



Developer Protocols & Procedures





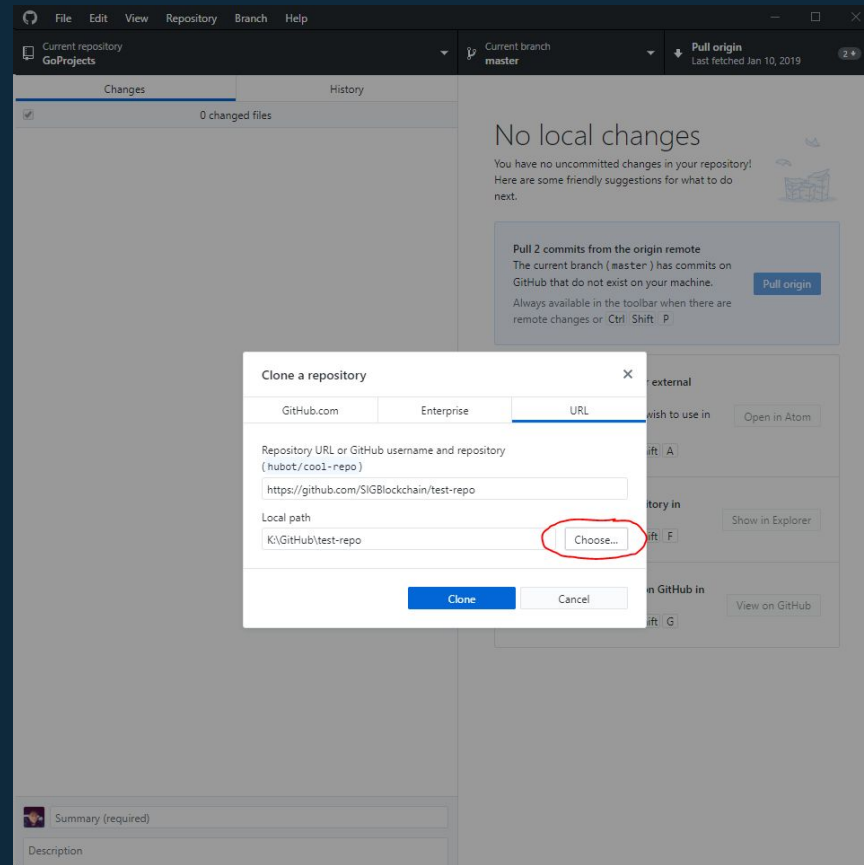
Setup

- ◇ Make sure you have installed:
 - Git
 - Github Desktop
 - An IDE like VSCode or Atom (these work the best with Github Desktop)



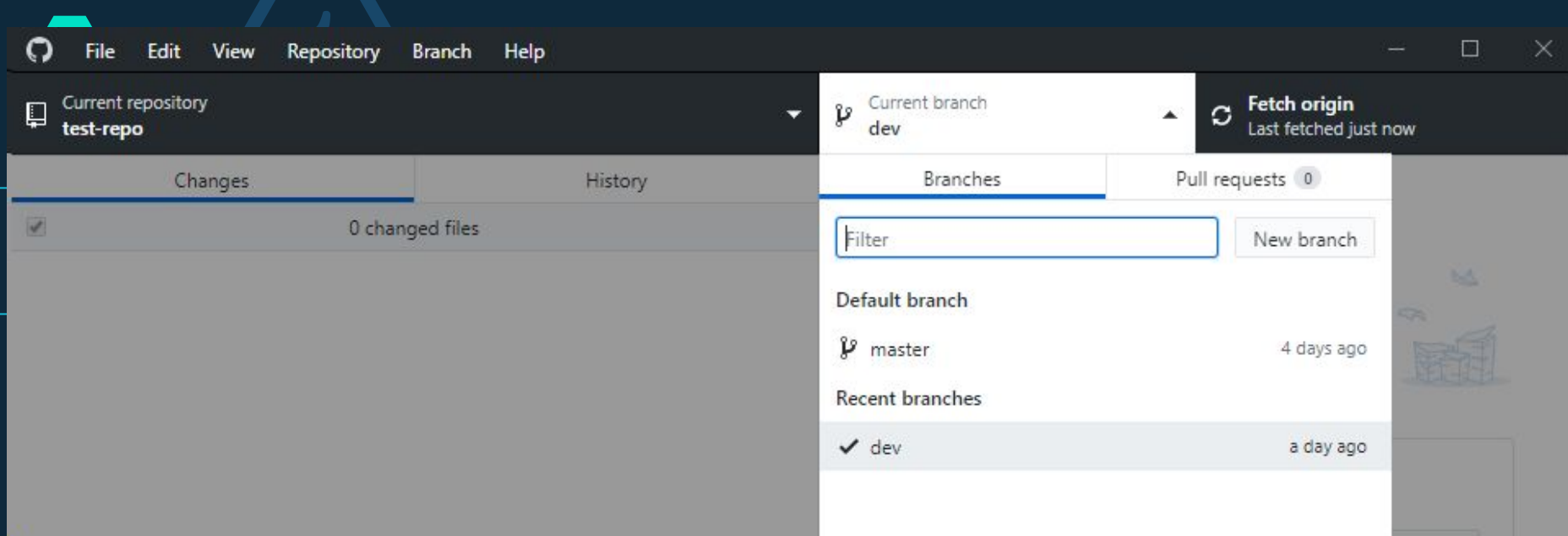
The screenshot shows the GitHub interface for the repository 'SIGBlockchain / test-repo'. The repository is described as 'Test repository for learning developer procedures and protocols'. It has 1 commit, 6 branches, 0 releases, and 1 contributor. The 'Clone or download' button is highlighted in green. A dropdown menu is open, showing 'Clone with HTTPS' and 'Use SSH'. The 'Clone with HTTPS' section includes the URL 'https://github.com/SIGBlockchain/test-' and a red circle around the 'Open in Desktop' button. The 'Download ZIP' button is also visible. The repository name 'test-repo' is displayed in a large font, and the description is repeated below it.

First clone the project. You will only need to do this step once.

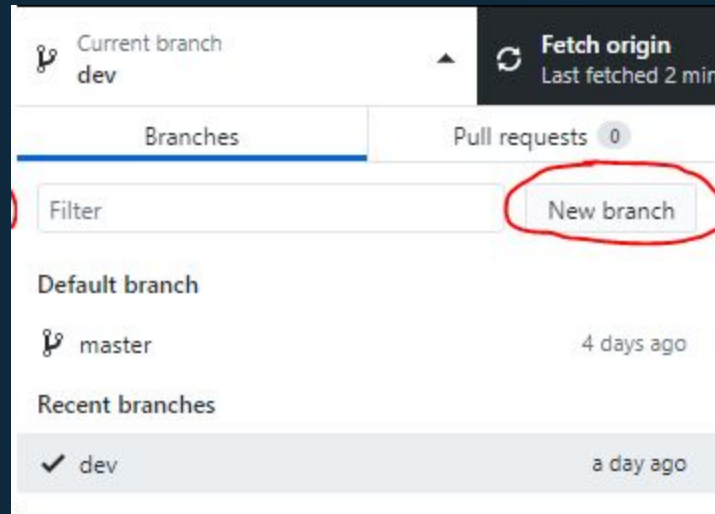


Choose a folder for the project





Select the “dev” branch



Select “New branch” to make your own branch.





Create a branch

Name

example

Create branch based on...

master

The default branch in your repository. Pick this to start on something new that's not dependent on your current branch.

dev

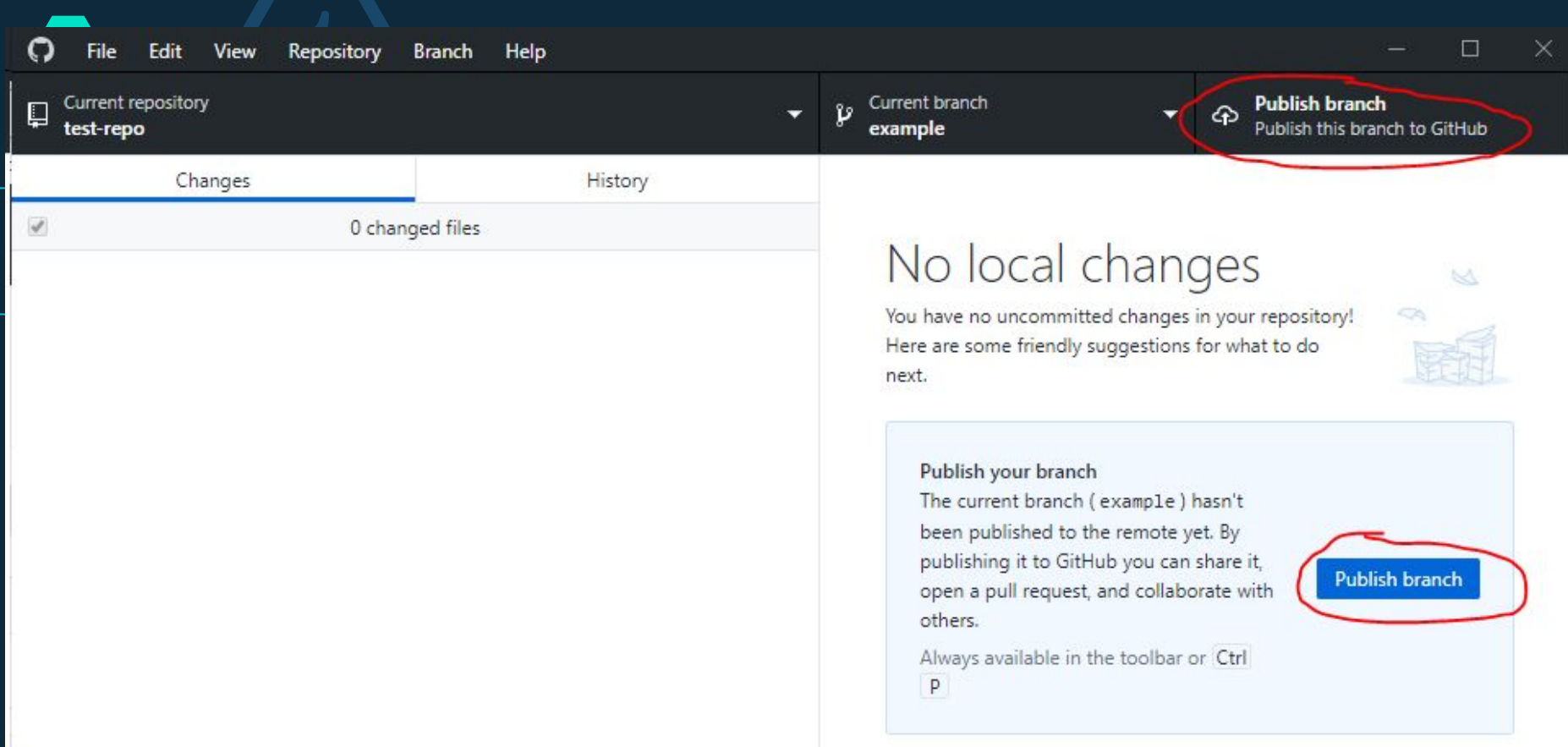
The currently checked out branch. Pick this if you need to build on work done in this branch.

Create branch

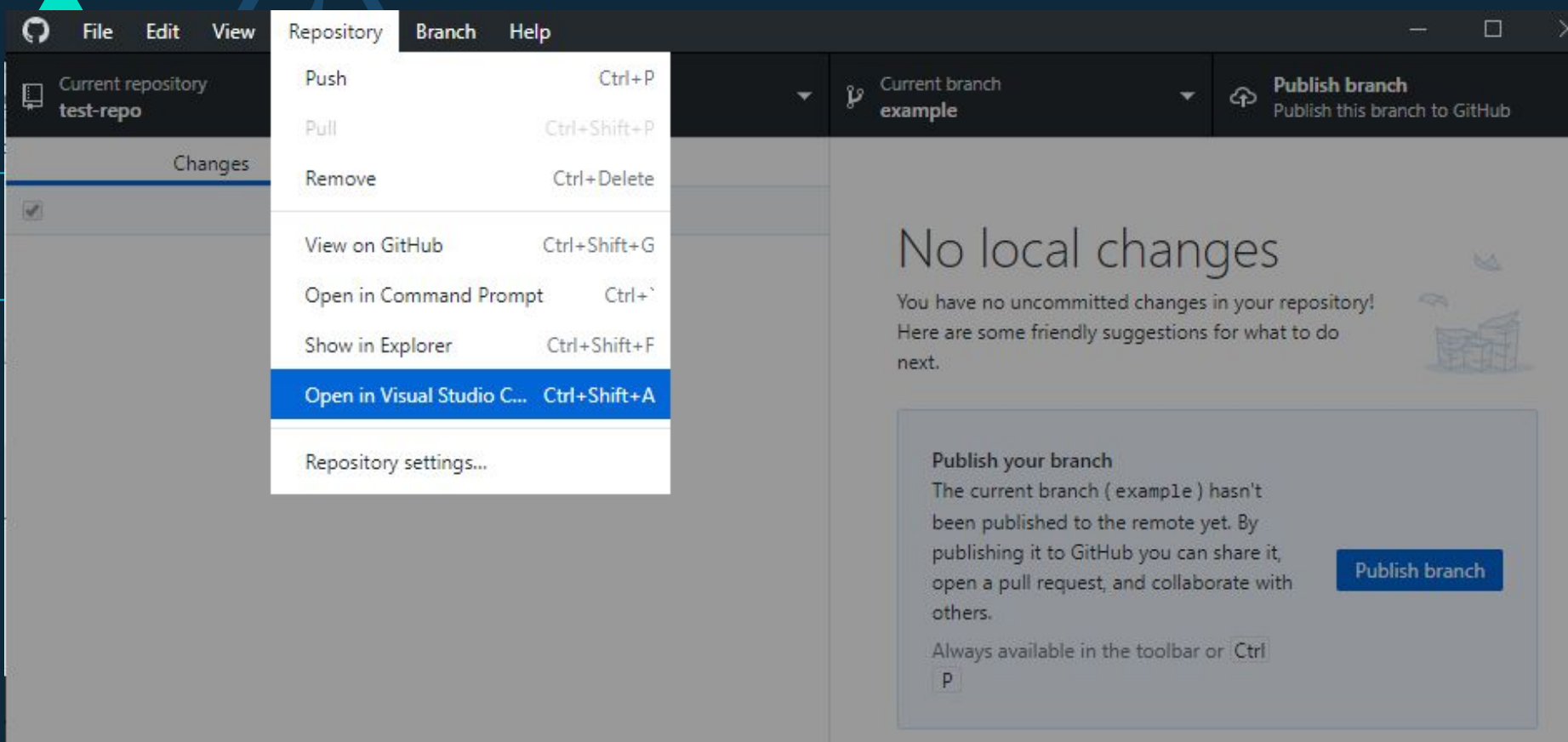
Cancel

Make sure the branch is based on “dev” and give it a name. Then hit “Create branch”.



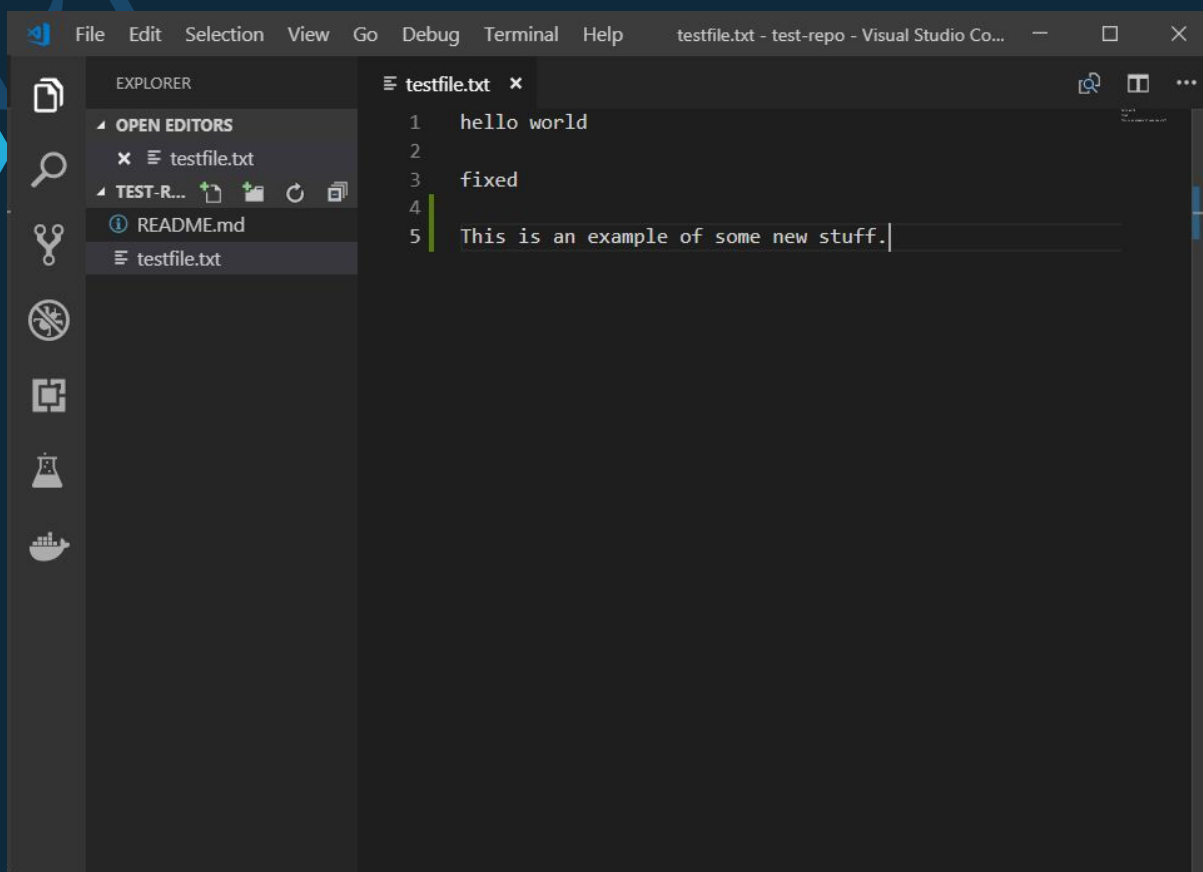


Publish your branch to the repo.
If permission is denied, inform a CO.

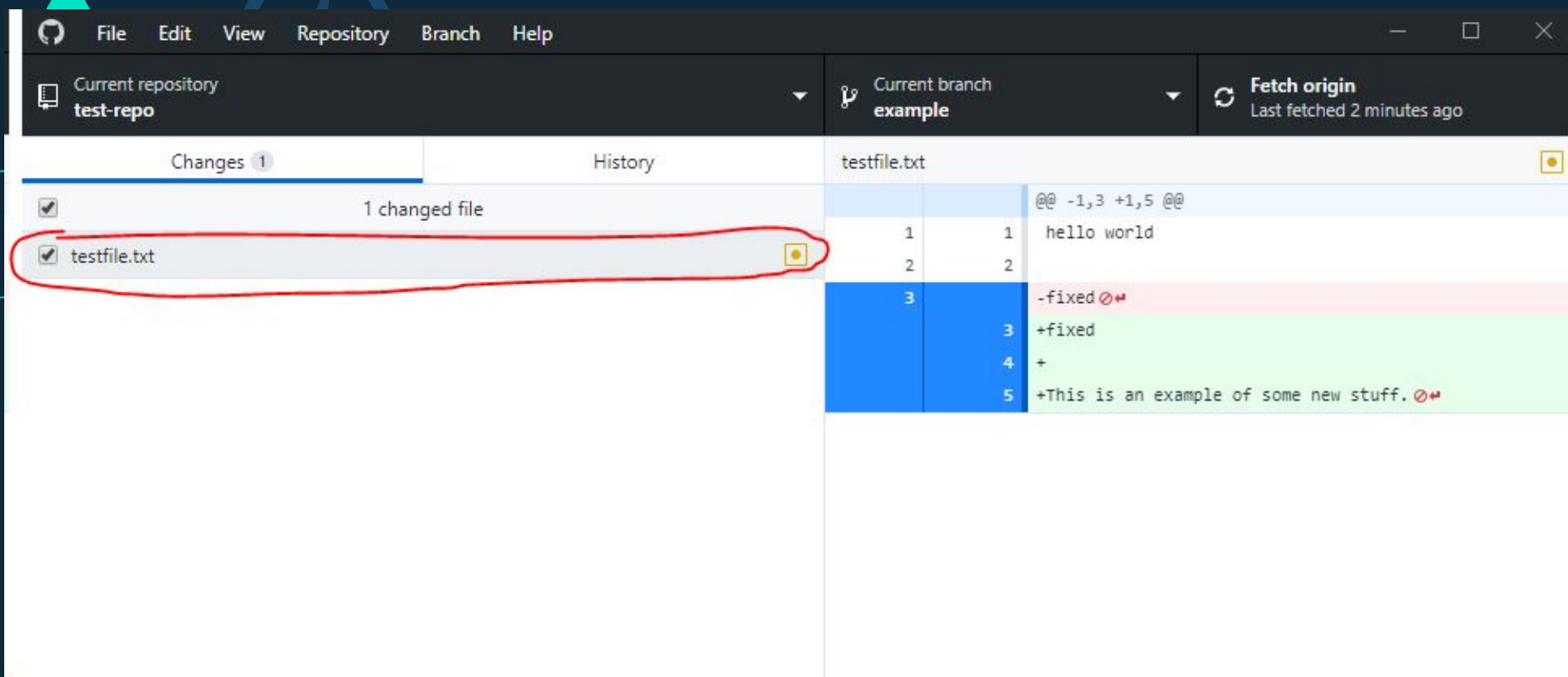


Open the project in your IDE.


You can change between Atom and VSCode in File >> Options >> Advanced >> External Editor



Make your changes. This includes code, unit tests, documentation, etc.



Back in GitHub Desktop, make sure only the appropriate changes are selected.
Green means new file, yellow means modified file, red means deleted file.



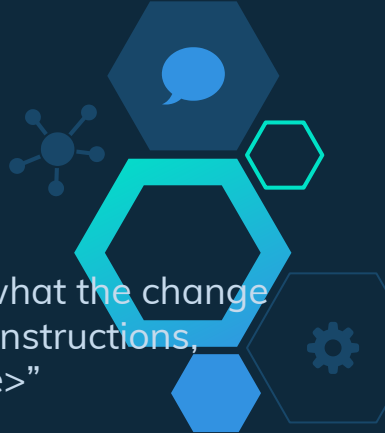
Updated testfile

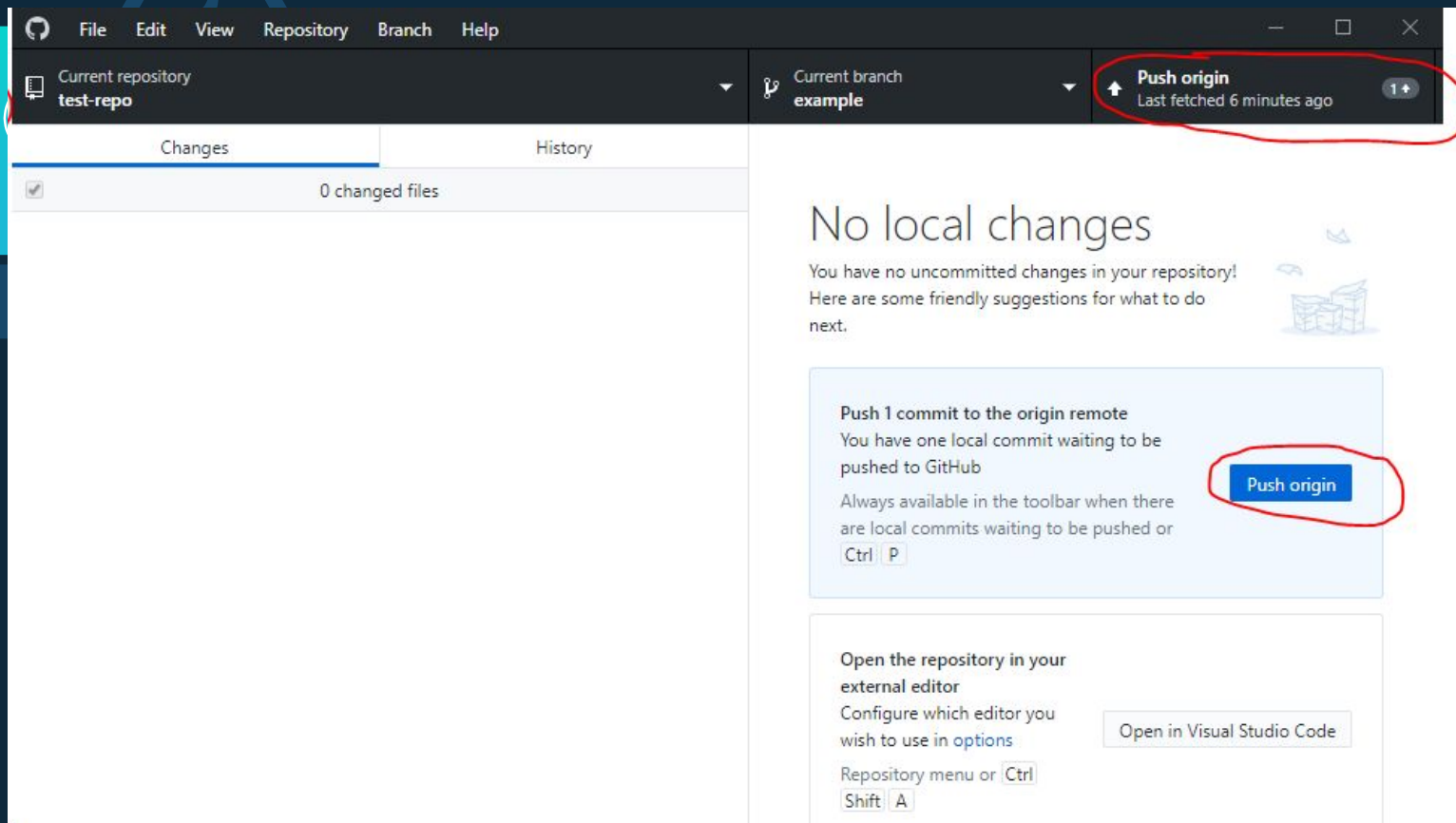
I added a line to show an example of developer procedures|

⧻

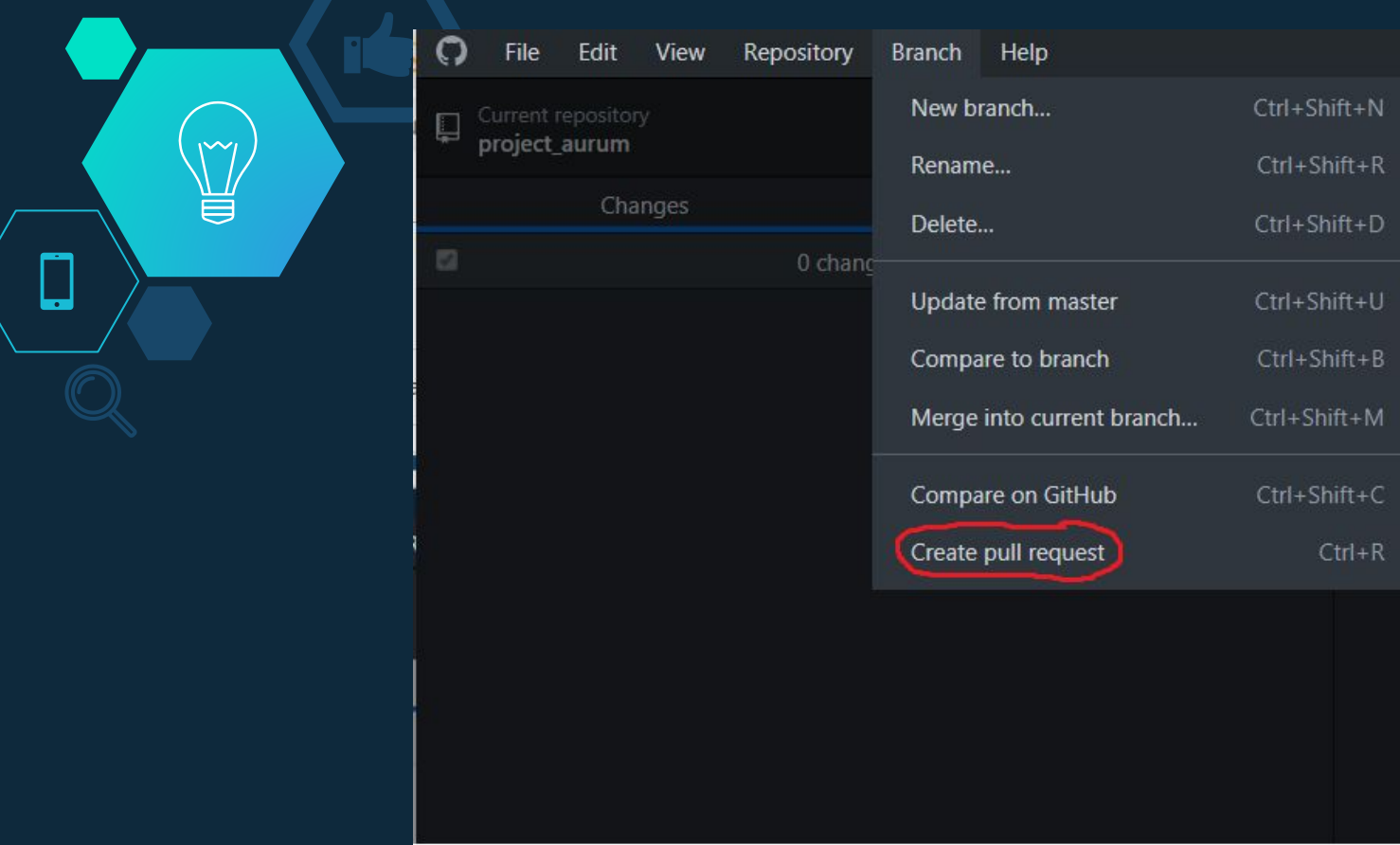
Commit to **example**

Write your commit message in the bottom left hand corner. Include a brief title of what the change is about. In your description, reference which issue you're completing and any instructions, problems, etc. When you're done, hit "Commit to <your_branch_name>"





Push the changes to your branch.



Open the Branch tab and select “create pull request”. This will open up your browser.

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: **dev** ← compare: **example** ✓ **Able to merge.** These branches can be automatically merged.

Choose a base branch

Branch, tag, commit, or history marker

- ✓ dev
- example
- master

AA B i “ < > 🔗 ⋮ ⋮ ⋮ @ 🚩 ↶

per procedures.

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

📄 Styling with Markdown is supported

Create Pull Request

Make sure that the base branch selected is “dev”. Make sure the compare branch is your branch.

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: dev



compare: example

✓ **Able to merge.** These branches can be automatically merged.



Updated testfile

Write

Preview

AA B i



I added a line to show an example of developer procedures.

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

Styling with Markdown is supported

Create Pull Request



Hit “Create Pull Request”. This will take you to the Pull Request’s page.

Updated testfile #3

 **Open** kstola2 wants to merge 1 commit into `dev` from `example`

 Conversation 0

 Commits 1

 Checks 0

 Files changed 1



kstola2 commented 9 minutes ago

Member



I added a line to show an example of developer procedures.



Updated testfile ...

76aa89f



bashbashbash requested changes a minute ago

[View changes](#)

bashbashbash left a comment

Member



this isn't good enough

Add more commits by pushing to the `example` branch on `SIGBlockchain/test-repo`.



Changes requested

[Hide all reviewers](#)

1 review requesting changes by reviewers with write access. [Learn more](#).



bashbashbash requested changes

[See review](#)

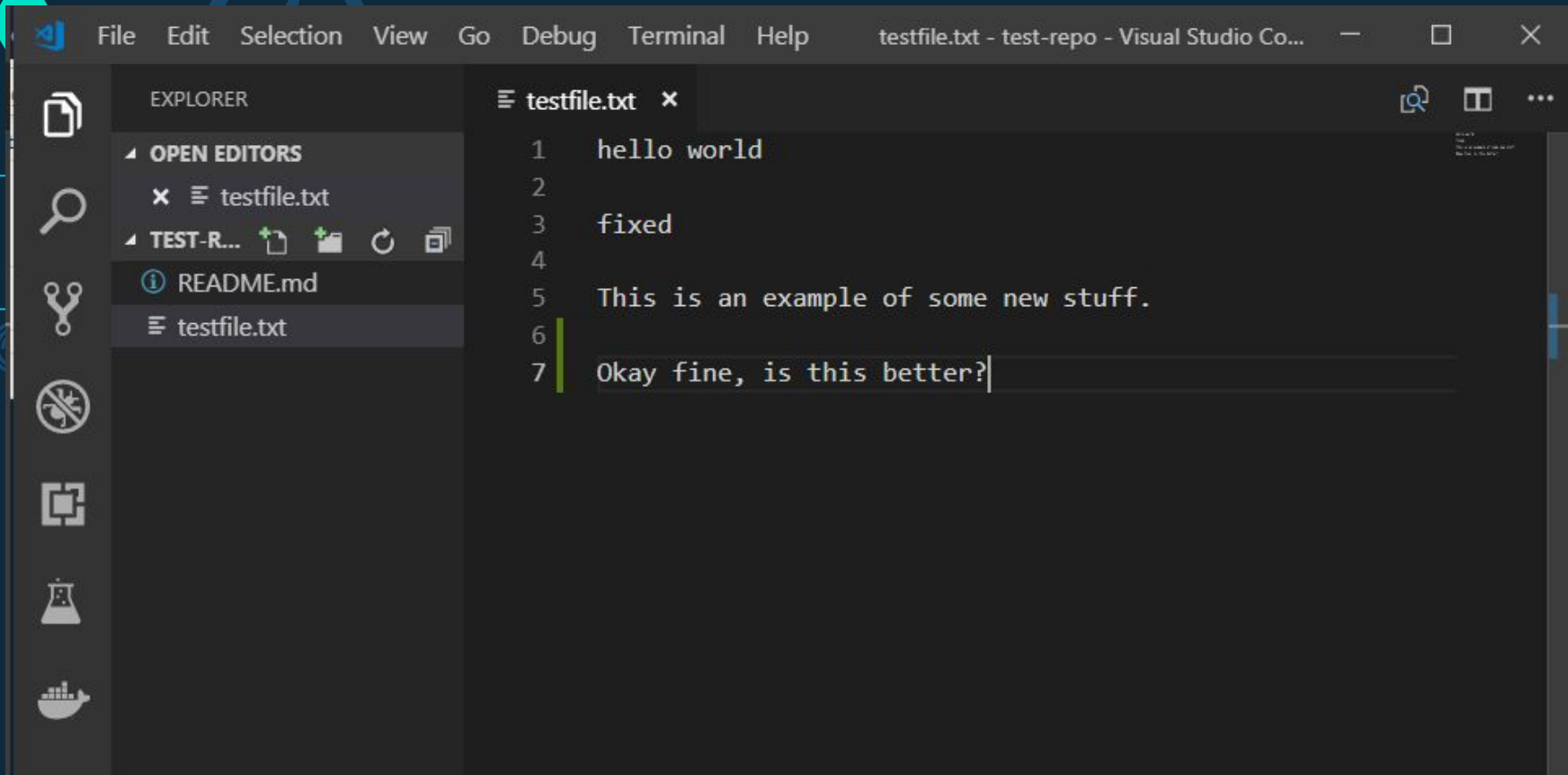
[Dismiss review](#)



Merging is blocked

Merging can be performed automatically once the requested changes are addressed.

Occasionally, a CO will ask that you make some changes to your code if they feel they can't approve the changes yet.




Make the changes, commit and push them once again to your branch.
No need to make a new Pull request; your original pull request will update with your new changes.




Updated testfile #3


[Open](#) kstola2 wants to merge 2 commits into `dev` from `example`


Conversation 0 Commits 2 Checks 0 Files changed 1

 kstola2 commented 13 minutes ago Member [+ @](#) [...](#)


I added a line to show an example of developer procedures.



 Updated testfile [...](#) 76aa89f

 bashbashbash requested changes 5 minutes ago View changes


 bashbashbash left a comment Member [+ @](#) [...](#)




this isn't good enough

 Fixed it a0662a9

  bashbashbash approved these changes just now View changes

Add more commits by pushing to the `example` branch on SIGBlockchain/test-repo.



-  **Changes approved** Show all reviewers
1 approving review by reviewers with write access. [Learn more.](#)
-  **Continuous integration has not been set up**
[Several apps](#) are available to automatically catch bugs and enforce style.
-  **This branch has no conflicts with the base branch**
Merging can be performed automatically.

Merge pull request [You can also open this in GitHub Desktop or view command line instructions.](#)

You should now be able to Merge your pull request.
Go ahead and hit that sweet green button.



Add more commits by pushing to the **example** branch on SIGBlockchain/test-repo.



Merge pull request #3 from SIGBlockchain/example

Updated testfile

Confirm merge

Cancel

Confirm the merge.

Updated testfile #3

 **Merged** kstola2 merged 2 commits into `dev` from `example` just now

 Conversation 0

 Commits 2

 Checks 0

 Files changed 1



kstola2 commented 16 minutes ago

Member



I added a line to show an example of developer procedures.



Updated testfile ...

76aa89f



bashbashbash requested changes 8 minutes ago

[View changes](#)

bashbashbash left a comment

Member



this isn't good enough



Fixed it

a0662a9



bashbashbash approved these changes 3 minutes ago

[View changes](#)



kstola2 merged commit **546b158** into `dev` just now

[Revert](#)

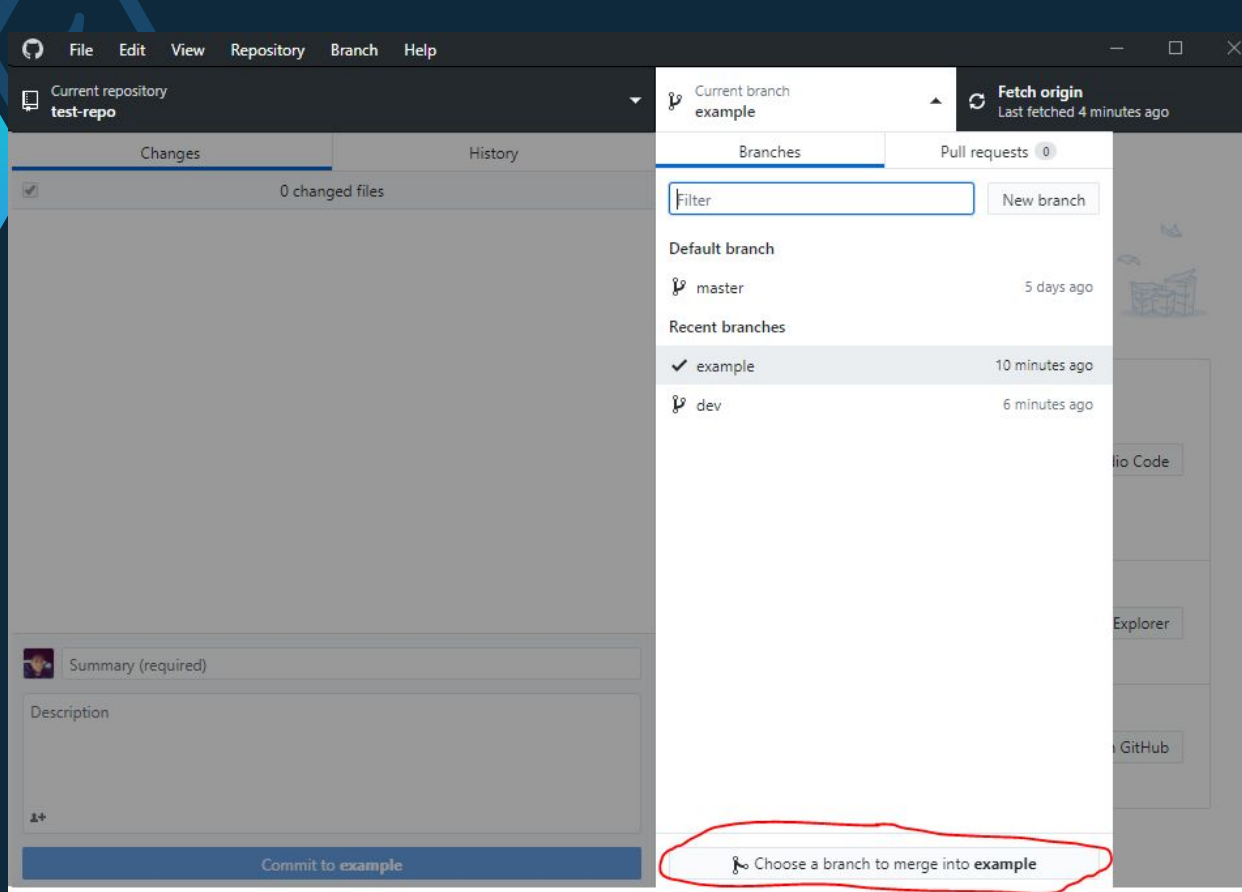


Pull request successfully merged and closed

You're all set—the `example` branch can be safely deleted.

[Delete branch](#)

At this point you can delete your branch.



In the case you choose to keep your branch for future issues, make sure you merge “dev” into your branch each time before you start new changes. There is a small risk of merge conflicts with your branch.



Branches are cheap and deleting/creating them is a lot cleaner. But both methods work fine.