

Best Practices for GitHub Repositories


Pull Requests on GitHub

A pull request is a feature of GitHub and other source code management tools that allow a repository's collaborators to review and give feedback on proposed code changes before they are accepted and merged to another branch, usually the main branch. Each pull request creates a discussion forum that can be used by reviewers and authors alike to highlight or add comments to a single line of code or chunk of code, add videos or images, etc.





Going through the pull request process can increase group knowledge, improve product quality, and develop professional skills through group critique.

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

 base: main ▾ ← compare: sonia_feature_navigation_menu ▾ ✖ Can't automatically merge. Don't worry, you can still create the pull request.

Discuss and review the changes in this comparison with others. [Learn about pull requests](#) [Create pull request](#)

 6 commits  20 files changed  1 comment  1 contributor

Writing a Good Pull Request

Creating a good pull request can increase the chances of having your changes being accepted by the collaborators. Follow the steps below to properly structure your pull request, which can make it easier for reviewers to understand your proposed changes and receive their feedback quicker:

- Concisely explain the purpose of the pull request in the title

- Put the thought process behind code changes and the options you have considered in the description

 - Including screenshots, GIFs, and videos can help others visualize your changes

- Use and follow the pull request templates and guidelines, if provided

- Make commit messages clear

- Use comments both in your code and in the discussion

- Keep pull requests small

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base: main ← compare: sonia_feature_navigation_menu

✖ Can't automatically merge. Don't worry, you can still create the pull request.

Title

Write Preview H B I

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

Create pull request

Reviewers

No reviews

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

No milestone

Linked issues

Use Closing keywords in the description to automatically close issues

Helpful resources

[GitHub Community Guidelines](#)

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

6 commits

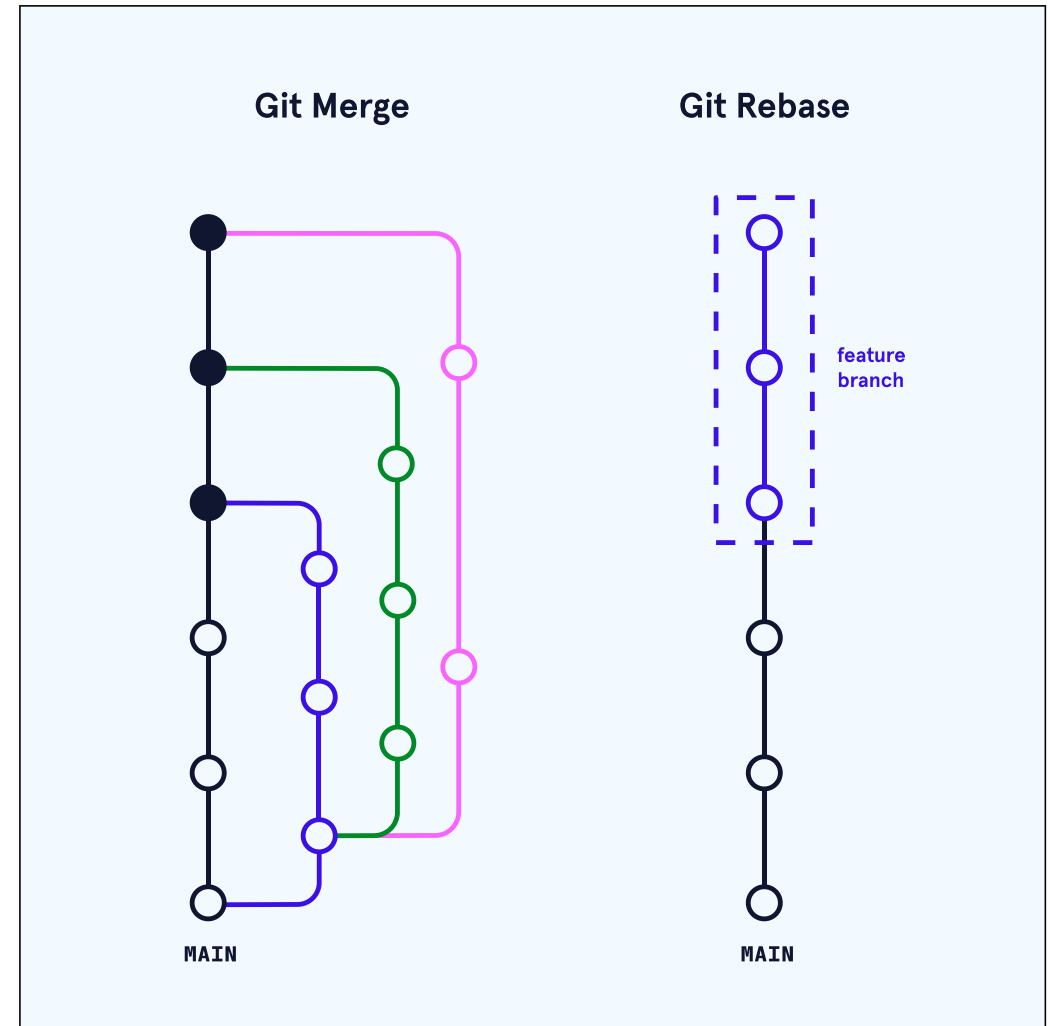
20 files changed

1 comment

1 contributor

Git Rebase

Rebasing is moving the base of a branch onto a different position. It is used to simplify the Git history of a repository. The advantage of using Git rebase over Git merge is that we can create a linear history of changes and reduce merge commits, but rebase should be done carefully.



GitHub Repository Settings

The settings page of a GitHub repository allows us to customize and change many options that can take our repository to the next level.

Options: enable features like Wikis and Discussions, change basic repository information including name and visibility, and delete the repository.

Security & Analysis: enable/disable a variety of security features.

Branches: set default branch and create branch protection rules.

Webhooks: use webhooks to get notifications when certain events happen.

Notifications: receive email notifications when push events are triggered.

Integrations: applications integrated with our repository will appear here.

Deploy Keys: use SSH keys to grant servers access to a repository for deployment.

Actions: change permissions for GitHub Actions.

Secrets: encrypted environment variables that can be used in Actions.

Pages: host simple web pages straight from the repository.

Options

Manage access

Security & analysis

Branches

Webhooks

Notifications

Integrations

Deploy keys

Actions

Secrets

Pages

Using .gitignore in a GitHub Repository

When pushing our project to GitHub, there are often files we do not want to be shared with others. A **.gitignore** file is used to specify which files or folders we want Git to ignore when staging. Follow the steps below to include this file in your GitHub project, which can result in cleaner staging areas and prevent sensitive information from accidentally being pushed.

1. Create a text file named **.gitignore**
2. Write names of files or folders to ignore
 3. Each line corresponds to a file, directory, or pattern
 4. Be sure to include `/` at the end of directory names
 5. Use [globbing patterns](#) to handle special cases
6. Ignored files won't be staged but be sure to stage and commit the **.gitignore**!

```
# An example Java gitignore file
```

```
# Compiled class file
```

```
*.class
```

```
# Log file
```

```
*.log
```

```
# BlueJ files
```

```
*.ctxt
```

```
# Mobile Tools for Java (J2ME)
```

```
.mtj.tmp/
```

```
# Package Files #
```

```
*.jar
```

```
*.war
```

```
*.nar
```

```
*.ear
```

```
*.zip
```

```
*.tar.gz
```

```
*.rar
```