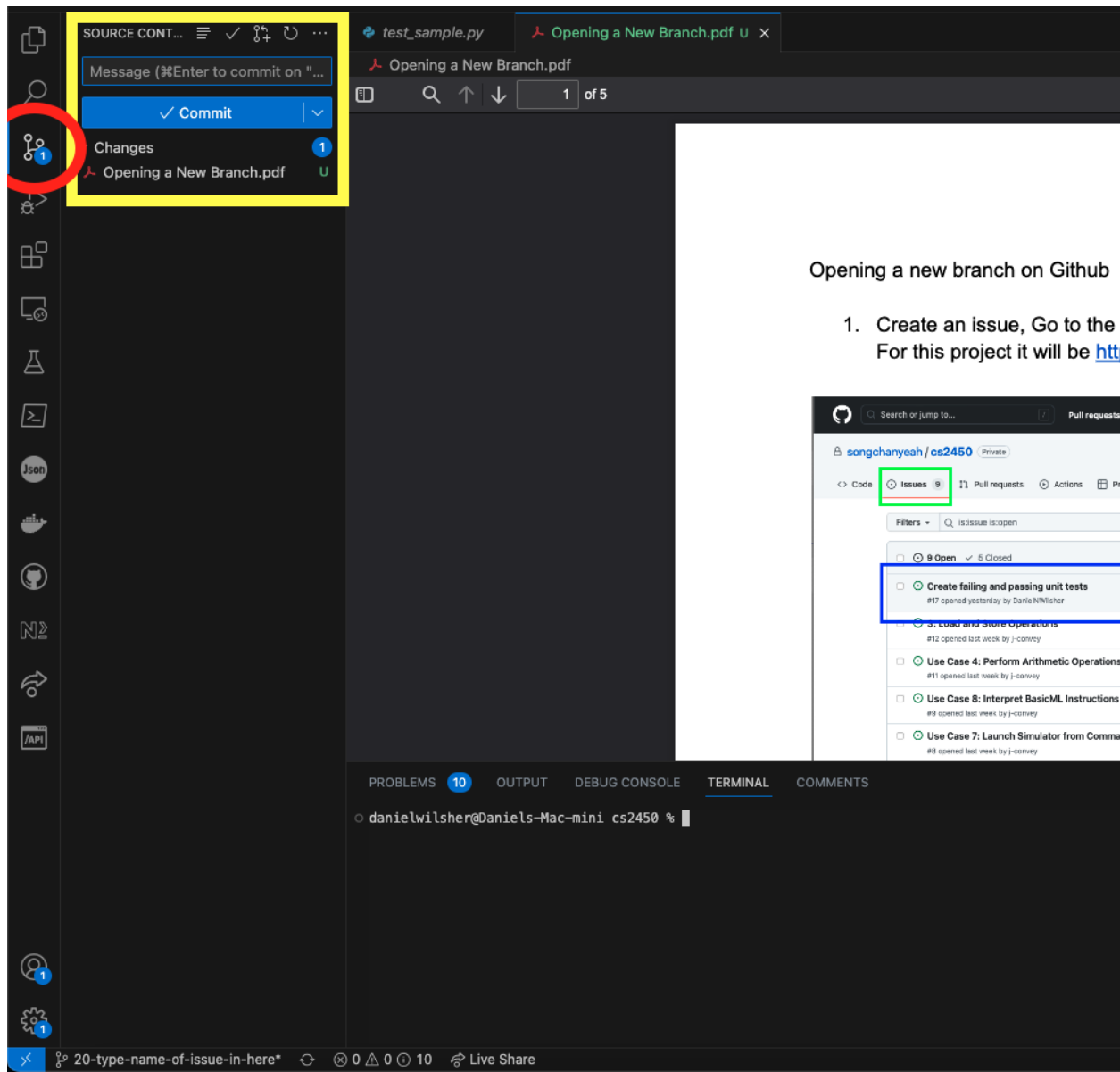
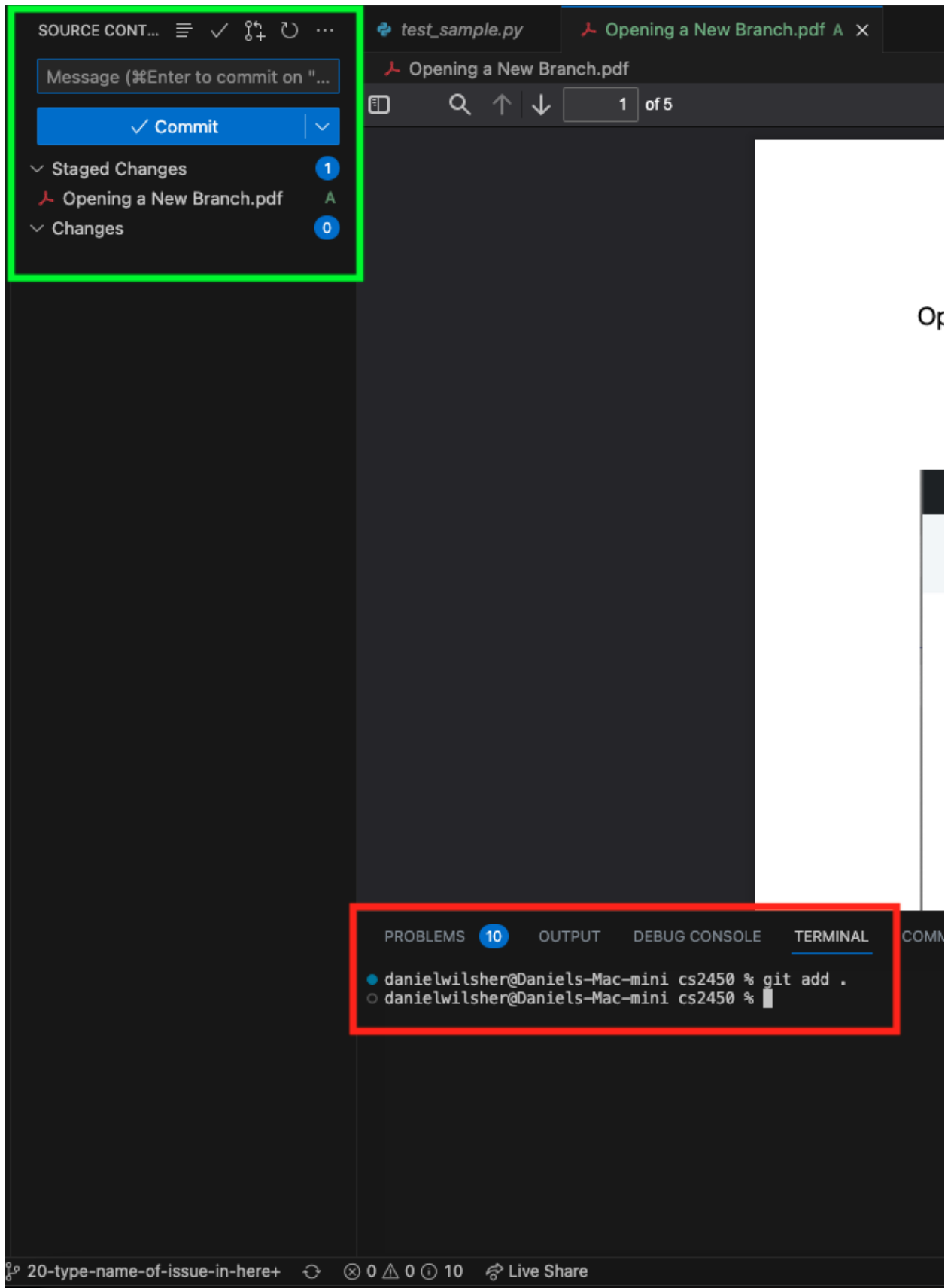


1. In VS code your source control and changes will show up in the tab in the red circle and will show as the menu in the yellow square. Here is a new file that is the change that will be pushed to my current branch “20-type-name-of-issue-here”.



2. If your changes look good run the command “**git add .**” in your terminal (shown in red box) to stage your changes for a commit (it will look like this after running your command as shown by the green box).



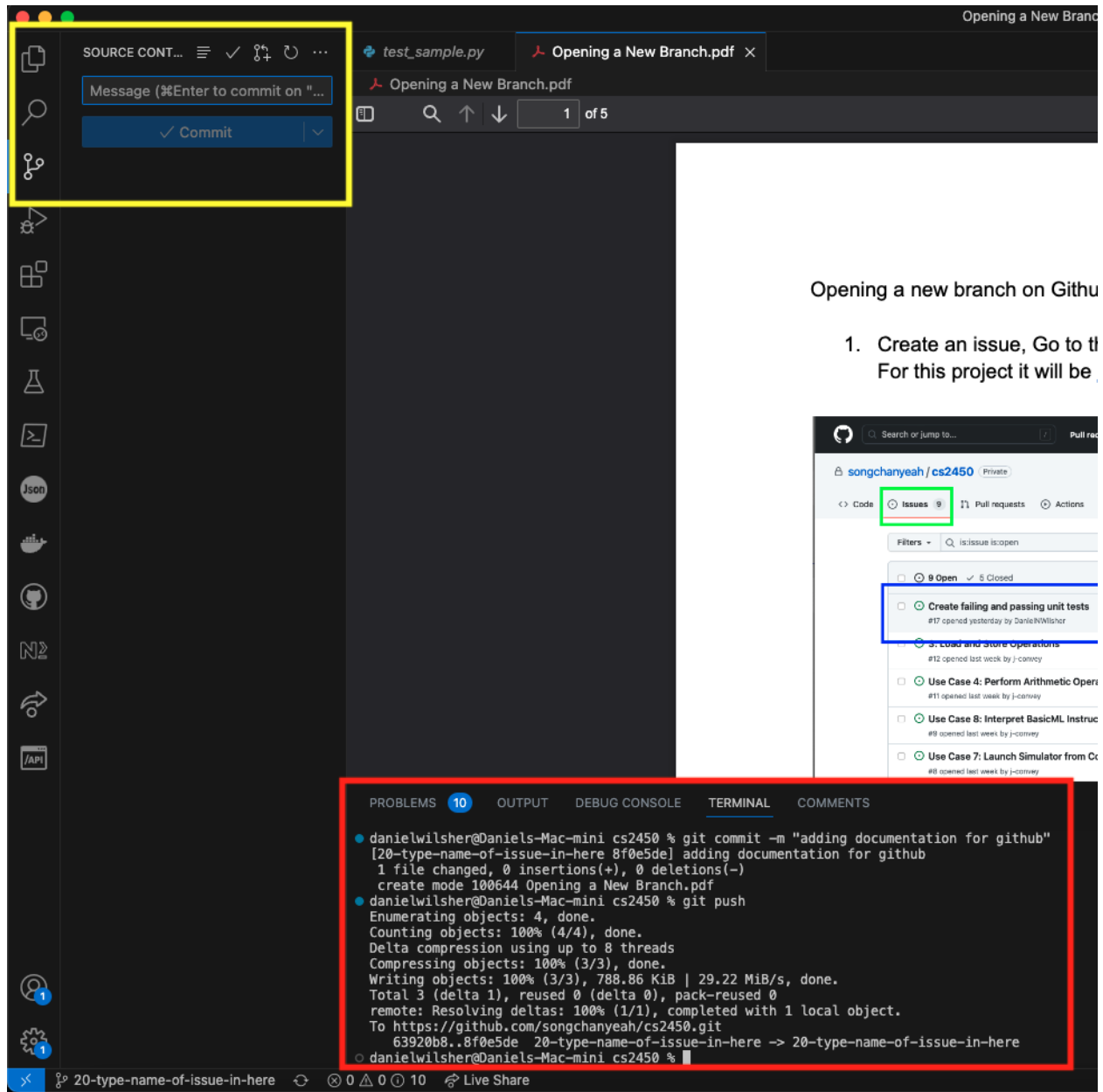
- After your changes are staged run “**git commit -m “enter a message here”**” in your terminal as shown in the red box below. Replace the enter a message here with a short summary of the changes you made to help other engineers understand what you have changed and are committing. The source control will now look like the yellow box.

The screenshot shows the Visual Studio Code interface. On the left, the Source Control panel is visible, with a yellow box highlighting the commit message input field and the 'Sync Changes' button. The input field contains the text 'Message (%Enter to commit on "...'. Below this, a blue button labeled 'Sync Changes 1 ↑' is visible. The main editor area shows a file named 'Opening a New Branch.pdf'. At the bottom, the Terminal panel is open, displaying a red box around the following command and output:

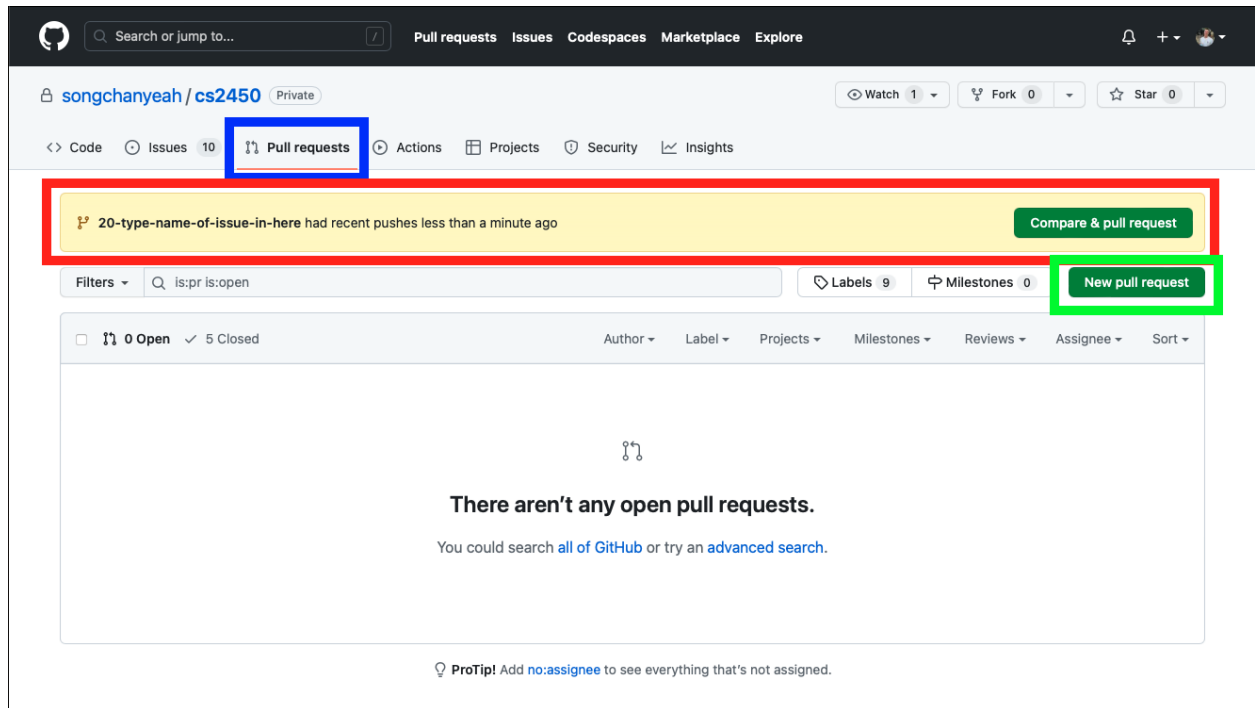
```
danielwilsher@Daniels-Mac-mini cs2450 % git add
danielwilsher@Daniels-Mac-mini cs2450 % git commit -m "adding documentation for github"
[20-type-name-of-issue-in-here 8f0e5de] adding documentation for github
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Opening a New Branch.pdf
danielwilsher@Daniels-Mac-mini cs2450 %
```

On the right side of the image, there is a smaller screenshot of the GitHub web interface. It shows the 'Issues' tab for the repository 'songchanyeah/cs2450'. A green box highlights the 'Issues' tab, and a blue box highlights the 'Create failing and passing unit tests' issue.

- After you have created a commit in your terminal run the command “**git push**” to push your changes to the online version of your branch as shown in the red box outline. The source control outlined in yellow should now be empty with no changes or commits. You can repeat steps 2-4 as many times as you like but try to keep the amount of commits to a smaller amount and only start a pull request when you feel that your work is completed.



5. Now go to the pull request tab in the github repository outlined in the blue box (for this project the link is <https://github.com/songchanyeah/cs2450/pulls>). Github will recognize any recent pushes and give you the option outlined in red or just click the one outlined in green and make sure to select your branch you've been working on.



6. Now that you are starting a new pull request, make sure to check as outlined in the green box that your branch in this case “20-type-name-of-issue-here” is being merged into main. Make sure to add peer reviewers as outlined in the blue box so that others can check your work and help provide feedback. To get credit for your work make sure to assign yourself as outlined in the pink box. Lastly when everything looks good, go ahead and click the button in the red circle to create a pull request.

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: 20-type-name-of-issue-in-h... ✓ Able to merge. These branches can be automatically merged.

adding documentation for github

Write Preview

H B I

adding documentation for opening a new issue.

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

Create pull request

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

Reviewers

j-convey

songchanyeah

GGzila626

Assignees

DanielNWilsher

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Use **Closing keywords** in the description to automatically close issues

Helpful resources

[GitHub Community Guidelines](#)

~ 1 commit

1 file changed

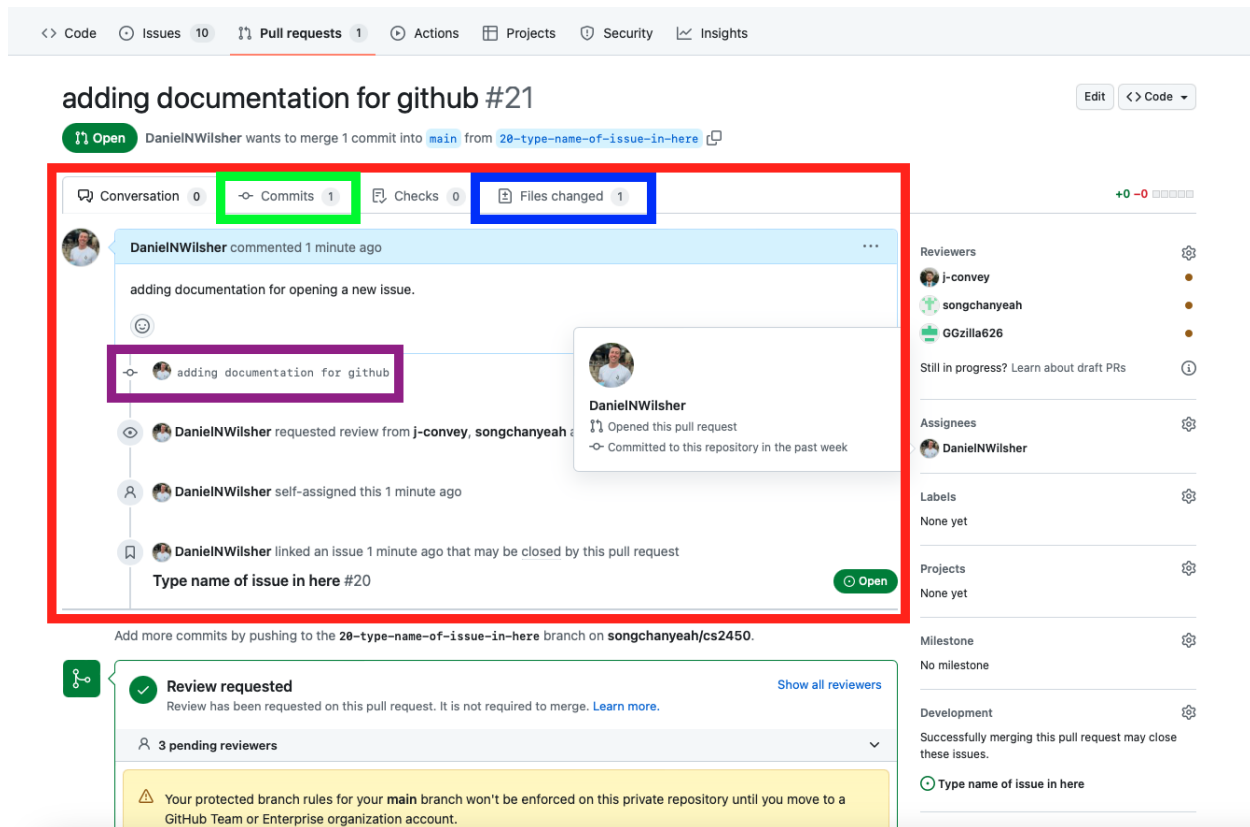
1 contributor

Commits on Jun 10, 2023

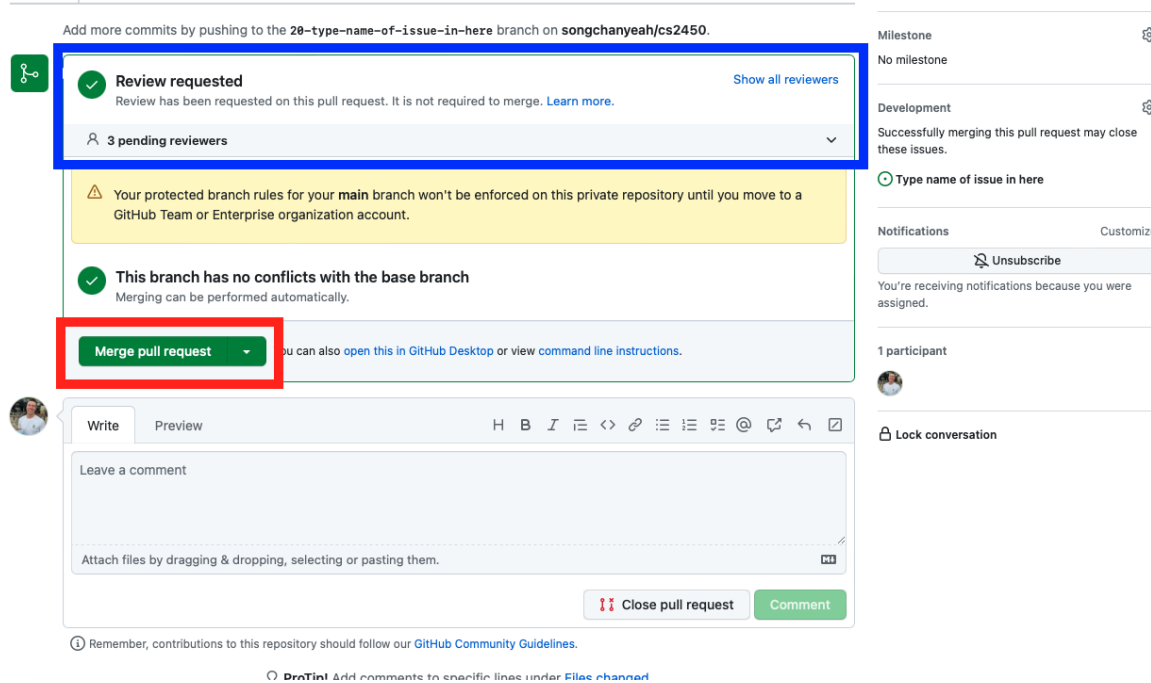
adding documentation for github

8f0e5de

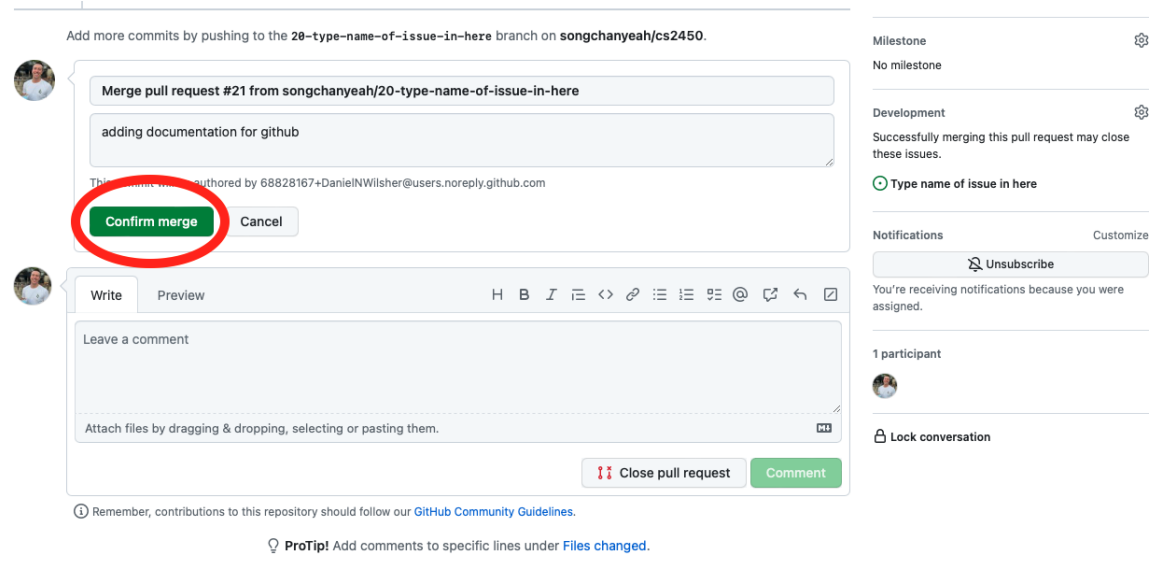
7. The pull request is open and looks like the image below, outlined in red is an overview timeline of any commits, comments or changes to the pull request. The commits tab is a timeline of commits as outlined by the green box. If you are a reviewer you will want to click on the tab outlined in the blue box to check the changes to the file and code and review there (you get credit for reviewing others work on github so it's a good habit to get into). Outlined in purple is a commit.



8. Once everything has been reviewed it will tell you if anyone has approved or asked for changes as outlined in the blue box (currently no reviews but some requested). Now you can click the button to merge the pull request and merge your branch into main.



9. Since merges can sometimes cause issues it will ask a second time to confirm the merge and if you want to merge click the button in the red circle and it will merge the branches.





10. Just like how a tree gets overgrown sometimes we don't want to keep old branches around and like a tree we want to clip straying branches so it looks like a nice tree. After you have merged you can click delete branch as outlined in the red box to delete the branch online and keep the tree clean. Likewise if committing caused a huge issue or you didn't want to merge just yet you can click the revert button in the blue circle. For the most part make sure you are ready to merge before merging.

The screenshot shows a GitHub pull request interface. At the top, a green 'Open' button is next to the title 'adding documentation for github #21'. Below the title, a commit history shows 'DanielNWilsher' merged commit '9ec1ab8' into 'main' now. To the right of the commit history, a blue circle highlights a 'Revert' button. Below the commit history, a purple box indicates 'Pull request successfully merged and closed'. To the right of this box, a red rectangle highlights a 'Delete branch' button. Below the pull request status, there is a comment section with a 'Write' tab, a 'Preview' tab, and a 'Comment' button. On the right side of the page, there is a sidebar with 'Assignees' (DanielNWilsher), 'Labels' (None yet), 'Projects' (None yet), 'Milestone' (No milestone), and 'Development' (Successfully merging this pull request may close these issues.). At the bottom, there is a 'ProTip!' section with the text 'Add comments to specific lines under Files changed.'

11. Like before if you delete the branch and you did not want to, you can always restore the branch by clicking the button in the blue circle.

The screenshot shows a GitHub pull request interface. At the top, a green 'Open' button is next to the title 'adding documentation for github #21'. Below the title, a commit message 'adding documentation for github' is shown with a commit hash '8f0e5de'. A list of activities follows: 'DanielNWilsher requested review from j-convey, songchanyeah and GGzilla626 2 minutes ago', 'DanielNWilsher self-assigned this 2 minutes ago', 'DanielNWilsher linked an issue 2 minutes ago that may be closed by this pull request' (with a note 'Type name of issue in here #20'), and 'DanielNWilsher merged commit 9ec1ab8 into main now'. Below this, a message states 'DanielNWilsher deleted the 20-type-name-of-issue-in-here branch now'. A blue circle highlights a 'Restore branch' button next to this message. On the right side, there are sections for 'Assignees' (listing songchanyeah and GGzilla626), 'Labels' (None yet), 'Projects' (None yet), 'Milestone' (No milestone), and 'Development' (with a note about merging). At the bottom right, there is a 'Notifications' section with an 'Unsubscribe' button and a '1 participant' section. A 'Comment' box is visible at the bottom left, and a 'Comment' button is at the bottom right. A 'ProTip!' message at the bottom suggests adding comments to specific lines under 'Files changed'.

12. You have successfully merged your branch into main and as outlined in the red box it will tell you that it is merged and who merged how many commits into main from the other branch. The blue outlined box also shows that the issue you had created earlier is now completed and closed.

The screenshot shows a GitHub pull request page for the repository 'songchanyeah / cs2450'. The pull request title is 'adding documentation for aithub #21'. The status is 'Merged', indicated by a green checkmark and the text 'DanielNWilsher merged 1 commit into main from 20-type-name-of-issue-in-here now'. A red box highlights this merged status. Below the title, the commit history shows 'adding documentation for github' by DanielNWilsher. A blue box highlights a comment from DanielNWilsher stating 'DanielNWilsher linked an issue 2 minutes ago that may be closed by this pull request' with the issue title 'Type name of issue in here #20' and a 'Closed' button. The right sidebar shows the pull request details, including reviewers (j-convey, songchanyeah, GGzilla626), assignees (DanielNWilsher), labels (None yet), projects (None yet), milestones (No milestone), and development status (Successfully merging this pull request may close these issues).

13. Now if you go back to the main code tab for the repository as outlined in red (for this project the link is <https://github.com/songchanyeah/cs2450> ). Make sure the branch as outlined in the purple box is on the main branch and you will see as outlined in the green box that the file has been added to main. The blue box outline will also tell you the last person to merge a pull request into main from the branch they were working on as well as how long ago it was and now how many commits the branch has on it.

The screenshot shows the GitHub repository page for `songchanyeah/cs2450`. The `Code` tab is selected and highlighted with a red box. The `main` branch is selected and highlighted with a purple box. A pull request merge summary is highlighted with a blue box, showing it was merged 1 minute ago with 26 commits. A file `Opening a New Branch.pdf` is highlighted with a green box, showing it was added 15 minutes ago. The README.md file is visible at the bottom.

Repository: `songchanyeah/cs2450` (Private)

Navigation: `<> Code` (highlighted in red), Issues (9), Pull requests, Actions, Projects, Security, Insights

Branches: `main` (highlighted in purple), 7 branches, 0 tags

Buttons: Go to file, Add file, `<> Code` (highlighted in green)

Recent Activity:

- DanielNWisher Merge pull request #21 from songchanyeah/20-type-name-of-... 9ec1ab8 1 minute ago 26 commits (highlighted in blue)
- \_\_pycache\_\_ did some merges yesterday
- Design Document.txt design document last week
- Opening a New Branch.pdf adding documentation for github 15 minutes ago (highlighted in green)
- README.md Create README.md last week
- Test1.txt Chan's code first commit 2 days ago
- Test2.txt Chan's code first commit 2 days ago
- main.py fixing load func to check number signs 20 hours ago
- test\_sample.py did some merges yesterday

README.md

## cs2450

CS2450 Software Engineering Group Project

About: CS2450 Software Engineering Group Project

Readme, Activity, 0 stars, 1 watching, 0 forks

Releases: No releases published. [Create a new release](#)

Packages: No packages published. [Publish your first package](#)

Contributors (3): `j-convey` Jordan Convey, `songchanyeah`

14. You are not done, because your local version of main is out of sync with the online repository. To fix this:

Outlined in purple is the command below to switch to the local main branch.

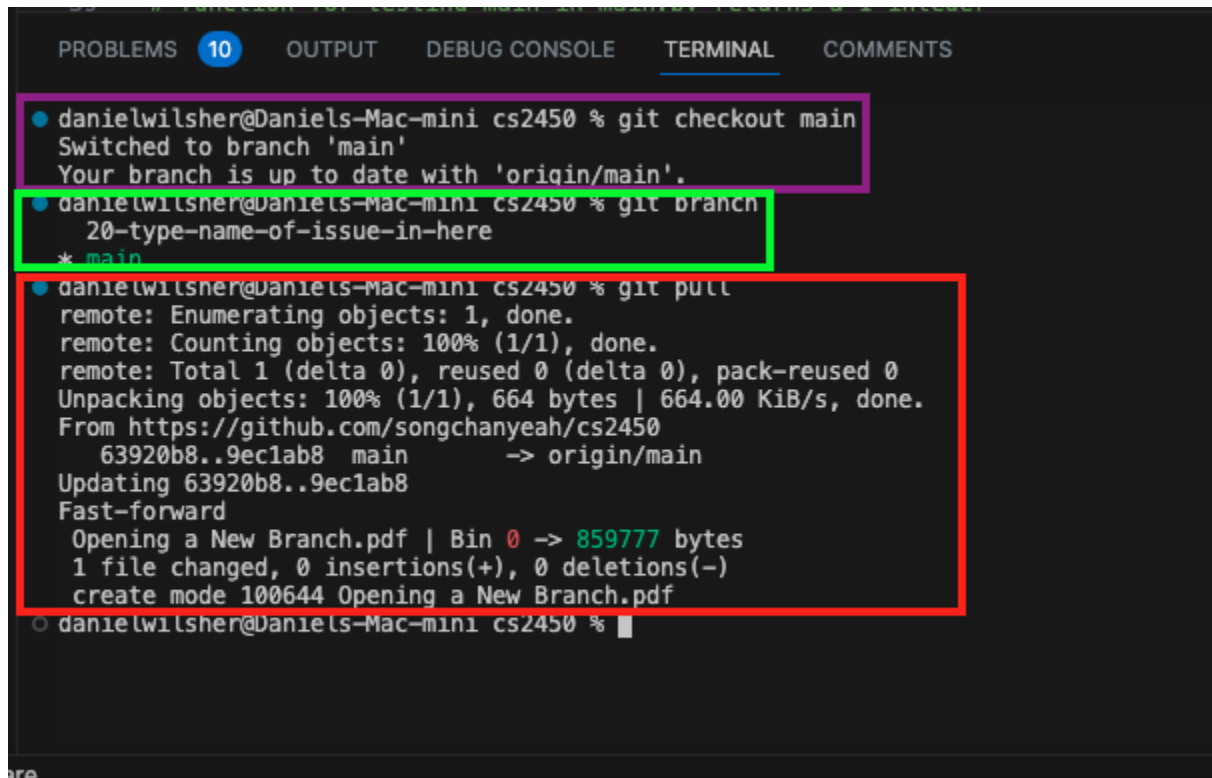
- Run the command “ **git checkout main** ”

Outlined in green is the command to check we are on the local main branch and if so the branch will be highlighted in green and have a \* next to it as shown.

- Run the command “ **git branch** ”

Outlined in red is the command to pull the latest version of main and it will show you a result of any updates which here shows 1 file was changed.

- Run the command “ **git pull** ”



```
danielwilsher@Daniels-Mac-mini cs2450 % git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

danielwilsher@Daniels-Mac-mini cs2450 % git branch
20-type-name-of-issue-in-here
* main

danielwilsher@Daniels-Mac-mini cs2450 % git pull
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (1/1), 664 bytes | 664.00 KiB/s, done.
From https://github.com/songchanyeah/cs2450
63920b8..9ec1ab8 main      -> origin/main
Updating 63920b8..9ec1ab8
Fast-forward
 Opening a New Branch.pdf | Bin 0 -> 859777 bytes
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Opening a New Branch.pdf

danielwilsher@Daniels-Mac-mini cs2450 %
```

Congratulations you just created a pull request and committed it to the main branch.