

Intro to Git and Github

Hyper Island - FED27

GitHub

Git vs Github

- Git is the underlying mechanic of committing changes etc.
- GitHub is a web service which can act as a remote for your repositories
- GitHub also adds additional functionalities and work flows for a complete development management solution
- GitHub is owned by Microsoft (and since recently moved to their AI department...)

GitHub

Repositories

- In GitHub you can create your own repositories, or have access to other's repositories
- Repositories can be *Private* (hidden to anyone without access), or *Public* (visible to anyone)
- Repositories (and users) can be part of organizations, which in turn can have their own repositories



Anatomy of a repository - Code tab

Code tab – A repository's home page, allows you to browse the source code and read the README

The screenshot shows the GitHub repository interface for 'perenstrom/awards-night'. The top navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The repository name 'perenstrom / awards-night' is displayed, along with a search bar and various repository stats: 3 Branches, 18 Tags, 374 Commits, and 0 forks. The 'Code' tab is currently selected. On the right, there's an 'About' section with the repository description 'WIP. Awards night betting visualiser', a link to the website 'www.awardsnight.app', and metrics for stars (0), activity (1 watching), and forks (0). The main content area shows a list of recent commits:

Author	Commit Message	Date	Commits
perenstrom	Merge branch 'develop'	36ae5d9 · 5 months ago	374 Commits
app	Add admin action to close betting	6 months ago	
components	Fix enabling/disabling of nomination list depend...	6 months ago	
lib	Rework caching for betting actions	6 months ago	
prisma	Add awardsFinished to year schema	6 months ago	



Anatomy of a repository - Code tab

Watching repositories – Watched repositories gives you a notification if something happens in them

The screenshot shows the GitHub repository page for 'awards-night'. The 'Code' tab is selected. At the top, there is a search bar and several navigation links: Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below the header, the repository name 'awards-night' is shown as 'Public'. On the right side of the header, there are buttons for Unpin, Unwatch (which is highlighted with a red box), Fork, and Star. The main content area displays the repository's structure with 'master' branch selected, 3 branches, and 18 tags. A list of recent commits is shown, all made by 'perenstrom'. To the right of the commits, there is an 'About' section with the description 'WIP. Awards night betting visualiser', a link to 'www.awardsnight.app', and metrics for Readme, Activity, stars, watching, forks, and issues. The 'Watching' metric shows 1 user.

Commit	Message	Date	Author
36ae5d9 · 5 months ago	Merge branch 'develop'	perenstrom	
Add admin action to close betting	6 months ago	perenstrom	
Fix enabling/disabling of nomination list depend...	6 months ago	perenstrom	
Rework caching for betting actions	6 months ago	perenstrom	
Add awardsFinished to year schema	6 months ago	perenstrom	

WIP. Awards night betting visualiser

www.awardsnight.app

Readme
Activity
0 stars
1 watching
0 forks

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Anatomy of a repository - Code tab

Starring repositories – A bit like *liking*. Can be a good indicator of how good a tool is

The screenshot shows a GitHub repository page for 'perenstrom / awards-night'. The 'Code' tab is selected. At the top right, there is a 'Star' button with '0' stars, which is highlighted with a red box. Below the header, there's a search bar and several navigation links: Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The repository card shows it's public and has 3 branches and 18 tags. The commit list includes:

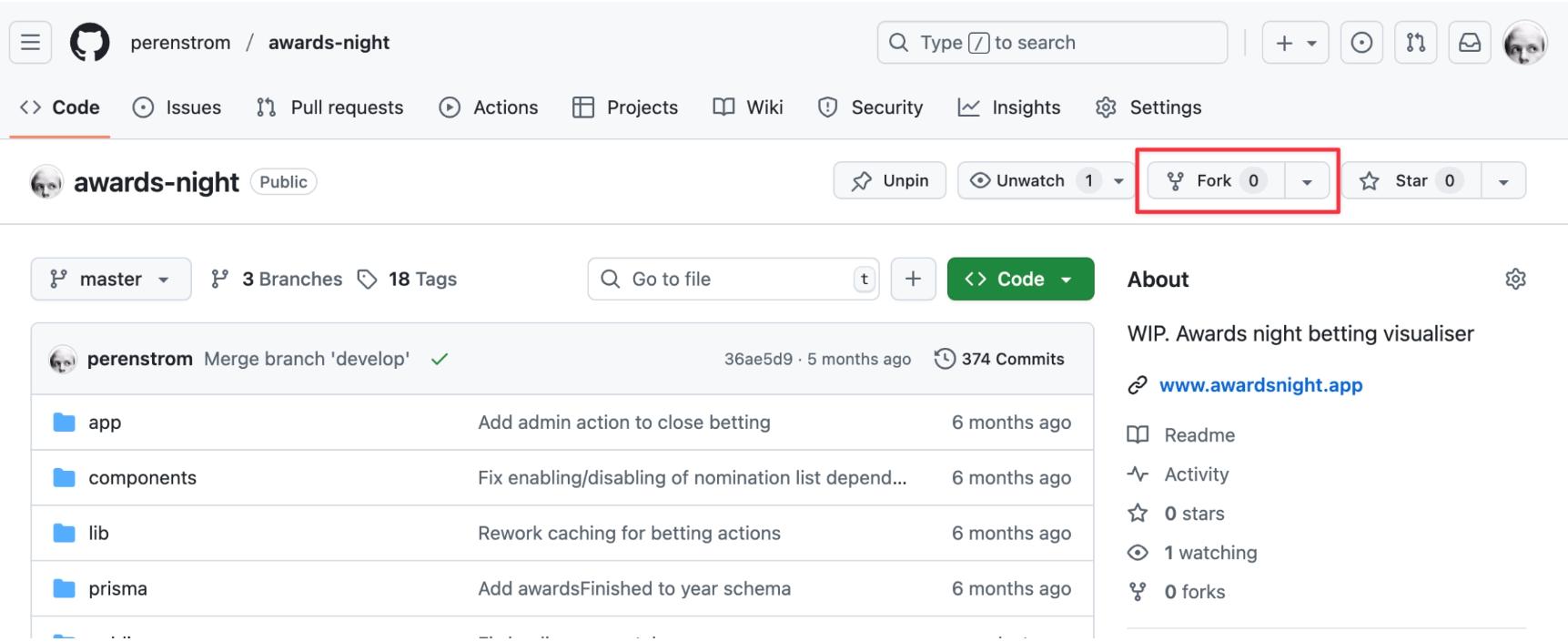
- perenstrom Merge branch 'develop' · 36ae5d9 · 5 months ago · 374 Commits
- app Add admin action to close betting · 6 months ago
- components Fix enabling/disabling of nomination list depend... · 6 months ago
- lib Rework caching for betting actions · 6 months ago
- prisma Add awardsFinished to year schema · 6 months ago

On the right side, there's an 'About' section with the repository description 'WIP. Awards night betting visualiser', a link to 'www.awardsnight.app', and stats: 0 stars, 1 watching, and 0 forks.

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Anatomy of a repository - Code tab

Forking repositories – If you want to create your own version from another repository, you fork that repository



The screenshot shows the GitHub interface for the repository `perenstrom / awards-night`. The `Code` tab is active. In the top right, there is a search bar, a plus icon, and several other icons. Below the search bar, the repository name `awards-night` is shown as public. The `Fork` button is highlighted with a red box; it has a count of 0 and a dropdown arrow. To the right of the fork button are `Star` and `Watch` buttons, both with a count of 0 and dropdown arrows. On the left, there are dropdown menus for `master`, `3 Branches`, and `18 Tags`. A search bar for files is present, along with a green `<> Code` button. The main area displays a list of recent commits:

Author	Commit Message	Date	Commits
perenstrom	Merge branch 'develop'	36ae5d9 · 5 months ago	374 Commits
app	Add admin action to close betting	6 months ago	
components	Fix enabling/disabling of nomination list depend...	6 months ago	
lib	Rework caching for betting actions	6 months ago	
prisma	Add awardsFinished to year schema	6 months ago	

On the right side, there is an `About` section with the following details:

- WIP. Awards night betting visualiser
- www.awardsnight.app
- Readme
- Activity
- 0 stars
- 1 watching
- 0 forks

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Anatomy of a repository - Code tab

Cloning – If you press the Code button, you will get info on how to clone (create a local copy) the repository

The screenshot shows the GitHub repository page for the user 'perenstrom' with the repository name 'awards-night'. The 'Code' tab is selected, and its dropdown menu is open, highlighted with a red box. The menu contains options for cloning the repository via Local (Clone, HTTPS, SSH, GitHub CLI), opening it with GitHub Desktop, or downloading it as a ZIP file. The repository details on the right include the description 'WIP. Awards night betting visualiser', the URL 'www.awardsnight.app', and metrics like 0 stars, 1 watching, and 0 forks. Deployment history shows two entries: 'Preview' and 'Production', both from 5 months ago.

master ▾ 3 Branches 18 Tags

Go to file t + <> Code ▾

perenstrom Merge branch 'develop' ✓

app Add admin

components Fix enable

lib Rework

prisma Add awa

public Fix landi

services Add adm

types Add awardsFinished to year-map 6 months ago

utils Remove old files and dependencies last year

any example Update to react 16 and auth 0.4 0 months ago

Local Codespaces

Clone

HTTPS SSH GitHub CLI

<https://github.com/perenstrom/awards-night>

Clone using the web URL.

Open with GitHub Desktop

Download ZIP

About

WIP. Awards night betting visualiser

www.awardsnight.app

Readme

Activity

0 stars

1 watching

0 forks

Deployments 252

Preview 5 months ago

Production 5 months ago

+ 250 deployments



Anatomy of a repository – Issues tab

Issues – Can be used for project management, or bug reporting for your users

The screenshot shows the GitHub Issues tab for the repository `perenstrom / awards-night`. The top navigation bar includes links for Code, Issues (1), Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. A search bar with placeholder text "Type / to search" is positioned above the issues list. Below the search bar are buttons for Labels, Milestones, and a prominent green "New issue" button. The main area displays a list of open issues, with filters for Open (1) and Closed (16) issues. One issue is highlighted: #18, titled "Example Issue", which was opened by `perenstrom` and is described as having been opened "now".



Anatomy of a repository – Projects tab

Projects – Used to organize issues, track goals, etc.

The screenshot shows the GitHub interface for the repository `perenstrom / awards-night`. The top navigation bar includes links for Code, Issues (1), Pull requests, Actions, Projects (1, highlighted with a red underline), Wiki, Security, Insights, and Settings. A search bar at the top right contains the placeholder "Type / to search". Below the navigation, there's a search bar with the query "is:closed" and a "Link a project" button. A green "New project" button is also visible. The main content area displays a summary with "1 Open" and "1 Closed" issues. A "Kanban board" section is shown, labeled as "Private" and updated on Feb 19. A "Sort" dropdown menu is located in the top right corner of this section. The bottom of the page features a footer with the GitHub logo and links to Terms, Privacy, Security, Status, Docs, Contact, Manage cookies, and a "Do not share my personal information" option.

perenstrom / awards-night

Type / to search

Code Issues 1 Pull requests Actions Projects 1 Wiki Security Insights Settings

is:closed

Link a project

New project

1 Open 1 Closed Sort

Kanban board Private #1 updated on Feb 19



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Anatomy of a repository – Projects tab

Projects – Used to organize issues, track goals, etc.

The screenshot shows the GitHub Projects Kanban board for the repository 'perenstrom / Projects / Kanban board'. The board has four columns: 'To do', 'In progress', 'Waiting for release', and 'Done'. The 'To do' column contains one issue titled 'awards-night #18 Example Issue'. The 'Done' column has two items: 'awards' and 'admin in' (highlighted in green), and another item partially visible 'presenta'. A search bar at the top right allows users to search for issues. Below the search bar are buttons for adding a status update and navigating between views. A filter bar at the bottom left allows users to filter by keyword or field. The GitHub logo and user profile picture are visible in the top right corner.

perenstrom / Projects / Kanban board

Type to search

+

Closed Kanban board

Add status update

View 1 + New view

Filter by keyword or by field

Discard Save

To do 1

In progress 0

Waiting for release 0

Done

awards-night #18 Example Issue

awards

Add nomi

admin in

presenta

awards

Filter Use

presenta



Anatomy of a repository – Pull requests tab

Pull Requests – When you have made changes and want to merge them into a project on GitHub, you open a Pull Request (PR). Named because you want the repository to *Pull* your changes into their code base, another name could be "Merge request".

Vital for collaboration with others. Every time a change you've made are to be added to the product, you open a PR, your colleagues review and approve it, and then you merge it.

The screenshot shows the GitHub interface for the repository `perenstrom / awards-night`. The top navigation bar includes links for Code, Issues (1), Pull requests (selected), Actions, Projects (1), Wiki, Security, Insights, and Settings. Below the navigation is a search bar with the placeholder "Type / to search" and various filter buttons: Filters, Labels (12), Milestones (1), and a green "New pull request" button. A link to "Clear current search query, filters, and sorts" is also present. At the bottom, there are filters for Open (0) and Closed (1) pull requests, along with dropdown menus for Author, Label, Projects, Milestones, Reviews, Assignee, and Sort. A single pull request is listed: #17 by `App router`, which was merged on Feb 22, 2024. A comment icon indicates one comment on this pull request.

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Anatomy of a repository – Pull requests tab

To open a new PR, press the New pull request button.

The screenshot shows the GitHub interface for a repository named 'perenstrom-fed27'. The 'Pull requests' tab is selected, indicated by a red underline. A modal window titled 'Label issues and pull requests for new contributors' is displayed, explaining that GitHub will help potential first-time contributors discover issues labeled with 'good first issue'. A 'Dismiss' button is in the top right corner of the modal. Below the modal, there are filters for 'Filters' (set to 'is:pr is:open'), a search bar, and buttons for 'Labels' (9) and 'Milestones' (0). A prominent green button labeled 'New pull request' is highlighted with a red box. At the bottom of the page, there is a summary of pull requests: '1 Open' and '1 Closed', along with a link to an open pull request: '#2 Update README.md' opened 1 minute ago by perenstrom-fed27. The GitHub logo is in the bottom right corner.

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Anatomy of a repository – Pull requests tab

In the top you will select target branch, and source branch.

- Fill in a good descriptive title of your change (1)
- Write a description of your change (2)
- Assign yourself (usually) (3)
- Add reviewers if needed (4)
- Press Create pull request (5)

Open a pull request

The change you just made was written to a new branch named `perenstrom-fed27-patch-1`. Create a pull request below to propose these changes. [Learn more about diff comparisons here.](#)

base: main ⌂ compare: perenstrom-fed27-patch-1

Add a title
① Update README.md

Add a description
② I've changed a line in the Readme, have a look!

④ Reviewers
No reviews

③ Assignees
perenstrom-fed27

Labels
None yet

Projects
None yet

Milestone
No milestone

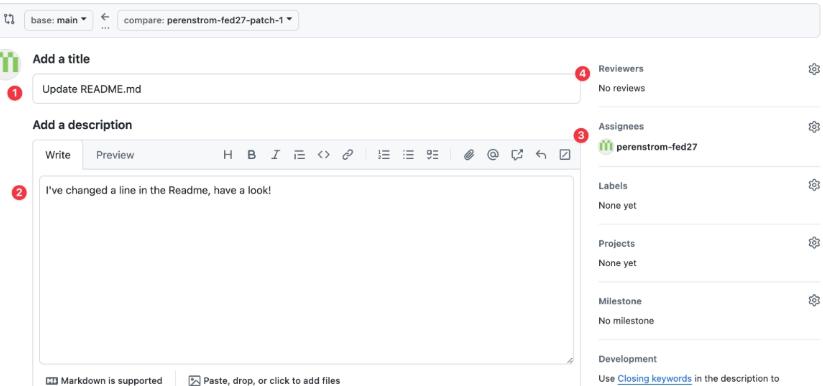
Development
Use [Closing keywords](#) in the description to automatically close issues

Markdown is supported Paste, drop, or click to add files

Create pull request

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

Helpful resources
[GitHub Community Guidelines](#)



GitHub

Anatomy of a repository – Pull requests tab

The PR page now display a timeline of changes, with your description at the start.

The screenshot shows a GitHub repository page for 'perenstrom-fed27 / perenstrom-fed27'. The 'Pull requests' tab is selected, showing a single open pull request titled 'Update README.md #2'. The pull request has 1 commit from 'perenstrom-fed27-patch-1' merged into the 'main' branch. A comment from 'perenstrom-fed27' is visible, stating 'I've changed a line in the Readme, have a look!'. The pull request is marked as 'Verified' and has a commit hash of '4bcb3d9'. The right sidebar displays sections for 'Reviewers', 'Assignees', and 'Labels', each with a gear icon for configuration.

perenstrom-fed27 / perenstrom-fed27

Type to search

Code Issues Pull requests 1 Actions Projects Wiki Security Insights Settings

Update README.md #2

Open perenstrom-fed27 wants to merge 1 commit into `main` from `perenstrom-fed27-patch-1`

Conversation 0 Commits 1 Checks 0 Files changed 1

perenstrom-fed27 commented now

I've changed a line in the Readme, have a look!

Owner **perenstrom-fed27** Verified 4bcb3d9

Reviewers
No reviews
Still in progress? [Convert to draft](#)

Assignees
perenstrom-fed27

Labels



Anatomy of a repository – Pull requests tab

The Commits tab shows all commits that has been made on the branch you want to merge.

The screenshot shows the GitHub interface for a repository named `perenstrom-fed27 / perenstrom-fed27`. The `Pull requests` tab is active, indicated by a red underline. The main title of the pull request is `Update README.md #2`. A green button labeled `Open` is visible. The description states: `perenstrom-fed27 wants to merge 1 commit into main from perenstrom-fed27-patch-1`. Below the description, there are sections for `Conversation 0`, `Commits 1`, `Checks 0`, and `Files changed 1`. A summary at the bottom right shows `+1 -1 3 0 0 0 0`. A detailed view of the single commit is shown below, titled `Update README.md`, authored by `perenstrom-fed27` 8 minutes ago, with a `Verified` status, a commit hash of `4bcb3d9`, and standard copy/paste/share icons.

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Anatomy of a repository – Pull requests tab

The Files changed tab shows all the files that has changed, and all changes in those files.

Here we see that I've changed line 3, the red part is the old one, and the green part is the new.

The screenshot shows the GitHub interface for a pull request. The top navigation bar includes tabs for Conversation (0), Commits (1), Checks (0), and Files changed (1). A summary at the top right indicates +1 -1 changes. Below the tabs are filters for Changes from all commits, File filter, Conversations, Jump to, and settings. A progress bar shows 0 / 1 files viewed. Action buttons include Review in codespace and Review changes.

The main area displays the file README.md with a diff view. The file contains the following content:

```
... ... @@ -1,3 +1,3 @@
1 1 ## Hi there 🎉
2 2
3 - Here's a description, I've added some text here.
3 + Here's a description, I've changed some text here.
```

The first two lines are standard text. The third line is highlighted with a pink background, indicating it was deleted. The fourth line is highlighted with a green background, indicating it was added.

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Anatomy of a repository – Pull requests tab

If you hover a line, a plus appears which you can click to add a comment. This comment can either be posted directly, or added to a Review.

The screenshot shows the GitHub Pull Requests tab for a repository. At the top, there are tabs for Conversation (0), Commits (1), Checks (0), and Files changed (1). The 'Files changed' tab is selected. On the right, there are status indicators: +1 (green), -1 (red), and several neutral icons. Below the tabs are filters: Changes from all commits, File filter, Conversations, Jump to, and a gear icon. To the right are buttons for 0 / 1 files viewed, Review in codespace, and Review changes (which is highlighted in green).

The main area displays a file named README.md with two commits. The first commit (line 1) has a yellow circle with a plus sign over it, indicating it can be commented on. A blue arrow points to this circle with the text "Hover here". The second commit (line 3) also has a yellow circle with a plus sign over it. The code shows:

```
... ... @@ -1,3 +1,3 @@
1 1 ## Hi there
2 2
3 - Here's a description, I've added some text here.
3 + Here's a description, I've changed some text here.
```

At the bottom, there is a comment input field with a blue border and rounded corners, containing the placeholder "Leave a comment". Below the input field are buttons for "Write" and "Preview", and a toolbar with various rich text editing icons. At the very bottom, there are links for "Markdown is supported" and "Paste, drop, or click to add files".

GitHub

Anatomy of a repository – Pull requests tab

To review someone else's changes (or your own I guess), press the Review changes (or Finish your review), add a comment, choose if you approve or want some changes to be made, and press Submit review.

The screenshot shows the GitHub Pull Requests tab for a repository. At the top, there are tabs for Conversation (0), Commits (1), Checks (0), Files changed (1), and a summary of +1 -1 changes. Below the tabs is a toolbar with filters: Changes from all commits, File filter, Conversations, Jump to, and a gear icon. To the right of the toolbar are buttons for 0 / 1 files viewed, Review in codespace, and a green button labeled "Finish your review 1". A red box highlights the "Finish your review" button.

The main area displays the README.md file with two changes:

- Line 1: @@ -1,3 +1,3 @@
- Line 2: ## Hi there 🌟
- Line 3: - Here's a description, I've added some text here.
- Line 3: + Here's a description, I've changed some text here.

A comment from user perenstrom is shown, with a Pending status and the message "This looks good! 👍". Below the comment is a reply input field.

A modal window titled "Finish your review" is open. It contains a rich text editor with a "Write" tab (highlighted by a red box) and a "Preview" tab. The preview area shows the text "Looks good!". Below the editor, it says "Markdown is supported" and "Paste, drop, or click to add files".

At the bottom of the modal, there are three options:

- Comment**: Submit general feedback without explicit approval.
- Approve**: Submit feedback approving these changes. (highlighted by a red box)
- Request changes**

GitHub

Anatomy of a repository – Pull requests tab

Our colleagues review can now be seen in the Conversation tab.

The screenshot shows the GitHub Conversation tab for a pull request. At the top, a message from user **perenstrom** indicates they approved the changes [1 minute ago](#). Below this, **perenstrom** left a comment saying "Looks good!" with a smiling emoji. The code diff for **README.md** shows two additions: "## Hi there 🤝" and "- Here's a description, I've added some text here." followed by "+ Here's a description, I've changed some text here.". A second message from **perenstrom** says "This looks good! 🤘" with a smiling emoji. At the bottom, there are "Reply..." and "Resolve conversation" buttons.

perenstrom approved these changes [1 minute ago](#)

View reviewed changes

perenstrom left a comment

Contributor ...

Looks good!

README.md

```
... ... @@ -1,3 +1,3 @@
1 1 ## Hi there 🤝
2 2
3 - Here's a description, I've added some text here.
   + Here's a description, I've changed some text here.
```

perenstrom [1 minute ago](#)

This looks good! 🤘

Contributor ...

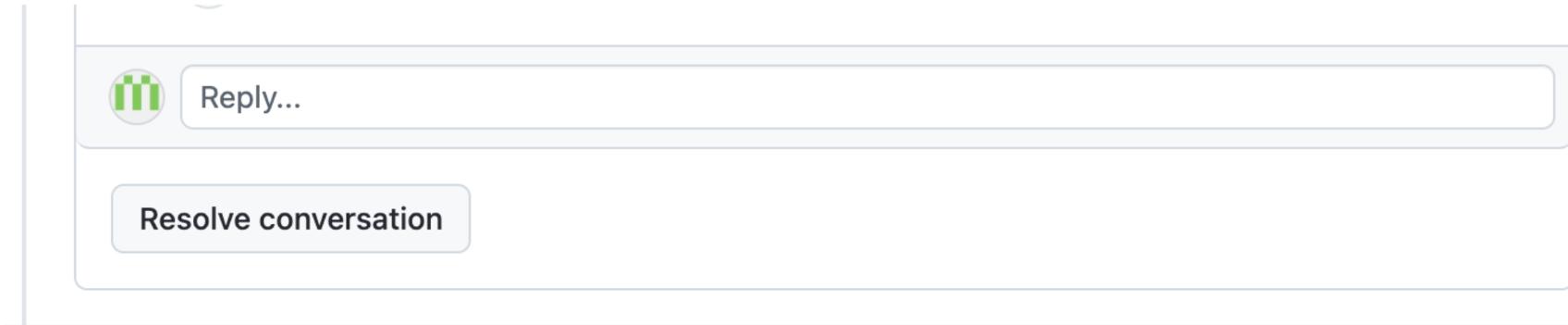
Reply...

Resolve conversation

GitHub

Anatomy of a repository – Pull requests tab

If you want, you can reply to comments, and/or mark a conversation as "resolved"





Anatomy of a repository – Pull requests tab

When everyone is happy, press the Merge pull request to merge your changes into the target branch!

 **Changes reviewed**
No applicable reviews submitted by reviewers with write access.

 1 approval >

 **No conflicts with base branch**
Merging can be performed automatically.

Merge pull request ▾ You can also merge this with the command line. [View command line instructions.](#)

GitHub

Anatomy of a repository – Pull requests tab

The merge event can now be seen in the history, and there's a Delete branch button to remove your branch (if it was temporary). This deletion can always be reverted!

A screenshot of a GitHub pull request history page. At the top, a purple circular icon with a hand icon represents a merge event. Next to it is a green circular icon with a grid icon representing a user. The text reads: "perenstrom-fed27 merged commit 394d877 into main now". To the right is a "Revert" button. Below this is a horizontal grey line. Underneath the line, there is a purple rectangular box containing a white icon of a branch merging into another branch. To its right, the text "Pull request successfully merged and closed" is displayed in bold. Below this, a message says: "You're all set — the perenstrom-fed27-patch-1 branch can be safely deleted." To the right of this message is a "Delete branch" button.