

TWIST

GitHub
Branch e Merge



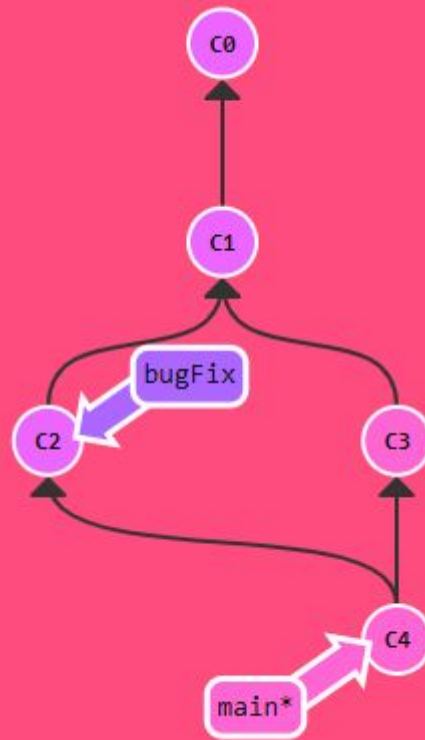
Imagine que você tem uma parte do projeto pronta, mas gostaria de testar uma nova funcionalidade sem alterar o que já funciona



Elaborado por: Mark Callouts

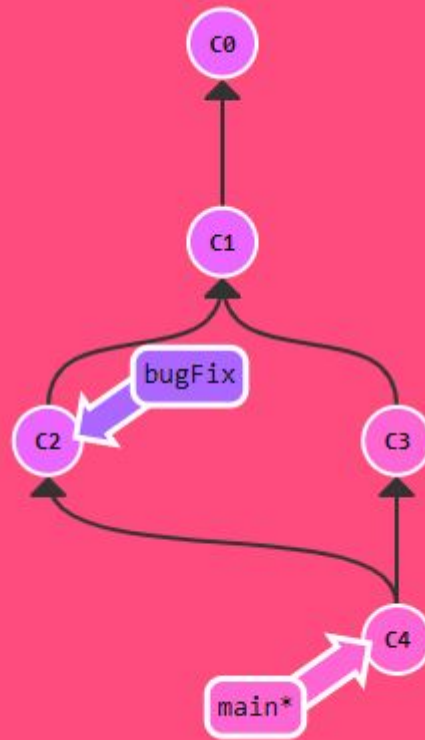
Branch

- Branch = Ramificação
- Quando cria um repositório é criado um Branch padrão chamado "Main"
- Pode criar uma versão do conteúdo do repositório, editar, testar.
- Ao termino podemos juntar as versões alterada e original.



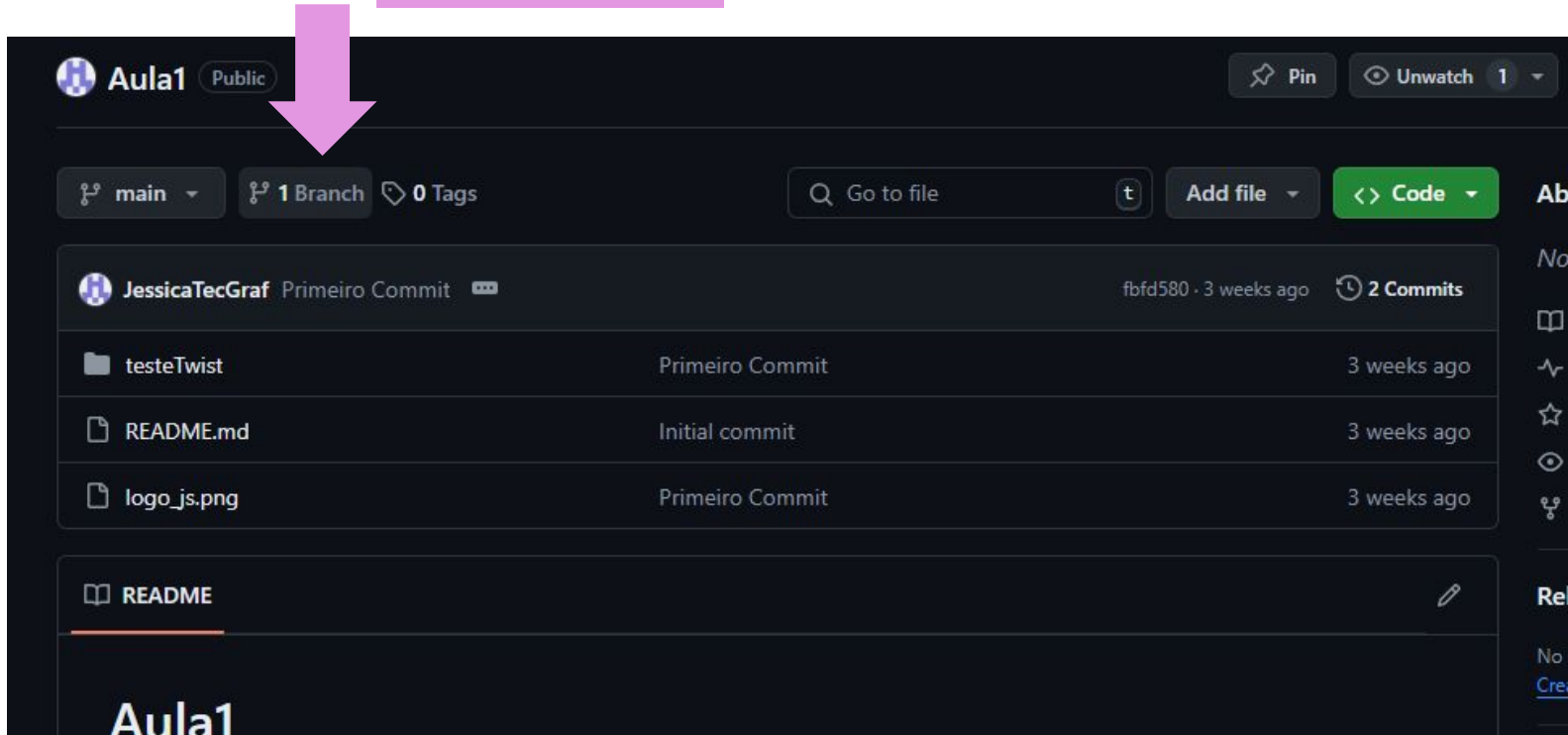
Branch

- O **ideal** é sempre editar no Branch de trabalho, no Main deixar **somente** a versão estável do projeto
- Você pode ter quantos branches quiser, mas tome cuidado, quanto mais ramificações, maior será a complexidade de junção.



Criar um Branch

Clique no botão
“Branch”



The screenshot shows the GitHub interface for a repository named 'Aula1'. At the top, the repository name 'Aula1' is displayed with a 'Public' badge. Below this, there are buttons for 'main', '1 Branch', and '0 Tags'. A pink arrow points to the '1 Branch' button. To the right of these buttons is a search bar labeled 'Go to file' and two buttons: 'Add file' and 'Code'. Below the repository header, there is a commit history section. The first commit is by 'JessicaTecGraf' with the message 'Primeiro Commit' and a commit hash 'fbfd580' from '3 weeks ago'. Below the commit history, there is a file list section. The first file is 'testeTwist', followed by 'README.md' and 'logo_js.png'. At the bottom of the screenshot, the word 'Aula1' is visible in a large font.

File	Commit Message	Time
testeTwist	Primeiro Commit	3 weeks ago
README.md	Initial commit	3 weeks ago
logo_js.png	Primeiro Commit	3 weeks ago




Criar um Branch

Branches

Overview Yours Active Stale All

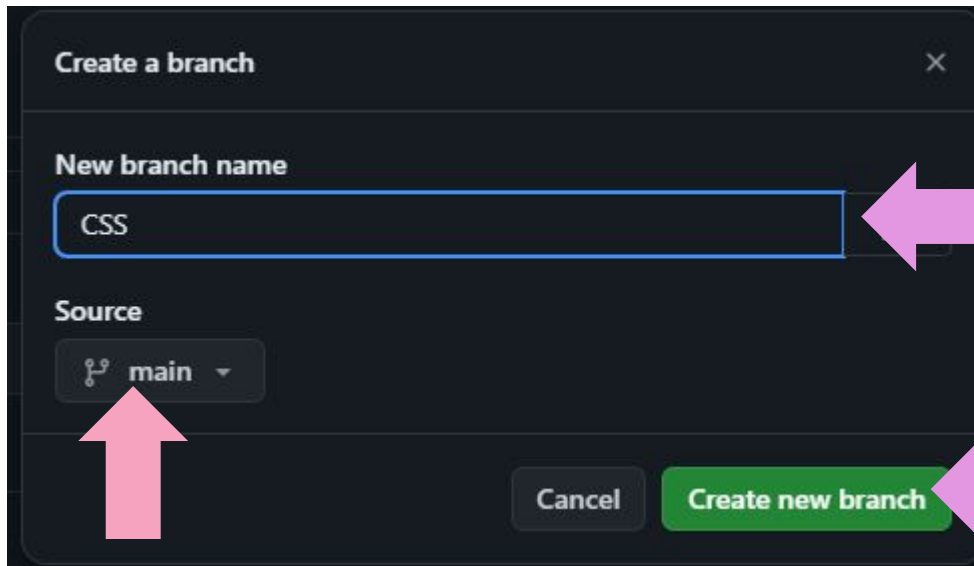
Q Search branches...

Default

Branch	Updated	Check status	Behind Ahead	Pull request
main 	 3 weeks ago		Default	 ...

Clique no botão
“New Branch”

Criar um Branch



Create a branch

New branch name

CSS

Source

main

Cancel Create new branch

Nomear o Branch
tendo algum tipo
de relação com o
assunto editado

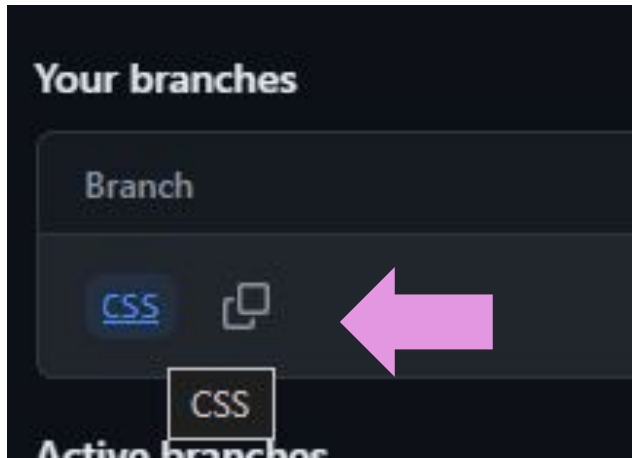
Clique no botão
“Create new
Branch”

Aqui estamos
indicando a origem da
ramificação

Lista de Branchs

Q Search branches...					
Default					
Branch		Updated	Check status	Behind Ahead	Pull request
main	←	3 weeks ago		Default	
Your branches					
Branch		Updated	Check status	Behind Ahead	Pull request
css	←	now		0 0	
Active branches					
Branch		Updated	Check status	Behind Ahead	Pull request
css	←	now		0 0	

Acessando o novo Branch

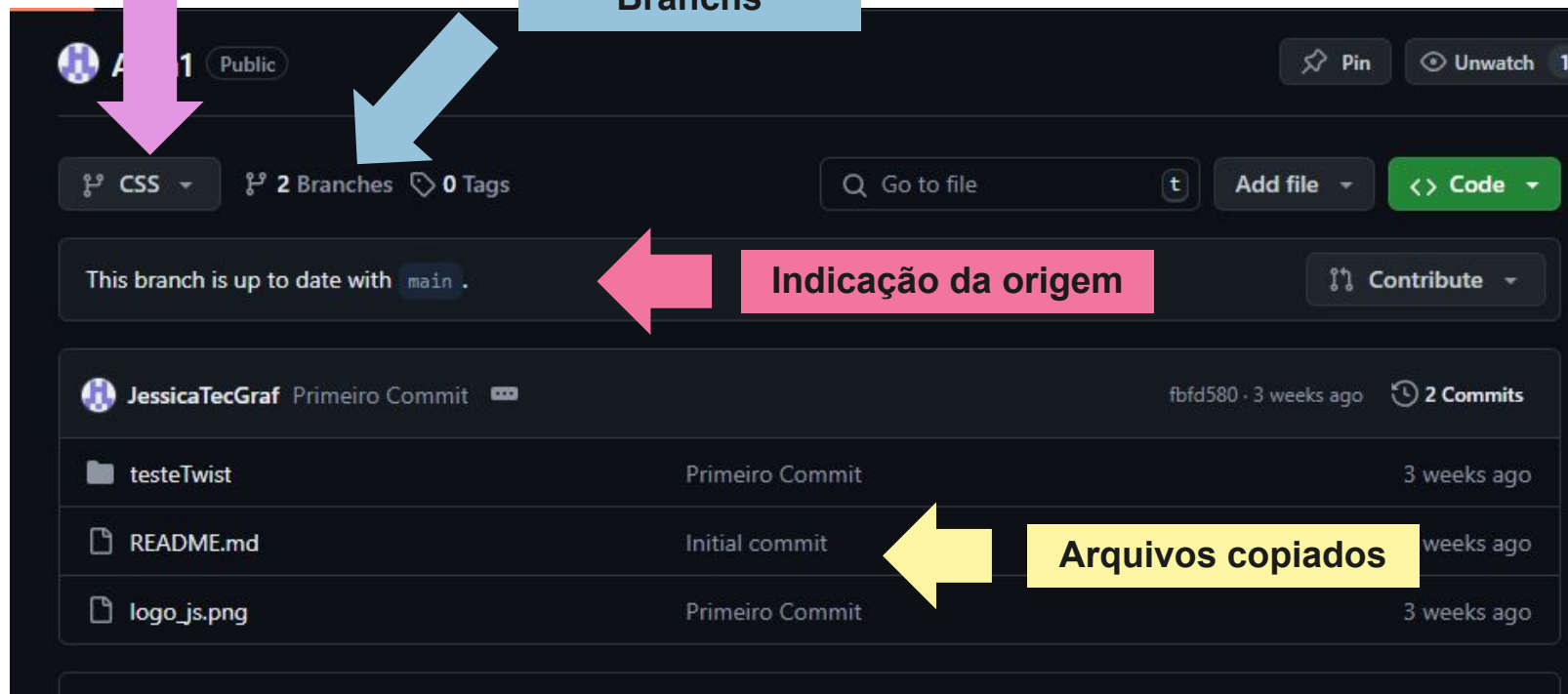


Clique no link
contendo o nome
do Branch

Acessando o novo Branch

Nome do Branch
atual

Número atual de
Branches



The screenshot shows a GitHub repository interface. A pink arrow points from the 'Nome do Branch atual' label to the 'CSS' branch selector. A blue arrow points from the 'Número atual de Branches' label to the '2 Branches' text. A pink arrow points from the 'Indicação da origem' label to the 'main' branch in the status bar. A yellow arrow points from the 'Arquivos copiados' label to the 'Initial commit' text in the file list.

Public

CSS 2 Branches 0 Tags

Go to file t Add file <> Code

This branch is up to date with main . Contribute

JessicaTecGraf Primeiro Commit fbfd580 · 3 weeks ago 2 Commits

testeTwist	Primeiro Commit	3 weeks ago
README.md	Initial commit	weeks ago
logo_js.png	Primeiro Commit	3 weeks ago

- Agora podemos salvar as alterações dos testes com segurança.
- Todos os commits relacionados a esse teste deve ser neste Branch.

Alterações no Branch


JessicaTecGraf Primeiro Commit		fbfd580 · 3 weeks ago	2 Commits
testeTwist	Primeiro Commit	3 weeks ago	
README.md	Initial commit	3 weeks ago	
logo_js.png	Primeiro Commit	3 weeks ago	




Entrar na Pasta que
deseja alterar
(carregar novos
arquivos)

Alterações no Branch


Clique no botão “Add file”





Aula1 / testeTwist / 

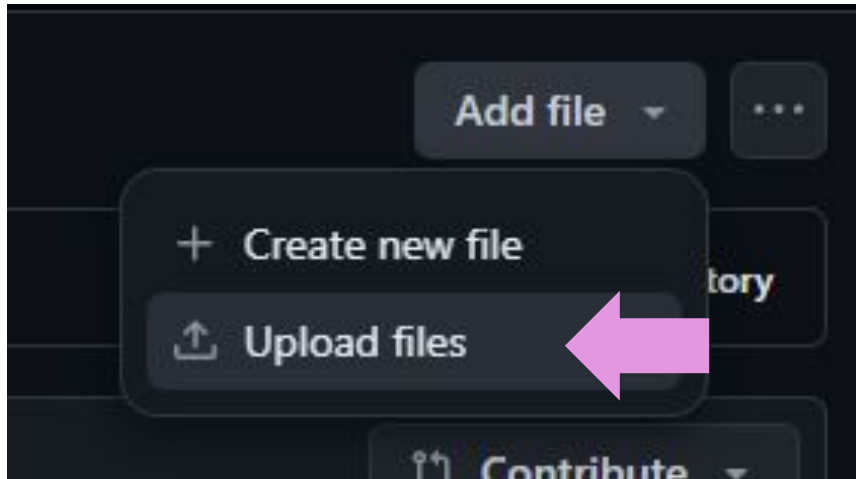
 **JessicaTecGraf** Primeiro Commit  fbfd580 · 3 weeks ago  History

This branch is up to date with `main`.

 **Contribute** ▾

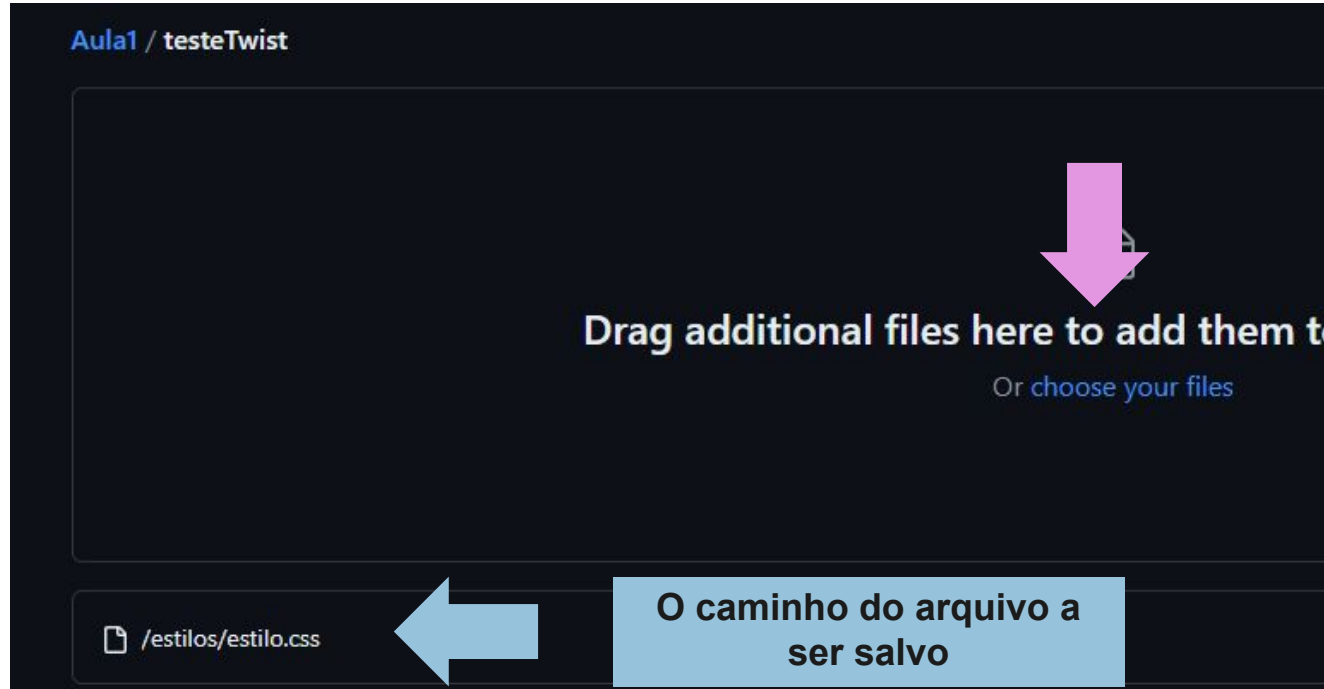
Name	Last commit message	Last commit date
 ..		
 index.html	Primeiro Commit	3 weeks ago

Alterações no Branch



**Clique no botão
“Upload files”**

Alterações no Branch



Selecione os arquivos, ou arraste a pasta com toda a alteração

O caminho do arquivo a ser salvo

Alterações no Branch

/estilos/estilo.css



Commit changes

inclusao do arquivo CSS

Add an optional extended description...

☒ Commit directly to the **CSS** branch.

☐ Create a new branch for this commit and start a pull request. [Learn more about pull requests.](#)


Commit changes Cancel


Rotulo (titulo) da alteração


Identificação do Branch a ser salvo o commit

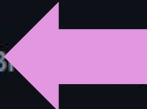
Clique no botão "Commit changes"

Alterações no Branch


 **CSS** had recent pushes 5 seconds ago Compare & pull request

 CSS


 2 Branches



Local


Go to file 



Add file




 Code

This branch is 1 commit ahead of `main`.

Alteração Realizada

 Contribute

 **JessicaTecGraf** inclusao do arquivo CSS 650dbca · now  3 Commits

 testeTwist	inclusao do arquivo CSS	now
 README.md	Initial commit	3 weeks ago
 logo_js.png	Primeiro Commit	3 weeks ago

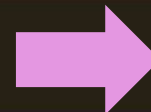
Fizemos a alteração, e agora???

- Realizamos todas as alterações necessárias;
- Testamos e temos certeza que está tudo certo
- Agora temos que juntar as alterações na versão oficial (Branch Main).
- Essa junção chama-se **Merge**

- Verificação de conflitos
 - Um ou mais arquivos com partes diferentes entre os repositórios de origem e destino.
- Quando necessário você deverá resolver os conflitos, antes de fundir as versões do projeto.

Merge

Primeiro Precisamos verificar se não tem conflito de versão,
Clique no botão “Compara & pull request”



Compare & pull request

CSS

2 Branches 0 Tags

Go to file

Add file

<> Code

This branch is 1 commit ahead of main .

Contribute

JessicaTecGraf inclusao do arquivo CSS

650dbca · now 3 Commits

testeTwist	inclusao do arquivo CSS	now
README.md	Initial commit	3 weeks ago
logo_js.png	Primeiro Commit	3 weeks ago

Merge

Autorização
Merge

Destino

Origem


Título do
merge

Descrição

Open a merge request

Create a new merge request by comparing changes across branches. If you need to, you can also [compare across forks](#). [Learn more about diff comparison](#)

base: main ← compare: CSS ✓ **Able to merge.** These branches can be automatically merged.

 **Add a title**

Inclusao do arquivo CSS

Add a description

Write Preview

H B I ≡ <> 🔗 ½≡ :≡ 9≡ | 🔗 @ ↗ ↶ □

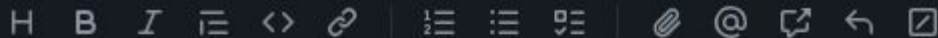
Add your description here...

Merge


Add a description


Write

Preview



inclusão do arquivo CSS e Atualização do HTML ao projeto

 Markdown is supported



 Paste, drop, or click to add files

Clique no botão
“Create pull request”

Create pull request





inclusao do arquivo CSS #1

 Open JessicaTecGraf wants to merge 1 commit into `main` from `CSS` 

Desça a barra de rolagem

 Conversation 0

 Commits 1

 Checks 0

 Files changed 1





JessicaTecGraf commented now

Owner ...

inclusão do arquivo CSS e Atualização do HTML ao projeto



  inclusao do arquivo CSS

Verified

650dbca

Add more commits by pushing to the `CSS` branch on [JessicaTecGraf/Aula1](#).

Merge

Add more commits by pushing to the css branch on JessicaTecGraf/Aula1.



Require approval from specific reviewers before merging

[Rulesets](#) ensure specific people approve pull requests before they're merged.

Add rule



Continuous integration has not been set up

[GitHub Actions](#) and [several other apps](#) can be used 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](#).



Add a comment

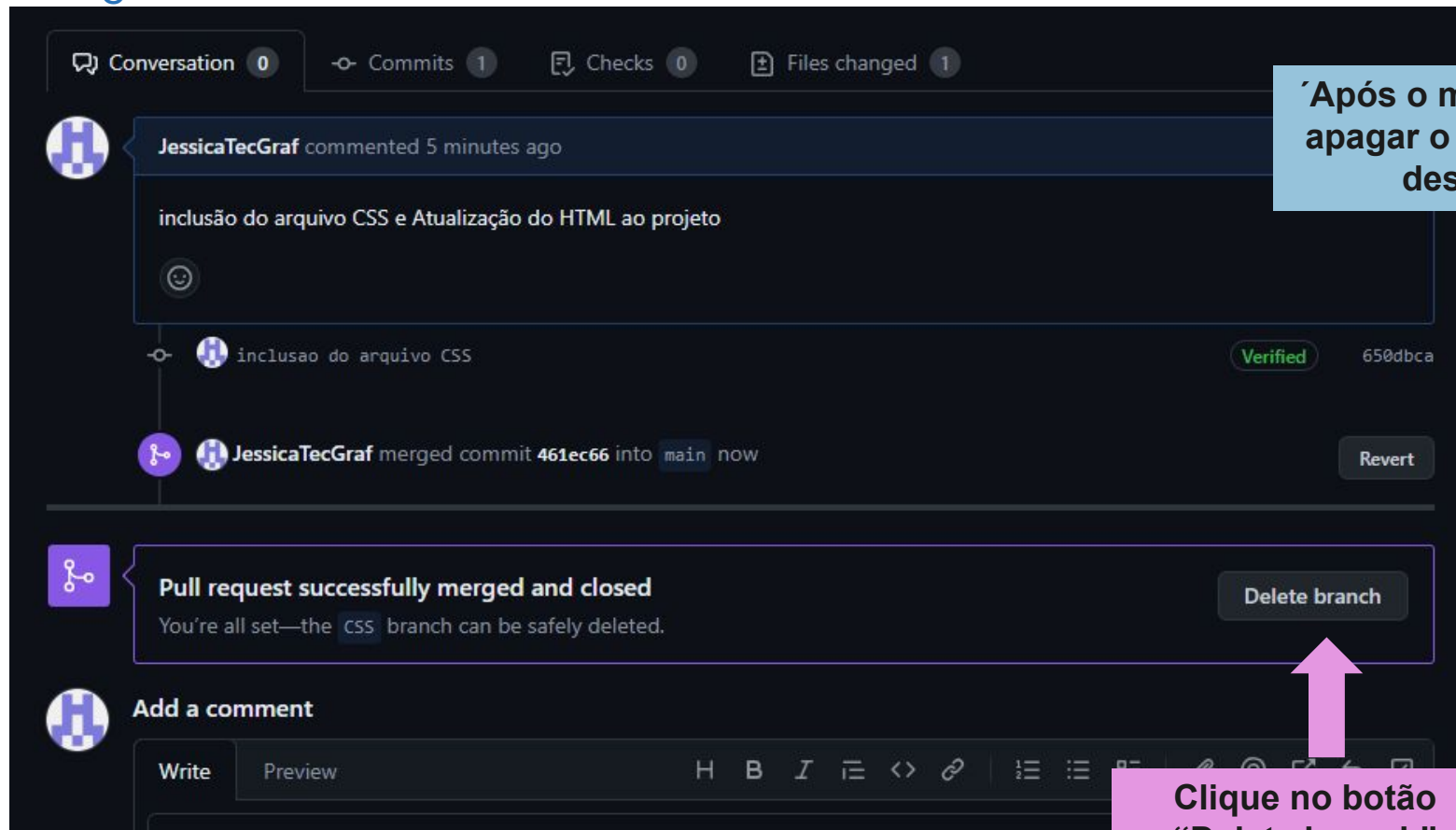
Clique no botão "Merge pull request"

Merge



Clique no botão
"Confirm merge"

Merge



Conversation 0 Commits 1 Checks 0 Files changed 1

JessicaTecGraf commented 5 minutes ago

inclusão do arquivo CSS e Atualização do HTML ao projeto














inclusao do arquivo CSS Verified 650dbca

JessicaTecGraf merged commit 461ec66 into main now Revert

Pull request successfully merged and closed Delete branch

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

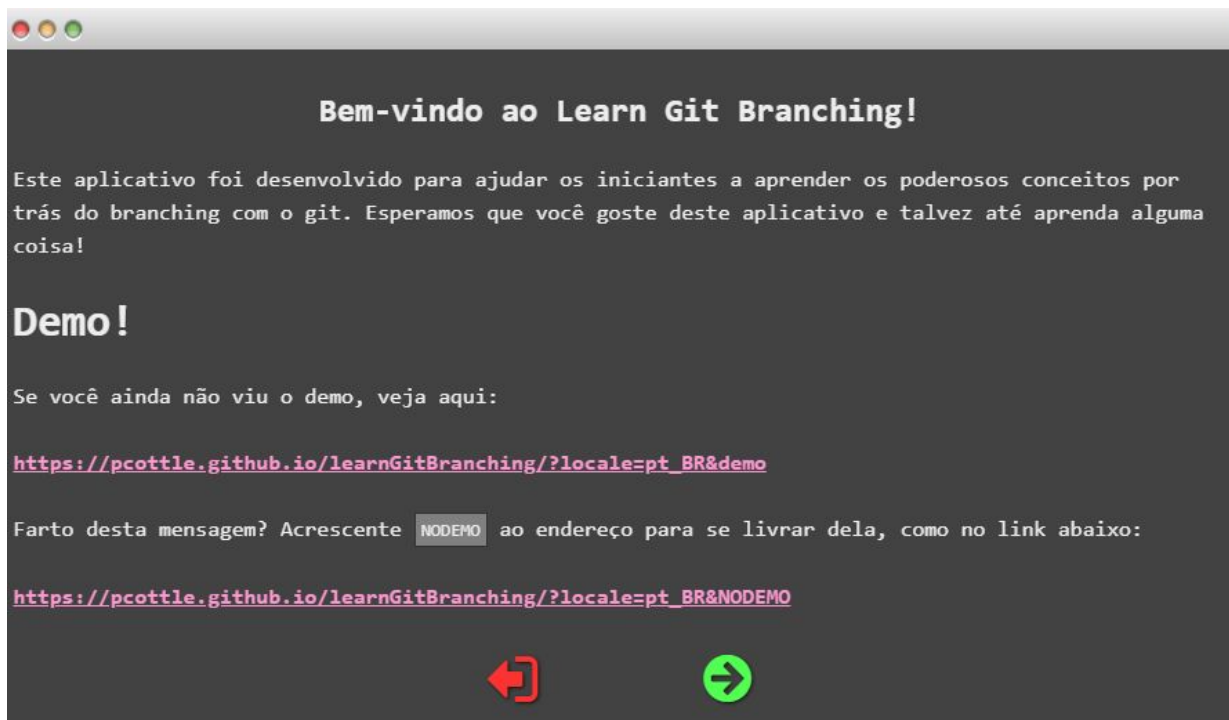
Add a comment

Write Preview H B I             

‘Após o merge pode apagar o Branch se desejar.

Clique no botão “Delete branch”

Jogo para treinar conceitos e comandos do GitHub



https://learngitbranching.js.org/?locale=pt_BR

Referências

DIO. o que é o branch para iniciantes. 18 Aug. 2023. Available from: <https://www.dio.me/articles/o-que-e-o-branch-para-iniciantes>. Accessed: 9 July 2024.

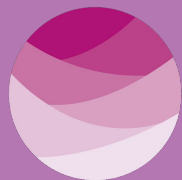
GITHUB: Let's build from here. Available from: <https://github.com>. Accessed: 9 July 2024.

GIT - O básico de Ramificação (Branch) e Mesclagem (Merge). Available from: <https://git-scm.com/book/pt-br/v2/Branches-no-Git-O-básico-de-Ramificação-Branch-e-Mesclagem-Merge>. Accessed: 9 July 2024.

SOBRE merges de pull request - GitHub Docs. Available from: <https://docs.github.com/pt/pull-requests/collaborating-with-pull-requests/incorporating-changes-from-a-pull-request/about-pull-request-merges>. Accessed: 9 July 2024.

SOBRE ramificações - GitHub Docs. Available from: <https://docs.github.com/pt/pull-requests/collaborating-with-pull-requests/proposing-changes-to-your-work-with-pull-requests/about-branches>. Accessed: 9 July 2024.

VELTRONI, Luiz Eduardo Prado. Conceito de Merge — Git e Github. 13 Jan. 2022. Available from: <https://dev.to/eduardoopv/conceito-de-merge-git-e-github-4j0g>. Accessed: 9 July 2024.



TWIST



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