

GitHub

GitHä?

WAS IST DAS?

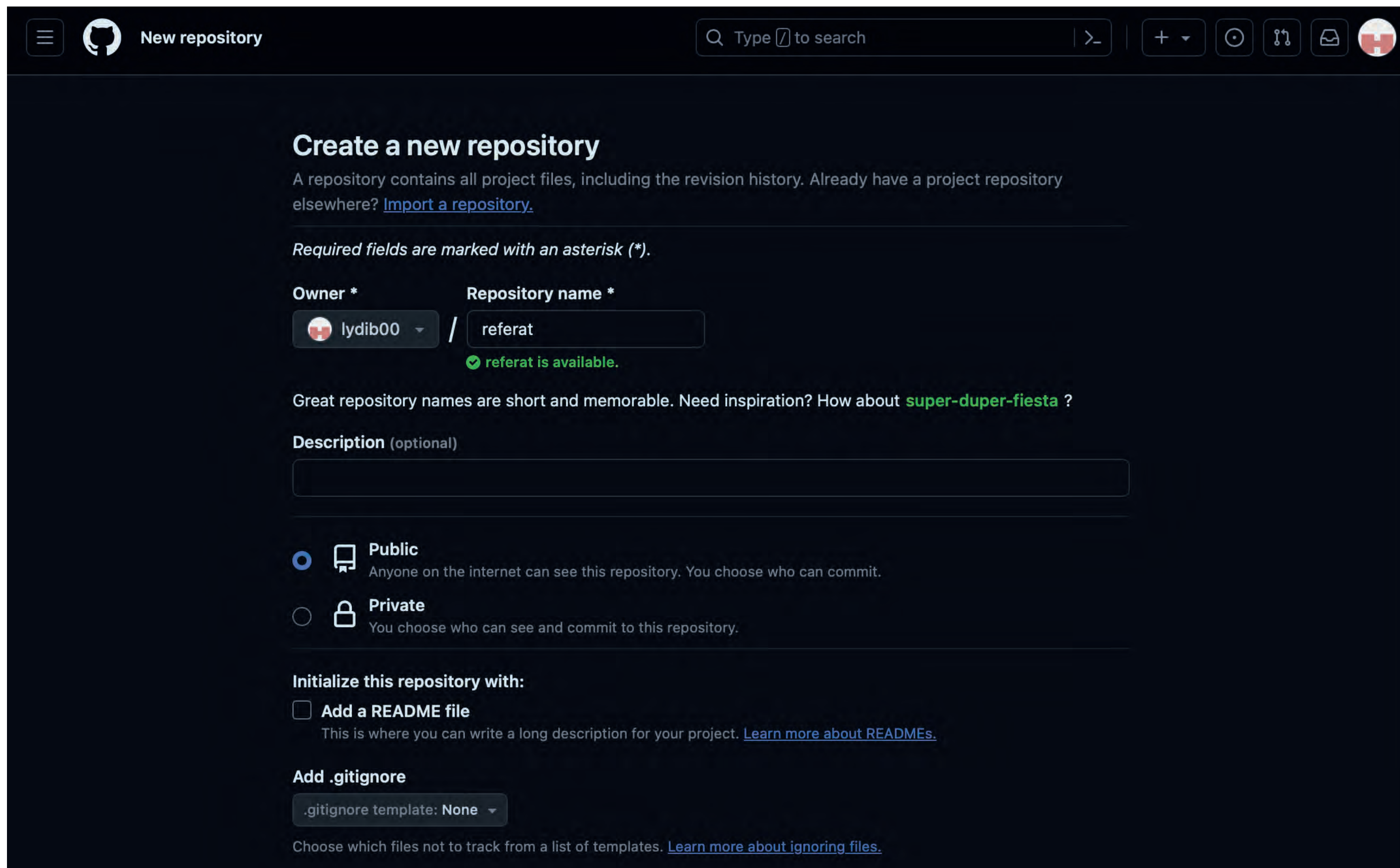
- Onlinedienst zur Softwareentwicklung und Versionsverwaltung
- wie ein soziales Netzwerk für Quellcodes
- wurde 2008 Tom Preston-Werner, Chris Wanstrath und PJ Hyett gegründet
- gehört seit 2018 Microsoft
- ca 83 Millionen User (2022)
- basiert auf Git



GIT:

- Software für Versionsverwaltung
- mit mehreren Entwicklern an einem Projekt arbeiten, ohne Datenkonflikte
- fügt automatisch verschiedene Programmteile zusammen
- bei jeder Änderung -> neue Version

FUNKTIONEN



The screenshot shows the GitHub interface for creating a new repository. At the top, there is a navigation bar with the GitHub logo, a search bar, and several utility icons. The main heading is 'Create a new repository'. Below this, there is a brief explanation of what a repository is and a link to 'Import a repository'. A note states that required fields are marked with an asterisk. The form includes two main fields: 'Owner *' with a dropdown menu showing 'lydib00' and 'Repository name *' with a text input containing 'referat'. A green checkmark below the repository name indicates it is available. There is also a suggestion for repository names: 'Great repository names are short and memorable. Need inspiration? How about **super-duper-fiesta** ?'. Below this is a 'Description (optional)' text area. The visibility options are 'Public' (selected) and 'Private'. Under 'Initialize this repository with:', there is a checkbox for 'Add a README file' and a dropdown for '.gitignore template' set to 'None'. A link to 'Learn more about ignoring files' is provided at the bottom.

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Required fields are marked with an asterisk (*).

Owner * / Repository name *

lydib00 / referat

referat is available.

Great repository names are short and memorable. Need inspiration? How about **super-duper-fiesta** ?

Description (optional)

Public
Anyone on the internet can see this repository. You choose who can commit.

Private
You choose who can see and commit to this repository.

Initialize this repository with:

Add a README file
This is where you can write a long description for your project. [Learn more about READMEs.](#)

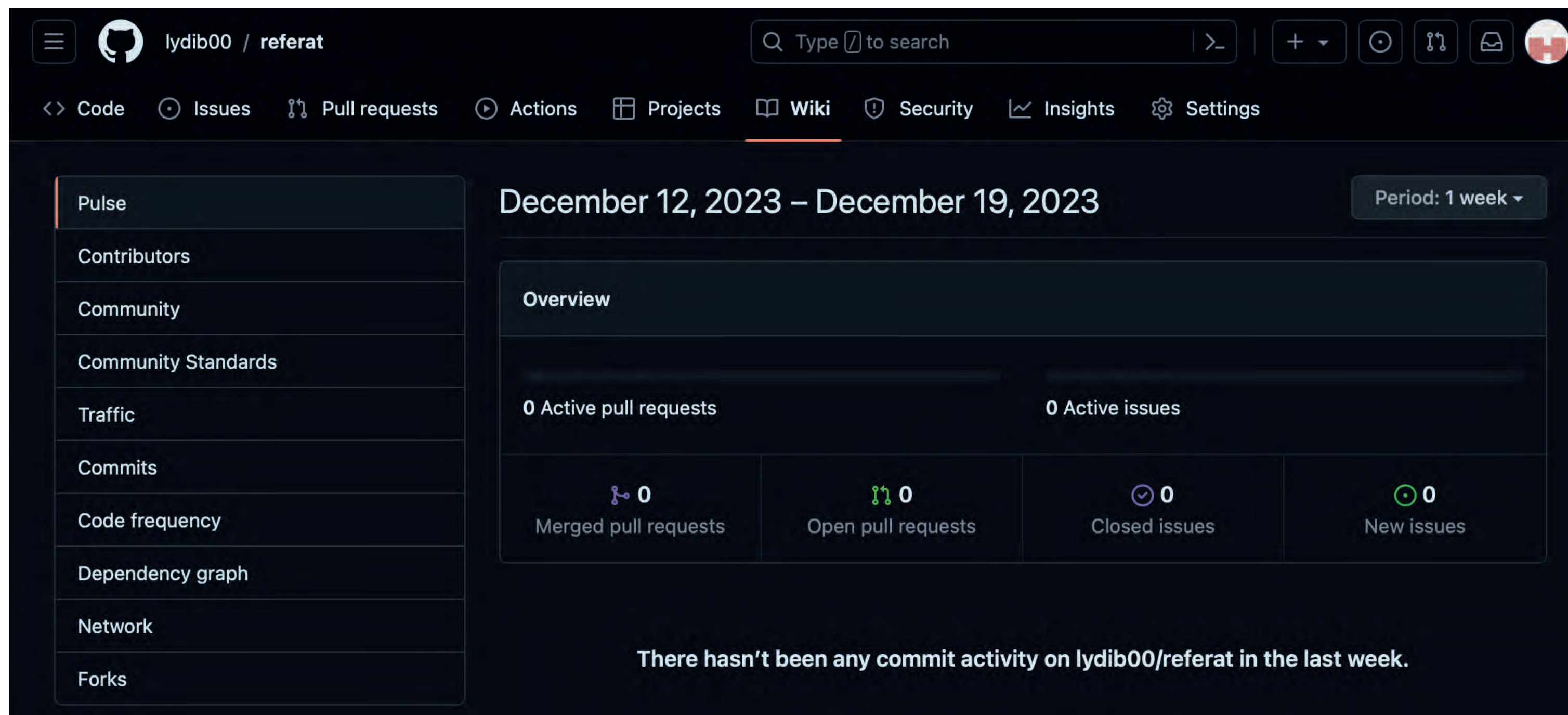
Add .gitignore

.gitignore template: None

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

REPOSITORY-HOSTING:

- Codes, Dateien und Projekte in Repositories
- öffentlich oder privat



lydib00 / referat

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

December 12, 2023 – December 19, 2023 Period: 1 week

Overview

0 Active pull requests 0 Active issues

0 Merged pull requests	0 Open pull requests	0 Closed issues	0 New issues
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There hasn't been any commit activity on lydib00/referat in the last week.

VERSIONSVERWALTUNG:

- Verlauf und Änderungen eines Projekts werden gespeichert
- man kann Änderungen rückgängig machen
- Projekt ist immer auf dem neuesten Stand

ZUSAMMENARBEIT:

- Pull-Requests (Vorschläge für Änderungen)
- Überprüfen von Änderungen durch Teammitglieder
- Branching und Merging
- ToDo-Listen

The screenshot shows the GitHub interface for creating a new issue. The repository is 'lydib00 / referat'. The navigation bar includes 'Code', 'Issues', 'Pull requests', 'Actions', 'Projects', 'Wiki', 'Security', 'Insights', and 'Settings'. The 'Issues' tab is active. The form has two main sections: 'Add a title' and 'Add a description'. The title field contains 'Mein Problem'. The description field is empty and has a rich text editor toolbar with options for bold, italic, link, and other formatting. On the right side, there are settings for 'Assignees' (No one—assign yourself), 'Labels' (None yet), 'Projects' (None yet), and 'Milestone' (No milestone). At the bottom right, there is a 'Submit new issue' button.

bug	Something isn't working
documentation	Improvements or additions to documentation
duplicate	This issue or pull request already exists
enhancement	New feature or request
good first issue	Good for newcomers
help wanted	Extra attention is needed
invalid	This doesn't seem right
question	Further information is requested
wontfix	This will not be worked on

CODE-REVIEW + ISSUE-TRACKING:

- Möglichkeiten zum Überprüfen und Kommentieren von Code
- Fehlerberichte, Verbesserungsvorschläge oder andere Aufgaben als Issues erstellen -> diese können verfolgt und diskutiert werden

The screenshot shows the GitHub Explore page for user **lydib00**. The user's profile on the left shows 0 starred topics and 0 starred repositories. The main content area features a video titled "The Download: DIY Split-Flap Display, ..." by The Download, with a "Teilen" (Share) button and a "1/45" indicator. Below the video is a link to "Get the latest developer and open source news" from The Download, with a sub-headline "Join Senior Developer Advocate Christina Warren for all the latest developer, open source, and GitHub news." On the right, the "Trending repositories today" section lists three repositories: **damo... / AnyDoor** (1.4k stars), **dam... / i2vgen-xl** (1.3k stars), and **... / weak-to-st...** (1.9k stars). Below these are two more repositories: **... / Mastering...** (2.4k stars) and another repository with 1.9k stars.

COMMUNITY-INTERAKTION:

- Vernetzung mit Open-Source-Community
- Feedback, Fragen, Diskussionen
- Trendings

PREISE

How often do you want to pay?

Monthly Yearly 👉 Get 1 month free

Free

The basics for individuals and organizations

\$ 0

per month forever

Create a free organization

- > Unlimited public/private repositories
- > Automatic security and version updates
- > 2,000 CI/CD minutes/month
Free for public repositories
- > 500MB of Packages storage
Free for public repositories
- > Issues & Projects
- > Community support

Team

Advanced collaboration for individuals and organizations

~~\$ 4~~ \$ 3.67

per user/month for the first 12 months*

Continue with Team

- ← Everything included in Free, plus...
- > Access to GitHub Codespaces
- > Protected branches
- > Multiple reviewers in pull requests
- > Draft pull requests
- > Code owners

RECOMMENDED

Enterprise

Security, compliance, and flexible deployment

~~\$ 21~~ \$ 19.25

per user/month for the first 12 months*

Contact Sales

Start a free trial

- ← Everything included in Team, plus...
- > Enterprise Managed Users
- > User provisioning through SCIM
- > Enterprise Account to centrally manage multiple organizations

Additional add-ons



GitHub Copilot

Starting at \$10/month after a 30 day trial.

Compare plans >



Codespaces

Starting at \$0.18 per hour of compute and \$0.07 per GB of storage.

Learn more >



Large File Storage

\$5 per month for 50 GB bandwidth and 50 GB for storage.

Learn more >



Enterprise Only

GitHub Advanced Security

\$49 per month per active committer.

Learn more >

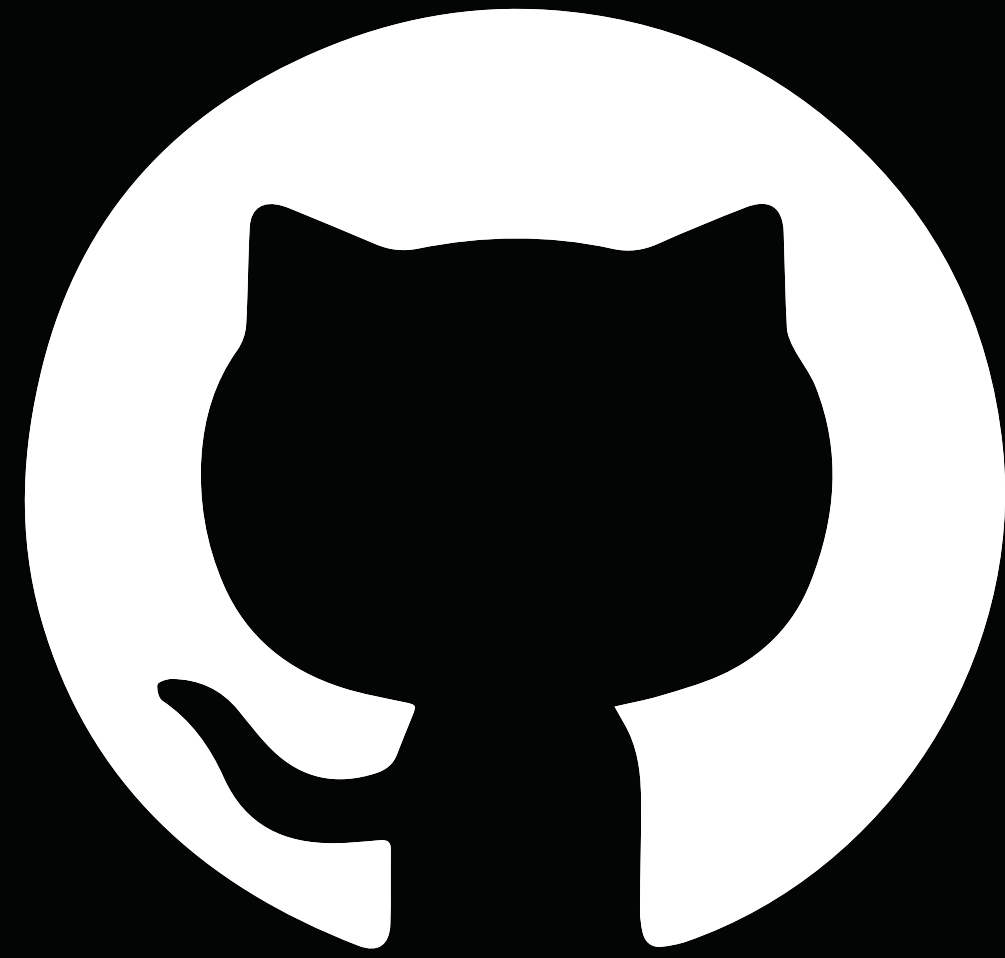
VOR-/NACHTEILE?

VORTEILE:

- fördert die Zusammenarbeit
- ermöglicht Austausch von Ideen, Diskussionen, Fehlerbehebung und Code-Reviews in Echtzeit
- Open Source Community
- Plattformunabhängigkeit
- Sichere Codeverwaltung: Repositories werden regelmäßig gesichert und können bei Bedarf wiederhergestellt werden

NACHTEILE:

- Eingeschränkte Funktionalität für große Projekte in Bezug auf Leistung, Geschwindigkeit und Speicherplatzprobleme
- Abhängigkeit von der Internetverbindung
- Private Repositories kostenpflichtig
- Beschränkte Anpassbarkeit -> hauptsächlich für Codes gemacht



GitHub