

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)

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Increase your Developer Productivity with the power of GitHub and AI

Azure OpenAI Meetup, October 23





Who are we?





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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)



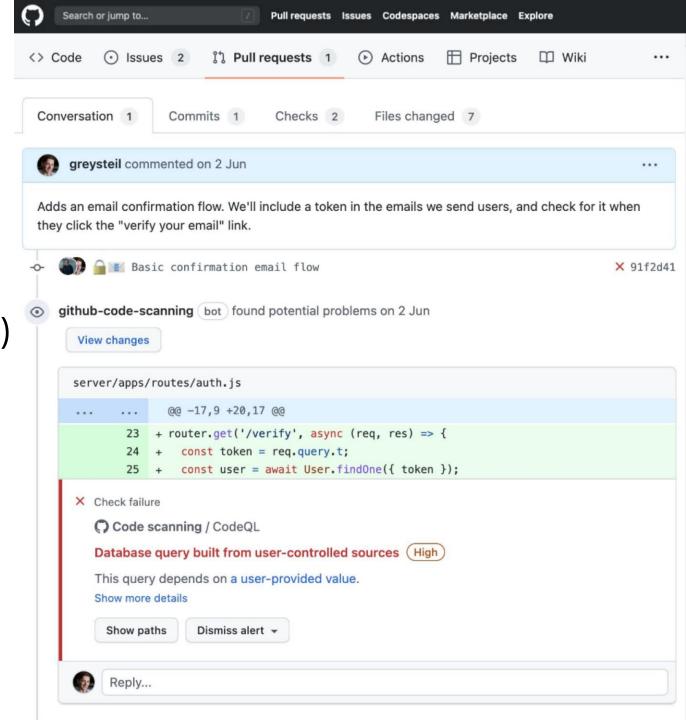
GitHub Advanced Security

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

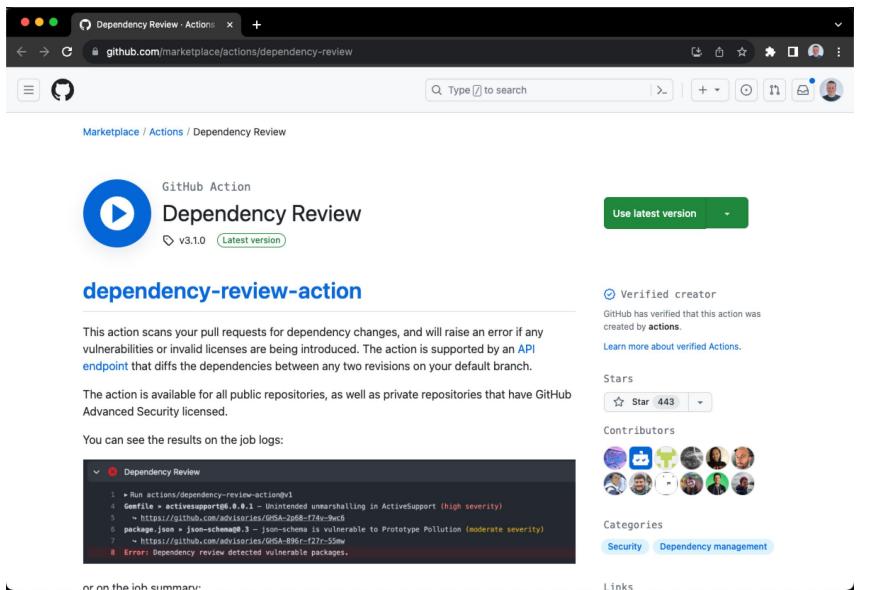
Available for free for public Repos on github.com!

Code scanning

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

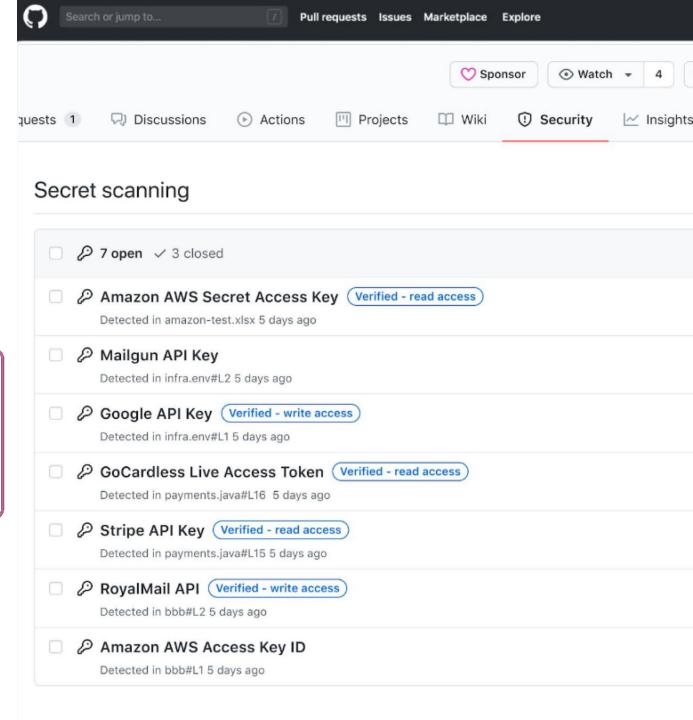


Dependency review



Secret scanning

```
■ acme-corp — -zsh — 80×29
. . .
  push-protection-demo git:(main) git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 1020 bytes | 1020.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote: error GH009: Secrets detected! This push failed.
remote:
                    GITHUB PUSH PROTECTION (beta)
remote:
         Resolve the following secrets before pushing again.
remote:
        -- GitHub Personal Access Token
         locations:
remote:
           - commit: e9e201cf2386222cdb4459ac3e78b7711221e8a8
remote:
             path: .env.example:27
remote:
remote:
        (?) To push, remove secret from commit(s) or follow this URL to allow the secre
        http://github.com/dsp-testing/push-protection-demo/security/secret-scanning/unb
 ! [remote rejected] main -> main (push declined due to a detected secret)
 rror: failed to push some refs to 'github.com:dsp-testing/push-protection-demo.git'
   push-protection-demo git:(main)
```



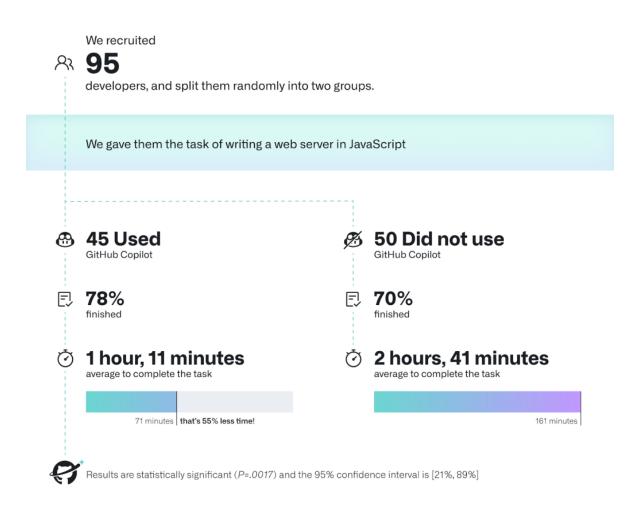
The Power of GitHub Copilot

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Why GitHub Copilot?

When using GitHub Copilot... **Perceived Productivity** I am more productive 88% Satisfaction and Well-being* 59% Less frustrated when coding 60% More fulfilled with my job Focus on more satisfying work 74% 100% Efficiency and Flow* 88% Faster completion Faster with repetitive tasks 96% More in the flow 73% Less time searching Less mental effort on repetitive tasks 87%

Why GitHub Copilot?

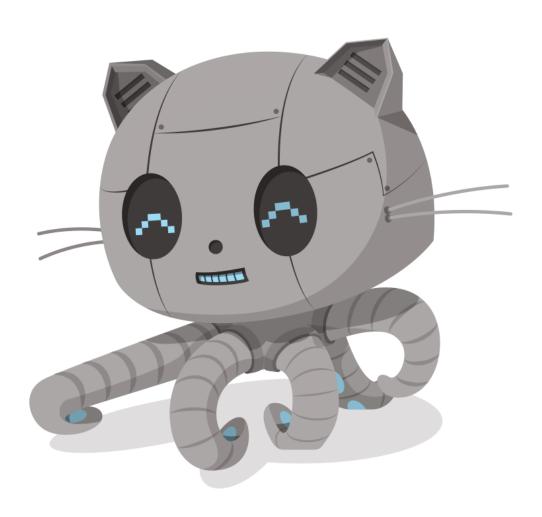


What you need

- 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!