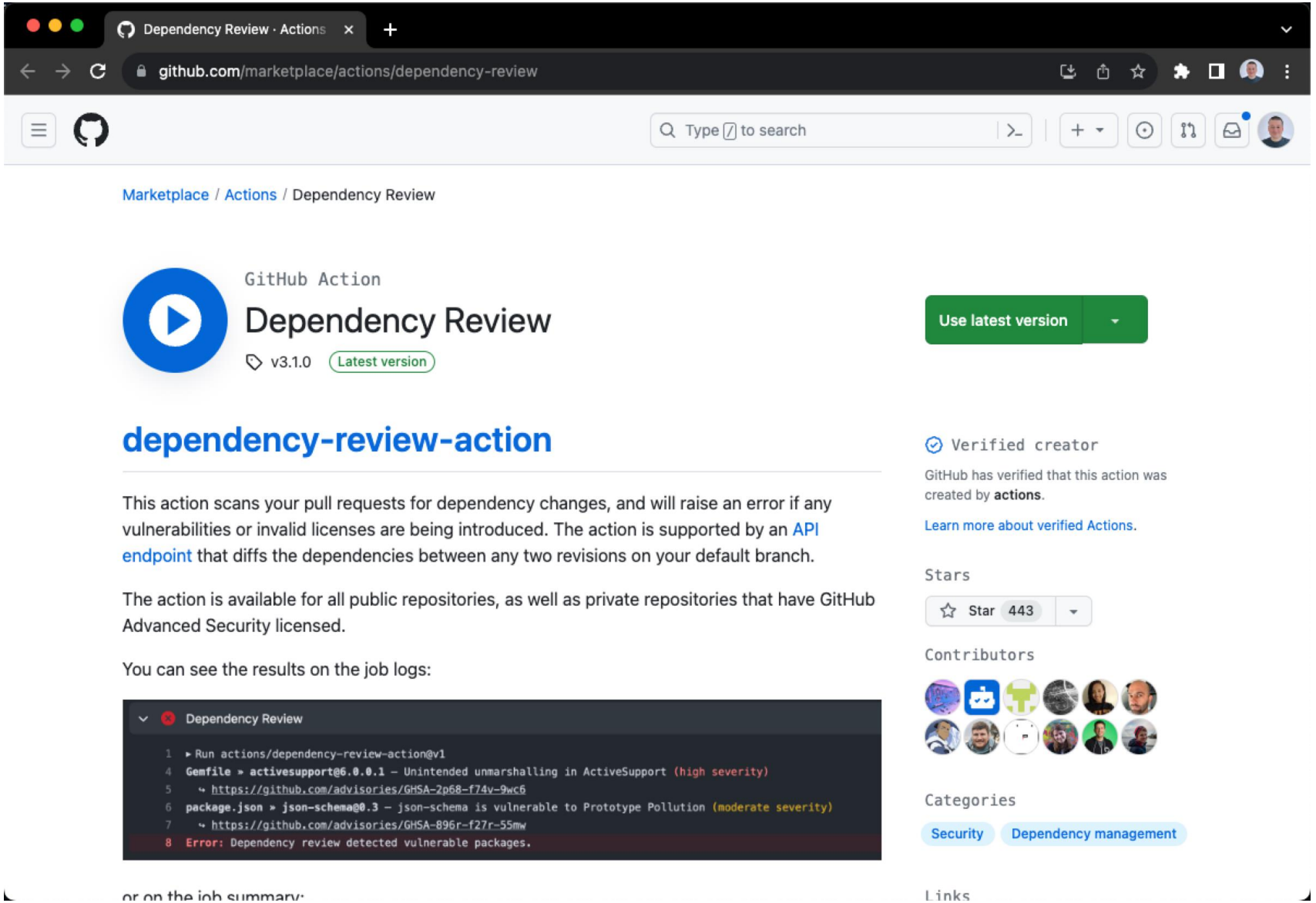
Available for free for public Repos on github.com!

Code scanning

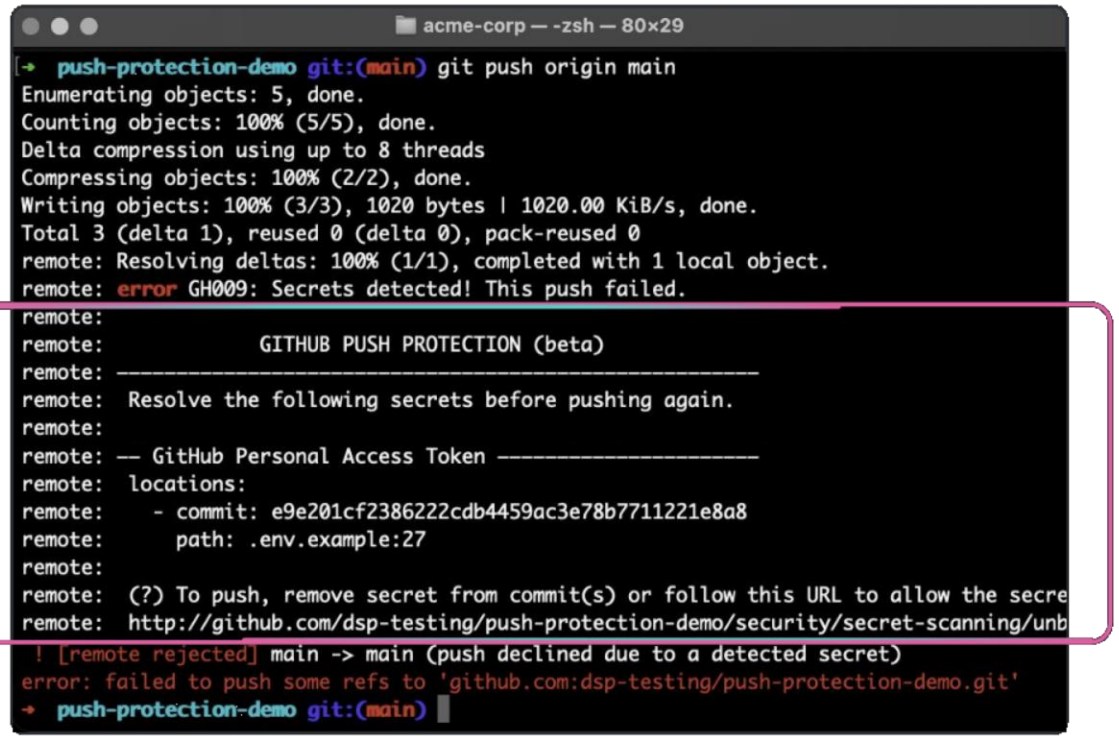
- Static Code Analysis (SAST)
- Based on CodeQL
- Fully-integrated (PRs, Security Tab)

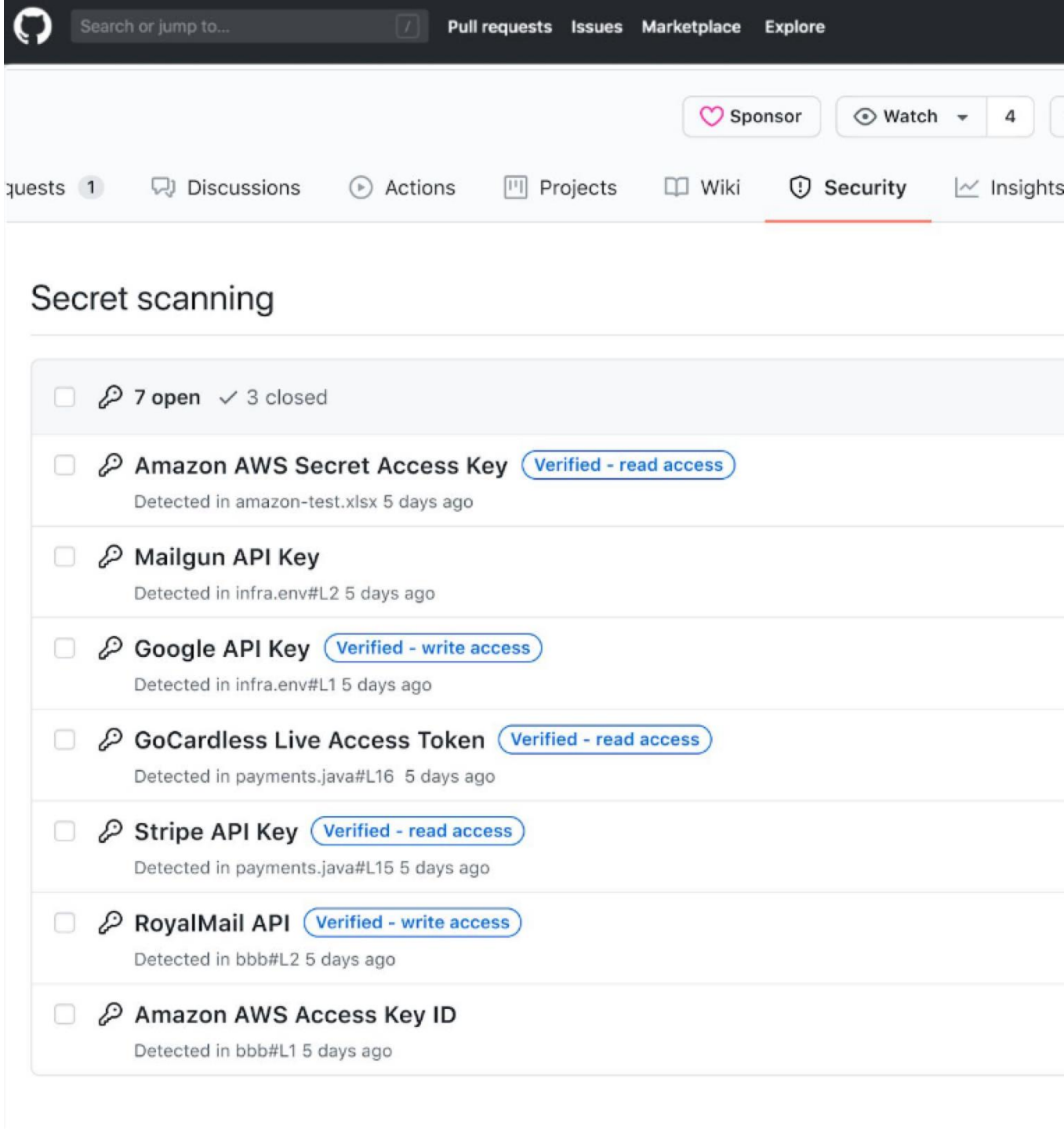


Dependency review



Secret scanning





The Power of GitHub Copilot

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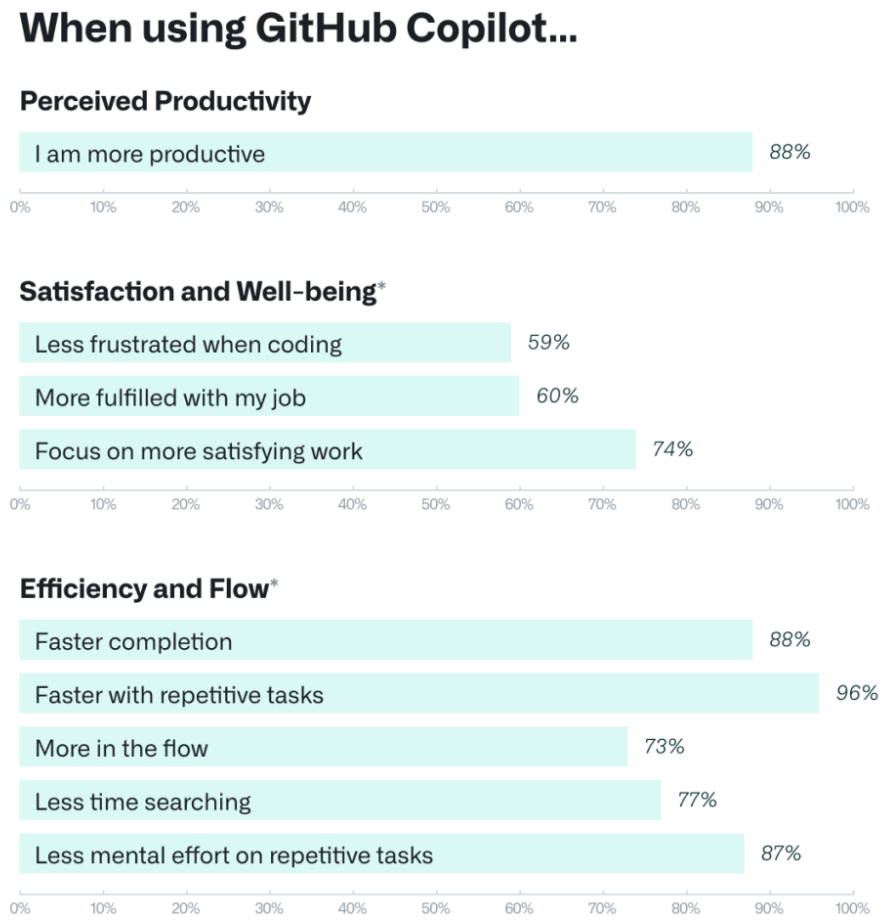
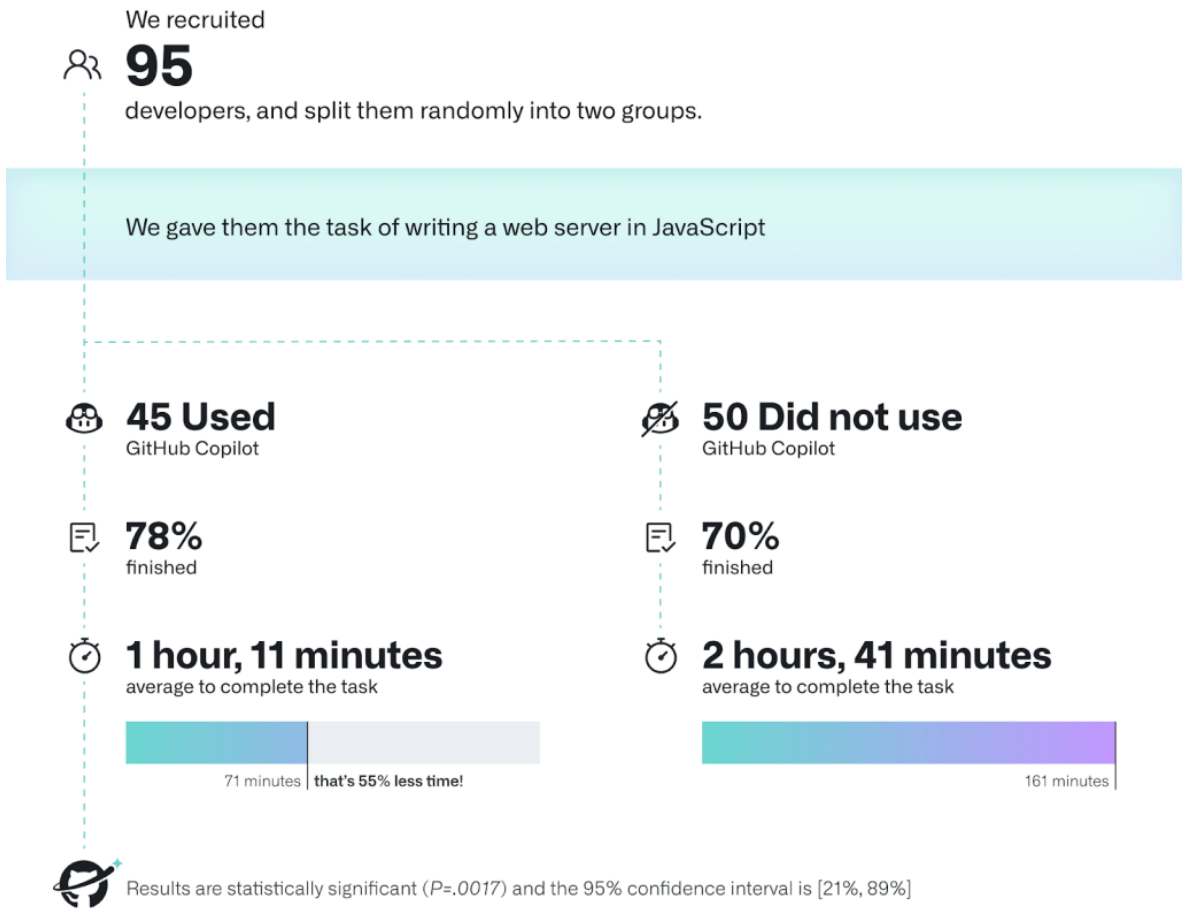
Why GitHub Copilot?

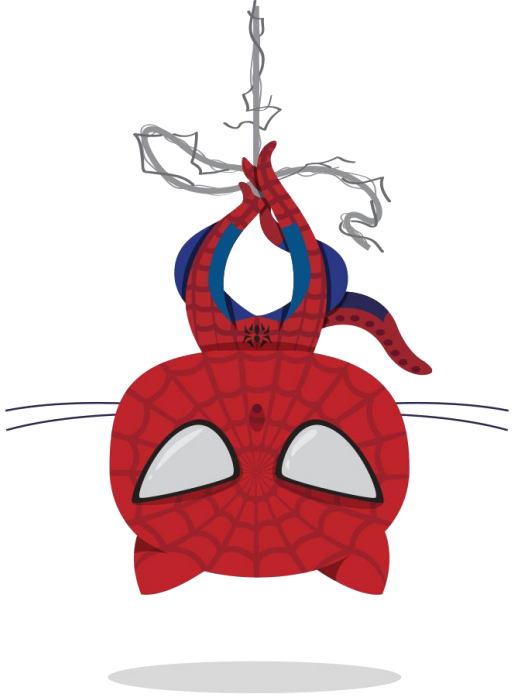


Why GitHub Copilot?

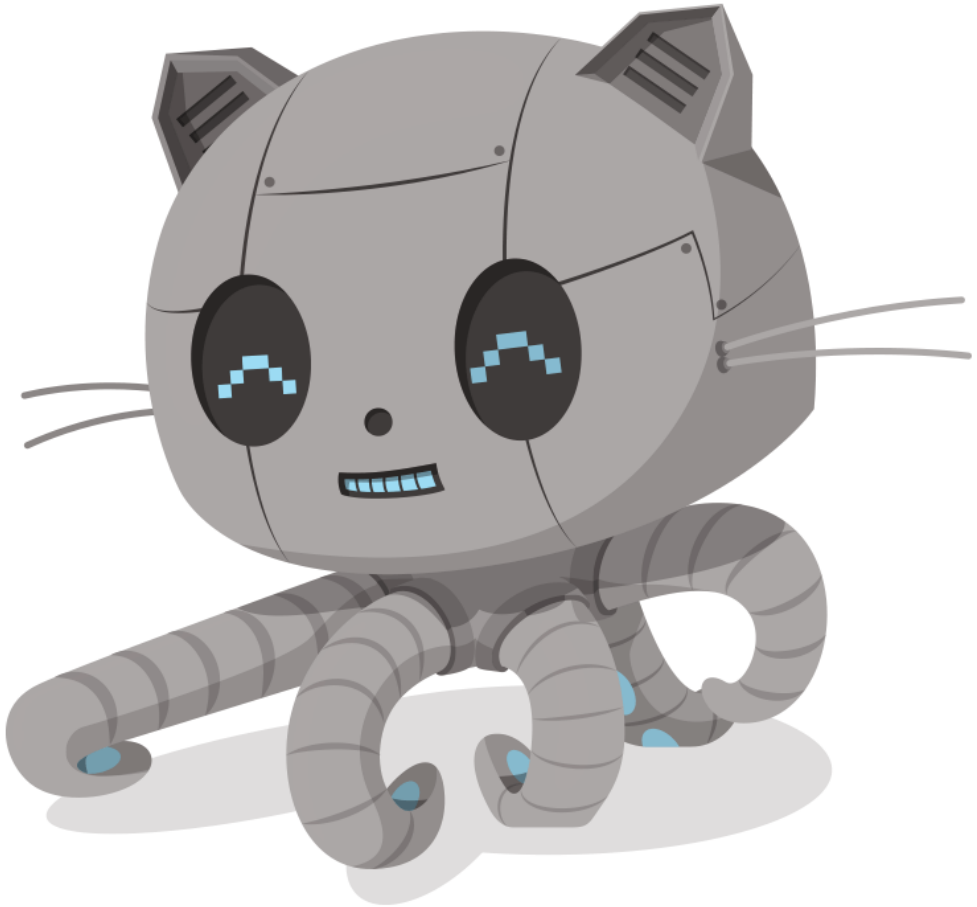


What you need

- A GitHub account
- A Copilot seat (license)
  - Free (students, teachers, Open Source maintainer)
  - Individual $ 10 / month
  - Business $ 19 / month
- Supported IDE
  - Visual Studio
  - Visual Studio Code
  - VIM
  - Neovim
  - JetBrains IDEs
  - Azure Data Studio



Copilot in Action



Tips

- Give Context
  - Comments
  - Keep a couple of relevant tabs open
- Give GH Copilot an example
- Use good coding practices.
  - Use descriptive variable names and functions
  - Follow consistent coding styles and patterns

Legal

Can I use Microsoft's Copilot services and the output they generate without worrying about copyright claims?

yes, you can

Source.

What is next?

- Copilot for Docs
- Copilot for PullRequests
- Copilot Voice
- Copilot for CLI

=> Visit https://githubnext.com/

Slides & Links

- https://github.com/whiteducksoftware/azure-meetup-rosenheim
- https://octodex.github.com ☺

Questions?

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Thank you!