Renaming a branch can be a bit involved, especially if you are working with others, but here are the steps you can follow to rename a local branch and then push it to the remote. This guide assumes that you are the only one working with this branch, or everyone working on the branch is aware of the change.

### 1. Rename the Local Branch

Firstly, make sure your local branch is up-to-date with all changes from the remote:

```sh

git checkout master

git pull origin master

```

Then you can rename the local branch from `master` to `main` using:

```sh

git branch -m master main

```

### 2. Push the Renamed Branch to Remote

After renaming the local branch, you need to push the `main` branch to the remote and set the upstream branch:

```sh

git push -u origin main

```

### 3. Update the Default Branch on Remote Repository

You may also need to update the default branch on your remote repository (e.g., on GitHub, GitLab, Bitbucket). The process to do this may vary depending on the platform you are using, but typically there are settings available in the repository's web interface to change the default branch.

### 4. Delete the Old Remote Branch

Once you've confirmed that the `main` branch is correctly pushed and set as the default, and you don't need the `master` branch on the remote anymore, you can delete it using:

```sh

git push origin --delete master

```

### Important Notes

- If other people are also working on this repository, they will need to update their local branches after you rename the branch on the remote. Communication with your team is crucial when performing such changes to avoid confusion and conflicts.

- If you have any open Pull Requests, they might be pointing to the old `master` branch, so you might need to adjust them to point to the new `main` branch.

- Ensure that there are no automation, CI/CD pipelines, or other integrations that rely on the old `master` branch, as they will need to be updated to the new `main` branch.

I hope this helps! If there are any specific issues or error messages you encounter while doing this, please let me know, and I can provide more detailed assistance.

**GitHub**

1. Go to your repository on GitHub.
2. Click on the "Settings" tab, usually located at the bottom of the right sidebar.
3. In the left sidebar, click on "Branches".
4. Next to "Default branch", you'll see a dropdown. Select **main** from the dropdown and confirm the change.