GitHub Pull Requests : : **CHEAT SHEET**

About

GitHub Pull Request Discussion offers another layer of communication for the analysis of social patterns in software development. This cheatsheet showcases how to obtain the PR specification, conversation and in-line code review.

Project Config Setup

Project configuration files are used to store variables that contain information about a project.

Required Fields

- github:
  - project_key_1
    - issue_or_pr_comment
    - pull_requests
    - pr_comments
    - pr_reviews

These fields need to be configured for the notebooks to function properly and specify the path to download the data.
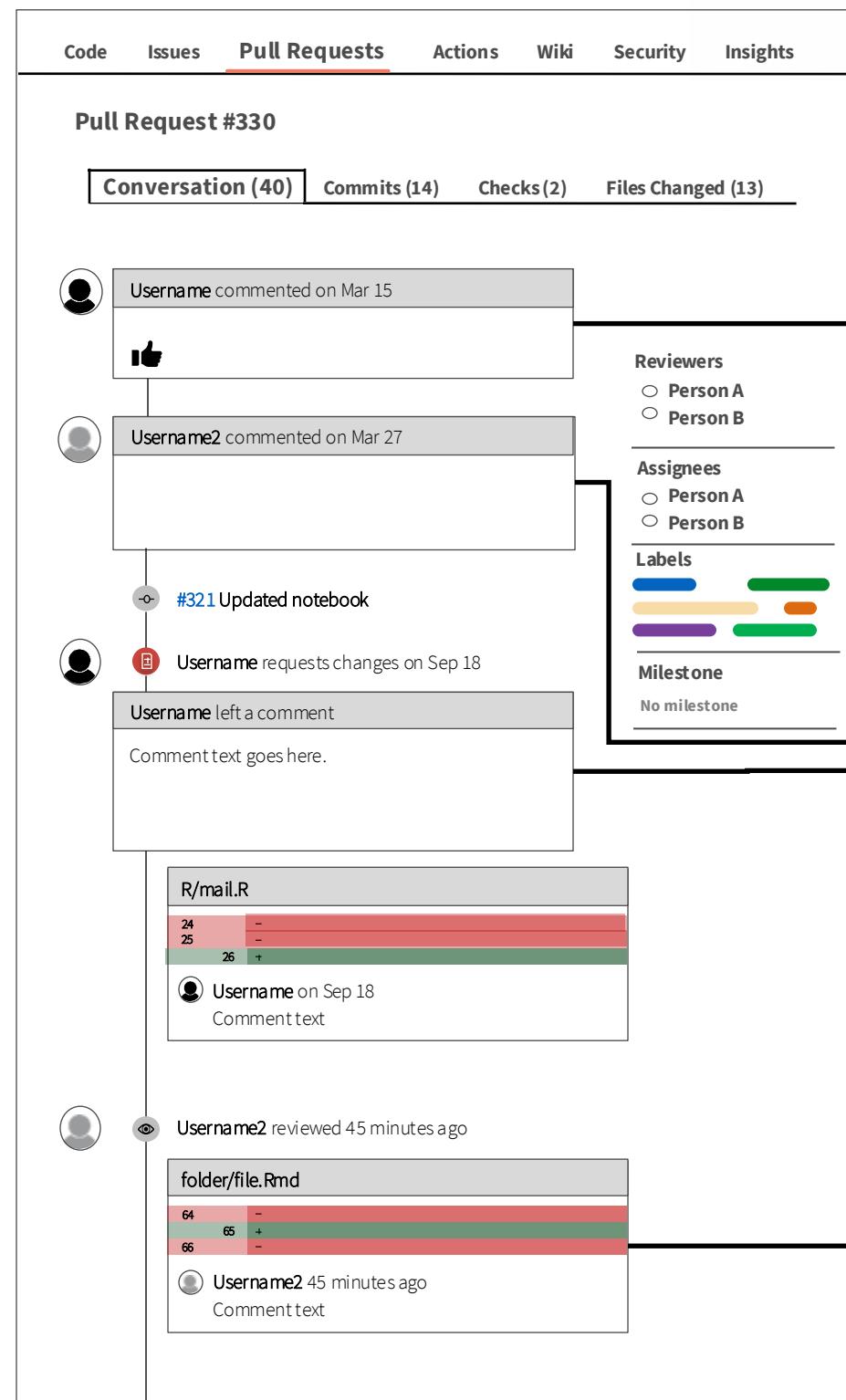
Related Kaiaulu Functionality

Pull Request comments can be used to extend social network graphs and social smells (see **social-smells-cheatsheet.pdf**).

The code review workflow can be modeled to assess project compliance (see **process-discovery-cheatsheet.pdf**)

Code review reactions can also capture developers' sentiment and offer implicit signal to code quality (see **sentiment-cheatsheet.pdf**)

To more easily download new data using the endpoints, we recommend using Kaiaulu refresher API (see **refresher-cheatsheet.pdf**).

Pull Request Conversations

Related Vignettes

To run and download GitHub Pull Request Comments, use the following vignette to visualize the GitHub Conversations tab in Kaiaulu

- pull_request_comments.rmd

Refreshers

The four types of GitHub Pull Request Comments are obtained by calling 4 endpoints. We recommend using the refreshers.

1. github_api_project_pull_request_refresh()
The first comment in every pull request is obtained by this endpoint.

2. github_api_project_issue_or_pr_comment_refresh()
The second comment and onwards in every pull request is obtained by this endpoint, except for in-line code review comments.

3. github_api_pr_reviews_refresh()
In-line code review comments can be grouped under a change request comment, in which case the in-line code comments will contain a reference ID to the change request comment.

4. github_api_project_pr_comments_refresh()
In-line code comments may also be added without a change request comment.

Parsers

The following respective parser functions can tabulate the Pull Request comments endpoint:

1. github_parse_project_pr_reviews()

2. github_parse_project_issue_or_pr_comments()

3. github_parse_project_pr_comments()

4. github_parse_project_pull_request()

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