

GitHub

MEETUP



STUTTGART

Community Call

May 5th, 2022





General notes?

- Call for content & Request topics
(I'll search for speakers or prepare something)
<https://github.com/GitHubStuttgart/MeetupContent/issues/1>
- Call for sponsors (locations, pizza)
<https://github.com/GitHubStuttgart/MeetupContent/issues/2>



Whats gone?

- ...



General



Whats new in GitHub? (<https://github.blog/changelog>)

- GitHub General
 - [GitHub Enterprise Server 3.5 Release Candidate](#) is available
 - GitHub Sponsors available for developers in India
 - Enterprise Administrators can revoke pending member invitations
 - GitHub Mobile can now verify sign-ins on unrecognized devices
 - Creation dates for release assets
 - Allow GitHub Apps as exceptions to branch protection rules
 - Enhanced [2FA experience for npm](#) accounts: public beta



Whats new in GitHub? (<https://github.blog/changelog>)

- Member Summary Now on Enterprise People Page
- ISO/IEC 27001:2013 Certification Now Available

Members

Roles	(?)
Organization members	2
Organization owners	4
Outside collaborators	2
Enterprise owners	2
Billing managers	0

User licenses	(?)
Total licenses used	8/10
Enterprise license	8/10

Deployment	(?)
Cloud members	6
Server members	0
Members on cloud and 0 server	

GitHub.com ISO/IEC 27001:2013 certification

This certificate is evidence of the GitHub Information Security Management System conformance with the ISO/IEC 27001:2013 standard as a result of an audit performed by an ANAB-accredited certification body.

2022-05-06 to 2025-05-05

 Download



Whats new in GitHub? (<https://github.blog/changelog>)

- New help and getting started experience in GitHub app for Microsoft Teams and Slack

The screenshot shows the GitHub app interface within a Microsoft Teams channel. At the top, there's a green header bar with the GitHub logo and the time '1:43 pm'. Below it, a message from GitHub says 'Hi there! Here are some ideas of what you can do:'. The main content area is divided into sections:

- Subscribe to receive real time notifications for your organization or repository**
 - Subscribe: `@github subscribe owner/repo`
 - Unsubscribe: `@github unsubscribe owner/repo`
 - Show subscriptions: `@github subscribe list`
- Configure scheduled reminders for pending pull requests in your organization**
 - Schedule reminder: `@github schedule owner`
 - Remove reminder: `@github unschedule owner`
 - Show reminders: `@github schedule list`
- More**
 - [Documentation](#)

The screenshot shows the GitHub app interface within a Slack channel. At the top, there's a purple header bar with the GitHub logo and the time '1:45 PM'. Below it, a message from GitHub says 'Hi there! Here are some ideas of what you can do:'. The main content area is divided into sections:

- Only visible to you**
 - Subscribe to repositories**
 - Subscribe: `/github subscribe owner/repo`
 - Unsubscribe: `/github unsubscribe owner/repo`
 - Show subscriptions: `/github subscribe list`
 - Advanced subscription commands**
- Create and edit issues**
 - Create a new issue: `/github open owner/repo`
 - Close an issue: `/github close [issue link]`
 - Reopen an issue: `/github reopen [issue link]`
- Scheduled reminders**
 - Get notified about all your pull requests.
 - [Configure scheduled reminders](#)
- More**
 - [Documentation](#)
 - [Contact support](#)



Whats new in GitHub? (<https://github.blog/changelog>)

- Command Palette multi-step enhancement ([link](#))
 - Command Palette supports commands with multiple options
 - Switch theme for example

```
74
75  export const description = < ICommandHandlerDescription>{
76    description: 'Scroll editor in the given direction',
77    args: [
78      {
79        name: 'Editor scroll argument object',
80        description: 'Property-value pairs that can be passed through this argument:
81          * `to`: A mandatory direction value.
82            `````
83            `up`, `down`
84            `````
85          * `by`: Unit to move. Default is computed based on `to` value.
86            `````
87            `line`, `wrappedLine`, `page`, `halfPage`
88            `````
89          * `value`: Number of units to move. Default is `1`.
90          * `revealCursor`: If `true` reveals the cursor if it is outside view port.
91      `,
92      constraint: isEditorScrollArgs,
93      schema: {
94        'type': 'object',
95        'required': ['to'],
96        'properties': {
97          'to': {
98            'type': 'string',
99            'enum': ['up', 'down']
100         },
101         'by': {
102           'type': 'string',
103           'enum': ['line', 'wrappedLine', 'page', 'halfPage']
104         },
105         'value': {
106           'type': 'number',
107           'default': 1
108         }
109       }
110     }
111   }
112 }
```



Whats new in GitHub? (<https://github.blog/changelog>)

- Compare differences between branches (ahead, behind)

Branch: test-depd-revi... ▾ 64 branches 12 tags Go to file Add file ▾ Code ▾

This branch is 1 commit ahead, 2 commits behind main. #398



Whats new in GitHub? (<https://github.blog/changelog>)

- Default to PR titles for squash merge commit messages

Pull Requests

When merging pull requests, you can allow any combination of merge commits, squashing, or rebasing. At least one option must be enabled. If you have linear history requirement enabled on any protected branch, you must enable squashing or rebasing.

- Allow merge commits**
Add all commits from the head branch to the base branch with a merge commit.
- Allow squash merging**
Combine all commits from the head branch into a single commit in the base branch.
- Default to PR title for squash merge commits** ✓
This will pre-populate the commit message with the PR title when performing a squash merge.
- Allow rebase merging**
Add all commits from the head branch onto the base branch individually.

Add more commits by pushing to the **test-squashing** branch on **wulfland/wulfland**.

 PR Title (#1)

* Update Readme - commit 1 title
Commit 1 body

* Commit 2 title
commit 2 body

Confirm squash and merge **Cancel**



Whats new in GitHub? (<https://github.blog/changelog>)

- Block creation of branches that have matching names

Branch protection rule

Branch name pattern *

Restrict who can push to matching branches
Specify people, teams or apps allowed to push to matching branches. Required status checks will still prevent these people, teams and apps from merging if the checks fail.

Restrict pushes that create matching branches
Only people, teams, or apps allowed to push will be able to create new branches matching this rule.

People, teams or apps with push access

 Organization administrators, repository administrators, and users with the Maintain role.
Admins can always push. Users with the Maintain role can push when required status checks pass.



Whats new in GitHub?

- **Codespaces:**
Default Image Improvements

- 'Zero-configuration' getting started experience for machine learning users:
 - jupyter notebook or jupyter lab
 - Common machine learning specific Python libraries pre-installed
 - include any additional project-dependent Python packages in the requirements.txt file
- The last two LTS versions will be available going forward

▼ Tools added:

- Node 14
- Node 16
- Python 3.9
- Python 3.10
- Conda 4.12
- Java 11
- Maven 3.8
- Ruby 3.0
- Ruby 3.1
- PHP 8.0
- PHP 8.1
- PHP Composer 2.3
- Hugo 0.96

▼ Tools removed:

- Node 12
- Python 3.8
- Conda 4.8
- .NET 5.0
- Ruby 2.7
- PHP 7.2
- PHP 7.3
- PHP Composer 2.0
- Hugo 0.90
- Maven 3.6
- PowerShell
- Az CLI
- Rust



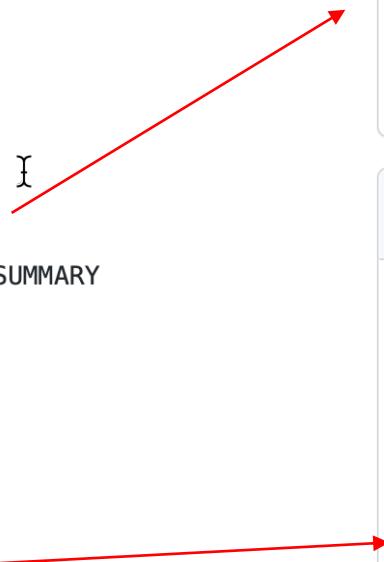
GitHub Actions



What's new in GitHub? (<https://github.blog/changelog>)

- GitHub Actions
 - Job Summaries

```
job1:  
  runs-on: ubuntu-latest  
  
steps:  
  - run: echo '## Hello world! :rocket:' >> $GITHUB_STEP_SUMMARY  
  - run: echo '## Love this feature! :medal_sports:' >> $GITHUB_STEP_SUMMARY  
  
  - name: Write Summary from Action  
    uses: actions/github-script@v6.1.0  
    with:  
      script: |  
        await core.summary  
        .addHeading('Test Results')  
        .addTable([  
          {data: 'File', header: true}, {data: 'Result', header: true},  
          ['foo.js', 'Pass ✅'],  
          ['bar.js', 'Fail ❌'],  
          ['test.js', 'Pass ✅']  
        ])  
        .addLink('View staging deployment!', 'https://github.com')  
        .write()
```



job1 summary

Hello world! 🚀

Love this feature! 🏆

Job summary generated at run-time

job2 summary

Test Results

File	Result
foo.js	Pass ✅
bar.js	Fail ❌
test.js	Pass ✅

[View staging deployment!](#)

Job summary generated at run-time



Whats new in GitHub? (<https://github.blog/changelog>)

- **GitHub Actions**

- Beta of Ubuntu 22.04 for GitHub-hosted runners is now available

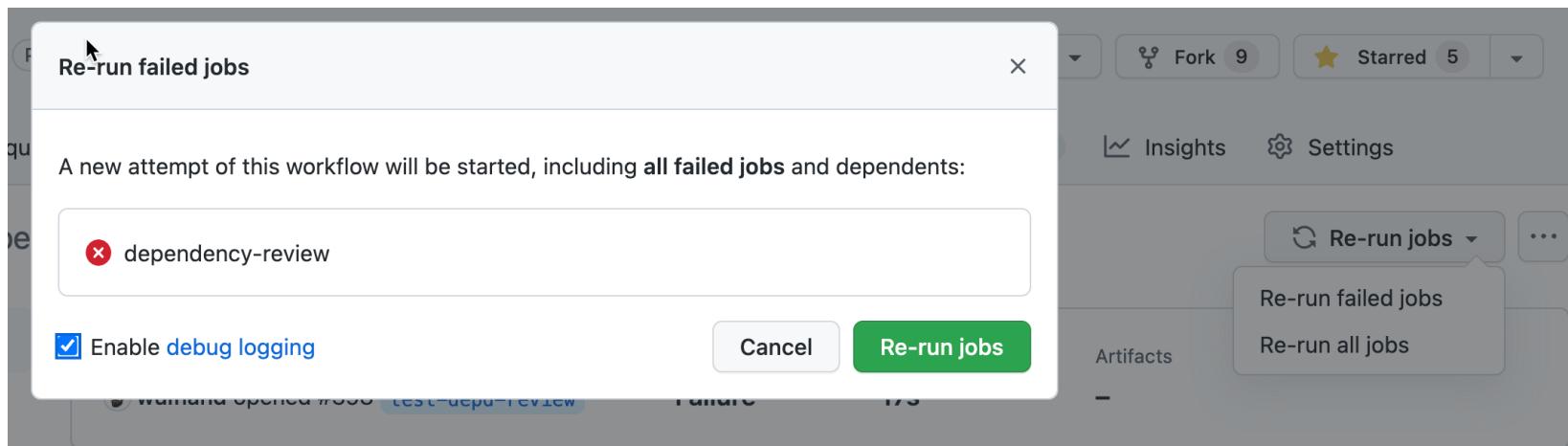
Environment	YAML Label
Ubuntu 22.04	ubuntu-22.04
Ubuntu 20.04	ubuntu-latest or ubuntu-20.04
Ubuntu 18.04	ubuntu-18.04
macOS 12	macos-12
macOS 11	macos-latest or macos-11
macOS 10.15	macos-10.15
Windows Server 2022	windows-latest or windows-2022
Windows Server 2019	windows-2019
Windows Server 2016	windows-2016



Whats new in GitHub? (<https://github.blog/changelog>)

- GitHub Actions

- Actions can now run in a Node.js 16 runtime (runs.using node16) (GHEC and GHES >3.4, new major version for GHES 3.3 users)
- Re-run jobs with debug logging





Security



Whats new in GitHub? (<https://github.blog/changelog>)

- **Secret Scanning:**
 - Alert events now in the audit log ([link](#))
 - DigitalOcean is now a GitHub secret scanning partner
 - Secret scanning: [Dry runs for enterprise-level custom patterns](#)
- **Dependabot:**
 - Show all affected files for vulnerable function calls (Python Beta)
 - Dependabot keeps `@types` dependencies in sync with updated packages (TypeScript)



Whats new in GitHub? (<https://github.blog/changelog>)

- **Dependabot:**
 - View Dependabot alerts across the enterprise ([link](#))

The screenshot shows the GitHub interface for the organization "Avocado Corp". The left sidebar includes links for Overview, Secret scanning alerts, Dependabot alerts, Settings, and Compliance. The main content area is titled "Dependabot alerts" and displays a list of vulnerabilities. The first alert is a "Moderate severity vulnerability that affects activesupport" (Moderate), detected in activesupport (RubyGems) · Gemfile.lock. The second alert is a "Denial of Service in Action Controller Token Authentication" (High), detected in actionpack (RubyGems) · Gemfile.lock. The third alert is a "High severity vulnerability that affects actionpack" (High), detected in actionpack (RubyGems) · Gemfile.lock. The fourth alert is a "actionpack is vulnerable to denial of service because of a wildcard controller route" (High), detected in actionpack (RubyGems) · Gemfile.lock. The fifth alert is a "actionpack is vulnerable to denial of service via a crafted HTTP Accept header" (High), detected in actionpack (RubyGems) · Gemfile.lock. The sixth alert is a "actionpack is vulnerable to remote bypass authentication" (Low), detected in actionpack (RubyGems) · Gemfile.lock. The seventh alert is a "Moderate severity vulnerability that affects activerecord" (Moderate), detected in activerecord (RubyGems) · Gemfile.lock.

Vulnerability Type	Severity	Detected In
Moderate severity vulnerability that affects activesupport	Moderate	activesupport (RubyGems) · Gemfile.lock
Denial of Service in Action Controller Token Authentication	High	actionpack (RubyGems) · Gemfile.lock
High severity vulnerability that affects actionpack	High	actionpack (RubyGems) · Gemfile.lock
actionpack is vulnerable to denial of service because of a wildcard controller route	High	actionpack (RubyGems) · Gemfile.lock
actionpack is vulnerable to denial of service via a crafted HTTP Accept header	High	actionpack (RubyGems) · Gemfile.lock
actionpack is vulnerable to remote bypass authentication	Low	actionpack (RubyGems) · Gemfile.lock
Moderate severity vulnerability that affects activerecord	Moderate	activerecord (RubyGems) · Gemfile.lock



GitHub Mobile



Whats new in GitHub? (<https://github.blog/changelog>)

- Mobile:
 - Expand code lines while you are reviewing a pull request on GitHub Mobile

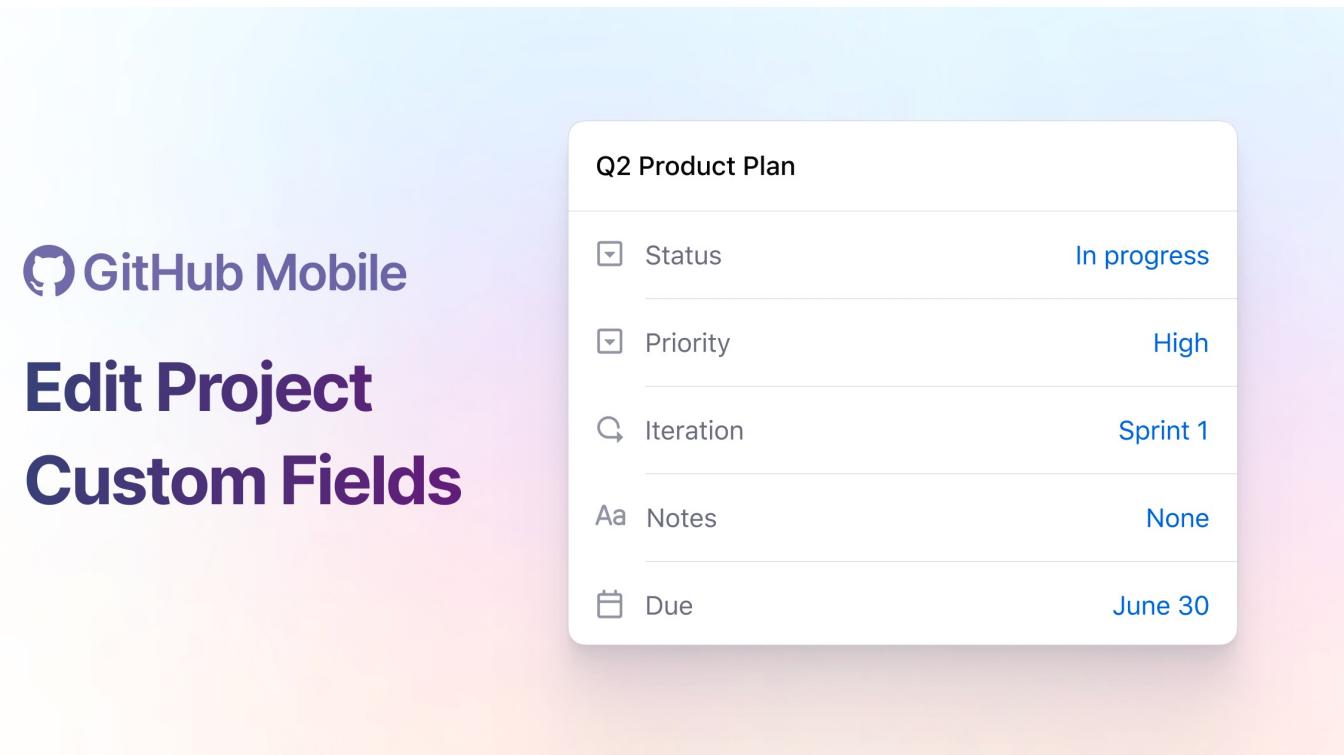
The image shows a screenshot of the GitHub Mobile app interface. On the left, there's a GitHub logo and the text "GitHub Mobile". To the right, the main screen displays a pull request with code diff. A callout bubble points from the text "Expand Code in Files Changed" to a specific line of code in the diff. The code shown is:

```
59     function getViewsEntry(opts) {
60       return opts.pagePath
60       return opts.path
61     }
63   }
64   export function getServerlessEntry(opts: {
...function getEdgeServerEntry(opts: {
109     onServer: () => {
110       if (isTargetLikeServerless(target)) {
110       if (isViews) {
111         const pathWithoutSlash = parts.slice(0
112         const resolvedLayoutPath = await resol
113         let urlPath = pathToUrlPath(pathWithout
>Show next lines
```



Whats new in GitHub? (<https://github.blog/changelog>)

- Mobile:
 - View and edit [projects\(beta\) custom fields](#) on GitHub Mobile





Markdown and Issues



Whats new in GitHub? (<https://github.blog/changelog>)

- Updates to Markdown pasting on GitHub
 - Paste URL (cmd|ctrl+v)
 - Spreadsheet cells and HTML tables will render as Markdown tables
 - Any copied text containing links will render the links in Markdown
 - All of this formatting can be disabled when pasting using the keyboard shortcut: cmd|ctrl + shift + v or cmd|ctrl + shift + Alt + v.



Whats new in GitHub? (<https://github.blog/changelog>)

- Render mathematical expressions in Markdown

- LaTeX style:

$$\left(\sum_{k=1}^n a_k b_k \right)^2 \leq \left(\sum_{k=1}^n a_k^2 \right) \left(\sum_{k=1}^n b_k^2 \right)$$

The screenshot shows a GitHub-style Markdown editor interface. On the left is a circular profile picture of a man with a beard. To the right are two buttons: "Write" (highlighted in blue) and "Preview". Below these buttons is a text area containing the following content:

Render mathematical expressions in Markdown using LaTeX syntax:

The Cauchy-Schwarz Inequality

$$\left(\sum_{k=1}^n a_k b_k \right)^2 \leq \left(\sum_{k=1}^n a_k^2 \right) \left(\sum_{k=1}^n b_k^2 \right)$$

Render it inline:

This sentence uses \$ delimiters to show math inline: $\sqrt{3x-1} + (1+x)^2$



Whats new in GitHub? (<https://github.blog/changelog>)

- Specify theme context for images in Markdown
(Beta - not working yet?)
- Option to prevent animated images from playing automatically
(Accessibility settings)

Motion

Autoplay animated images

Select whether animated images should play automatically.

Sync with system

Adopts your system preference for reduced motion

Enabled

Automatically plays animated images

Disabled

Prevents animated images from playing automatically

Save



Whats new in GitHub? (<https://github.blog/changelog>)

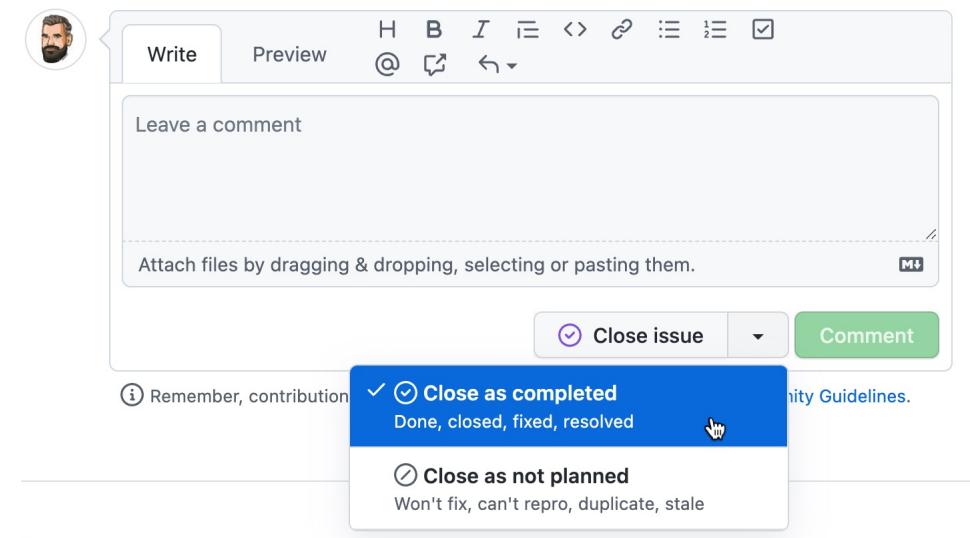
- GitHub Issues ([May 5th update](#))
 - Direct editing and comments with side-panel (preview feature)
 - Improvements to adding items under filtered views (meta data will match the filter)
 - More Emojis!

The screenshot shows the GitHub Issues interface for a project. On the left, there's a sidebar with sections like Team, Backlog, and a list of items categorized by level (Epic, Feature, Story). The main area displays an issue titled "Another epic initiative #50" which was opened by "wulfland" 3 months ago. The issue details show it has been edited by "wulfland" 3 months ago. Below the title, there's a preview panel with a rich text editor toolbar and a comment input field. To the right, there's a detailed view of the issue's metadata, including assignees ("wulfland"), labels ("Epic"), status ("Done"), level ("Epic"), effort ("Enter a number..."), sprint ("Choose an iteration..."), and text ("kakaka"). There are also buttons for "Show all fields", "Open in new tab", "Copy link", "Archive", and "Delete from project".



What's new in GitHub? (<https://github.blog/changelog>)

- GitHub Issues ([May 19th update](#))
 - Issue closed reason (reason:complete or reason:"not planned")
 - Delete projects you no longer need
 - Side-panel enabled for all users
 - Copy link (in draft issue)
 - Shortcuts to select issue



Danger zone

The screenshot shows a 'Danger zone' dialog box with three sections: 'Visibility' (set to Private), 'Close project' (with a 'Close this project' button), and 'Delete project' (with a 'Delete this project' button). The 'Delete project' section includes a note about不可逆性 (no going back).

Visibility
The project is currently set to Private.
Close project
Closing a project will remove it from the list of open projects.
Delete project
Once you delete a project, there is no going back. Please be certain.