

# **Curso de Git/GitHub - Laboratório Agadê (UFPE)**

Ryan Alan da Cunha

## Tecnologias necessárias



**git**



**Desktop**



**GitHub**



**Visual Studio Code**

# O que é um Sistema de Controle de Versão?



Criar coisas



Correção  
ortográfica



Correção  
gramatical



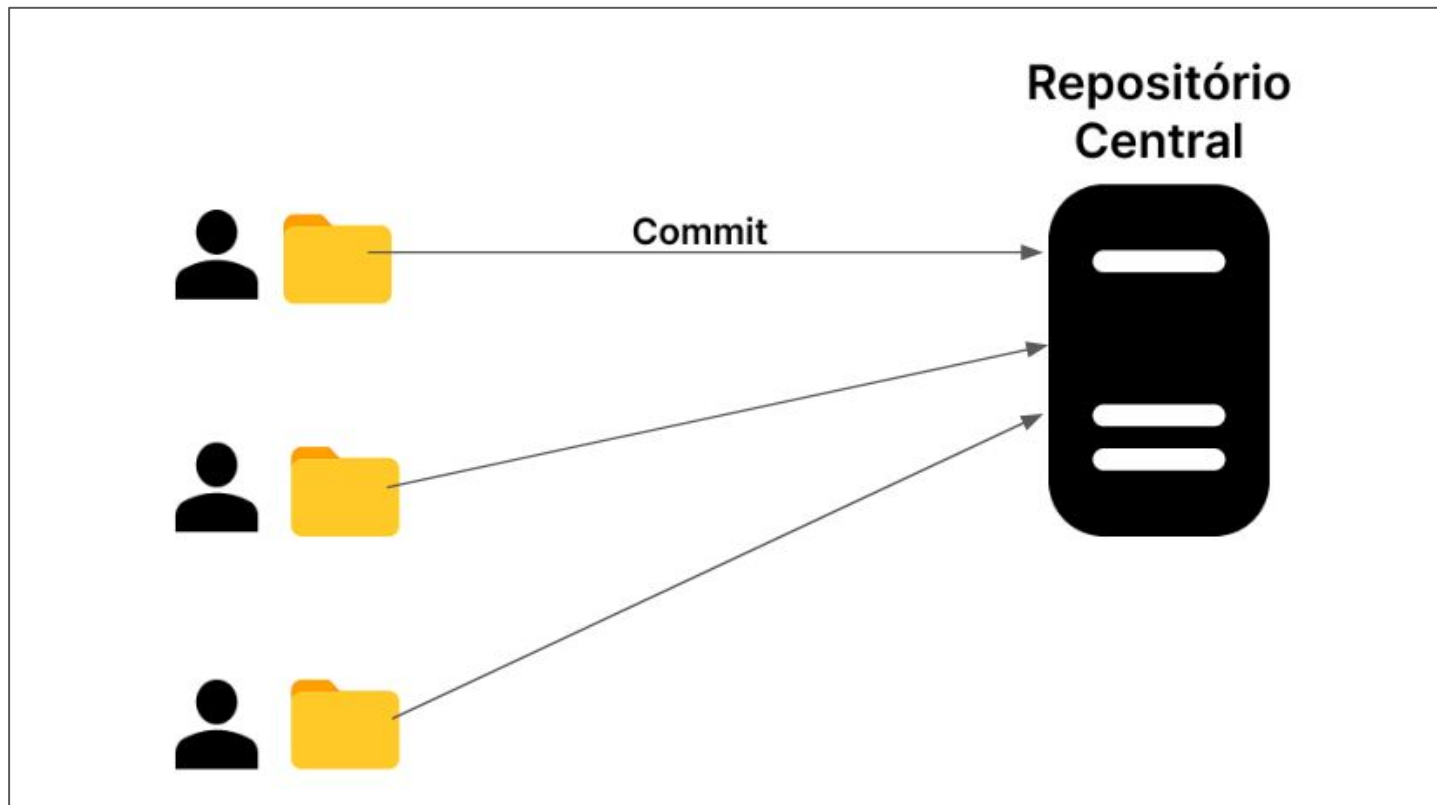
Alterar cor



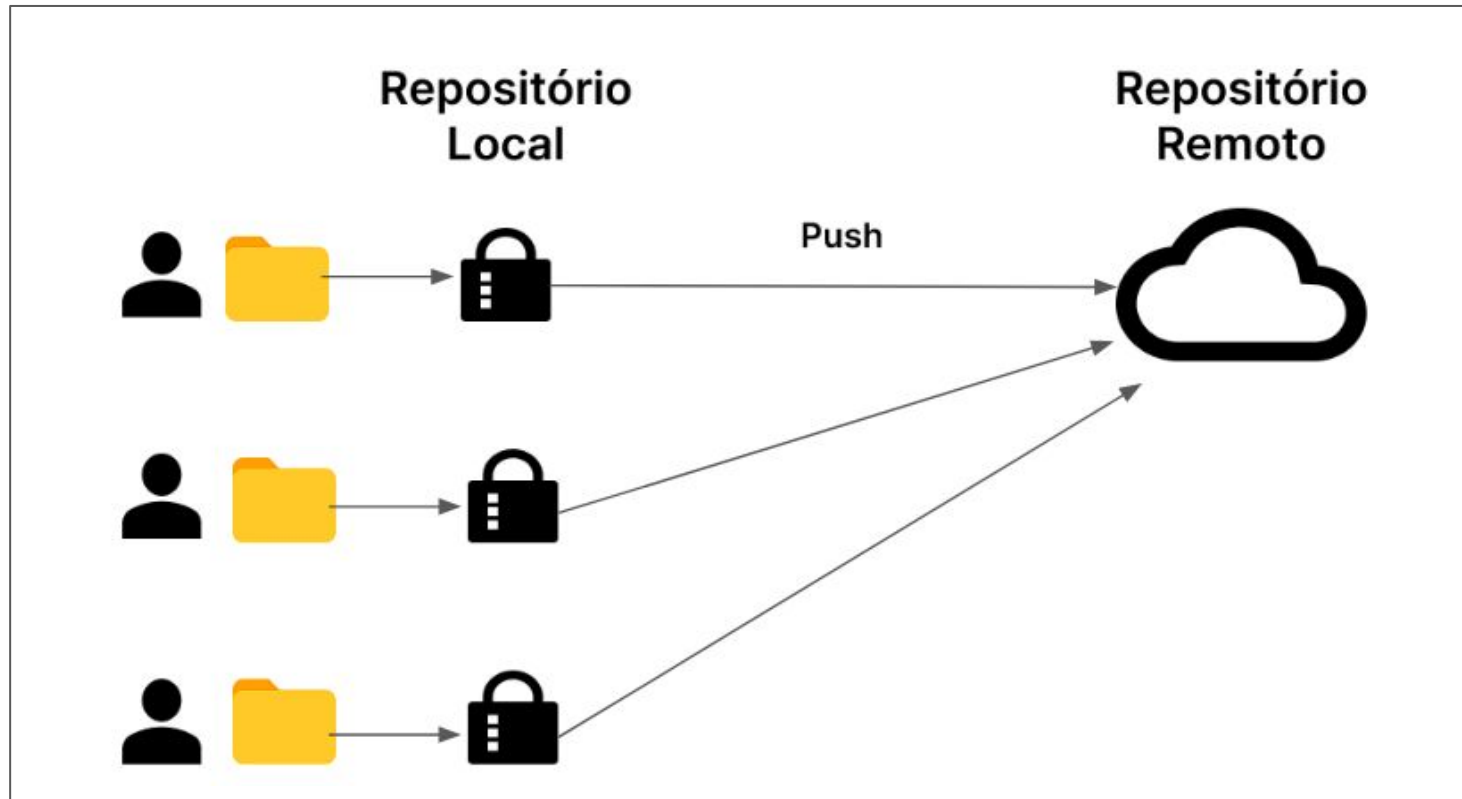
Descrição  
do recurso

Tempo e Versões

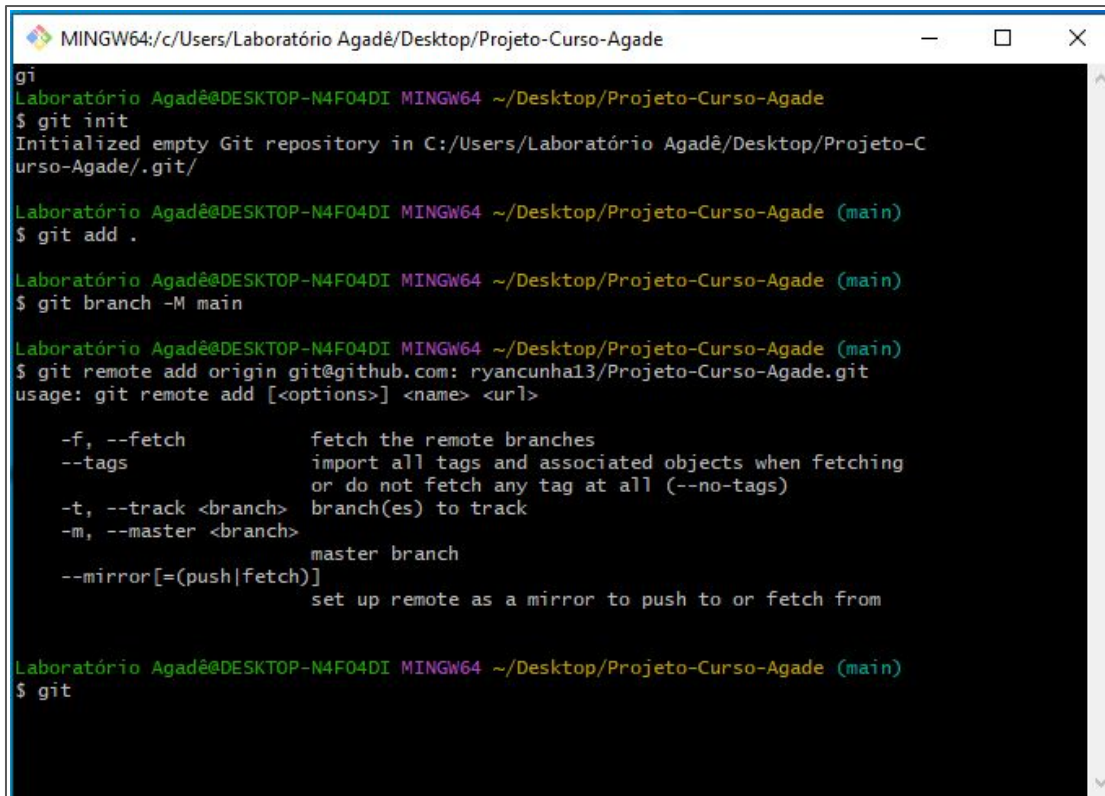
## Arquiteturas de Sistemas de Controle de Versão: Centralizado



## Arquiteturas de Sistemas de Controle de Versão: Distribuído



# O que é o Git?



```
MINGW64:/c/Users/Laboratório Agadê/Desktop/Projeto-Curso-Agade
git
Laboratório Agadê@DESKTOP-N4F04DI MINGW64 ~/Desktop/Projeto-Curso-Agade
$ git init
Initialized empty Git repository in C:/Users/Laboratório Agadê/Desktop/Projeto-Curso-Agade/.git/

Laboratório Agadê@DESKTOP-N4F04DI MINGW64 ~/Desktop/Projeto-Curso-Agade (main)
$ git add .

Laboratório Agadê@DESKTOP-N4F04DI MINGW64 ~/Desktop/Projeto-Curso-Agade (main)
$ git branch -M main

Laboratório Agadê@DESKTOP-N4F04DI MINGW64 ~/Desktop/Projeto-Curso-Agade (main)
$ git remote add origin git@github.com: ryancunha13/Projeto-Curso-Agade.git
usage: git remote add [<options>] <name> <url>

    -f, --fetch                fetch the remote branches
    --tags                    import all tags and associated objects when fetching
                              or do not fetch any tag at all (--no-tags)
    -t, --track <branch>     branch(es) to track
    -m, --master <branch>    master branch
    --mirror[=(push|fetch)]  set up remote as a mirror to push to or fetch from

Laboratório Agadê@DESKTOP-N4F04DI MINGW64 ~/Desktop/Projeto-Curso-Agade (main)
$ git
```

# O que é o GitHub?

Dashboard

Q

Type / to search

>

+

Top Repositories

New

Find a repository...

ryancunha13/projeto

Recent activity

When you take actions across GitHub, we'll provide links to that activity here.

For youBetaFollowing

Send feedbackFilter

<>Start writing code...

Start a new repository

A repository contains all of your project's files, revision history, and collaborator discussion.

ryancunha13 / name your new repository...

Public

Anyone on the internet can see this repository

Private

You choose who can see and commit to this repository

Create a new repository

Introduce yourself with a profile README

Latest changes

2 hours ago

Dependency Graph, Dependabot Alerts, and...

4 days ago

GitHub Actions – Securing OpenID Connect (OIDC) token...

4 days ago

GitHub Issues & Projects – June 15th update

4 days ago

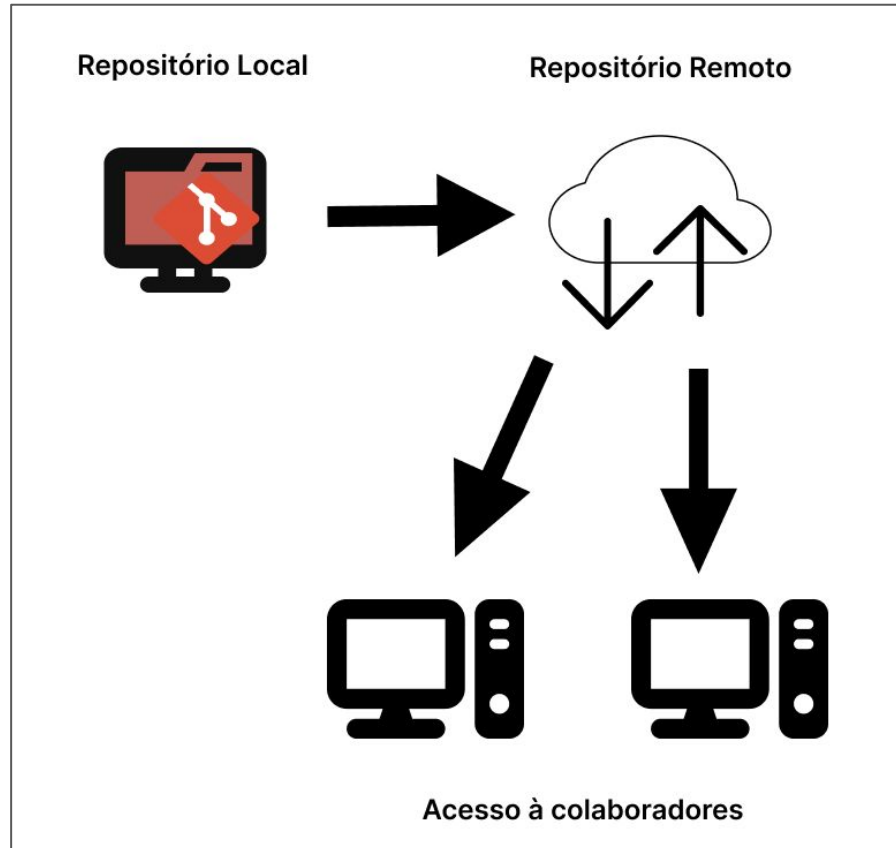
Risk and coverage views on the Code Security tab for...

View changelog →

Ativar o Windows

Acesse Configurações para ativar o Windows.

## Para que serve um repositório compartilhado





# Funcionamento do Git/GitHub

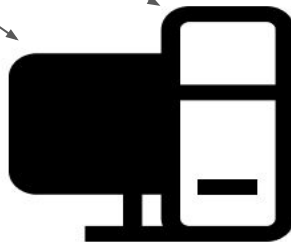
Repositório remoto



Clone

Pull

Push



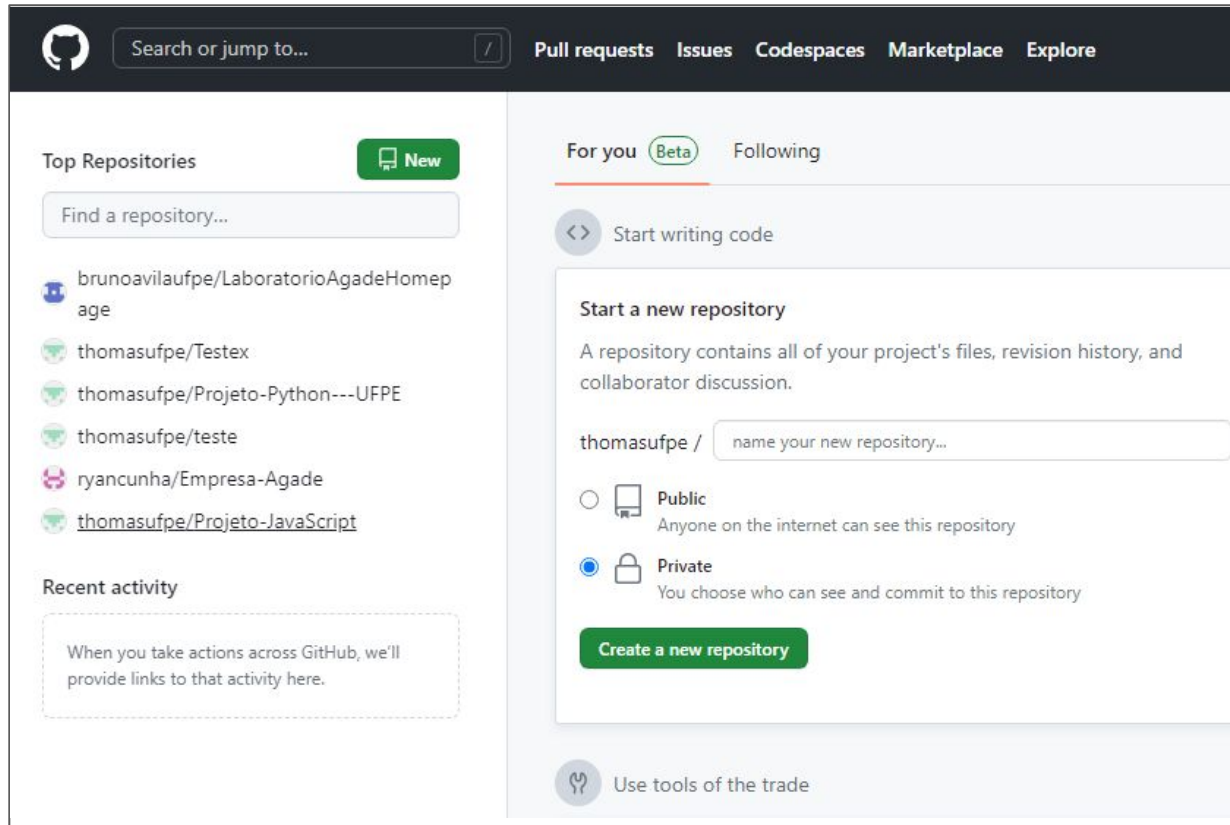
Repositório local

Arquivo



Commit

# Como criar um repositório no site do GitHub



The screenshot shows the GitHub homepage. At the top is a dark navigation bar with the GitHub logo, a search bar, and links for Pull requests, Issues, Codespaces, Marketplace, and Explore. The main content area is divided into two columns. The left column features 'Top Repositories' with a 'New' button and a list of repositories including 'brunoavilaufpe/LaboratorioAgadeHomepage', 'thomasufpe/Testex', 'thomasufpe/Projeto-Python---UFPE', 'thomasufpe/teste', 'ryancunha/Empresa-Agade', and 'thomasufpe/Projeto-JavaScript'. Below this is a 'Recent activity' section with a message about activity links. The right column has tabs for 'For you' (selected) and 'Following'. Under 'For you', there's a 'Start writing code' button and a 'Start a new repository' section. This section includes a description of repositories, a text input field for the repository name (pre-filled with 'thomasufpe /'), and radio buttons for 'Public' and 'Private' visibility. The 'Private' option is selected. A green 'Create a new repository' button is at the bottom of this section. At the very bottom of the right column is a 'Use tools of the trade' button.

Search or jump to... / Pull requests Issues Codespaces Marketplace Explore

Top Repositories New

Find a repository...

- brunoavilaufpe/LaboratorioAgadeHomepage
- thomasufpe/Testex
- thomasufpe/Projeto-Python---UFPE
- thomasufpe/teste
- ryancunha/Empresa-Agade
- thomasufpe/Projeto-JavaScript

Recent activity

When you take actions across GitHub, we'll provide links to that activity here.


For you Beta Following


<> Start writing code

**Start a new repository**


A repository contains all of your project's files, revision history, and collaborator discussion.

thomasufpe /

☐  **Public**  
Anyone on the internet can see this repository

☒  **Private**  
You choose who can see and commit to this repository

Create a new repository

 Use tools of the trade

# Como criar um repositório no GitHub Desktop

Create a new repository

×

Name

repository name

Description

Local path

C:\Users\Laboratório Agadê\Desktop

Choose...

☐ Initialize this repository with a README

Git ignore

None

▼

License

None

▼

Create repository

Cancel

Publish repository

×

GitHub.com

GitHub Enterprise

Name

privado

Description

teste

☒ Keep this code private

Publish repository

Cancel

# Realizando e entendendo o commit

## No local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.



Open the repository in your external editor

Select your editor in [Options](#)

Repository menu or **Ctrl** **Shift** **A**

Open in Visual Studio Code

View the files of your repository in Explorer

Repository menu or **Ctrl** **Shift** **F**

Show in Explorer

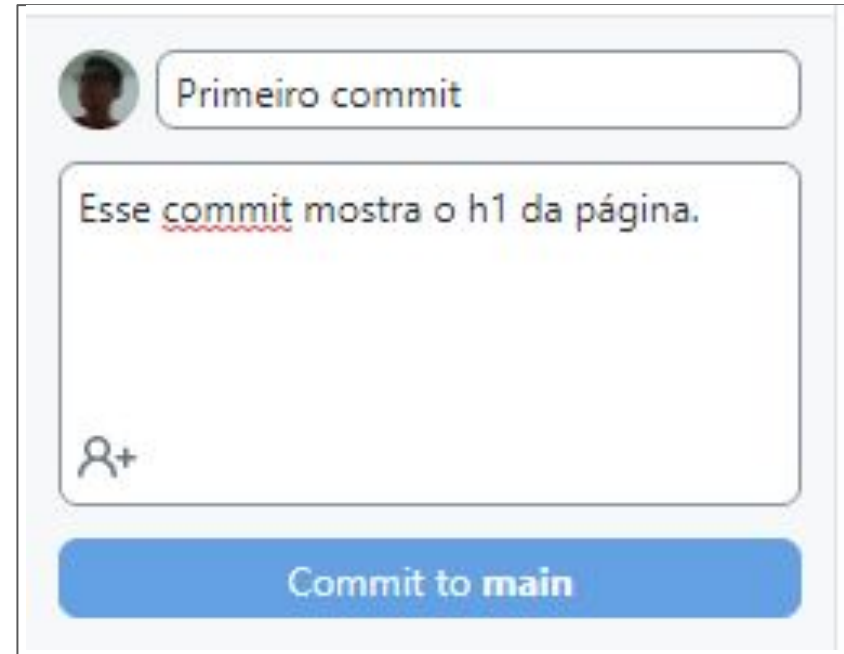
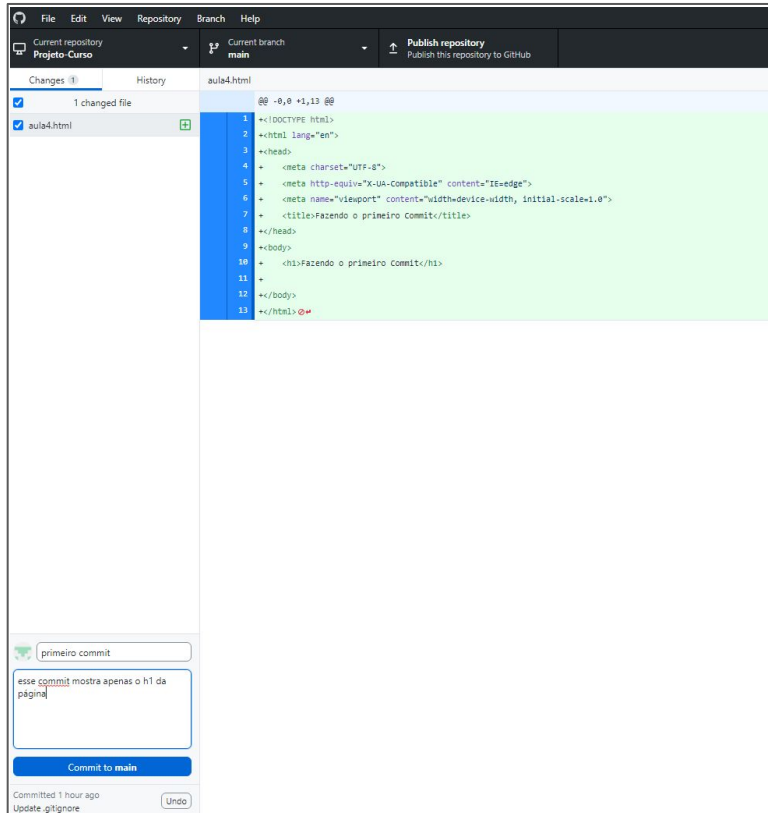
Open the repository page on GitHub in your browser

Repository menu or **Ctrl** **Shift** **G**

View on GitHub

```
teste.html  .gitattributes  aula4.html U x
aula4.html > html > body > h1
1  <!DOCTYPE html>
2  <html Lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Fazendo o primeiro Commit</title>
8  </head>
9  <body>
10     <h1>Fazendo o primeiro Commit</h1>
11
12 </body>
13 </html>
```

# Realizando e entendendo o commit



# Realizando o Push

## No local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.



### Push commits to the origin remote

You have 1 local commit waiting to be pushed to GitHub.

Always available in the toolbar when there are local commits waiting to be pushed or

Ctrl P

Push origin

The screenshot shows the GitHub repository page for 'thomasufpe / Projeto-Curso'. The repository is private and has 2 branches and 0 tags. The main branch is selected. A notification states 'Your main branch isn't protected' with a 'Protect this branch' button. Below this, a merge commit is shown: 'thomasufpe Merge branch 'dev'' with commit hash 'f575ec4' and '9 commits'.

File	Commit Message	Time Ago
Logo	Merge branch 'dev'	39 minutes ago
.gitattributes	Initial commit	2 hours ago
.gitignore	Update .gitignore	2 hours ago
README.md	Initial commit	2 hours ago
aula4.html	terceiro commit	1 hour ago

# Adicionando um novo membro

The screenshot shows the GitHub repository settings page for 'thomasufpe / Projeto-Curso'. The page is divided into a left sidebar and a main content area. The sidebar contains a list of settings categories: General, Access, Code and automation, Security, and Integrations. The 'Access' category is selected, and the 'Collaborators' sub-tab is active. The main content area is titled 'Who has access' and shows two access types: 'PRIVATE REPOSITORY' and 'DIRECT ACCESS'. The 'PRIVATE REPOSITORY' section indicates that only those with access to the repository can view it, with a 'Manage' link. The 'DIRECT ACCESS' section shows that 0 collaborators have access to the repository, with a note that only the user can contribute. Below this, there is a 'Manage access' section with a large box containing a lock icon and the text 'You haven't invited any collaborators yet', with an 'Add people' button.

thomasufpe / Projeto-Curso (Private)

Unwatch 1 Fork

<> Code Issues Pull requests Actions Projects Security Insights **Settings**

General

Access

**Collaborators**

Code and automation

Branches

Tags

Rules (Beta)

Actions

Webhooks

Codespaces

Pages

Security

Code security and analysis

Deploy keys

Secrets and variables

Integrations

GitHub Apps

Email notifications

### Who has access

**PRIVATE REPOSITORY**

Only those with access to this repository can view it.

[Manage](#)

**DIRECT ACCESS**

0 collaborators have access to this repository. Only you can contribute to this repository.

### Manage access

You haven't invited any collaborators yet

[Add people](#)

# Copiando o link de clonagem do projeto no GitHub

The screenshot shows the GitHub interface for the repository 'thomasufpe / Projeto-Curso'. The 'Code' button is highlighted, and a dropdown menu is open, displaying options for cloning the repository. The menu includes sections for 'Local' and 'Codespaces', a 'Clone' section with 'HTTPS', 'SSH', and 'GitHub CLI' options, and a text input field containing the HTTPS URL: 'https://github.com/thomasufpe/Projeto-Curso.git'. Below the input field, there are links for 'Open with GitHub Desktop' and 'Download ZIP'. The repository page also shows a file list with '.gitattributes', '.gitignore', 'README.md', and 'aula4.html', and a README section titled 'Projeto-Curso' with the description 'Repositório teste para o curso.'.

Search or jump to... Pull requests Issues Codespaces Marketplace Explore

thomasufpe / Projeto-Curso Private Watch 1 Fork 0 Star 0

<> Code Issues Pull requests Actions Projects Security Insights

main 1 branch 0 tags

thomasufpe primeiro commit

.gitattributes	Initial commit
.gitignore	Update .gitignore
README.md	Initial commit
aula4.html	primeiro commit

README.md

## Projeto-Curso

Repositório teste para o curso.

Local Codespaces

Clone

HTTPS SSH GitHub CLI

https://github.com/thomasufpe/Projeto-Curso.git

Use Git or checkout with SVN using the web URL.

Open with GitHub Desktop

Download ZIP

About

Repositório teste para o curso.

Readme

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

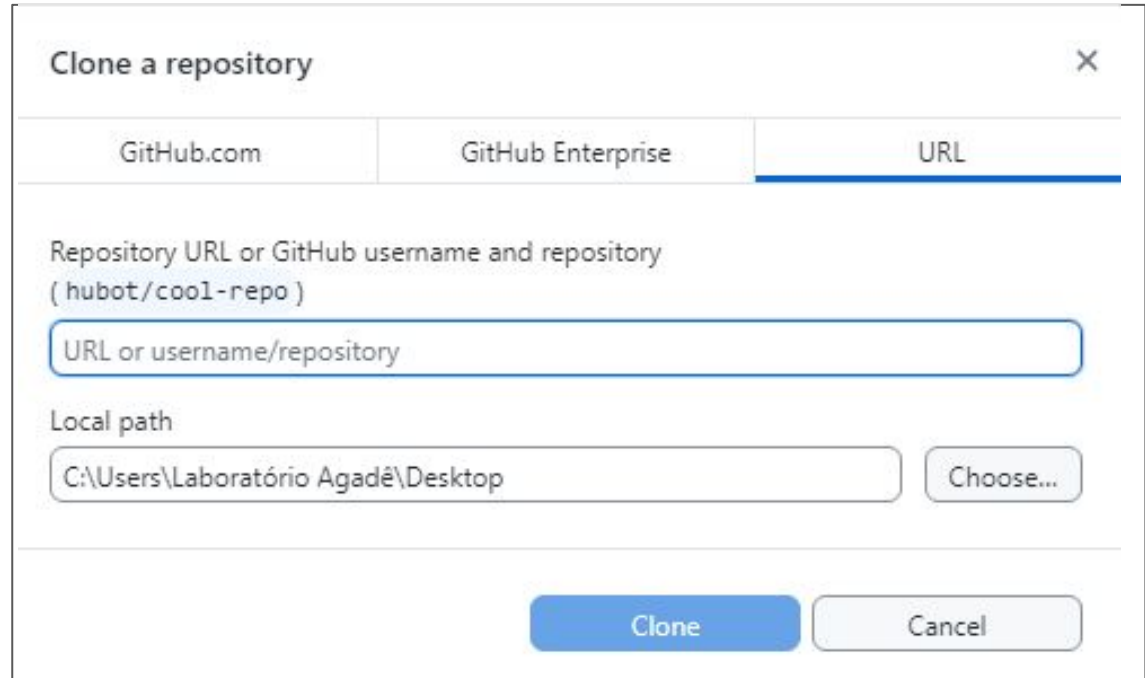
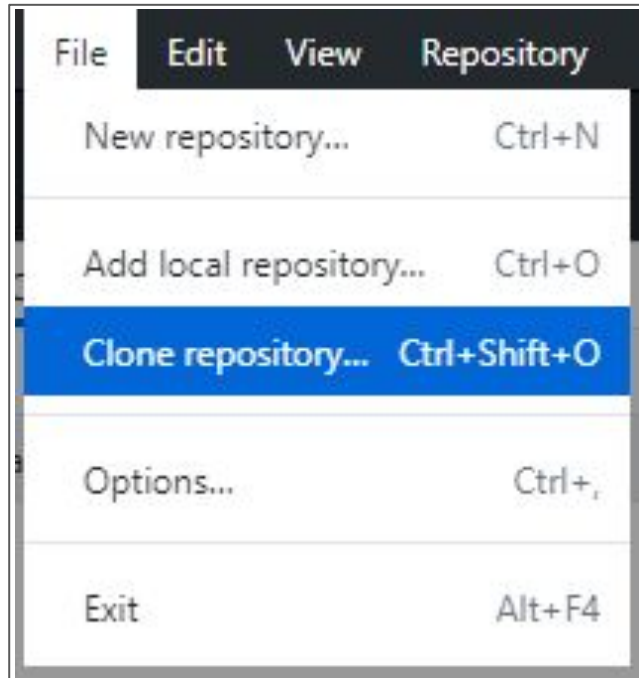
Publish your first package

Languages

HTML 100.0%



## Clonando o Projeto



## Encontrando o Projeto Clonado

Open the repository in your external editor

Select your editor in [Options](#)

Repository menu or `Ctrl + Shift + A`

Open in Visual Studio Code

View the files of your repository in Explorer







Repository menu or `Ctrl + Shift + F`

Show in Explorer

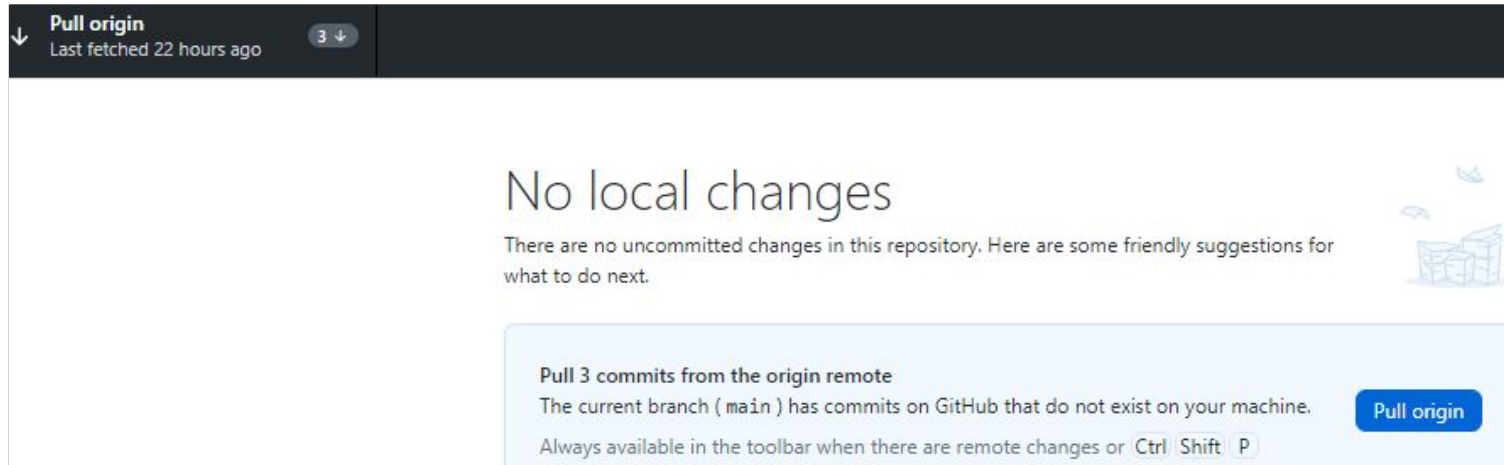
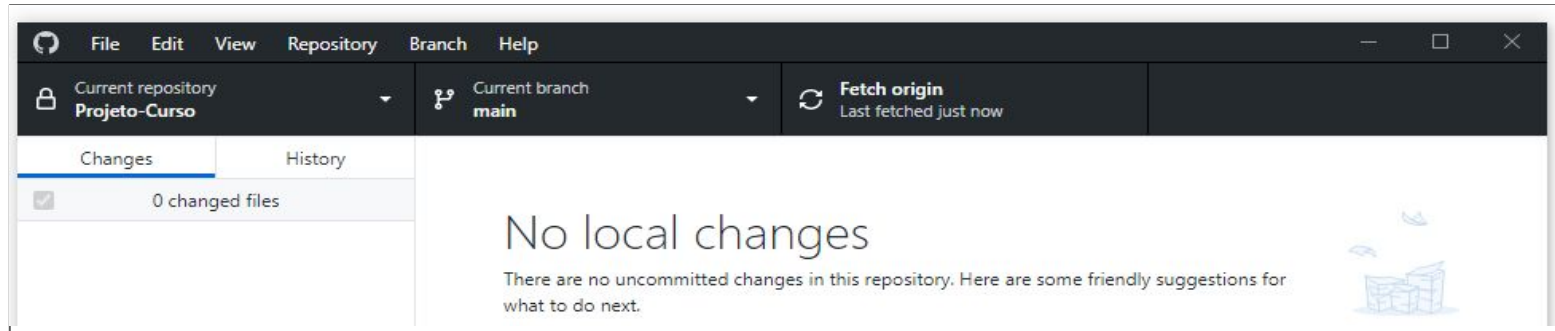
Open the repository page on GitHub in your browser

Repository menu or `Ctrl + Shift + G`

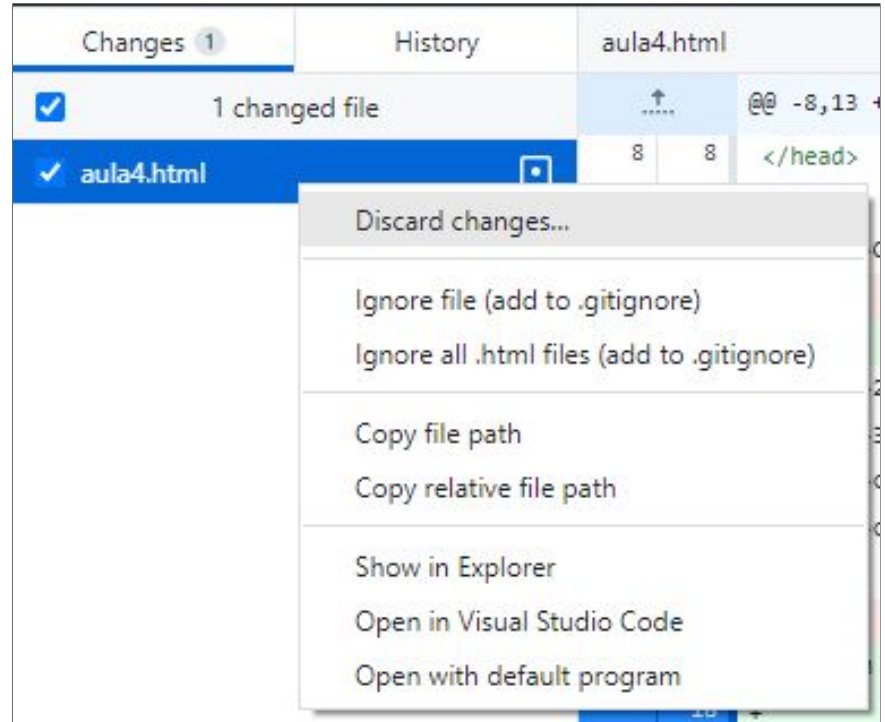
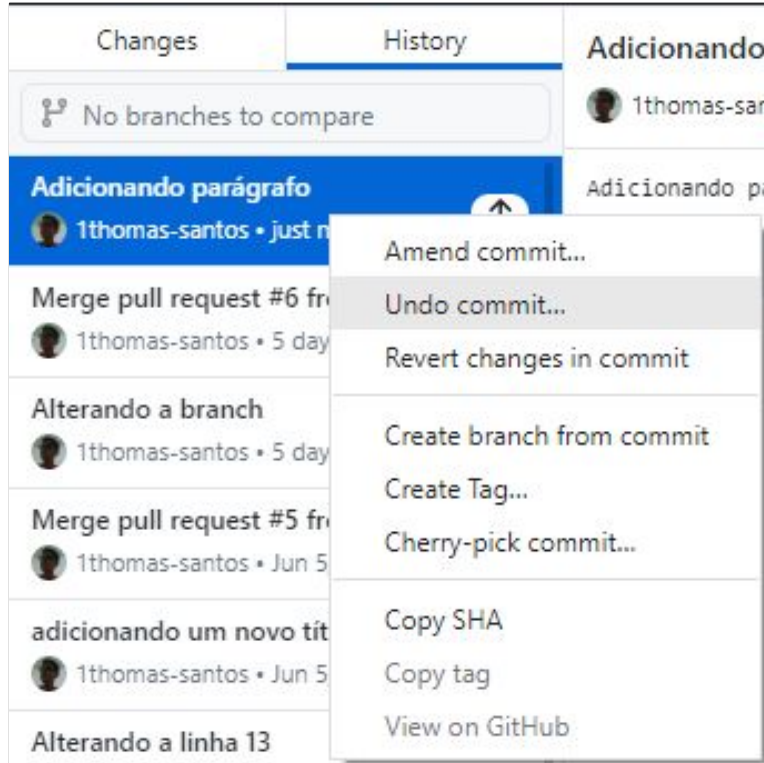
View on GitHub

Nome	Data de modificação	Tipo	Tamanho
 .idea	12/06/2023 15:53	Pasta de arquivos	
 Logo	12/05/2023 17:19	Pasta de arquivos	
 .gitattributes	12/05/2023 17:19	Documento de Te...	1 KB
 .gitignore	12/05/2023 17:19	Documento de Te...	3 KB
 aula4	12/06/2023 18:13	Chrome HTML Do...	1 KB
 README	12/05/2023 17:19	Arquivo Fonte Ma...	1 KB

# Realizando o Fetch e o Pull



# Alterando e revertendo um commit

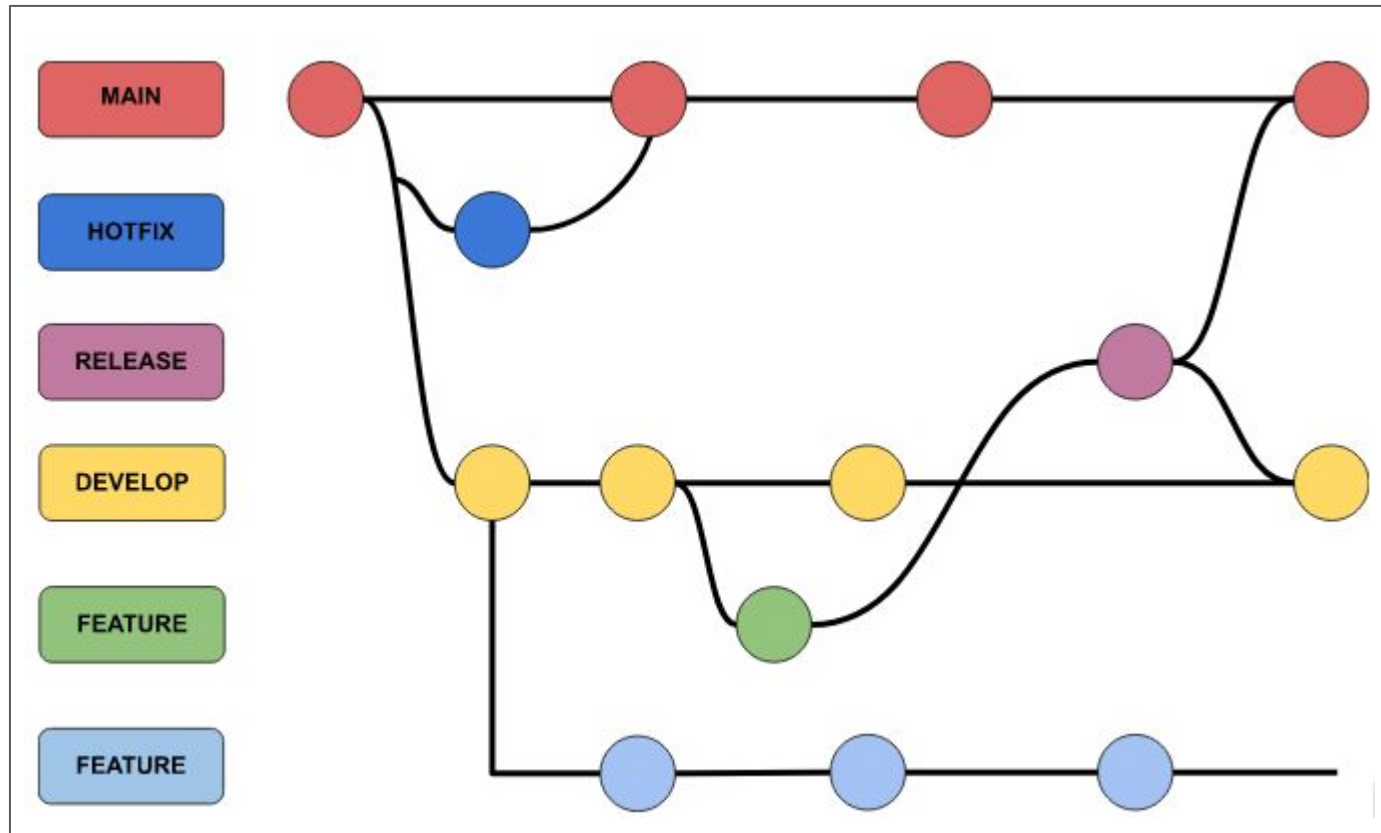


## O que é Branch?

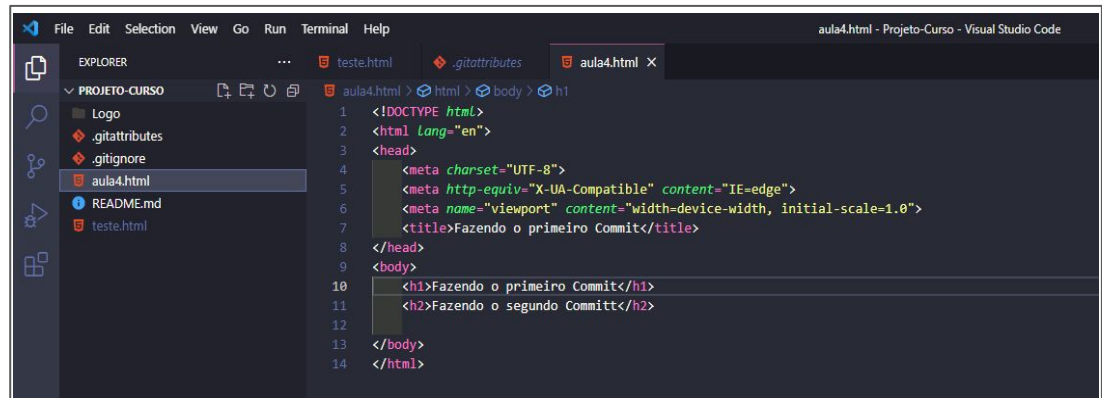
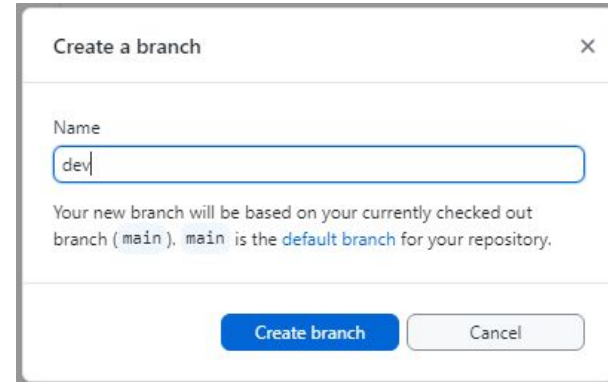
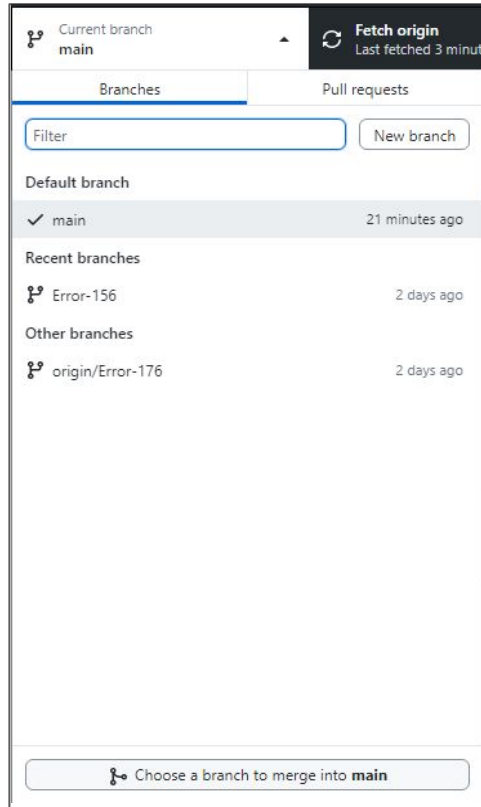


git

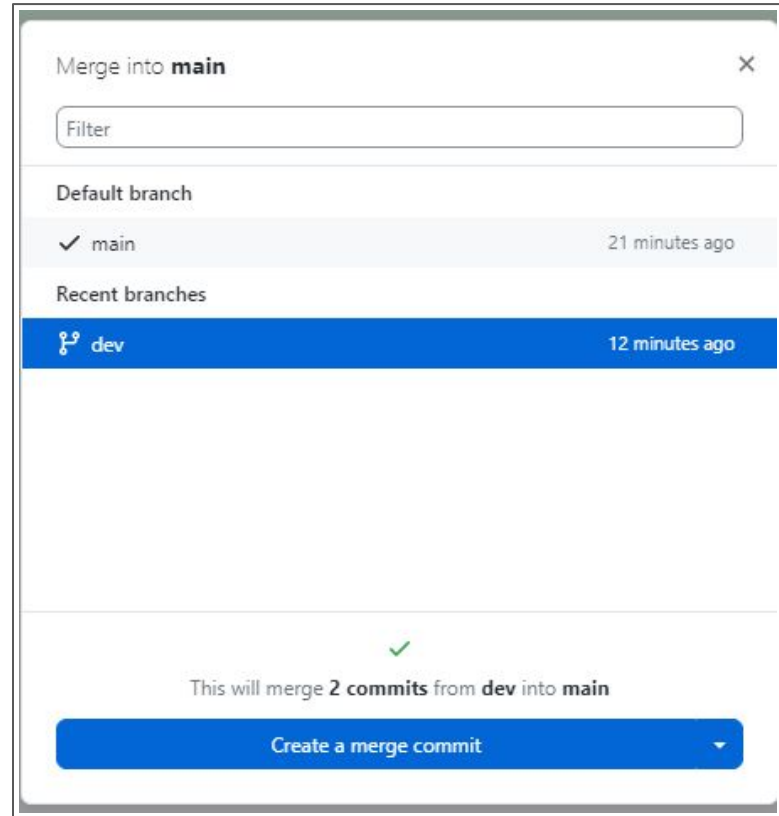
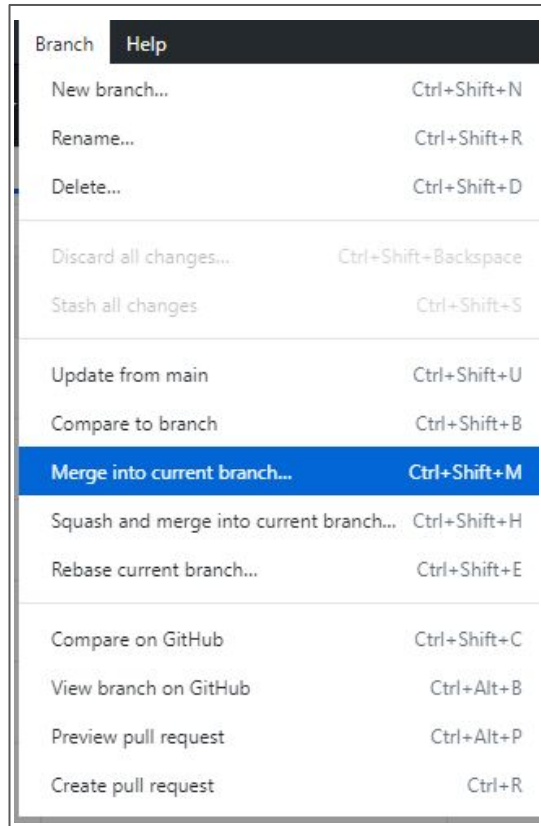
## Entendendo uma Branch



# Criando uma nova Branch

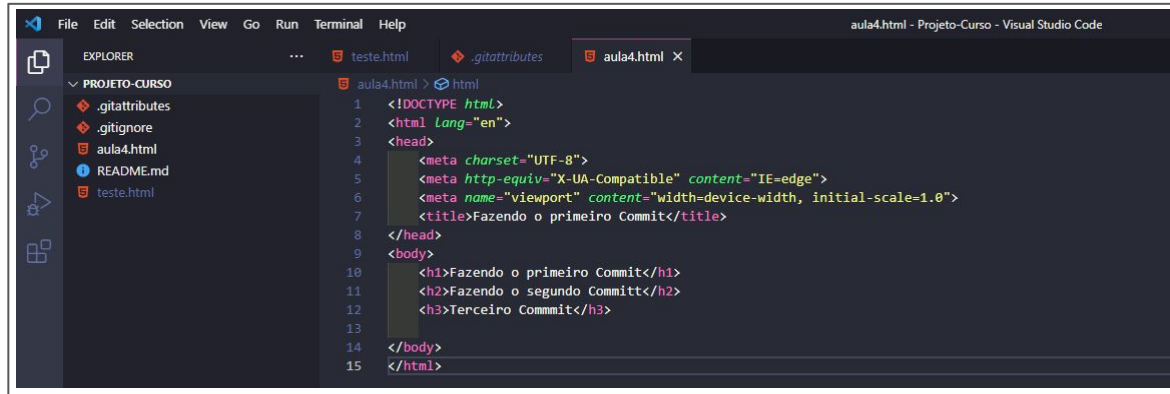


# Processo de Merge

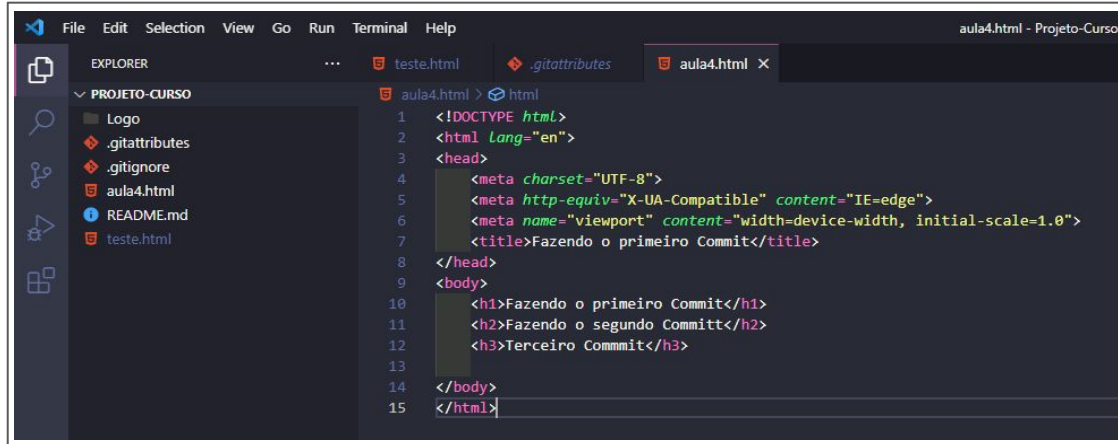




# Processo de Merge

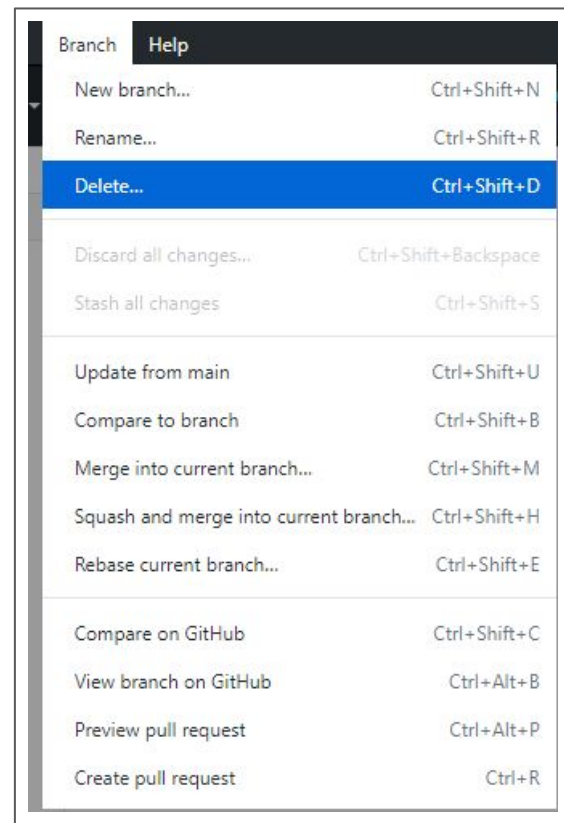
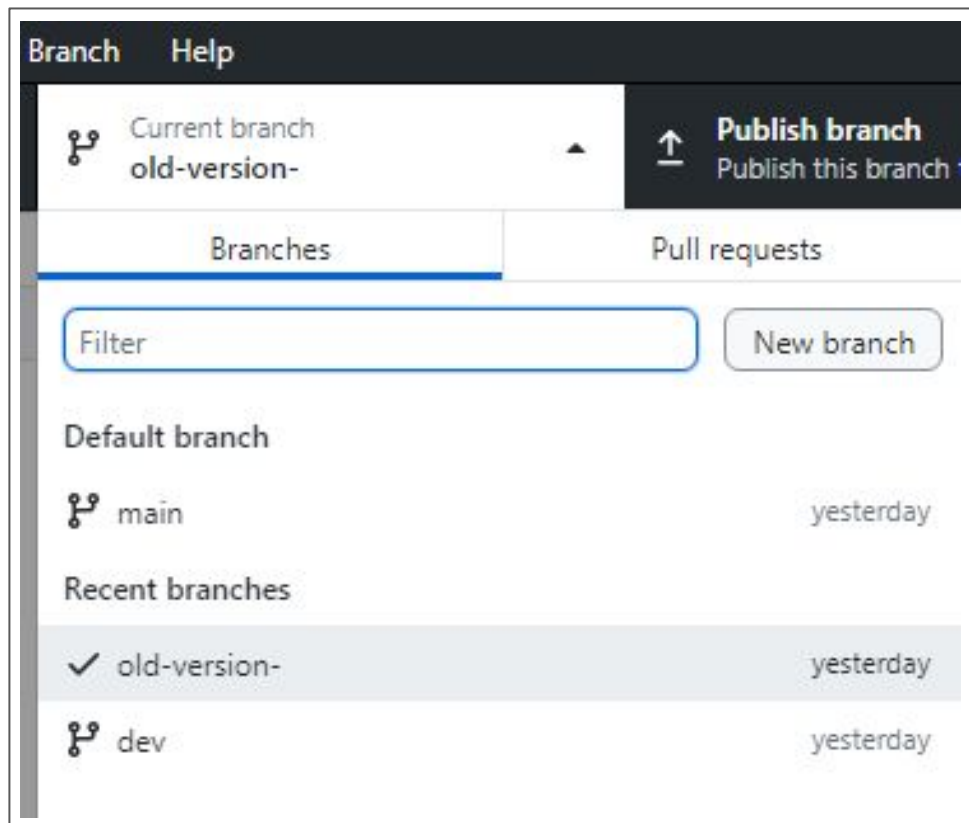


```
1 <!DOCTYPE html>
2 <html Lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Fazendo o primeiro Commit</title>
8 </head>
9 <body>
10  <h1>Fazendo o primeiro Commit</h1>
11  <h2>Fazendo o segundo Committ</h2>
12  <h3>Terceiro Commit</h3>
13
14 </body>
15 </html>
```

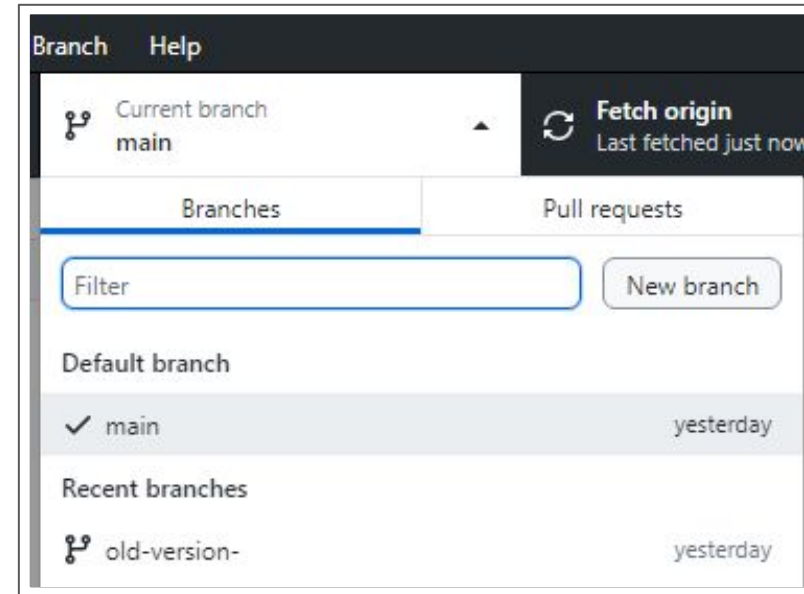
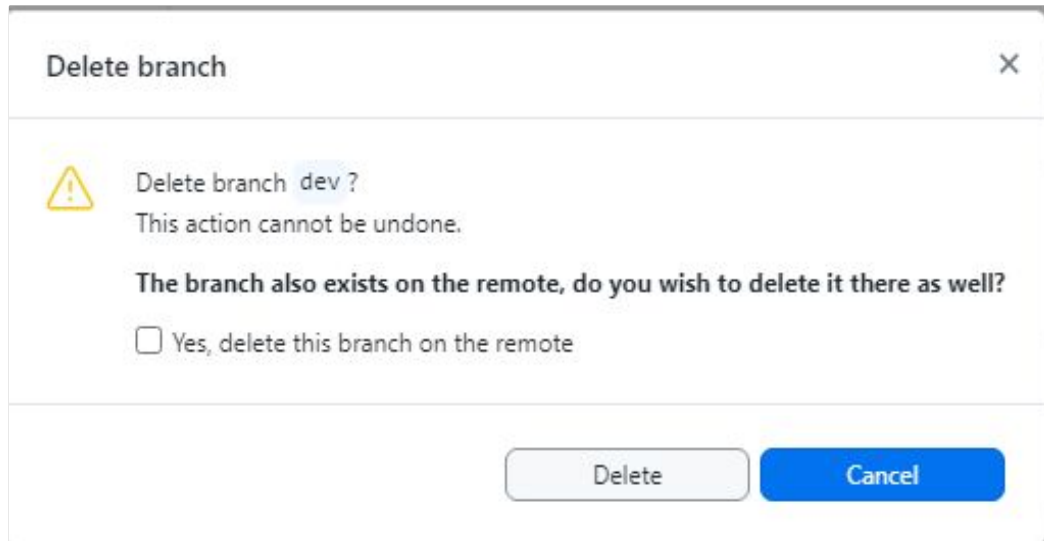


```
1 <!DOCTYPE html>
2 <html Lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Fazendo o primeiro Commit</title>
8 </head>
9 <body>
10  <h1>Fazendo o primeiro Commit</h1>
11  <h2>Fazendo o segundo Committ</h2>
12  <h3>Terceiro Committ</h3>
13
14 </body>
15 </html>
```

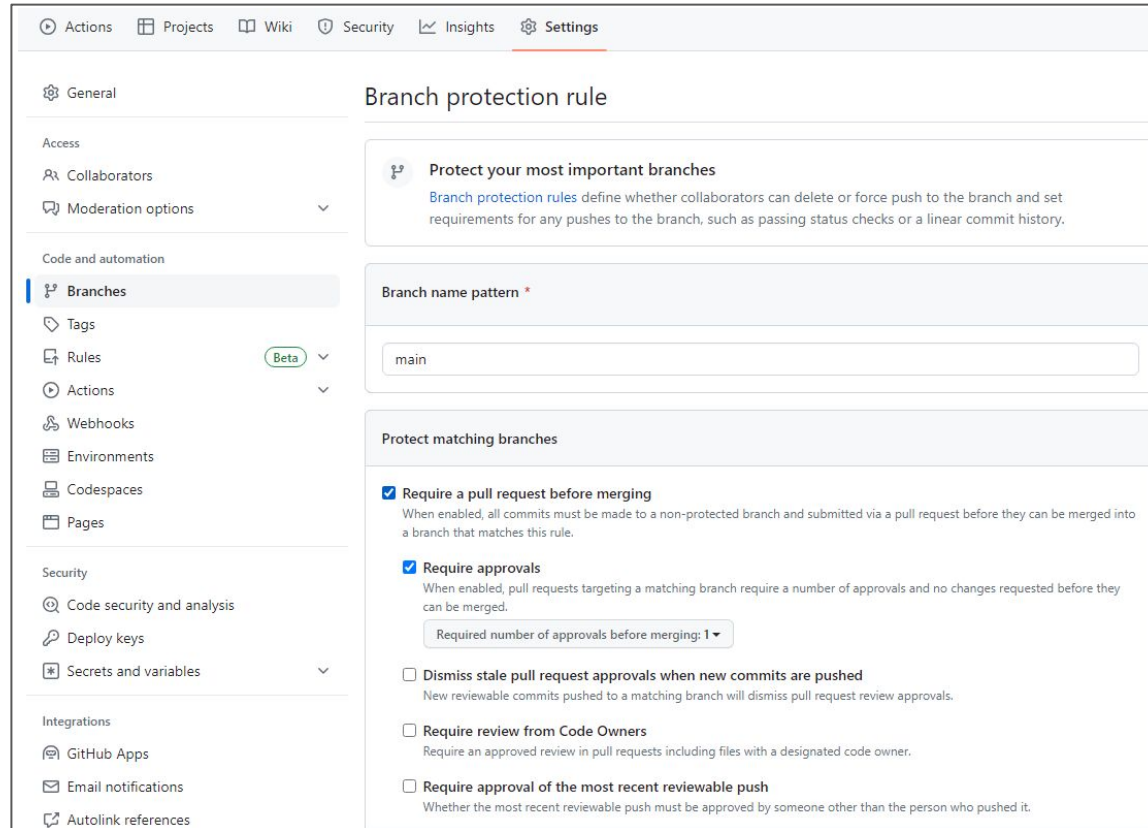
## Deletando uma Branch



## Deletando uma Branch



# Protegendo uma Branch



The screenshot shows the GitHub interface for configuring branch protection rules. The top navigation bar includes links for Actions, Projects, Wiki, Security, Insights, and Settings. The left sidebar contains a menu with categories: General, Access (Collaborators, Moderation options), Code and automation (Branches, Tags, Rules, Actions, Webhooks, Environments, Codespaces, Pages), Security (Code security and analysis, Deploy keys, Secrets and variables), and Integrations (GitHub Apps, Email notifications, Autolink references). The 'Branches' option under 'Code and automation' is selected and highlighted.

## Branch protection rule

**Protect your most important branches**  
Branch protection rules define whether collaborators can delete or force push to the branch and set requirements for any pushes to the branch, such as passing status checks or a linear commit history.

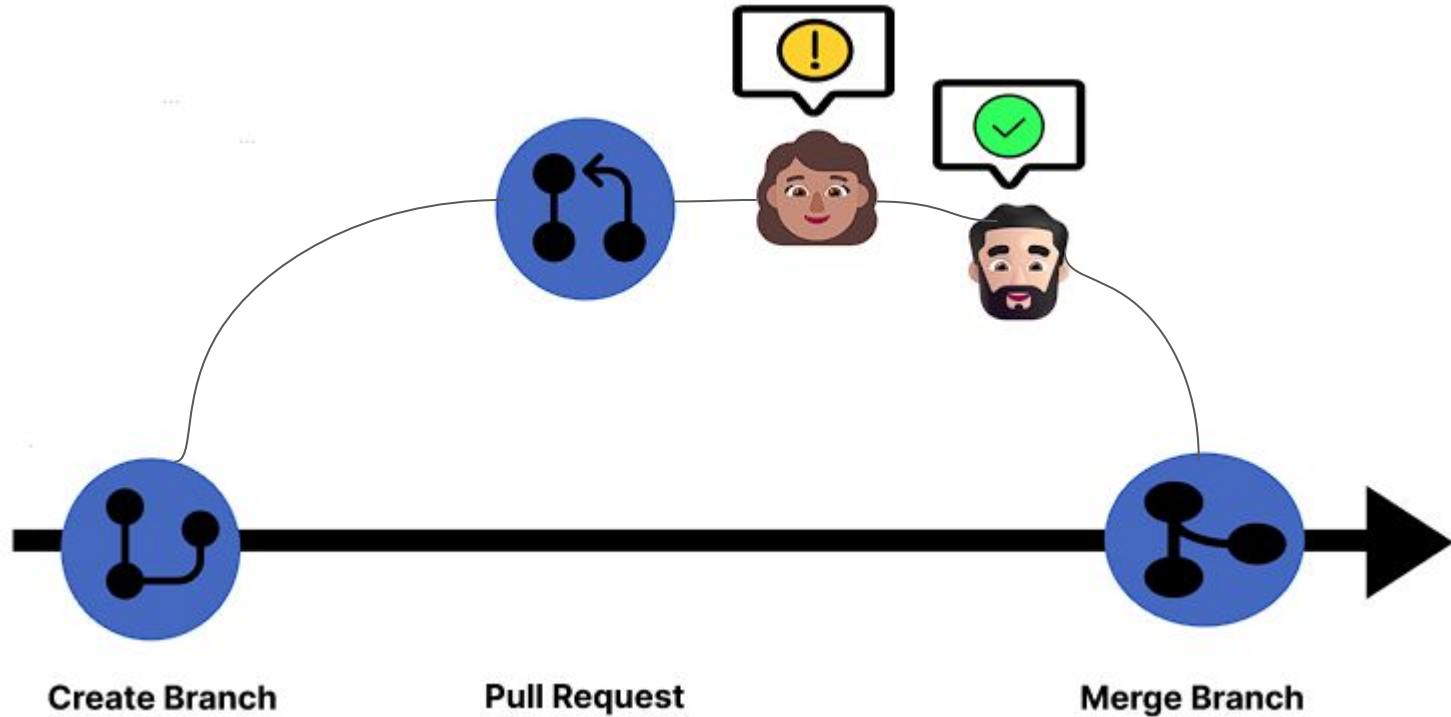
**Branch name pattern \***

main

**Protect matching branches**

- ☒ **Require a pull request before merging**  
When enabled, all commits must be made to a non-protected branch and submitted via a pull request before they can be merged into a branch that matches this rule.
- ☒ **Require approvals**  
When enabled, pull requests targeting a matching branch require a number of approvals and no changes requested before they can be merged.  
Required number of approvals before merging: 1
- ☐ **Dismiss stale pull request approvals when new commits are pushed**  
New reviewable commits pushed to a matching branch will dismiss pull request review approvals.
- ☐ **Require review from Code Owners**  
Require an approved review in pull requests including files with a designated code owner.
- ☐ **Require approval of the most recent reviewable push**  
Whether the most recent reviewable push must be approved by someone other than the person who pushed it.

# O que é um Pull Request?



# Criando um pull request no github desktop

Preview the Pull Request from your current branch

The current branch ( branch-secundaria ) is already published to GitHub. Preview the changes this pull request will have before proposing your changes.

Branch menu or `Ctrl + Alt + P`

Preview Pull Request

## Open a pull request

Merge 1 commit into `base: main` from `branch-secundaria`.


Showing changes from all commits

aula4.html	↑	@@ -12,6 +12,7 @@ dev2
12	12	<h2>2 commit</h2>
13	13	<h3>3 committt</h3>
14	14	<h4>commit 4</h4>
	15	+ <h5>adicionando um novo título</h5>
15	16	
16	17	dev
17	18	
	↓	

# Criando um pull request no github

## 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: branch-secundaria









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




Solicitando o merge da branch secundaria para a main branch

Write


Preview

H B I  <>     @   

Leave a comment

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

Create pull request

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

## Realizando o merge

Add more commits by pushing to the `branch-secundaria` branch on `thomasufpe/Projeto-Curso`.



Your protected branch rules for your `main` branch won't be enforced on this private repository until you move to a GitHub Team or Enterprise organization account.



**This branch has no conflicts with the base branch**

Merging can be performed automatically.

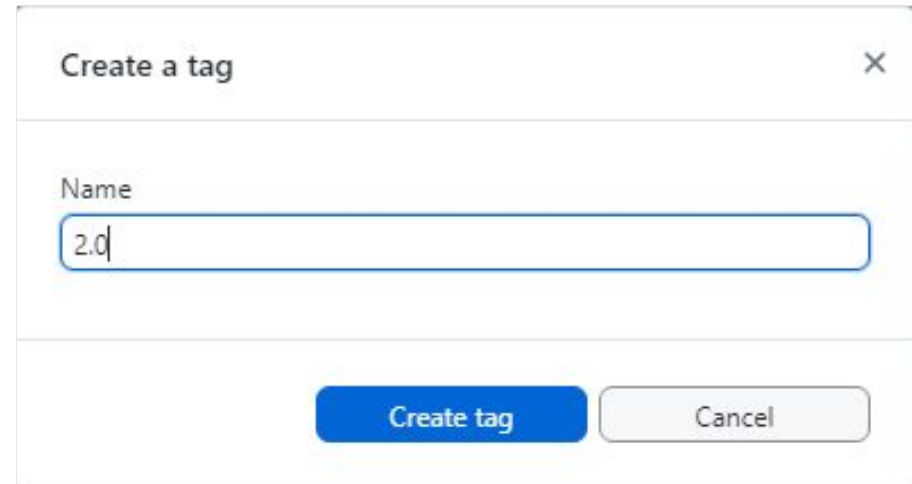
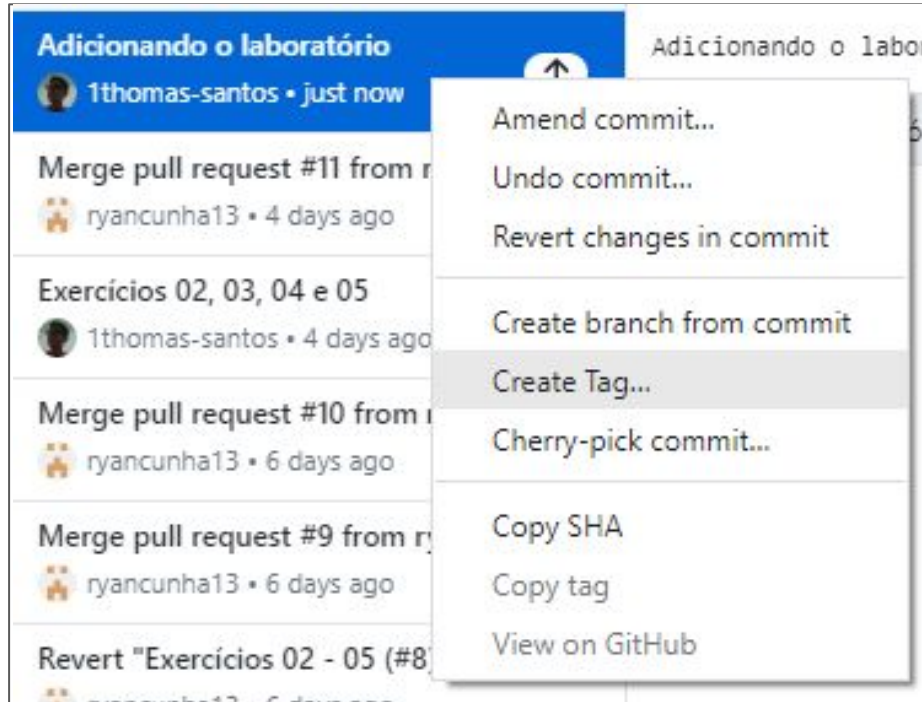
**Merge pull request**



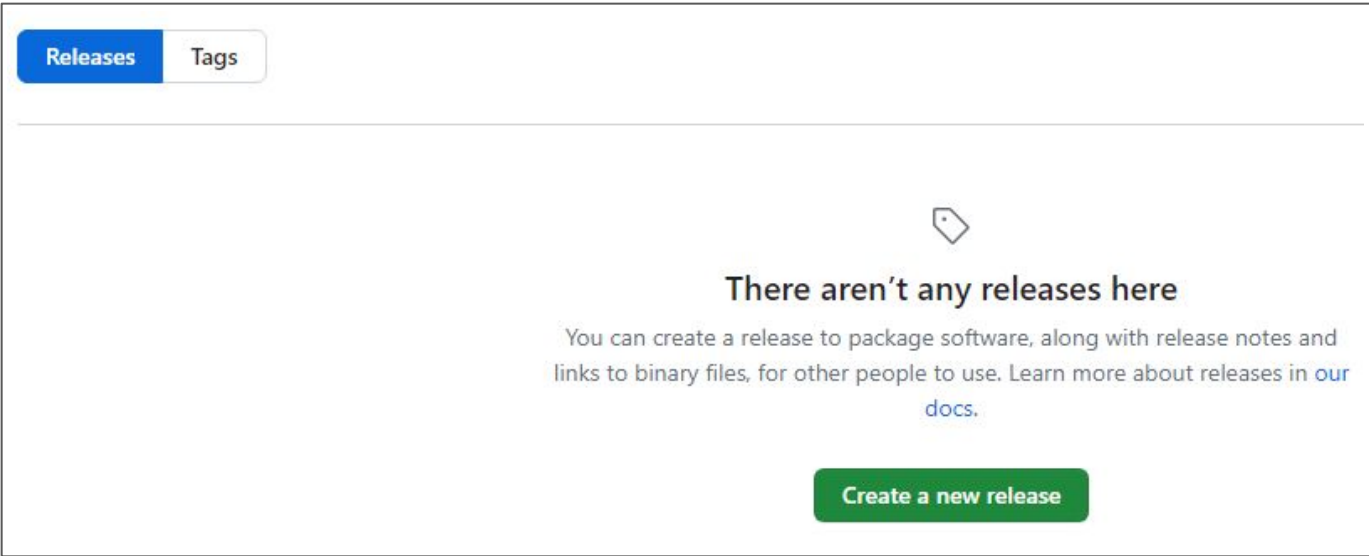
You can also [open this in GitHub Desktop](#) or view [command line instructions](#).



# O que é Tag e como funciona?



# O que é Release e como funciona?



# Criando um Release

Releases

Tags

1.0

Target: main

Excellent! This tag will be created from the target when you publish this release.

Primeira Versão

Write

Preview

H

B

I

≡

<>

🔗

≡

≡

≡

@

📎

↶

Previous tag: auto

Generate release notes

Lançando a primeira versão do projeto.

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

↓ Attach binaries by dropping them here or selecting them.

☐ Set as a pre-release

This release will be labeled as non-production ready

Publish release

Save draft

Releases

Tags

Choose a tag

Target: main

Choose a tag

1.0

+ Create new tag: 1.0 on publish

publish this release.

# Release criado

## Primeira Versão

Latest

Compare  

 ryancunha13 released this in 12 seconds  1.0  7b1617a

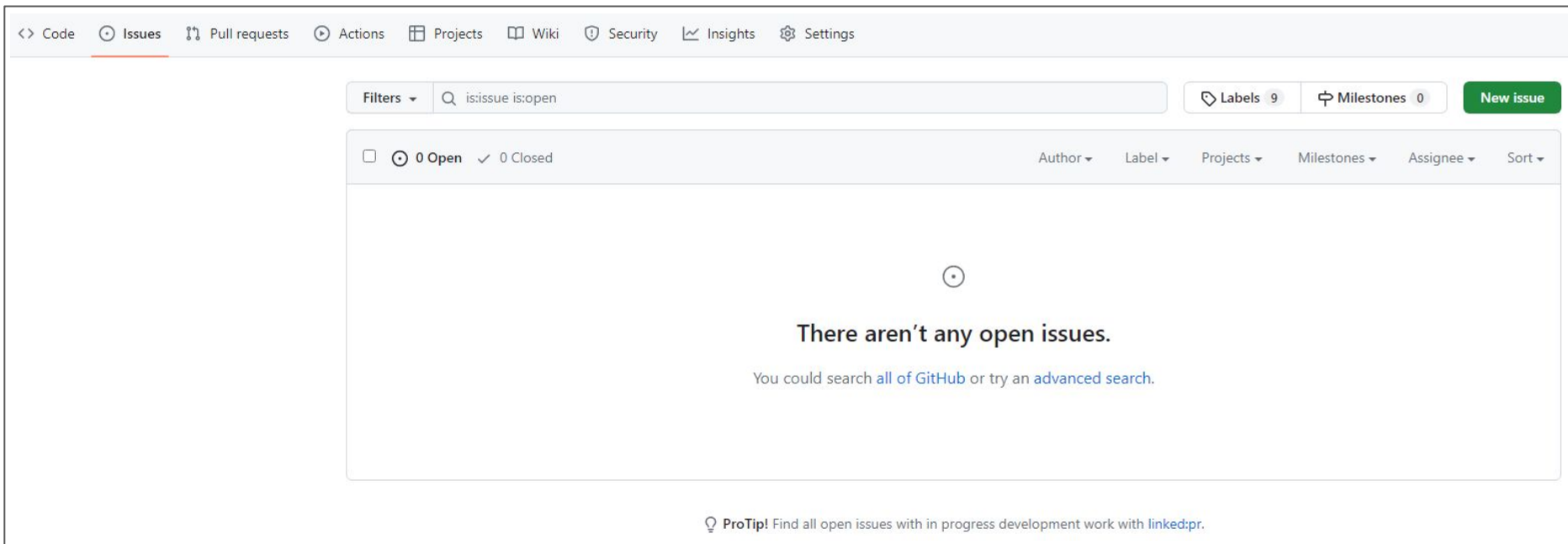
Lançando a primeira versão do projeto.

### ▼ Assets 2


 Source code (zip)	last week
 Source code (tar.gz)	last week



# O que são Issues?












# Criando uma Issue




Adicionar o slide no repositório


Write

Preview


H B I       @   

Adicionar o slide do curso de git/github no repositório.

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

 Styling with Markdown is supported


Submit new issue

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


## Designando um colaborador para uma issue

☒ 1 selected

Mark as ▾Label ▾Projects ▾Milestone ▾Assign ▾


☒  Adicionar o slide no repositório

#14 opened now by ryancunha13

 **ProTip!** Mix and match filters to narrow down what you're looking for.

Assign someone

Assign to nobody

 ryancunha13

# Fechando uma issue

## Adicionar o slide no repositório #14



ryancunha13 opened this issue 32 minutes ago · 0 comments



ryancunha13 commented 32 minutes ago

Owner ...

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# Exemplos de sintaxes para utilizar nos comentários

Estilo	Sintaxe	Atalho do teclado	Exemplo	Saída
Negrito	<b>** **</b> ou <b>__ __</b>	Comando + B (Mac) ou CTRL + B (Windows/Linux)	<b>**This is bold text**</b>	<b>Este texto está em negrito</b>
Ítálico	<i>* *</i> ou <i>_ _</i>	Comando + I (Mac) ou CTRL + I (Windows/Linux)	<i>_This text is italicized_</i>	<i>Este texto está em ítálico</i>
Tachado	~~ ~	Nenhum	~~This was mistaken text~~	<del>Este texto contém um erro</del>
Negrito e ítálico aninhado	<b>** **</b> e <b>_ _</b>	Nenhum	<b>**This text is _extremely_ important**</b>	<b>Este texto é <i>extremamente</i> importante</b>
Todo em negrito e itálico	<b>*** **</b>	Nenhum	<b>***All this text is important***</b>	<b><i>Todo este texto é importante</i></b>
Subscrito	<sub> </sub>	Nenhum	<sub>This is a subscript text</sub>	Este é um texto subscrito
Sobrescrito	<sup> </sup>	Nenhum	<sup>This is a superscript text</sup>	