

GitHub

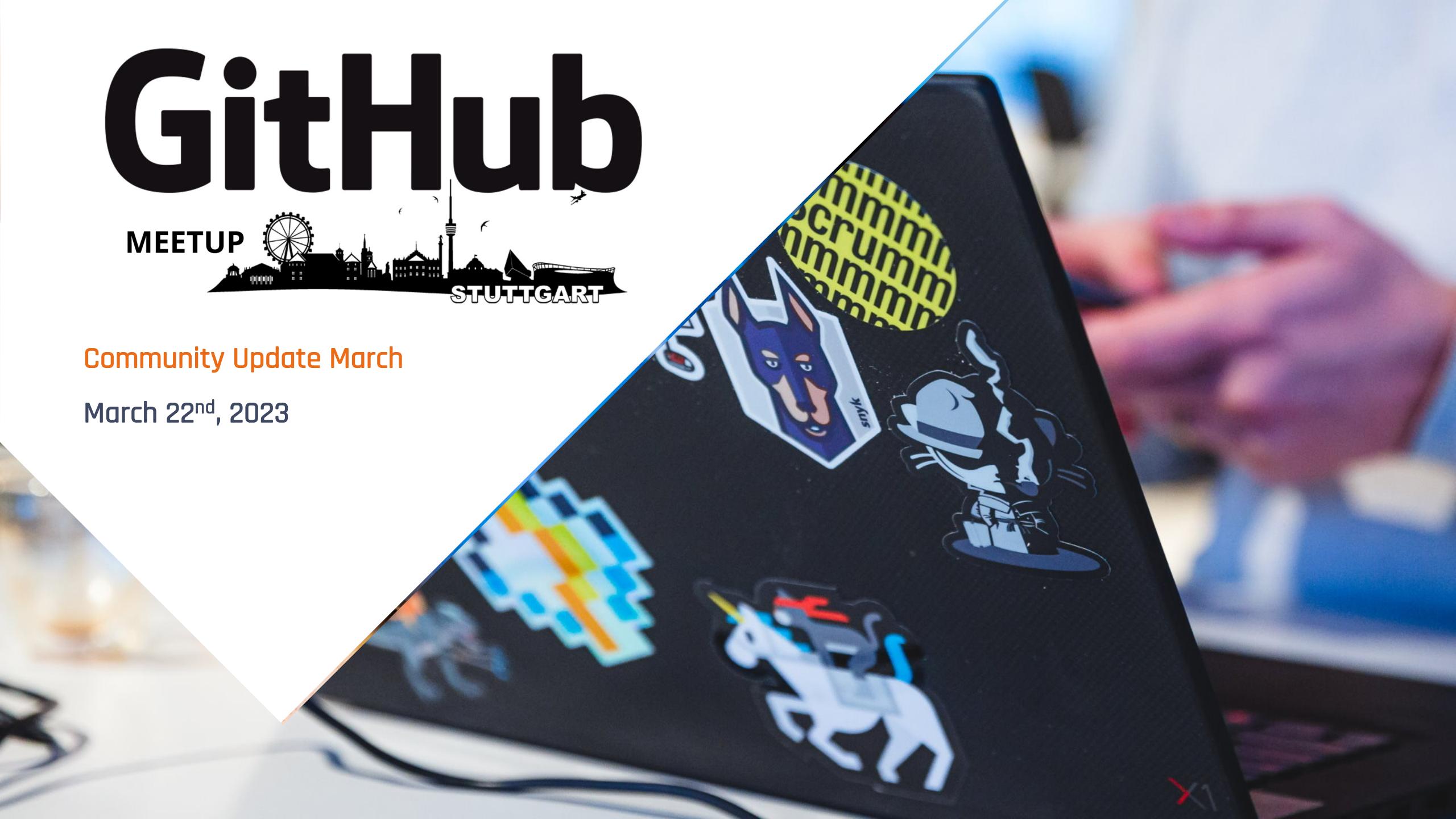
MEETUP



STUTTGART

Community Update March

March 22nd, 2023





GitHub Actions

- Required Workflows

The screenshot shows the GitHub Actions status page for a pull request. It displays two sections: 'Some checks haven't completed yet' and 'Required statuses must pass before merging'. Under 'Some checks haven't completed yet', there are two queued CI / build and Local CI or CD checks. Under 'Required statuses must pass before merging', it states that all required statuses must pass for automatic merging. A 'Merge pull request' button is at the bottom.

General / Edit required workflow

Edit the required workflow to run in your organization's repositories. These workflows will run alongside the repository workflows and branch merging will be blocked until the required checks succeed. [Learn more about configuring required workflows](#).

Required workflow

Specify a workflow file to run in your repositories. Any secrets used within this file need to be created in the organization or target repositories for the workflow to run correctly.

Some repositories may be disabled due to [policy restrictions](#).

.github / .github/workflows/blank.yml@main

Target repositories

Select which repositories the workflow will be enforced on. Required workflows override existing repository policies and will enable this workflow to run by default. [Learn more about the policy restrictions for target repositories](#).

All repositories ▾

Update workflow

The screenshot shows a 'Commit changes' dialog box. It contains a message box with an error: 'There was an error committing your changes: File could not be edited'. Below it is a 'Commit Message' field with 'Update README.md' and an optional description field. At the bottom, there are two radio buttons: one selected for 'Commit directly to the main branch.' and another for 'Create a new branch for this commit and start a pull request.' A 'Cancel' and 'Commit changes' button are at the bottom right.



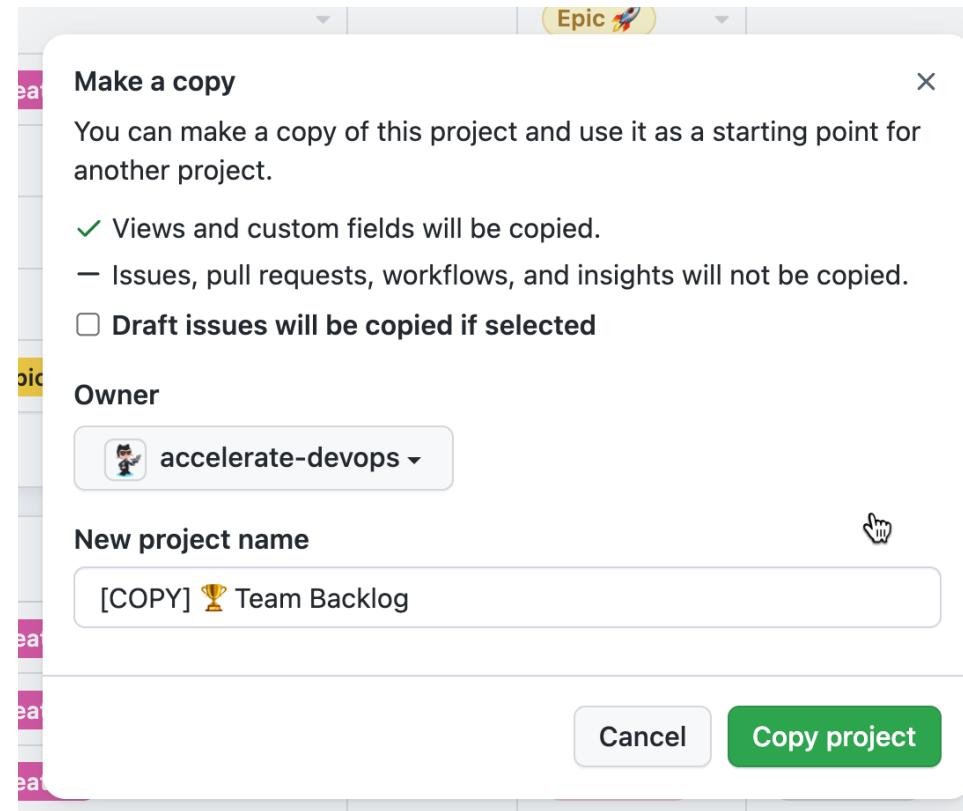
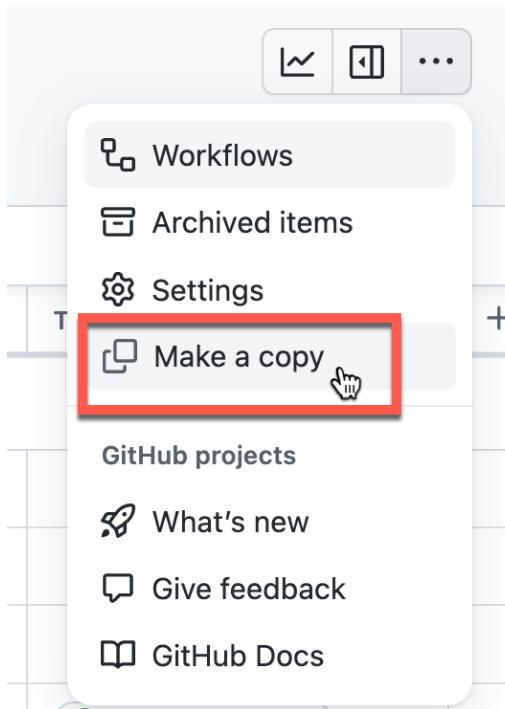
GitHub Actions

- Admins can bypass environment protection rules
- GitHub Actions: Introducing the new, more powerful GitHub-hosted x64 macOS runners ([beta](#))
- GitHub Actions - Updating the default `GITHUB_TOKEN` permissions to [read-only](#)
- Support for configuration variables in workflows
- GitHub Actions: SBOMs now attached to hosted runner image releases for Ubuntu & Windows
- GitHub Actions - Sharing actions and reusable workflows from private repositories is now GA



Issues / Projects

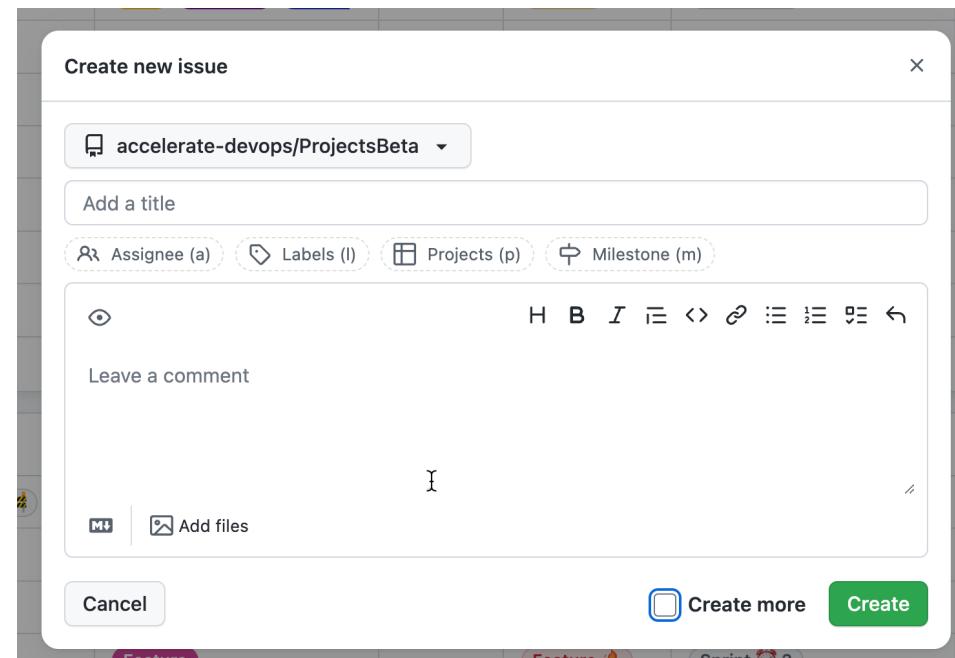
- Copy your project's views, custom fields and draft issues





Issues & Projects

- Sort board columns by field value
- Create issue dialog





Issues & Projects

- Add cross-organization issues and pull requests to Projects (#)
- Single-select field colors and descriptions

The screenshot shows the 'Level' field settings in Jira. The 'Field name' is 'Level'. The 'Field type' is 'Single select'. The 'Edit option' dialog is open, showing an option named 'Epic' with a yellow icon. The 'Label text' is 'Epic', 'Color' is yellow, and 'Description' is 'Epic spanning many sprints'. The dialog also notes that it is 'Visible in group headers and value pickers'. At the bottom are 'Cancel' and 'Save' buttons.

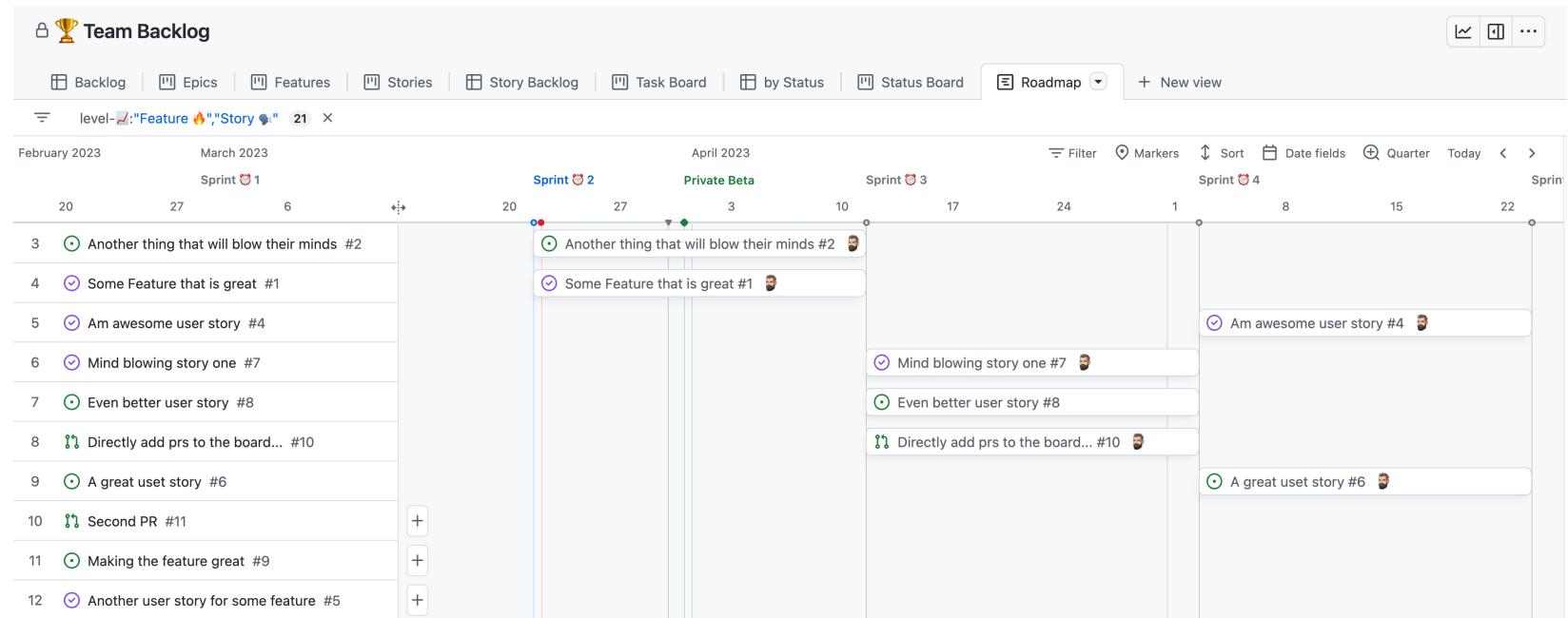
The screenshot shows the Jira Team Backlog board. The top navigation bar includes Backlog, Epics, Features, Stories, Story Backlog, Task Board, by Status, Status Board, and Roadmap. A search filter '-level~:"Task" 36' is applied. The backlog table has columns: Title, Assignees, Status, Labels, Effort, and Level. The backlog items are categorized by color:

Level	Title	Assignees	Status	Labels	Effort	
Epic	Another epic initiative #50	wulfland	Done ✓	Epic		Epic 🚀
Epic	An epic initiative that people will l...	wulfland	Done ✓	Epic Frontend Service		Epic 🚀
Draft Epic			Todo 🚧			Epic 🚀
Epic	Epic shit feature 2 #52		Todo 🚧	Feature		Epic 🚀
Task	#pro		Todo 🚧			Epic 🚀
Task	Sub2 #60		Todo 🚧			Epic 🚀
Text			Todo 🚧			Epic 🚀
Epic	New auto-added epic 🎉 #61		Todo 🚧	Epic		Epic 🚀
Feature	A bigger feature					
Feature	Another thing that will blow their minds #2	wulfland	In Progress 🛠️	Feature Frontend UX		Feature 🔥
Feature	Some Feature that is great #1	wulfland	Done ✓	Feature Service		Feature 🔥



Issues & Projects

- Roadmap
 - Public Beta
 - Markers (Milestones, date fields)
- Manage Project from the CLI (\$gh projects)





Issues & Projects

- Automatically add and archive project items

← Workflows

Default workflows

- Item added to project
- Item reopened
- Item closed
- Code changes requested
- Code review approved
- Pull request merged
- Auto-archive items**
- Auto-add to project

Auto-archive items

Discard Save and turn on workflow

Filter items

Filters

```
is:issue is:closed updated:<@today-2w reason:"not planned"
```

Using the updated operator means that your workflow will run every 12 hours

Archive item

← Workflows

Default workflows

- Item added to project
- Item reopened
- Item closed
- Code changes requested
- Code review approved
- Pull request merged
- Auto-add to project**

Auto-add to project

Discard Save and turn on workflow

When the filter matches a new or updated item

Filters

ProjectsBeta

```
is:issue,pr is:open label:bug
```

See 0 existing items that match this query

Going forward, all new or updated items that match your filter will be auto added. You can also manually add items that currently match your filter

Add the item to the project

- wulfland added the **Epic** label now
- github-project-automation (bot) added this to **Team Backlog** now
- github-project-automation (bot) moved this to **Todo** in **Team Backlog** now



Issues & Projects

- Tasklist improvements

Feature 1 #62

wulfland opened this issue 5 minutes ago · 0 comments

wulfland commented 5 minutes ago · edited

Tasks

- Story 1 #64 (1 of 3)
- Story 2 #66 (1 of 2)
- Story 3 #65

+ Add item to Tasks

Beta Give feedback ...

Story

Story

Story

Set labels →

Set assignees →

Set project →

Remove

wulfland mentioned this issue 5 minutes ago

New auto-added epic 💩 #61

(Open)

The screenshot shows a Jira tasklist interface for an issue titled "Feature 1 #62". At the top, there's a status bar with three items: "Open", "1 of 3 tasks", and "Tracked by #61". The "Tracked by" item is highlighted with a red box. Below the status bar, a comment from "wulfland" is visible, along with a timestamp and edit history. The main area displays a list of tasks under the heading "Tasks". The first task is "Story 1 #64" with a status of "1 of 3". The second task is "Story 2 #66" with a status of "1 of 2". The third task is "Story 3 #65" with a checkmark. Below the tasks is a button to "Add item to Tasks". To the right of the tasks, there's a "Give feedback" section with three "Story" buttons, each with a user icon. A context menu is open on the right side, with the "Set labels" option highlighted by a red box. Other options in the menu include "Set assignees", "Set project", and "Remove". At the bottom, a message indicates a new auto-added epic was created. The bottom right corner has a green "Open" button.



Issues & Projects

- Tracks, Tracked by

Team Backlog

Backlog Epics Features Stories Story Backlog Task Board by Status Status Board Roadmap + New view

level- "Epic" 8 ×

Title	Assignees	Status	Target Date	Level	Labels	Tracks	Tracked by
1 Another epic initiative #50	wulfland	Done ✓		Epic	Epic	0 of 4	
2 An epic initiative that people will... #3	wulfland	Done ✓	Mar 30, 2023	Epic	Epic Frontend Service		
36 Draft Epic		Todo ↗		Epic			
45 Epic shit feature 2 #52		Todo ↗		Epic	Feature		ProjectsBeta#50
46 #pro		Todo ↗		Epic			
47 Sub2 #60		Todo ↗		Epic			
48 Text		Todo ↗		Epic			
49 New auto-added epic 🚧 #61		Todo ↗		Epic	Epic	0 of 2	

+ You can use **Control + Space** to add an item

Team Backlog

Backlog Epics Features Stories Story Backlog Task Board by Status Status Board Roadmap

level- "Epic" 8 ×

Todo 6

Draft ...
Draft Epic
Epic

In Progress 0

Draft ...
#pro
Epic

Done 2

ProjectsBeta #50
Another epic initiative
Epic Epic 0 of 4

ProjectsBeta #52
Epic shit feature 2
Epic Feature
Tracked by ProjectsBeta#50

ProjectsBeta #60
Sub2
Epic

ProjectsBeta #61
New auto-added epic 🚧
Epic Epic 0 of 2

ProjectsBeta #3
An epic initiative that people will love
Mar 30, 2023 Epic Feature Epic Frontend Service

A screenshot of a project management tool's backlog interface. The top navigation bar includes links for Backlog, Epics, Features, Stories, Story Backlog, Task Board, by Status, Status Board, and Roadmap. A search/filter bar shows 'level- "Epic" 8 ×'. The main area is divided into three columns: 'Todo' (6 items), 'In Progress' (0 items), and 'Done' (2 items). Each column contains a list of backlog items with their titles, descriptions, status, labels, and tracking information. A red box highlights the 'Tracked by' field for the first item in the 'Todo' column, which is linked to 'ProjectsBeta#50'. Another red box highlights the 'Tracked by' field for the first item in the 'Done' column, which is also linked to 'ProjectsBeta#50'. The 'Epics' tab is selected in the top navigation.



Markdown Helpers (Public Beta)

- Code Block
 - Support for language-specific syntax highlighting
- Details
 - Specify details that the reader can open and close on demand
- Saved Replies
 - Access your [saved replies](#) directly from Slash Commands
- Table
 - Easily insert Markdown Tables
- Templates
 - Easily populate your Repository's Issue or Pull Request templates directly from Slash Commands!
- Tasklist
 - Easily insert a [Tasklist](#)
-





GHAS

- Support for Kotlin 1.8 (beta)
- Delete stale code scanning configurations
- Use multi-repository variant analysis (beta) to run CodeQL queries at scale

Code scanning alerts / #10

Deserialization of user-controlled data

[Open](#) in main on Feb 16

Severity Critical

Affected branches main

Tags security

Weaknesses CWE-502

Configurations analyzing main

The following configurations have reported this alert.

/language:java Last updated last month

Tool Rule ID Query
CodeQL java/unsafe-deserialization View source

Cancel Save changes

.../src/main/java/com/github/advancedsecurity/storageservice/controllers/BlobController.java:45

```
42
43     private Blob deserializeBlob(
44         ObjectInputStream in = new ObjectInputStream(new ByteArrayInputStream(blobData))
45     ) {
46         Blob b = (Blob)in.readObject();
47         in.close();
48         return b;
49     }
}
```



GHAS

- Default setup for Code Scanning
- Enable it on org level

Code scanning

Automatically detect common vulnerabilities and coding errors.

Last scan on Dec 14, 2022 Set up ...

Tools

CodeQL analysis Identify vulnerabilities and errors with CodeQL for eligible repositories.

Other tools Add any third-party code scanning tool.

Default Languages detected in this repository are not compatible with this setup type at this time. Use the advanced setup instead.

Advanced Customize your CodeQL configuration via a YAML file checked into the repository.

Code scanning (Beta)

Identify vulnerabilities and errors in your code with CodeQL. Default CodeQL analysis will be set up on eligible public repositories and repositories with GitHub Advanced Security enabled.

Disable all Enable all

- Code scanning API to enable default setup with CodeQL on a repository

```
mike@Vulcan:~/source/attendee-wulfland
mike@Vulcan:~/source/attendee-wulfland mike@Vulcan:~/source/attendee-wulfland
..elerateDevOps (-zsh) ..ndeewulfland (-zsh)
~/.nvm/nodes/v14.17.0/lib/node_modules/gh/api ~/.nvm/nodes/v14.17.0/lib/node_modules/gh/api
gh api -X PATCH /repos/Microsoft-Bootcamp/attendee-wulfland/code-scanning/default-setup -f state=configured
gh: Auto CodeQL can only be enabled for the following languages javascript, python, ruby, typescript. (HTTP 422)
  "message": "Auto CodeQL can only be enabled for the following languages javascript, python, ruby, typescript.",
  "documentation_url": "https://docs.github.com/rest/code-scanning#update-a-code-scanning-default-setup-configuration"
}
(END)
```



Dependabot

- Dependabot updates support reusable workflows for GitHub Actions



General

- Docs are being translated to French, German, Korean, and Russian
- Code search and code view are available in public beta
- Enterprise forking

Owner *  friendly-forks ▾ / Repository name *  corgi-friend

By default, forks are named to distinguish it further. The repository **corgi-friend** already exists on this account. Please choose the name to

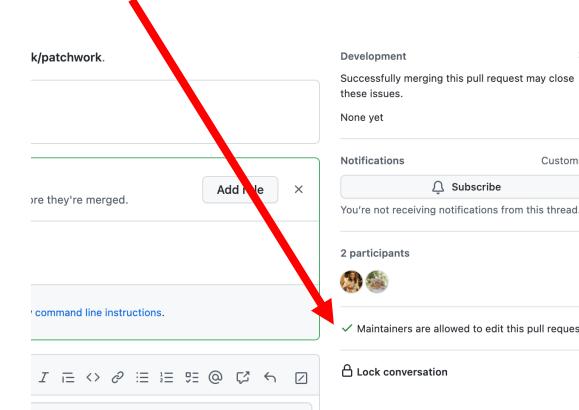
Owner *  friendly-forks ▾ / Repository name *  corgi-friends-forever

By default, forks are named to distinguish it further. The repository **corgi-friends-forever** is available. You can customize the name to



Pull Request

- Improved code scanning results
- Comment on file (public beta)
- Feature Preview: Rich Jupyter Notebook Diffs
- See when a Pull Request is editable by maintainers



The screenshot shows a GitHub pull request interface. At the top right, there's a green button labeled "Review changes". Below it, a modal window titled "Add comments to files" is open, with the text "You can now give your feedback on whole files, not just lines!" and two buttons: "Learn more" and "OK, dismiss". A red arrow points from the "Comment on file" bullet point in the list above to this modal. Another red arrow points from the "Rich Jupyter Notebook Diffs" bullet point to the rich diff view below.

Below the modal, the pull request details show a Jupyter notebook diff. The diff highlights changes in the code and their corresponding visual outputs. The code changes are:

```
1 + plt.figure(figsize=(10,6))
2 - plt.scatter(df['Height'],df['Weight'])
3 - plt.xlabel('Height')
4 - plt.ylabel('Weight')
5 + plt.tight_layout()
6 plt.show()
```

The visual outputs show a scatter plot of Height vs Weight before and after the changes. The "Outputs changed" section is highlighted in yellow, and the "Output deleted" and "Output added" sections are shown below. The bottom of the diff shows two "Conclusion" sections with notes about statistical operations and confidence intervals.



Pull Request

- Pull request merge queue (public beta)

```
on:  
  pull_request:  
    merge_group:
```

The screenshot shows the GitHub Merge Queue interface for the 'main' branch. It displays a list of 8 queued pull requests, each with a title, a small icon, the number of opens, the enqueued user, and the estimated merge time. To the right of the list, there are sections for 'Estimated time to merge' (3m 20s), '30 day merge count' (277), and a 'Give feedback' button.

PR #	Title	Opened by	Estimated merge in
#259	Introduce new checkout behavior for signed-out users	georgebrock	6 minutes ago · 52s
#51	Update forms to have clear labels	tylerjohnst	5 minutes ago · 52s
#354	Prepare launch of new marketing website	wisemily88	2 minutes ago · 52s
#13	Add frontend tests	rupo	less than a minute ago · 52s
#182	Upgrade dependencies	tomatesoup	less than a minute ago · 52s
#262	Integrate backend systems to connect with merchant service	codeminator	3 minutes ago · 52s
#261	Upgrade sprite engine to 4.1	MikeMcQuaid	5 minutes ago · 52s
#263	Integrate customizable keyboard shortcuts	nickborromeo	3 minutes ago · 52s



GitHub Mobile

- Projects GA

A screenshot of the GitHub mobile application interface. At the top, there's a navigation bar with icons for back, forward, search, and settings. The title "Team Backlog" is displayed above a "Feature Board" button. The main content area shows a "Search" bar and a message stating "Board layout is currently not supported". Below this, there are three sections: "Todo" (containing one item), "In Progress" (containing two items), and "Done" (containing one item). Each section has a summary card with details like assignees, status, level, labels, and effort. At the bottom of the screen, there's a navigation bar with icons for Home, Notifications, Explore, and Profile.



Administration

- Migrate Bitbucket Server repos to GitHub.com ([private beta](#))
- GitHub Actions Importer General Availability
- 2FA: set up both SMS and an authenticator app (TOTP) for two-factor authentication on your GitHub.com account
- Manage branch protection rules with a new permission
- Enterprises and organizations can display critical announcements

Two-factor authentication

Enabled

Two-factor authentication adds an additional layer of security to your account by requiring more than just a password to sign in. [Learn more about two-factor authentication.](#)

Two-factor methods

	Authenticator app	Enabled	Preferred	...
	SMS/Text message	Enabled		...
	Security keys	Enabled	1 key	...
	GitHub Mobile	Enabled	2 devices	...



GHES 3.8 GA

- **GitHub Projects, the adaptable and flexible tool for planning and tracking work on GitHub** is now available on Enterprise Server as a public beta.
- **GitHub Actions support organization-wide required workflows.** You can define mandated workflows to run during the lifecycle of a repository's pipeline.
- **Code scanning now supports Kotlin.** We are launching a public beta for support of Kotlin, with this support enabled for all new code scanning users and any existing users that have already configured a Java analysis.
- **The Management Console now supports multiple users.** We are introducing a multi-user concept with a user management interface to the Management Console to allow admins to invite new users with different types of access roles.



Profile

- Pronouns
- Add more social links to your user profile



Name

Michael Kaufmann

Display **PRO** badge.

Bio

CEO @Xpirit-Germany. Microsoft Regional Director and MVP. Loves C#, Git, GitHub, and DevOps. Author and

You can @mention other users and organizations to link to them.

Pronouns

Don't specify

they/them

she/her

he/him

Custom

Display current local time

 <https://writeabout.net>

Social accounts

 https://twitter.com/mike_kaufmann

 Link to social profile

 Link to social profile

 Link to social profile

Save

Cancel

 Overview  Repositories 106  Projects  Packages  Stars 60  Sponsoring

wulfland / README.md

Hi there 

My name is Michael Kaufmann - but most people call me Mike.

-  I'm the CEO of [Xpirit Germany](#)
-  I'm the author of the book [Accelerate DevOps with GitHub](#)
-  I'm the author of the book [Git for Dummies \(in German\)](#)
-  I'm writing a new book about Engineering Velocity and GitHub (in English)
-  I'm the organizer of [GitHub Meetup](#)
-  I'm one of the co-organizers of [Azure Stuttgart](#)
-  I'm a Microsoft MVP for DevOps since 2015
-  I'm a Regional Director
-  I speak about DevOps, Git, Corporate Culture, Agile and Digital Transformation at international events
-  See my blog at writeabout.net for more details.

 Follow @mike_kaufmann

Pinned

 AccelerateDevOps  Public

This is the companion repository for my book Accelerate DevOps with GitHub (2022). You can find all hands-on labs and other examples from the book here. Please reach out to me if something is broken.

 JavaScript  26  39

 ScriptRepository  Public

A repo for storing scripts I might want to reuse...

 PowerShell  12  14

 ActionsFundamentals  Public template

 2  4



Customize your pins

 CodingDojo  Public

Deutsches Coding Dojo mit Lösungen.

 Dockerfile  30  30

 GitHubBootcamp  Public template

This is the repository for the GitHub Bootcamp Workshop.

 3  14

 DeepDive  Public

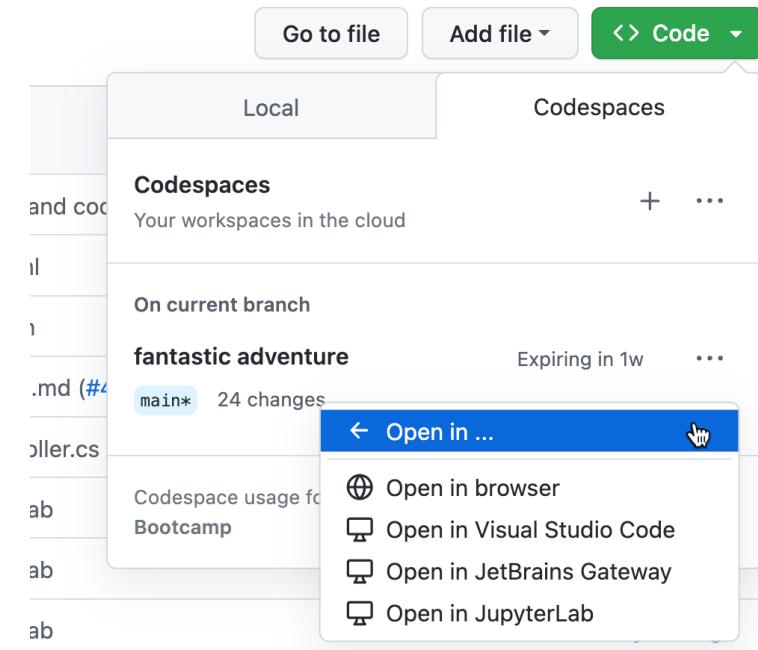
A hands-on deep dive into working with git from the command line.

 HTML  8  3



Codespaces

- Support for JetBrains Rider (beta)





Copilot

- GitHub Copilot for Business is now widely available
- Copilot CLI <https://githubnext.com/projects/copilot-cli/>
- Copilot VIM <https://github.com/github/copilot.vim>
- Copilot X: <https://github.blog/2023-03-22-github-copilot-x-the-ai-powered-developer-experience/>
 - GPT-4
 - Copilot for PR
 - Copilot for Docs