GitHub

Hidden Productivity Champions

Gerwald Oberleitner
Azure Application Development
Microsoft Austria

Jürgen Etzlstorfer
Developer Engagement Lead
Microsoft Austria

Austrian Developer
Community Day
25. Feb. 2022

www.cloudusergroup.at
@cloudusergrpat
#ADCD2022

Microsoft atwork hololux tietoevry time cockpit CODING CLUB LINZ

Gerwald Oberleitner

https://www.linkedin.com/in/gerwaldo/

"helping software development organizations to implement DevOps & benefit from Azure Cloud Services"

Specialist (Technical) Sales Unit:
Digitalization & Azure Application Innovation

Educational basis in networking industry,
Microsoft Certified Azure Developer & DevOps Engineer
Certified SCRUM Master, agile software development

Speaker at conferences (BUILD conference, TechX, DevInsider Tour, WeAreDevelopers World Congress & AI conference, Software Quality Days, Global Azure Bootcamp, internal conferences, ..)

Jürgen Etzlstorfer

https://jetzlstorfer.github.io/

Cloud, Azure, Kubernetes, Community

Developer Engagement Lead for Azure

Microsoft Austria

Maintainer of cloud-native project keptn

Co-organizer of Cloud Native Linz meetup

Speaker at meetups & conferences (KubeCon North America, Global Azure Austria, cdCon 2021, Red Hat Summit, …)

GitHub is the largest developer platform on Earth

73M+
Developers

4M+
Organizations

1,000s
Top open source communities

1B+
Contributions per year

200M+
Private and public repositories

Focus on providing a developer experience **that enables them to do their best work.**

github.dev

What is github.dev?

- web-based editor
- lightweight editing experience
- runs entirely in your browser
- navigate files and source code repositories from GitHub, make and commit code changes

There are two ways to go directly to a VS Code environment in your browser and start coding:

- Press the . key on any repository or pull request
- Swap .com with .dev in the URL

GitHub Codespaces

- Available for Team & Enterprise plans in GitHub, individual accounts are in Beta
- Fast, secure, customizable cloud development environments with up 32 cores, 64GB RAM (expansion of options planned, e.g. GPU versions), optional: Azure subscription for easy billing
- Standard GitHub image (35GB in size) starts in under 10s
- Connect in browser or via Visual Studio Code Remote
- Remote debugging (port forwarding)

Customization of DevContainers

- Customization of the Visual Studio Code environment (.devcontainer.json) and container (dockerfile), standard image: https://github.com/microsoft/vscode-dev-containers/tree/main/containers/codespaces-linux
- Customization options
  - Customize container base image (.devcontainer/dockerfile)
  - Post create commands (dotfiles, scripts, devcontainer.json)
  - Install VS Code Extensions (devcontainer.json)
  - Port forwards (devcontainer.json)
  - VS Code settings (.vscode/settings.json)

GH Actions

- Workflow system in GitHub which can also be used for CI/CD but as well for general workflows
- free for public repos & self-hosted runners
- Private repos have free minutes (add. mins.: 0,8 cent USD)
  - Free: 2.000 minutes
  - Team: 3.000 minutes
  - Enterprise Cloud: 50.000 minutes

    Enterprise Server supports private runners & more to come
- yaml is part of the repo, over 12.000 actions in the marketplace which are a reference to another clear text readable repo

GitHub Marketplace · Actions to improve your workflow

GitHub pages

GitHub Pages are public webpages hosted & published through GitHub

- Static content
- Custom domains or *name.github.io*
- Themes/templates (Jekyll)

Personal profile page

If you name a repo equal to your username the readme file in this repo will be displayed in your profile page

- Use markdown

GitHub Gists

Easy way to instantly share codes, notes, and snippets.

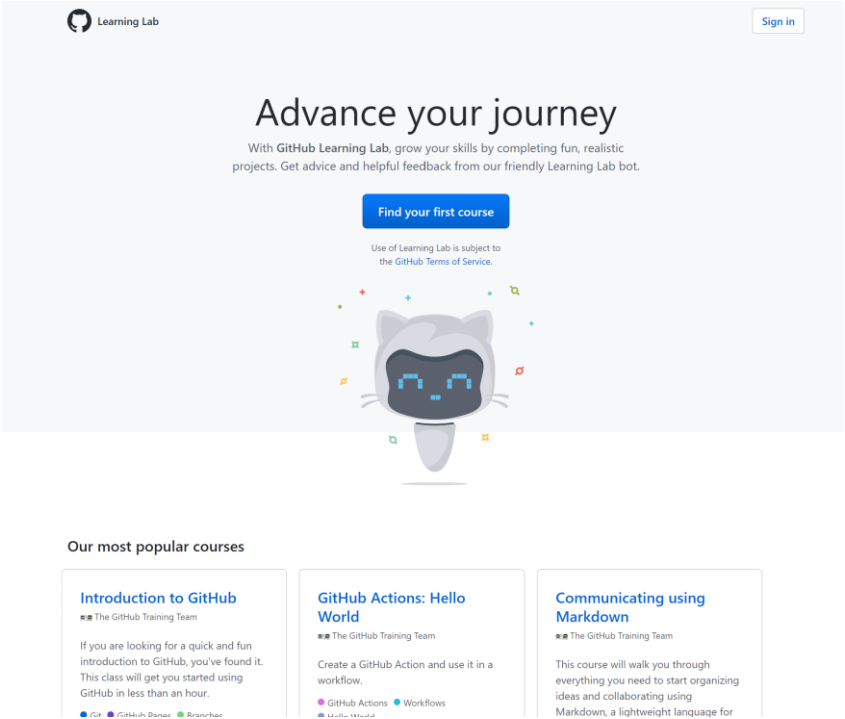
https://gist.github.com

- Markdown
- Code snippets
- Notes

Learning Lab

[GitHub Learning Lab]

Free courses with hands-on experience supported by a learning bot



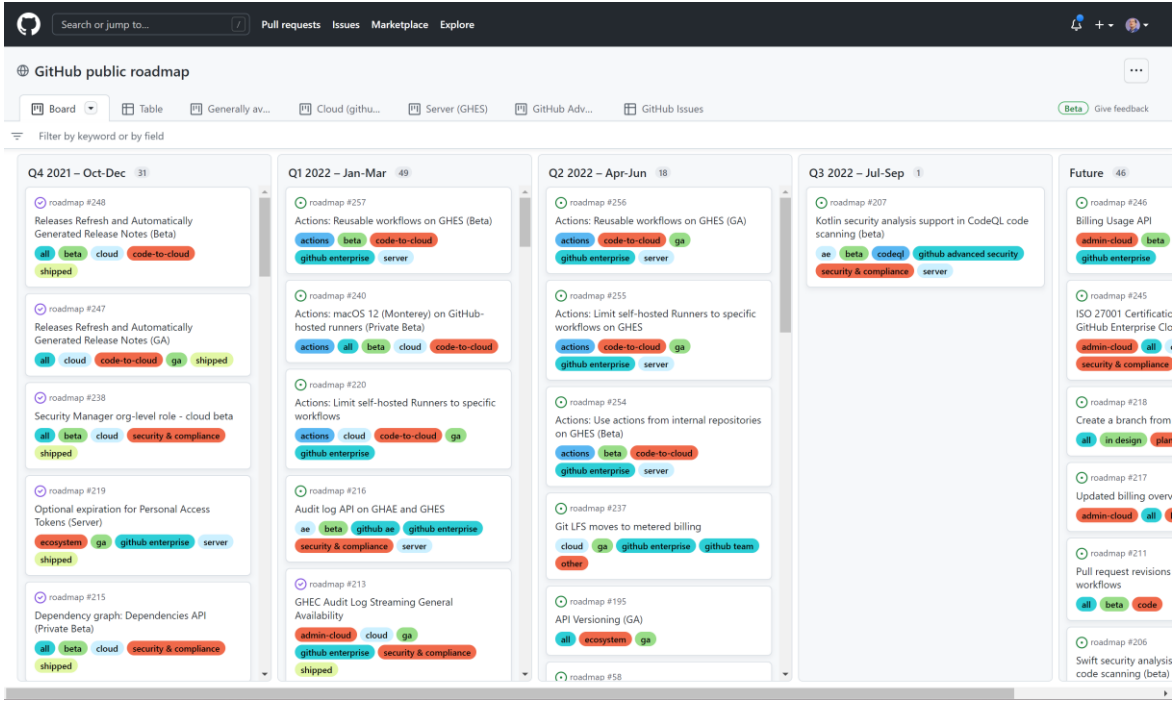
Education

Special offers for students & teachers

- https://education.github.com/
- Student programs (> 13yrs): Students - GitHub Education
- Teacher programs: Teachers - GitHub Education
- GitHub Classroom: GitHub Classroom,
  manage assignments in your dashboard, grade work automatically
- Enroll your Education organization for free (students with the school domain can automatically access student benefits):
  Schools - GitHub Education

Roadmap

[GitHub public roadmap]



GHEC: GitHub Enterprise Cloud (SaaS version)

GHES: GitHub Enterprise Server

GHAS: GitHub Advanced Security

Thank you!

Find samples & the presentation at
https://github.com/gerwaldo/ADCD2022

Join the next session at the full hour!

Austrian Developer
Community Day
25. Feb. 2022

www.cloudusergroup.at
@cloudusergrpat
#ADCD2022

Microsoft atwork hololux tietoevry time cockpit CODING CLUB LINZ