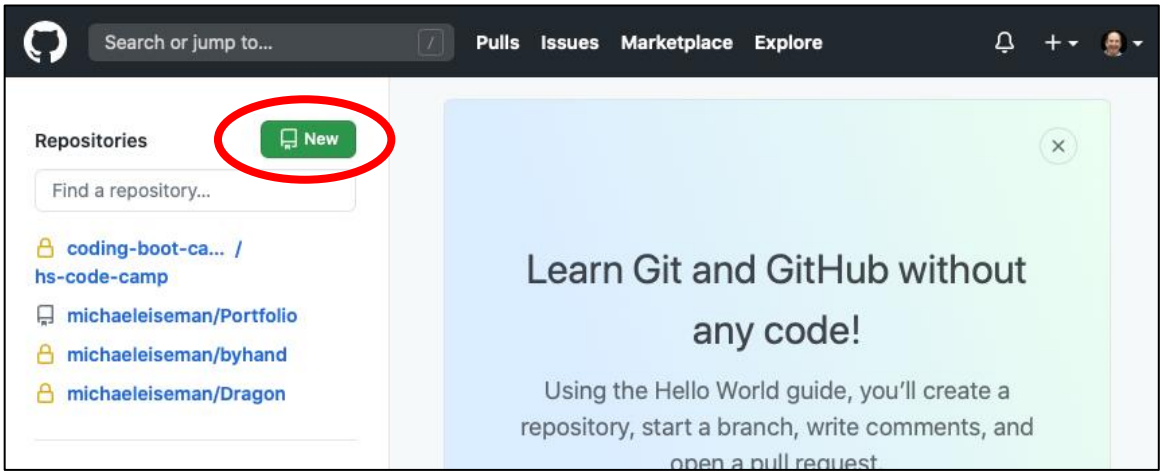
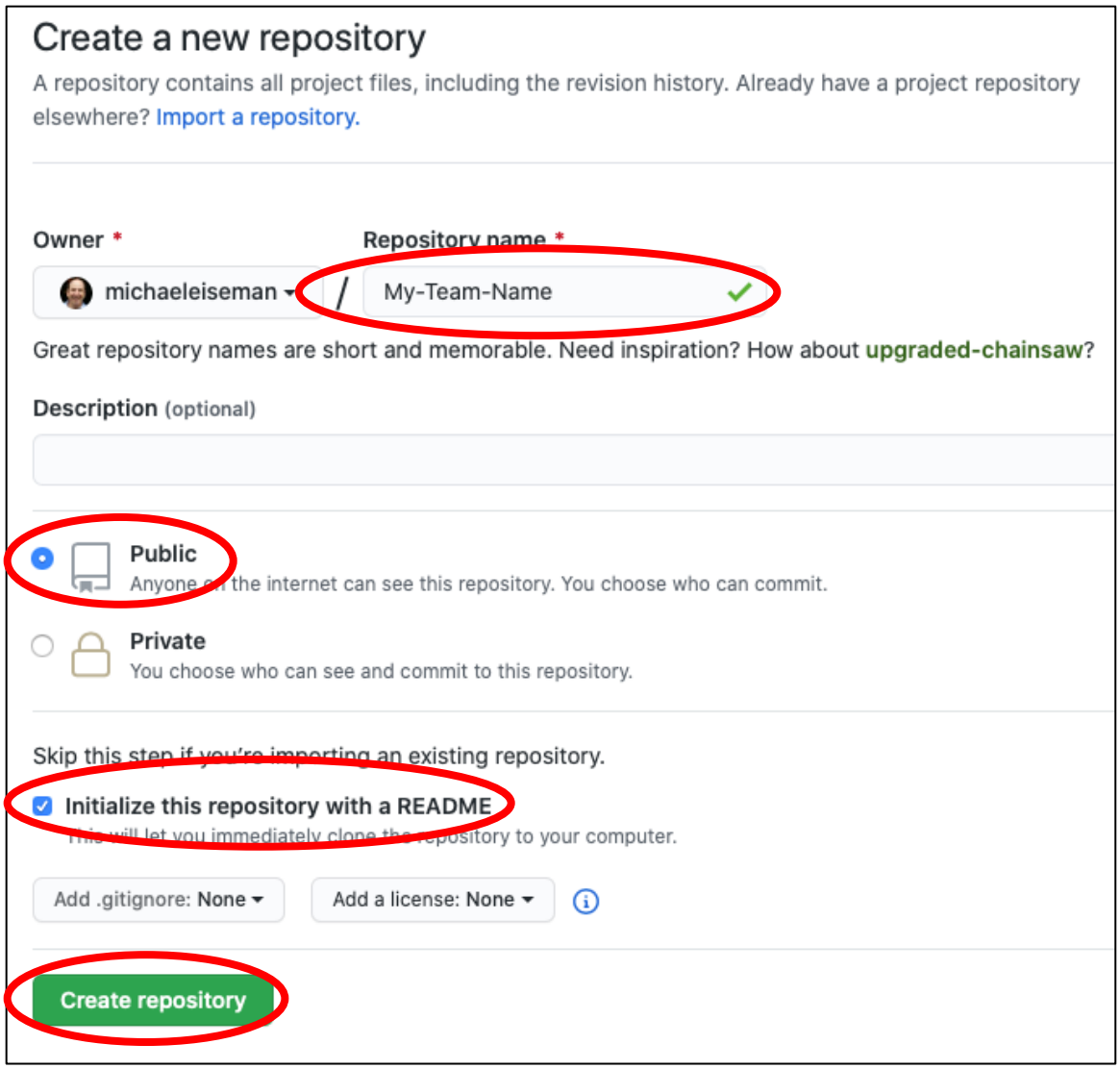
Using GitHub as a Team

Steps for distributing the repository to all members on the team (you should only need to do this once)

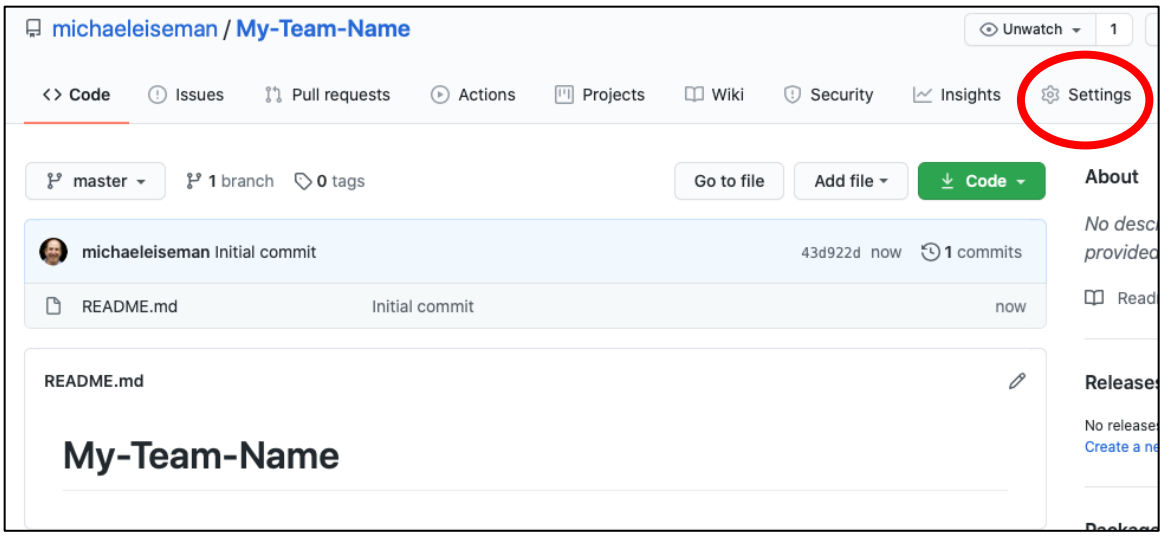


One team member should log into GitHub and click the green "New" button to create a NEW repository on their account while the other team members should slack their GitHub username to the team member that is creating the new repository.

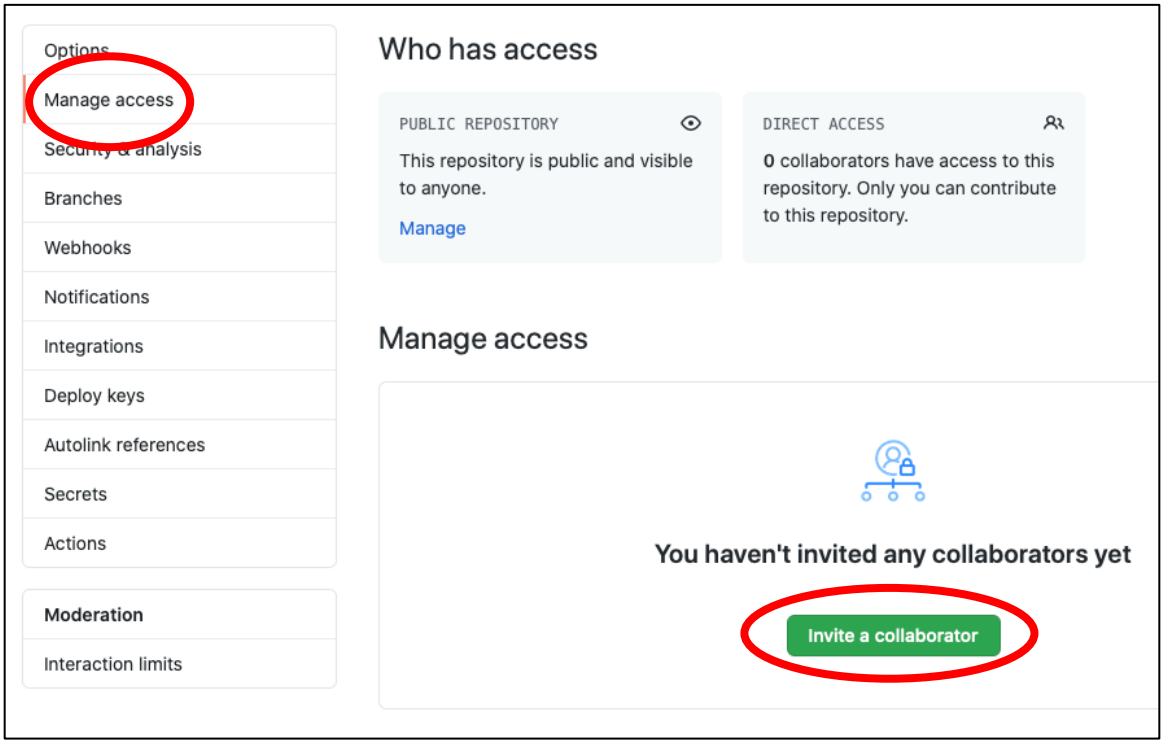


Create the repository by

1. entering in the repository name of your choice (could be your team name),
2. making sure you have designated that you want the repository to be public,
3. selecting on the option to initialize the repository with a README,
4. clicking on the green "Create repository" button.



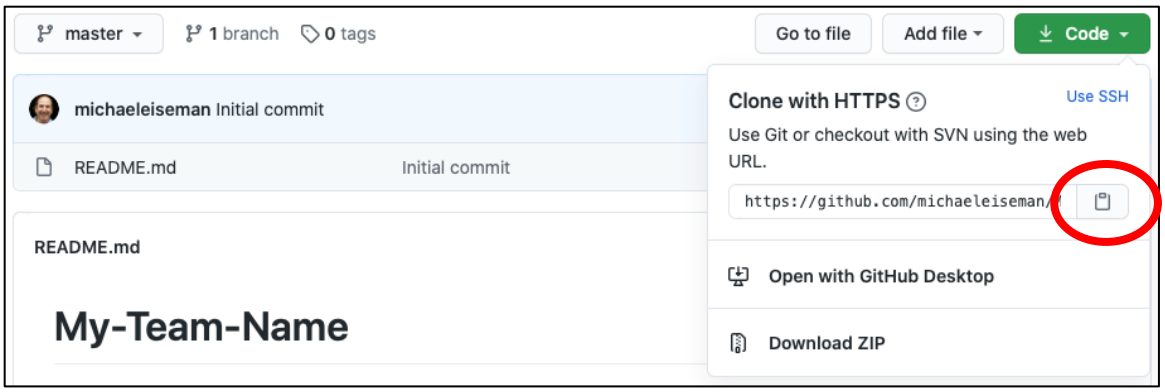
Next admit members to the repository by first clicking on the Settings gear



Click on "Manage access" and then click on the green "Invite a collaborator" button.

Enter in and select each of your team members and add them as team members to your repository.

Each of your team members should get an email with a green View invitation button. They first must log into GitHub and then click on this button in their email. This should take them to a GitHub page with an Accept invitation button. Once they click on this button, they will be brought to the page containing the group's repository.



Every team member should click on the green "Code" button and then click on the clipboard icon to copy the web address of the repository to their clipboard.

With the web address on their clipboard, each team member should bring up the command line interface (Terminal for Mac and Git Bash for PC) and change directories to where you want your local copy of the project to reside. Note that it is NOT a good idea to put this project inside your Portfolio folder. You could perhaps make this project a sibling of your Portfolio folder if you like. This means that if you typed "ls", you would see your Portfolio folder listed.

After you have changed directories, type

```
git clone paste-in-remote-directory-from-clipboard-here
```

This will put a copy of the current master branch for your project.

To start working on your project

First, you should make sure that your local copy of the master branch is up to date. To do this, open your terminal and cd to your local project folder. Type

```
git checkout main
git pull
```

Your local master copy should now be updated

It is best to create your own branch before you modify your team's project. To do this, type

```
git checkout -b type-your-branch-name-here
```

Note that the branch name may NOT include spaces.

Next, to make it easier to push your new branch up to the remote repository, you should type

```
git push --set-upstream origin type-your-branch-name-here
```

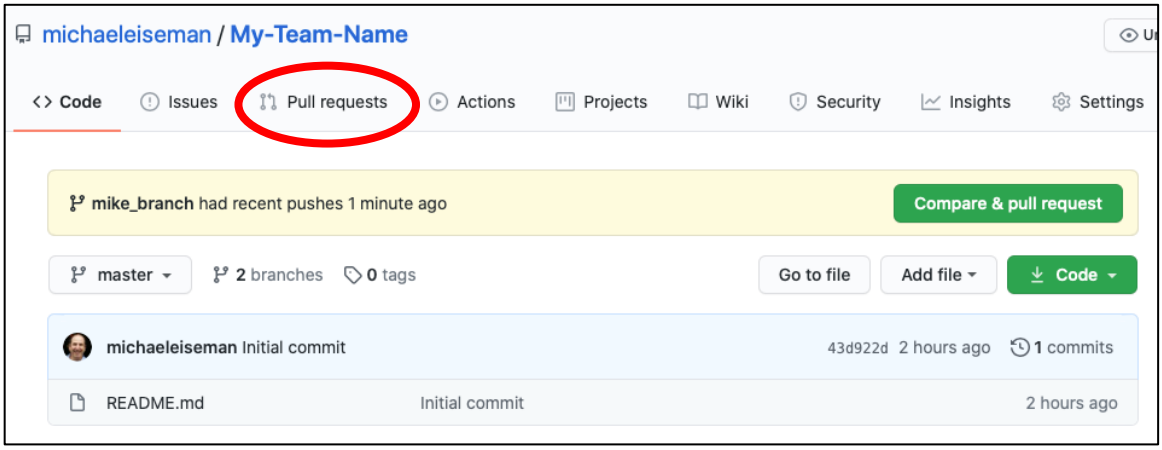
You should only have to do this last step once.

Now you can edit your new branch in Visual Studio Code just as you have been doing in class.

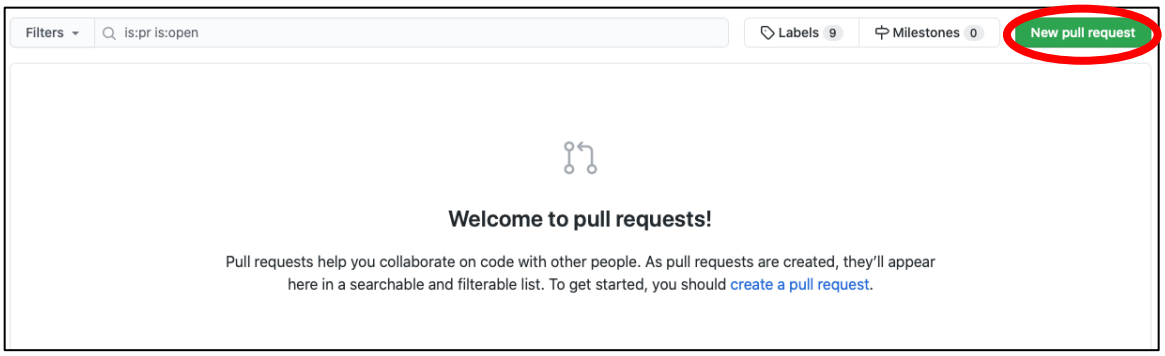
Steps to push your changes to the remote repository

Save all of your changes in Visual Studio Code while on your branch. Open your terminal and cd to your local project folder. Type

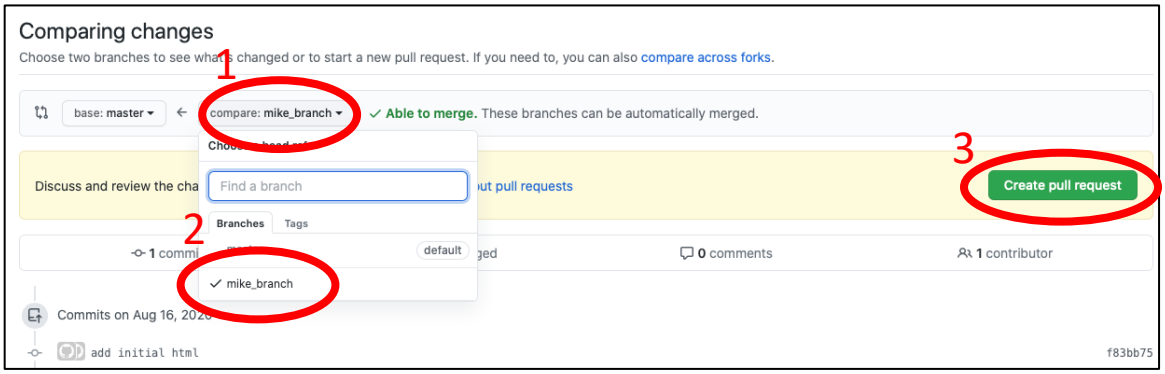
```
git add .
git commit -m "indicate changes here"
git push
```



Now log into GitHub and submit a pull request by clicking on the navigation item labeled "Pull requests.

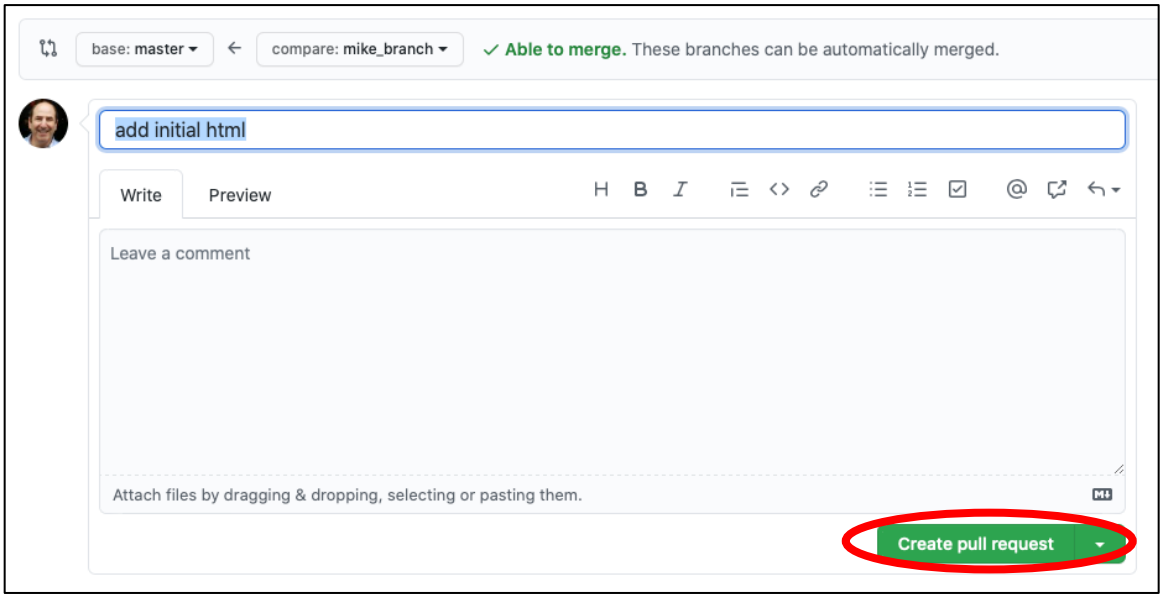


Now click on the green button labeled "New pull request."



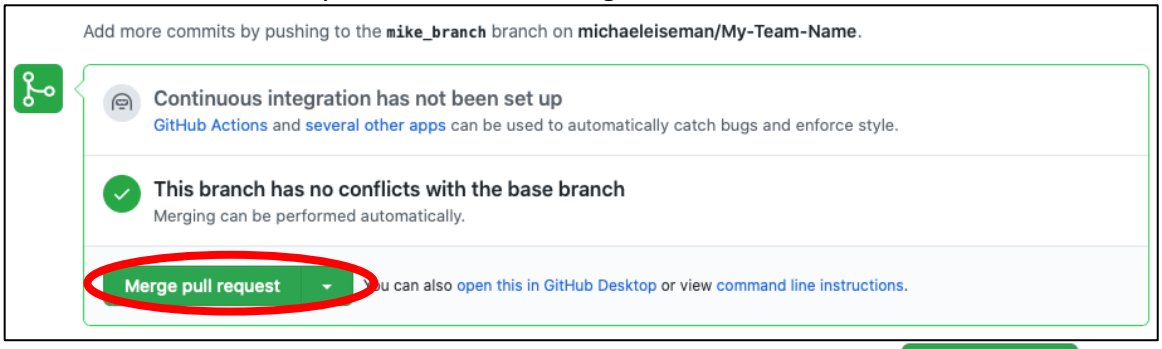
Next

1. Click on the compare drop-down button,
2. Select the branch you want merged with the master branch, and
3. Click on the green "Create pull request" button.



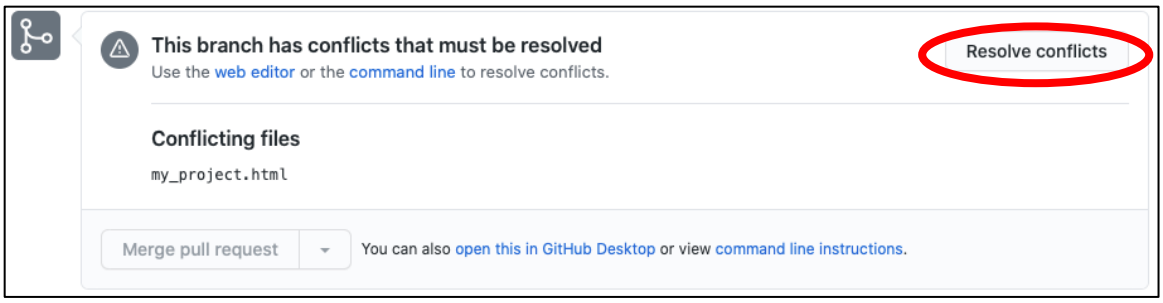
Click the green "Create pull request" button.

If there are no conflicts, you will see something like this:



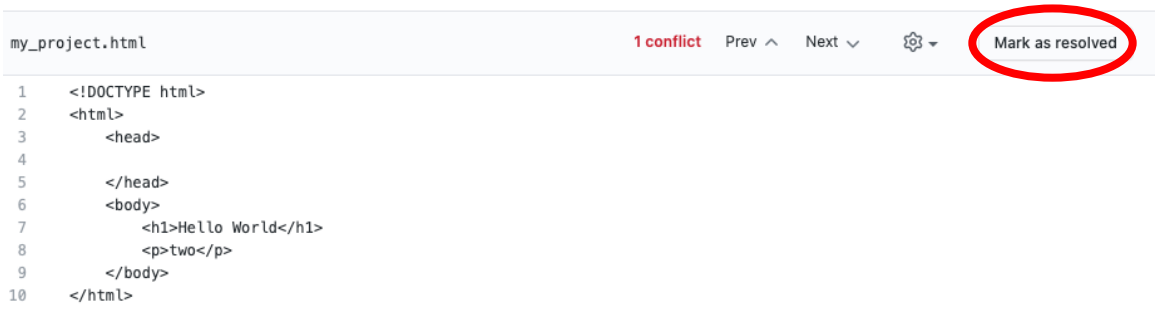
Click on the green "Merge pull request" button and then click on the Confirm merge button.

If there are conflicts, you will see something like this:



If this happens, click on the "Resolve conflicts" button and edit the code online until it looks the way you want it to look. You should also delete any markers that look like <<<<<<<, >>>>>>>, or =======. For example, if your conflict looks like this:

And you wanted the <p> tag to contain the word "two", then you should edit the code in the web browser to look like this:



Then click on the "Mark as resolved" button and then click on the green Commit merge button.

Now you should be able to click on the green Merge pull request button and the Confirm merge button as shown above.

The master branch on GitHub should now include the new code you added in your branch.

You should now also update your local master branch by typing

```
git checkout main
git pull
```

in your terminal.

To see what branch you are currently working on

Open your terminal and cd to your local project folder. Type

```
git branch
```

This will list all the branches you have locally and place an asterisk by the branch that you are currently on.

Steps to switch to a different local branch.

If you are currently editing a local branch and want to switch to a different local branch, first, make sure to save your work and commit your changes

```
git add.
git commit -m "change notes"
```

in your command line. Then type

```
git checkout different-local-branch-name
```

To force a password request on next push:

```
git remote set-url origin
https://username@github.com/username/repo-name.git
```