

Engenharia De Software

AULA 4 E 5 - CONTROLE DE VERSÃO - GIT

Inatel

Conteúdo da aula

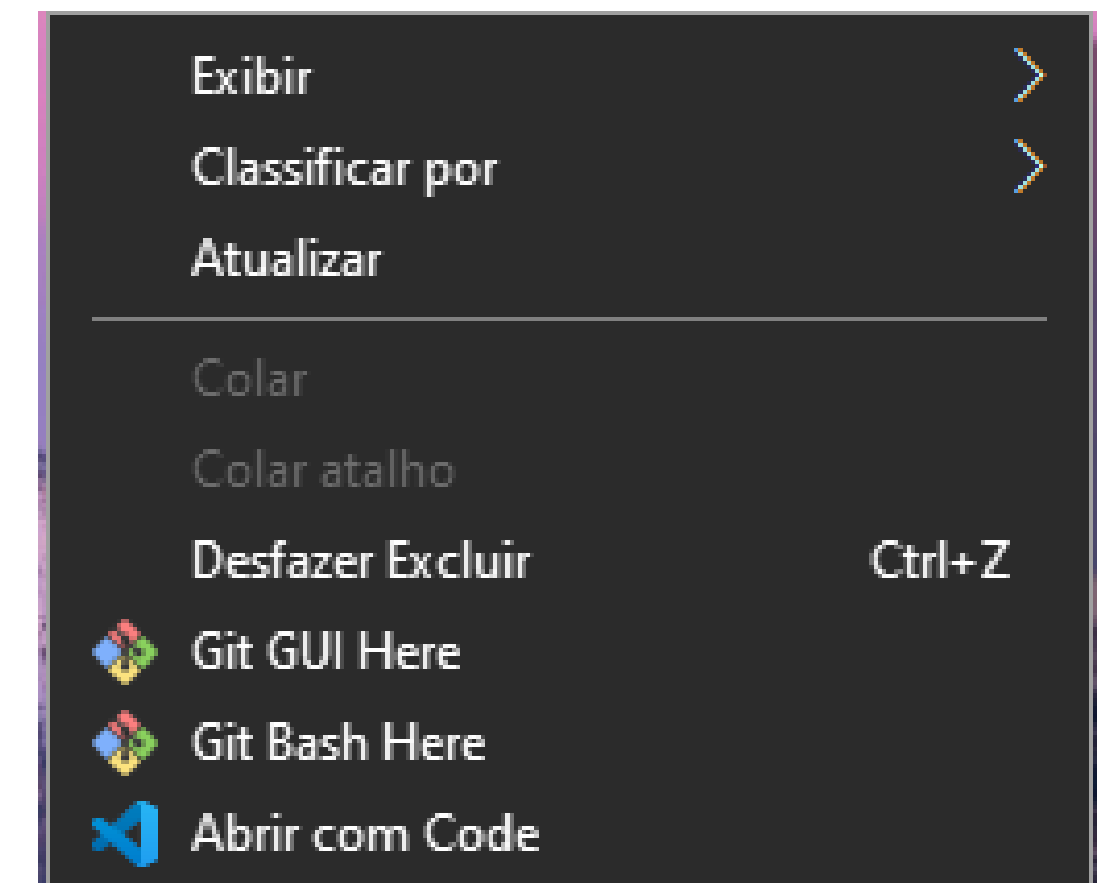
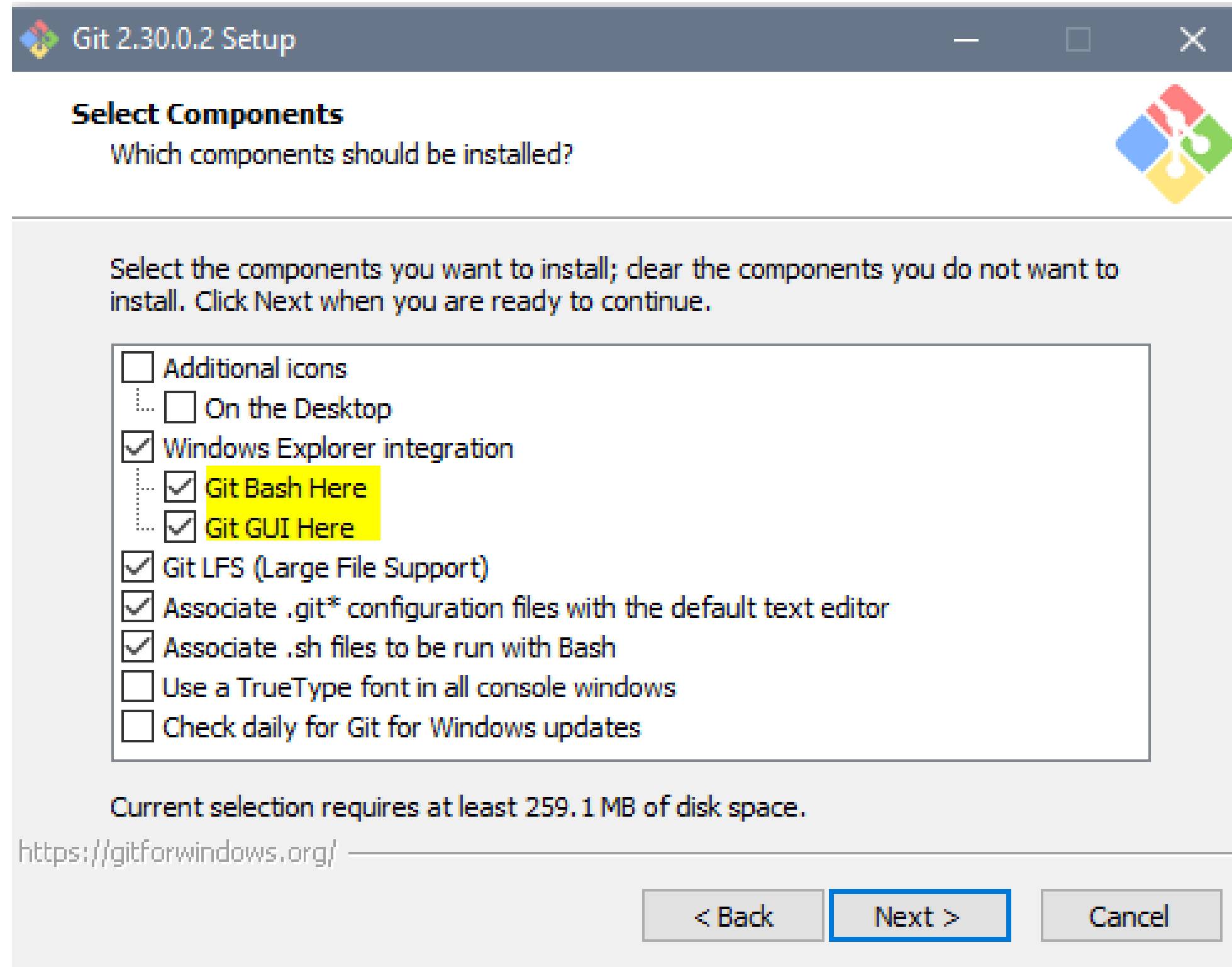
- Instalação do Gitbash
- Criar um repositório no GitHub
- Colocar um projeto no GitHub
- Operações e Utilidades
- Como usar os recursos do GitHub
- Além do GitHub

Instalação Gitbash

- Acesse o link: <https://git-scm.com>
- Vamos instalar a última versão.
- Após o download, é só clicar duas vezes em cima do arquivo baixado.



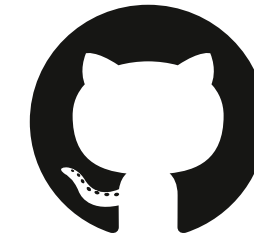
Instalação Gitbash



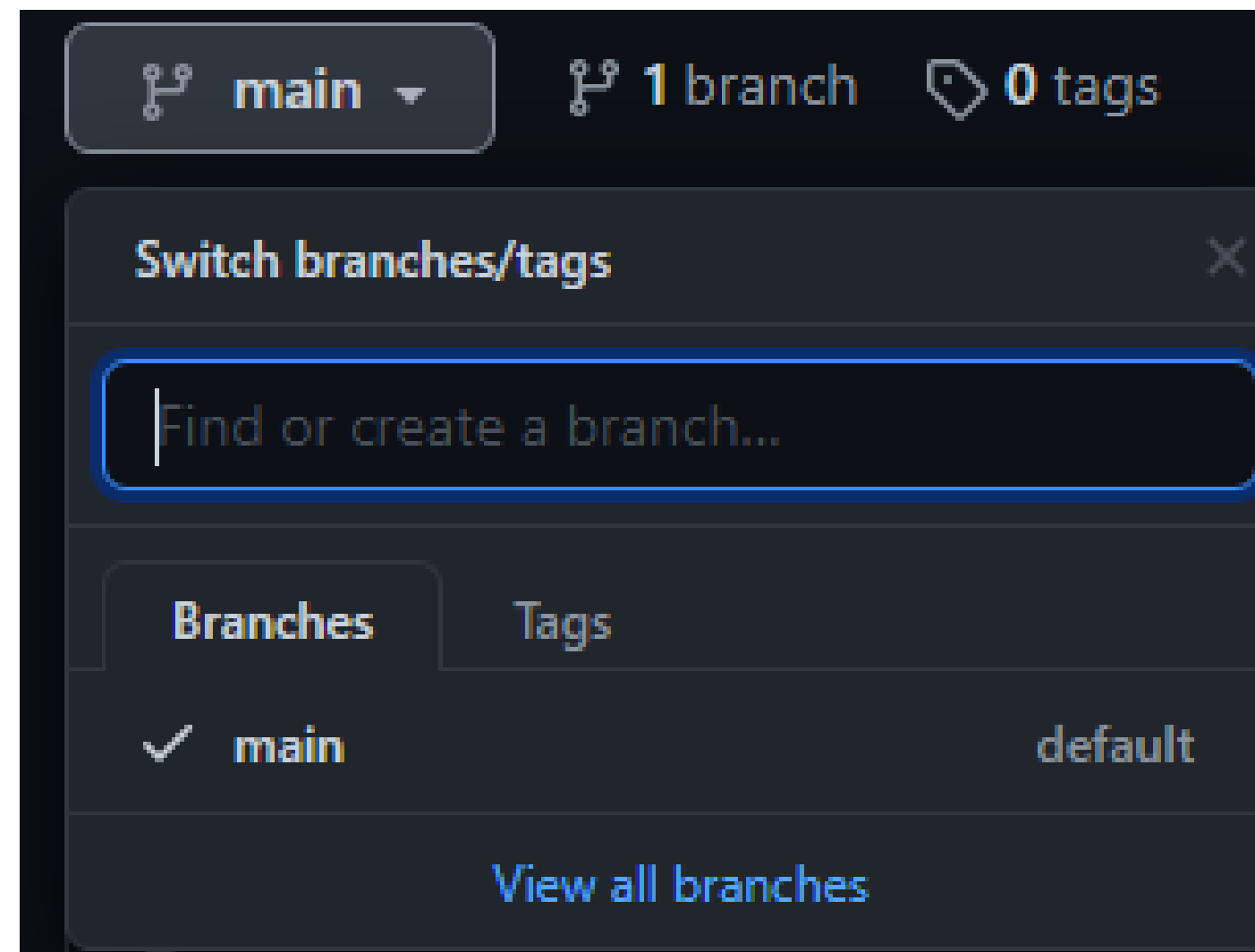
Instalação Gitbash

- **Configurações importantes**
 - **Realizar a identificação no Git no seu computador**
 - `git config --list`
 - `git config --global user.name "Seu Nome entre aspas"`
 - `git config --global user.email "e-mail da sua conta git"`
 - **Configurar o seu sistema para mostrar as extensões de arquivos e arquivos ocultos**
 - Painel de controle -> Opções de pasta -> Modo de exibição
 - Desmarcar "Ocultar as extensões de tipos de arquivos conhecidos".

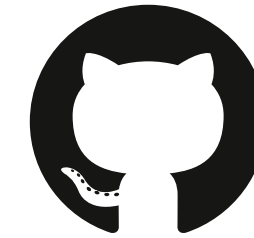
Criar um repositório no GitHub



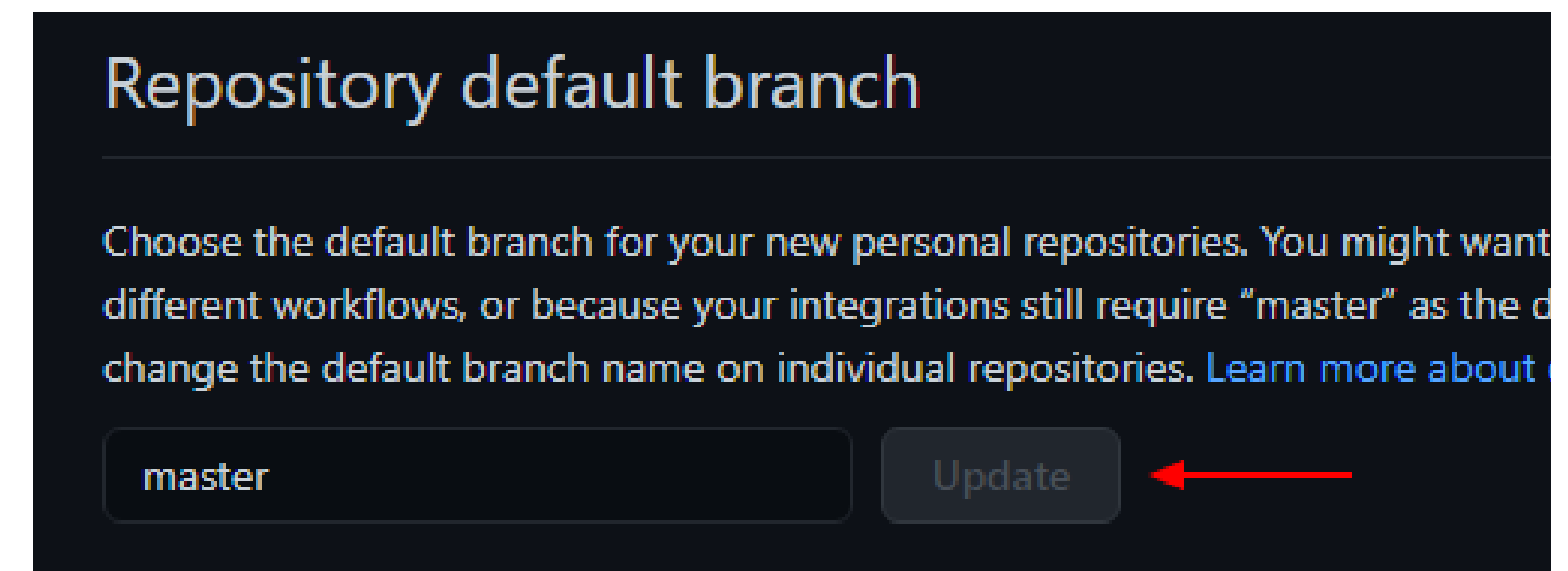
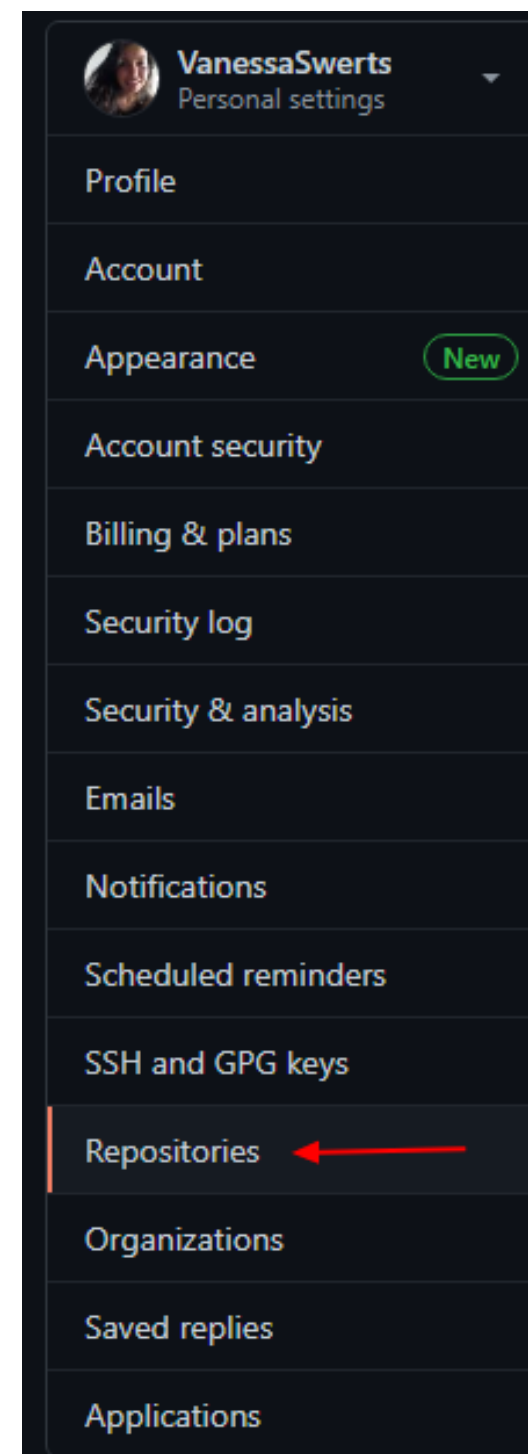
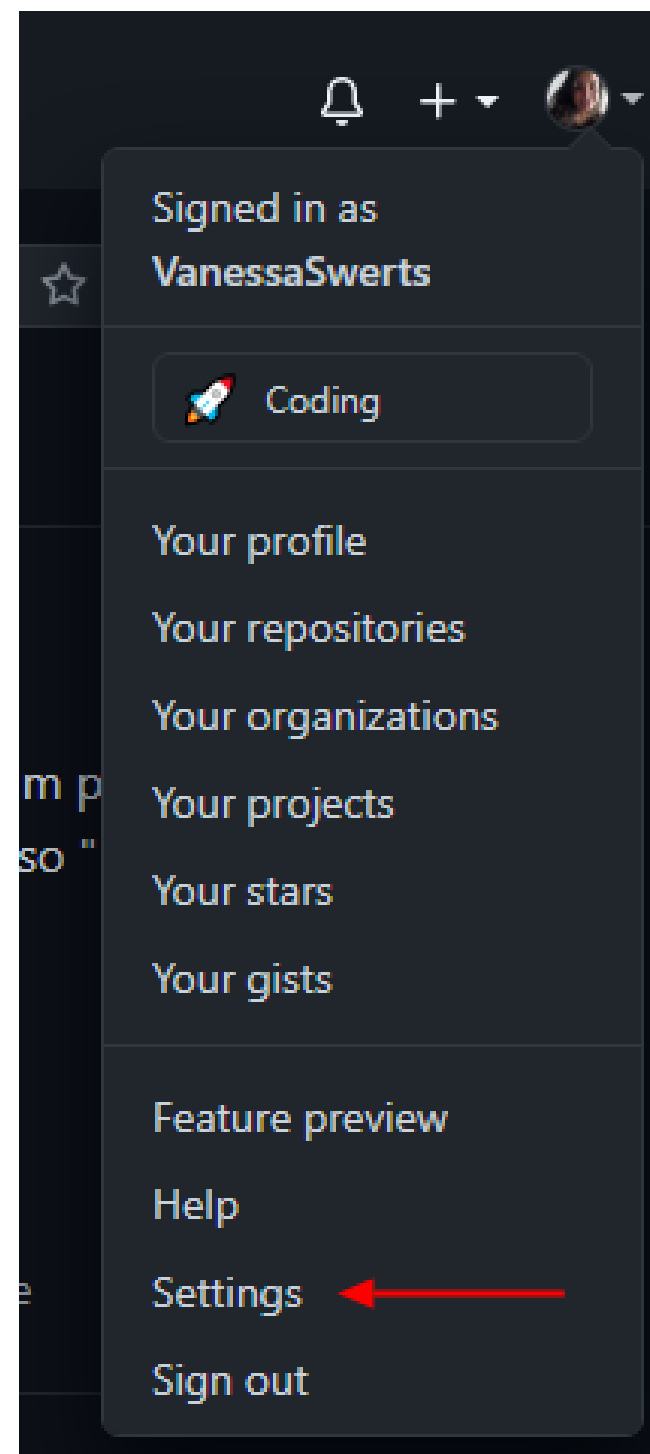
- Como mudar o nome da branch padrão no GitHub



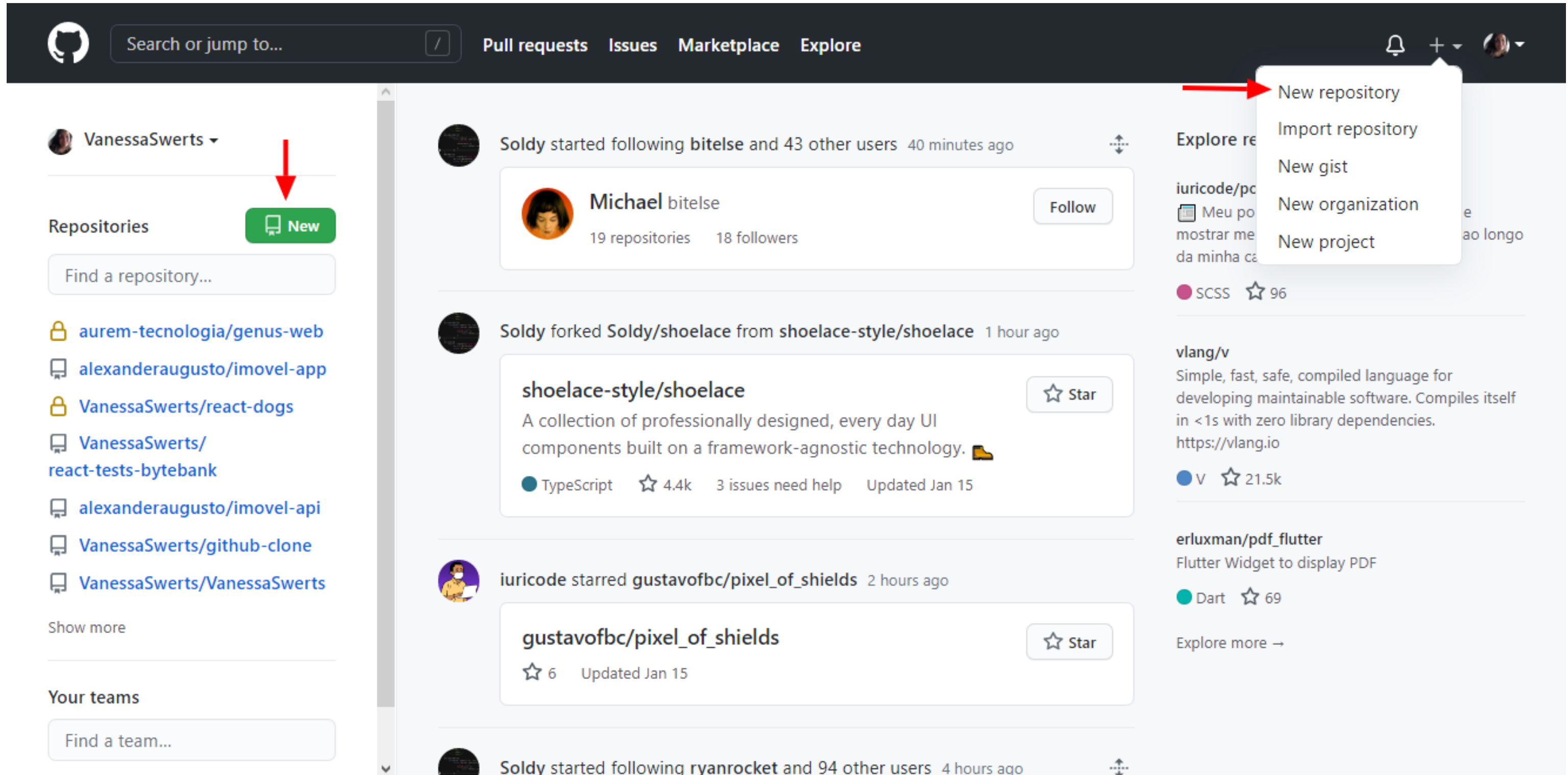
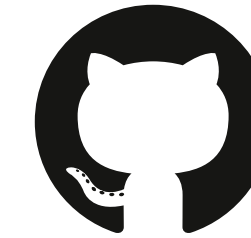
Criar um repositório no GitHub



- Como mudar o nome da branch padrão no GitHub



Criar um repositório no GitHub



The screenshot shows the GitHub homepage for user VanessaSwerts. A red arrow points to the 'New' button in the 'Repositories' section. Another red arrow points to the '+' icon in the top right navigation bar, which has opened a dropdown menu with the following options: 'New repository', 'Import repository', 'New gist', 'New organization', and 'New project'.

Navigation Bar: Search or jump to..., Pull requests, Issues, Marketplace, Explore, Notifications, +, Profile.

User Profile: VanessaSwerts

Repositories: Find a repository... **New**

- aurem-tecnologia/genus-web
- alexanderaugusto/imovel-app
- VanessaSwerts/react-dogs
- VanessaSwerts/react-tests-bytebank
- alexanderaugusto/imovel-api
- VanessaSwerts/github-clone
- VanessaSwerts/VanessaSwerts

Show more

Your teams: Find a team...

Activity:

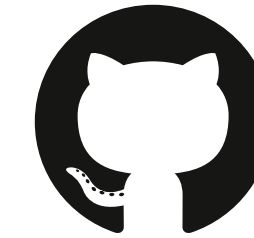
- Soldy started following bitelse and 43 other users 40 minutes ago
- Michael bitelse (19 repositories, 18 followers) Follow
- Soldy forked Soldy/shoelace from shoelace-style/shoelace 1 hour ago
- shoelace-style/shoelace (TypeScript, 4.4k stars, 3 issues need help, Updated Jan 15) Star
- iuricode starred gustavofbc/pixel_of_shields 2 hours ago
- gustavofbc/pixel_of_shields (6 stars, Updated Jan 15) Star
- Soldy started following ryanrocket and 94 other users 4 hours ago

Explore repositories:

- iuricode/po... Meu po... mostrar me... da minha ca...
- SCSS 96 stars
- vlang/v: Simple, fast, safe, compiled language for developing maintainable software. Compiles itself in <1s with zero library dependencies. https://vlang.io (21.5k stars)
- erluxman/pdf_flutter: Flutter Widget to display PDF (69 stars)

Explore more →

Criar um repositório no GitHub



Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?

[Import a repository.](#)

Owner *

 VanessaSwerts ▾

Repository name *

/

Nome do repositório

Great repository names are short and memorable. Need inspiration? How about [fuzzy-memory](#)?

Description (optional)

- ☒  **Public**
Anyone on the internet can see this repository. You choose who can commit.
- ☐  **Private**
You choose who can see and commit to this repository.

Você seleciona se o seu repositório será público ou privado.

Initialize this repository with:

Skip this step if you're importing an existing repository.

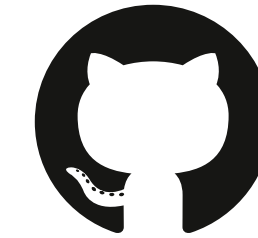
- ☐ **Add a README file**
This is where you can write a long description for your project. [Learn more.](#)
- ☐ **Add .gitignore**
Choose which files not to track from a list of templates. [Learn more.](#)
- ☐ **Choose a license**
A license tells others what they can and can't do with your code. [Learn more.](#)


Algumas opções para inicializar o repositório.


Create repository

Inatel


Criar um repositório no GitHub




 VanessaSwerts / aula3-git Private

 Unwatch


1


 Star


0


 Fork


0


 Code


 Issues


 Pull requests


 Actions


 Projects


 Wiki


 Security

 Insights

 Settings


 main


 1 branch

 0 tags


Go to file

Add file

 Code

 VanessaSwerts Initial commit

76d8710 now 1 commit

 LICENSE

Initial commit

now

Add a README with an overview of your project.

Add a README

About

Repositório para a aula de Controle de Versão do lab de C214

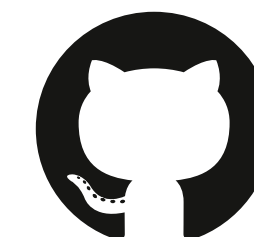
Releases

No releases published
[Create a new release](#)

Packages

No packages published
[Publish your first package](#)

Adicionar o projeto no repositório



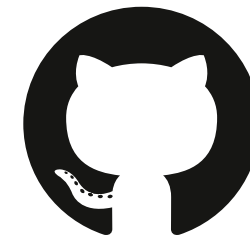
<code>git init</code>	Inicia um novo repositório local na pasta do seu projeto
<code>git remote add origin https://github.com/jpgSouza/teste-aula.git</code> ATENÇÃO: troque pelo caminho do seu repositório do Github	Associa seu repositório local ao repositório remoto, com o apelido de "origin"
<code>git pull origin master</code> ATENÇÃO: este comando só é necessário se você criou o <code>.gitignore</code> pelo Github	Atualiza seu repositório local em relação ao repositório remoto
<code>git status</code>	Verifica arquivos
<code>git add .</code>	Adiciona todos arquivos ao stage
<code>git commit -m "Projeto criado"</code>	Salva uma nova versão do projeto
<code>git push -u origin master</code> Nota: nas próximas vezes basta fazer: <code>git push</code>	Envia o repositório local para o repositório remoto

Principais operações

Depois de inicializado o repositório, basta utilizar estes comandos para qualquer mudança no repositório local.

<code>git status</code>	Verifica arquivos
<code>git add .</code>	Adiciona todos arquivos ao stage
<code>git commit -m "Projeto criado"</code>	Salva uma nova versão do projeto
<code>git push</code>	Envia o repositório local para o repositório remoto

Outras operações



Problema	Comando
Quero desfazer tudo que eu fiz desde o último commit	<code>git clean -df</code> <code>git checkout -- .</code>
Preciso remover o último commit, porém mantendo os arquivos do jeito que estão.	<code>git reset --soft HEAD~1</code>
Preciso remover o último commit, inclusive as alterações nos arquivos.	<code>git reset --hard HEAD~1</code>
Quero alterar temporariamente os arquivos do projeto de modo a ficarem no estado do commit informado. ATENÇÃO: não podem haver modificações não commitadas no projeto. NOTA: para voltar ao último commit faça: <code>git checkout master</code>	<code>git checkout</code> EXEMPLO: <code>git checkout e8a52f3</code>
Preciso apagar o último commit no Github	<code>git push -f origin HEAD^:master</code>
Quero mudar o meu repositório remoto "origin"	<code>git remote set-url origin</code> <code>https://github.com/acenelio/novoprojeto.git</code>
Entrei no VIM por engano. Como sair?	Tecle ESC, depois digite <code>:q!</code> e tecle ENTER

Arquivos do git

- **README**

- Documentação do nosso projeto.

- **.gitignore**

- Utilizado para ignorar alguns arquivos que não são necessários para a compilação do projeto.
- Cada linguagem possui seu próprio .gitignore

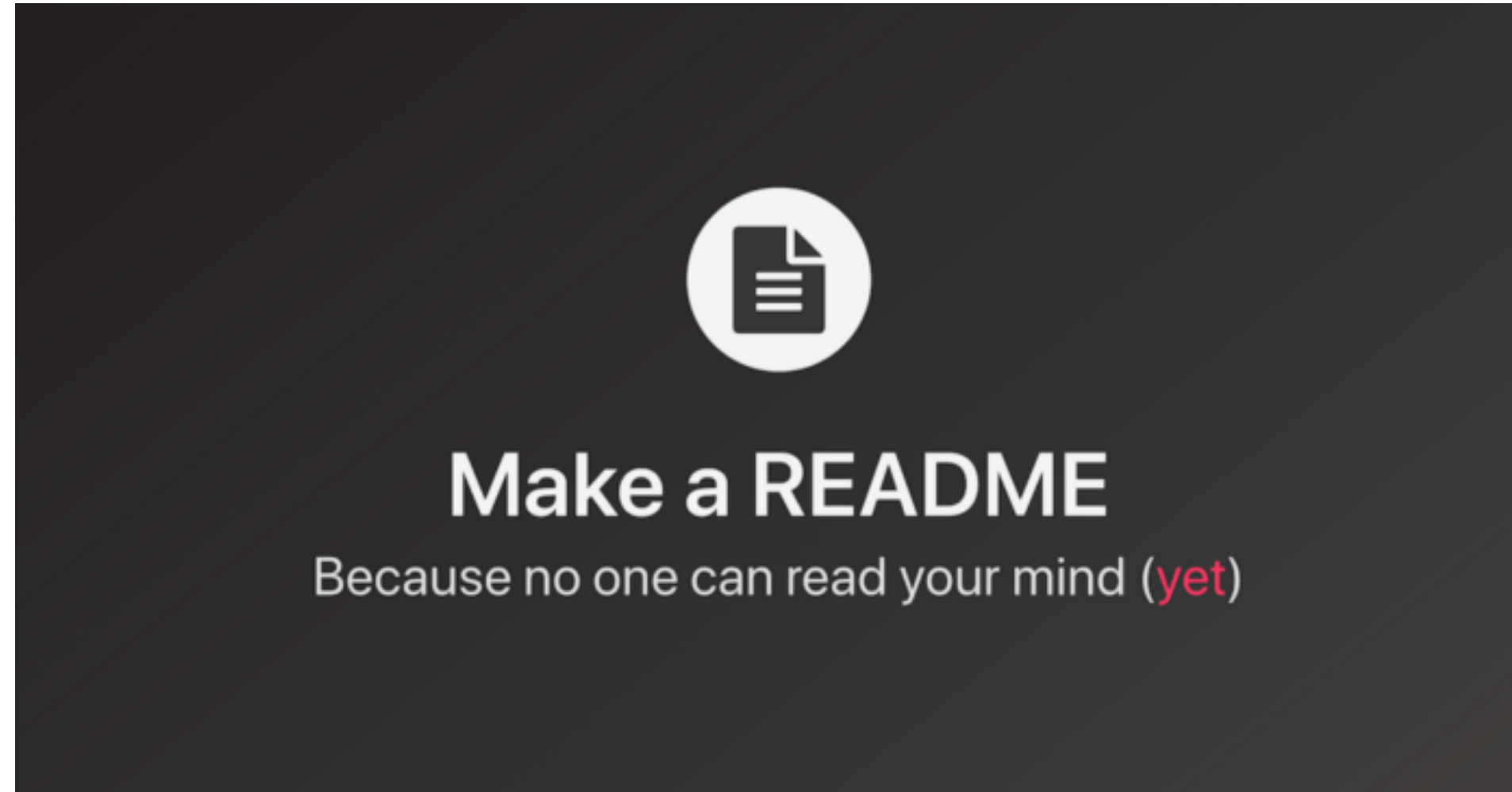
- **LICENSE**

- Torna seu repositório open source
- Permite que outros usuários tenham liberdade de usar, alterar e distribuir

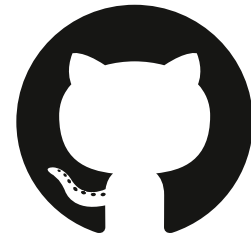
Arquivos do git

- **README**

- Por que ter um README?
- Como criar um README ?
- O que colocar no README ?

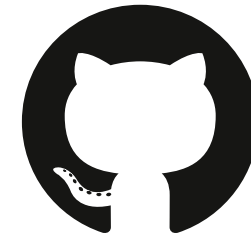


Utilidades



- **Links úteis**
- **.gitignore**
 - <https://www.toptal.com/developers/gitignore>
- **README**
 - <https://blog.rocketseat.com.br/como-fazer-um-bom-readme/>
- **Badges**
 - <https://shields.io>

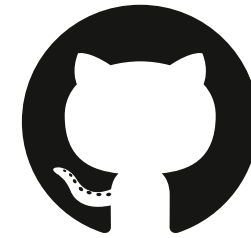
Recursos do GitHub



- **README para o perfil**

- Crie um repositório com um nome que corresponde ao seu nome de usuário do GitHub.
- O repositório é público
- O repositório contém um arquivo denominado README.md na sua raiz.
- O arquivo README.md contém qualquer conteúdo.

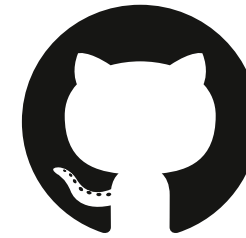
Recursos do GitHub



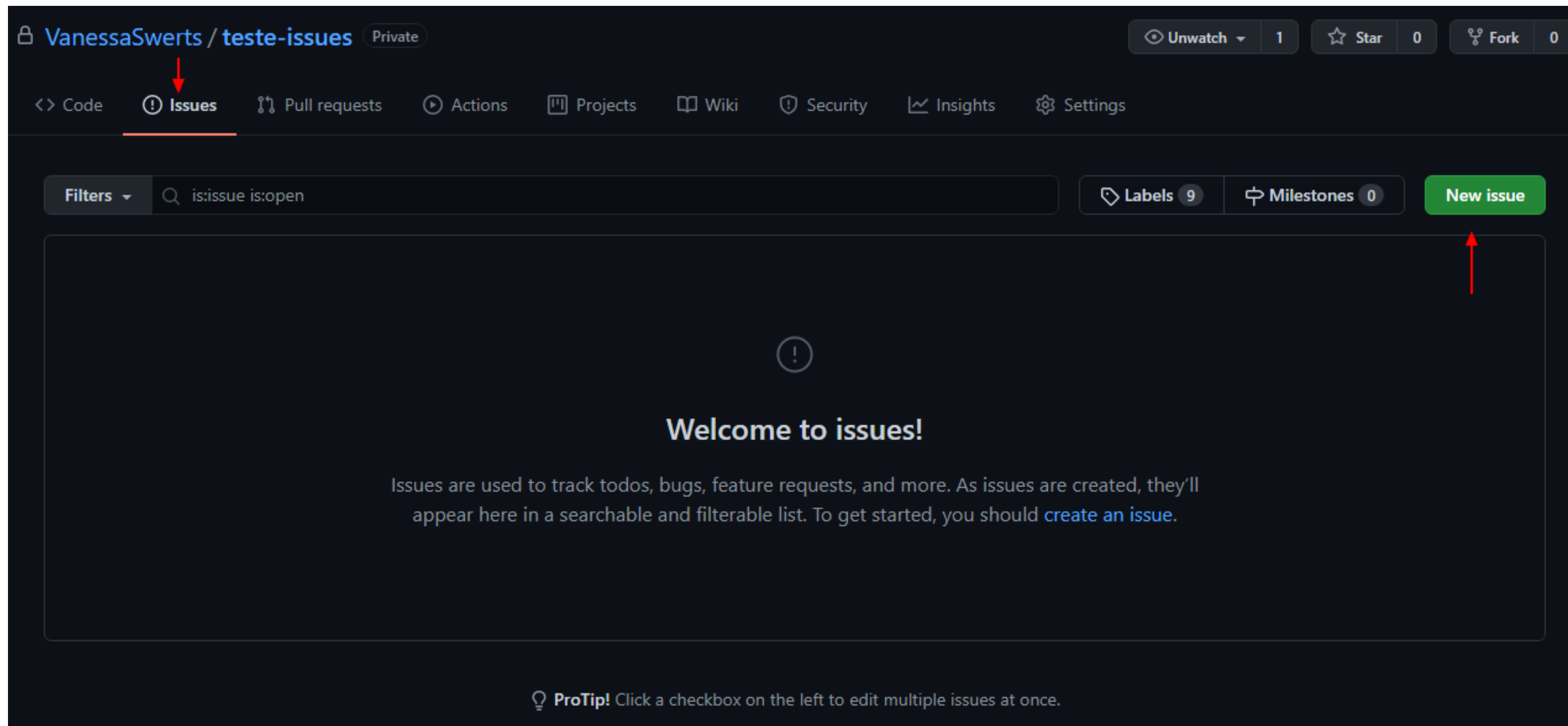
- **Issues**

- É uma ótima maneira de manter o controle de tarefas, melhorias e bugs para seus projetos.
- Você pode reportar bugs, erros de digitação e até mesmo uma possível solução para um problema enfrentado por uma determinada biblioteca.

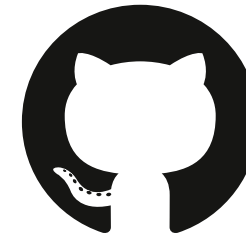
Recursos do GitHub



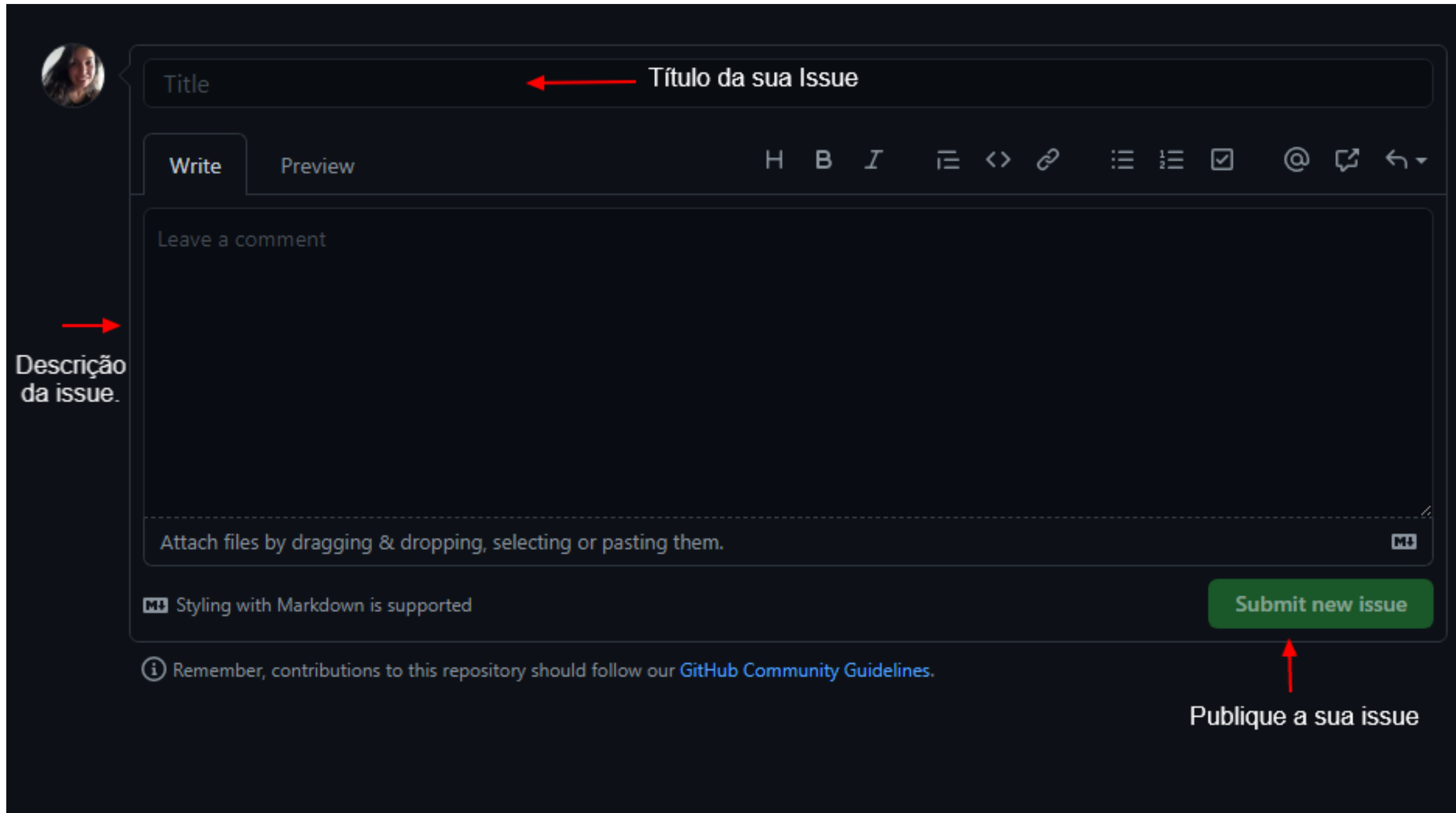
- Como criar uma issue ?



Recursos do GitHub



- Como criar uma issue ?



The screenshot shows the GitHub 'New Issue' form. A red arrow points to the 'Title' field with the text 'Título da sua Issue'. Another red arrow points to the 'Write' tab with the text 'Descrição da issue.'. A third red arrow points to the 'Submit new issue' button with the text 'Publique a sua issue'.

Title

Write Preview

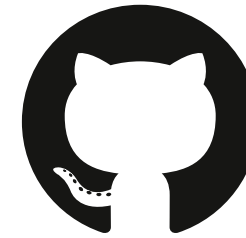
Leave a comment

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

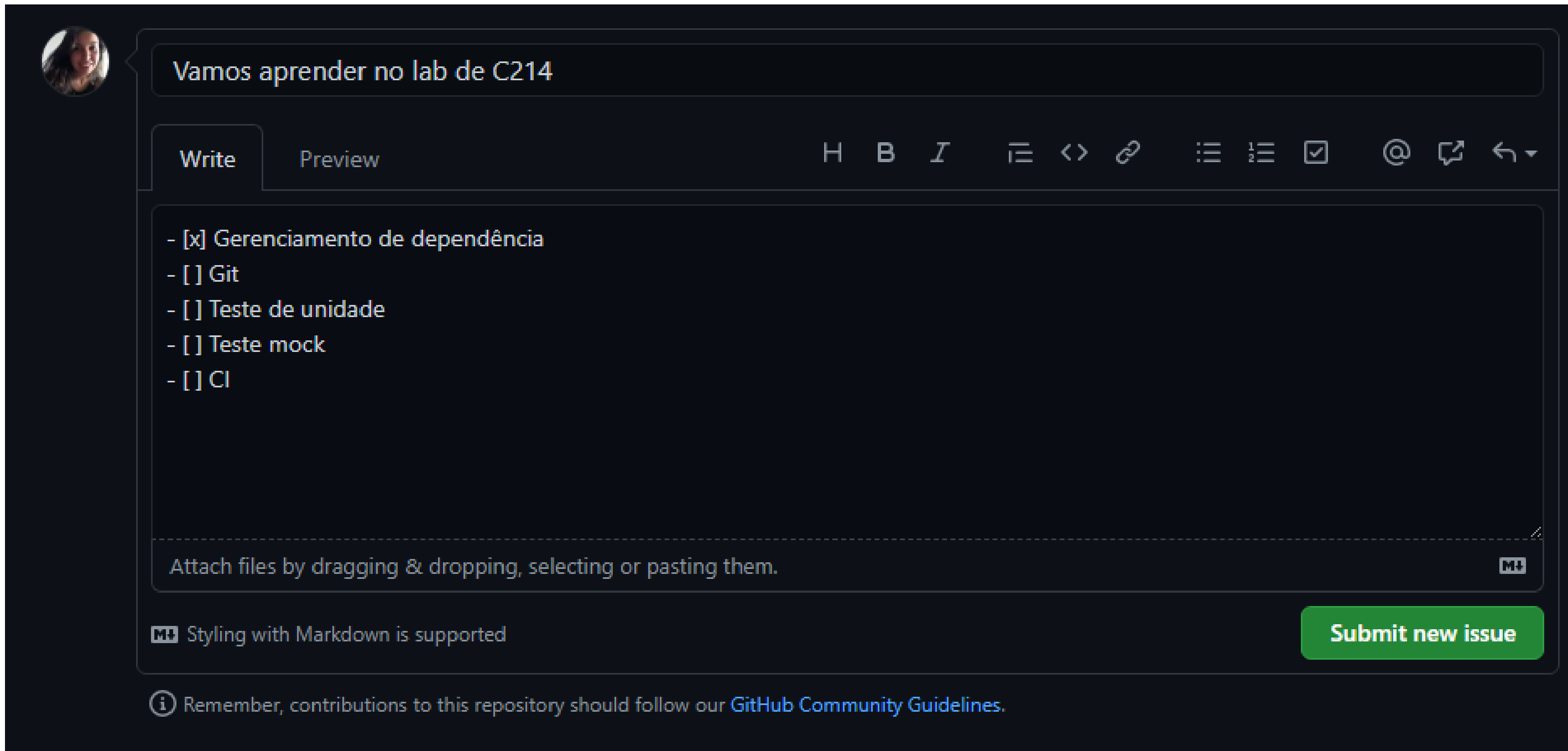
Submit new issue

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

Recursos do GitHub



- Criando issue para listar tarefas

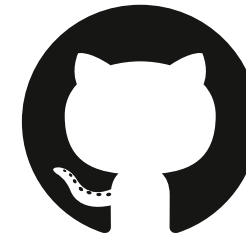


The screenshot shows the GitHub interface for creating a new issue. At the top, there's a header with a user profile picture and the title "Vamos aprender no lab de C214". Below the title, there are two tabs: "Write" (active) and "Preview". To the right of the tabs is a rich text editor toolbar with icons for bold (H), italic (B), underline (I), list (≡), code (<>), link (🔗), table (📊), table of contents (1/2 ≡), checkmark (☑), mention (@), share (🔗), and undo (↶). The main text area contains a bulleted list of tasks:

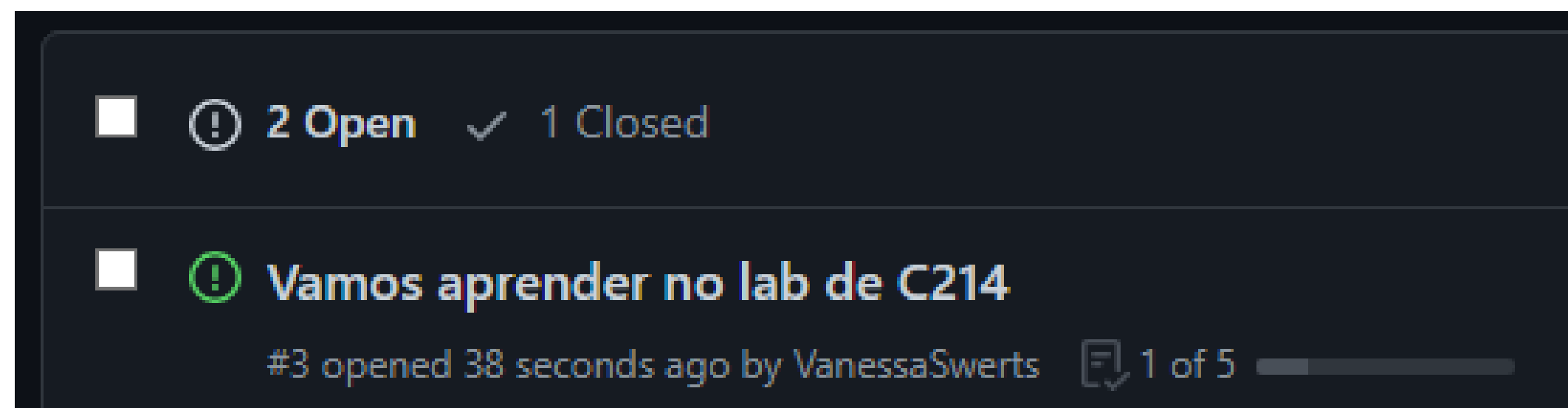
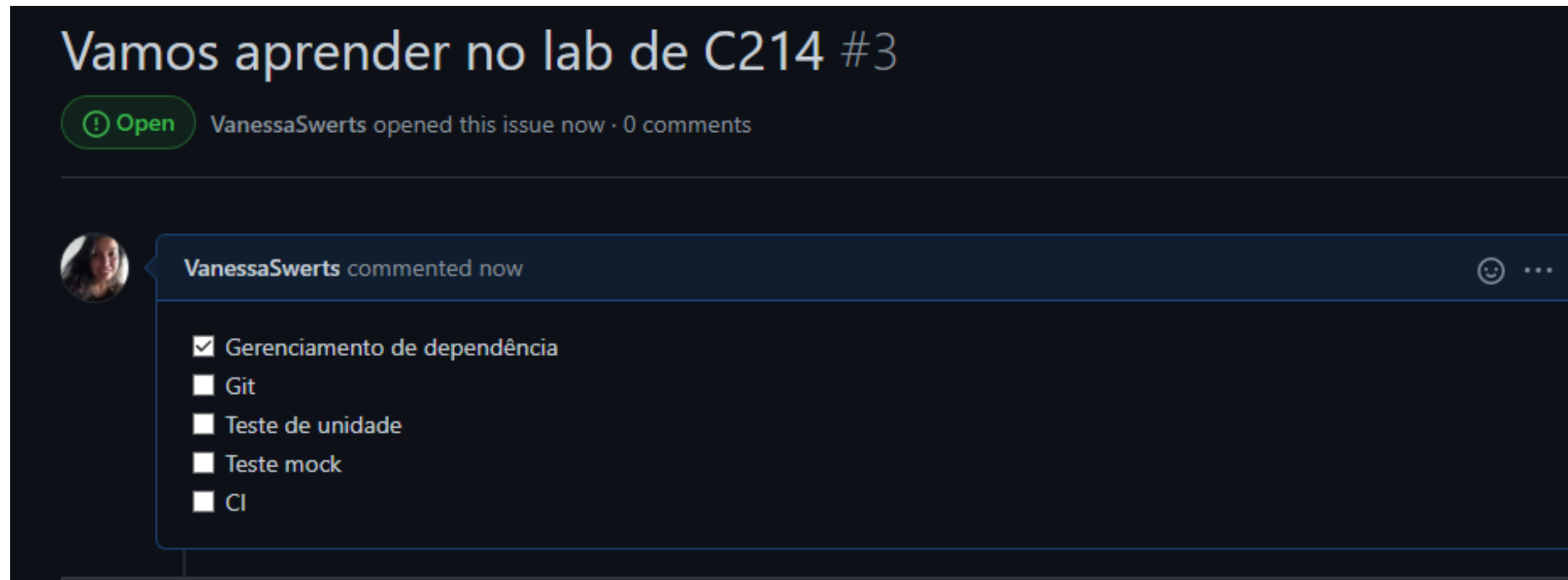
- [x] Gerenciamento de dependência
- [] Git
- [] Teste de unidade
- [] Teste mock
- [] CI

Below the list, there's a dashed line and a text prompt: "Attach files by dragging & dropping, selecting or pasting them." To the right of this prompt is a small "MP" icon. At the bottom left, there's a note: "MP Styling with Markdown is supported". At the bottom right, there's a green button labeled "Submit new issue". At the very bottom, there's a footer note: "Remember, contributions to this repository should follow our [GitHub Community Guidelines](#)."

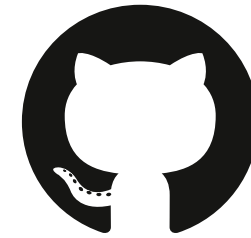
Recursos do GitHub



- Criando issue para listar tarefas



Recursos do GitHub

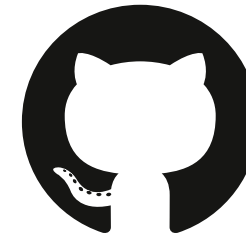


- **Pull Request**

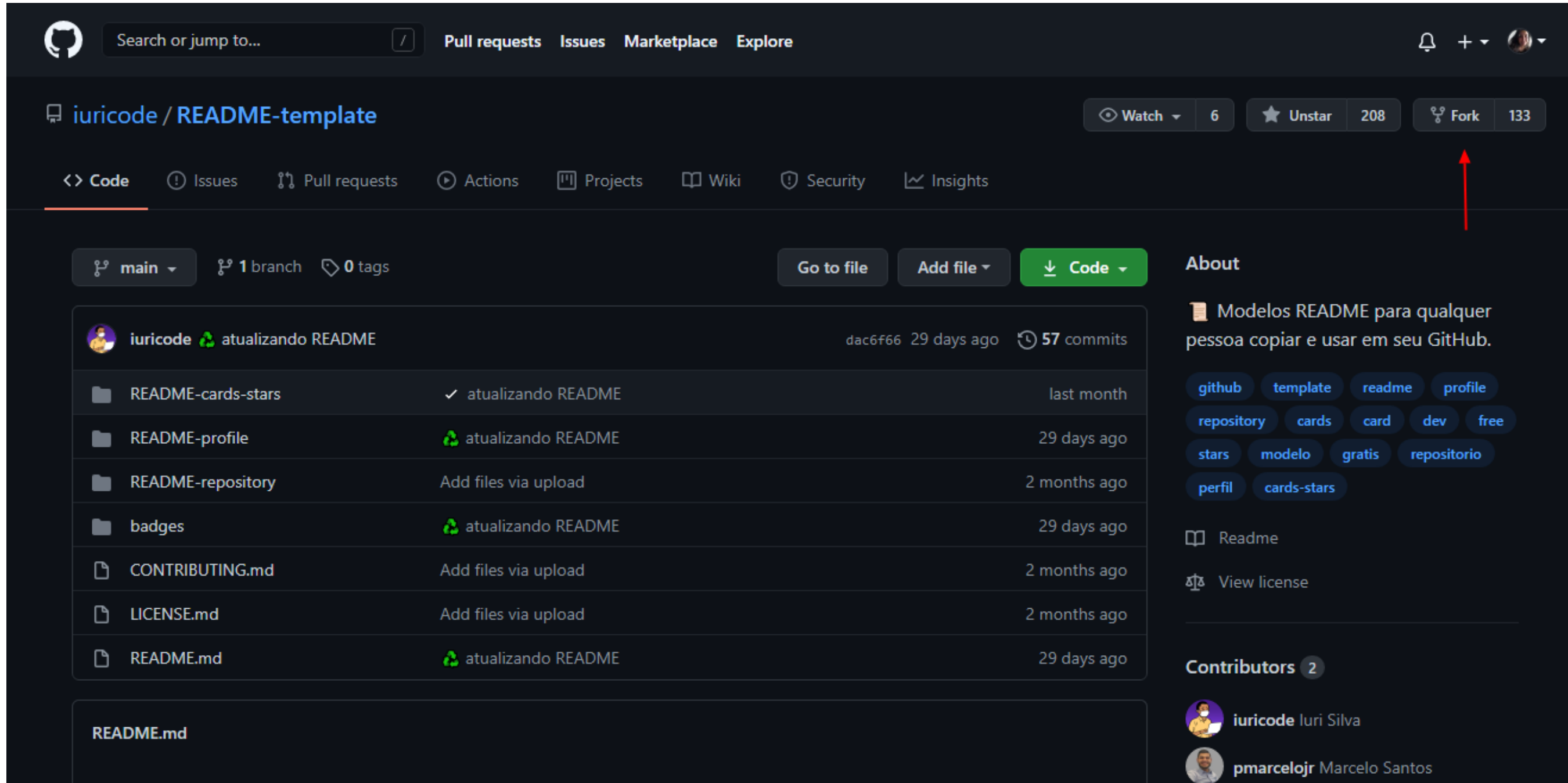
- Crie uma pull request para fazer sugestões e colaborar nas alterações de um repositório.
- Essas alterações são propostas em um branch, que garante que o branch-padrão só contém trabalho concluído e aprovado.

- **Mas como criar um Pull Request?**

Recursos do GitHub



- Faça o **Fork** do Repositório



The screenshot shows the GitHub interface for the repository `iuricode / README-template`. The top navigation bar includes a search bar, links for Pull requests, Issues, Marketplace, and Explore, and a user profile icon. The repository header shows the name `iuricode / README-template`, a Watch button (6), an Unstar button (208), and a Fork button (133). A red arrow points to the Fork button. Below the header, there are tabs for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, and Insights. The main content area shows the repository structure with a list of files and folders, including `README-cards-stars`, `README-profile`, `README-repository`, `badges`, `CONTRIBUTING.md`, `LICENSE.md`, and `README.md`. The right sidebar contains an 'About' section with a description, tags, and a list of contributors.

About

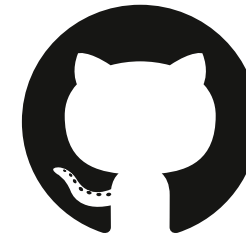
Modelos README para qualquer pessoa copiar e usar em seu GitHub.

Tags: `github`, `template`, `readme`, `profile`, `repository`, `cards`, `card`, `dev`, `free`, `stars`, `modelo`, `gratis`, `repositorio`, `perfil`, `cards-stars`

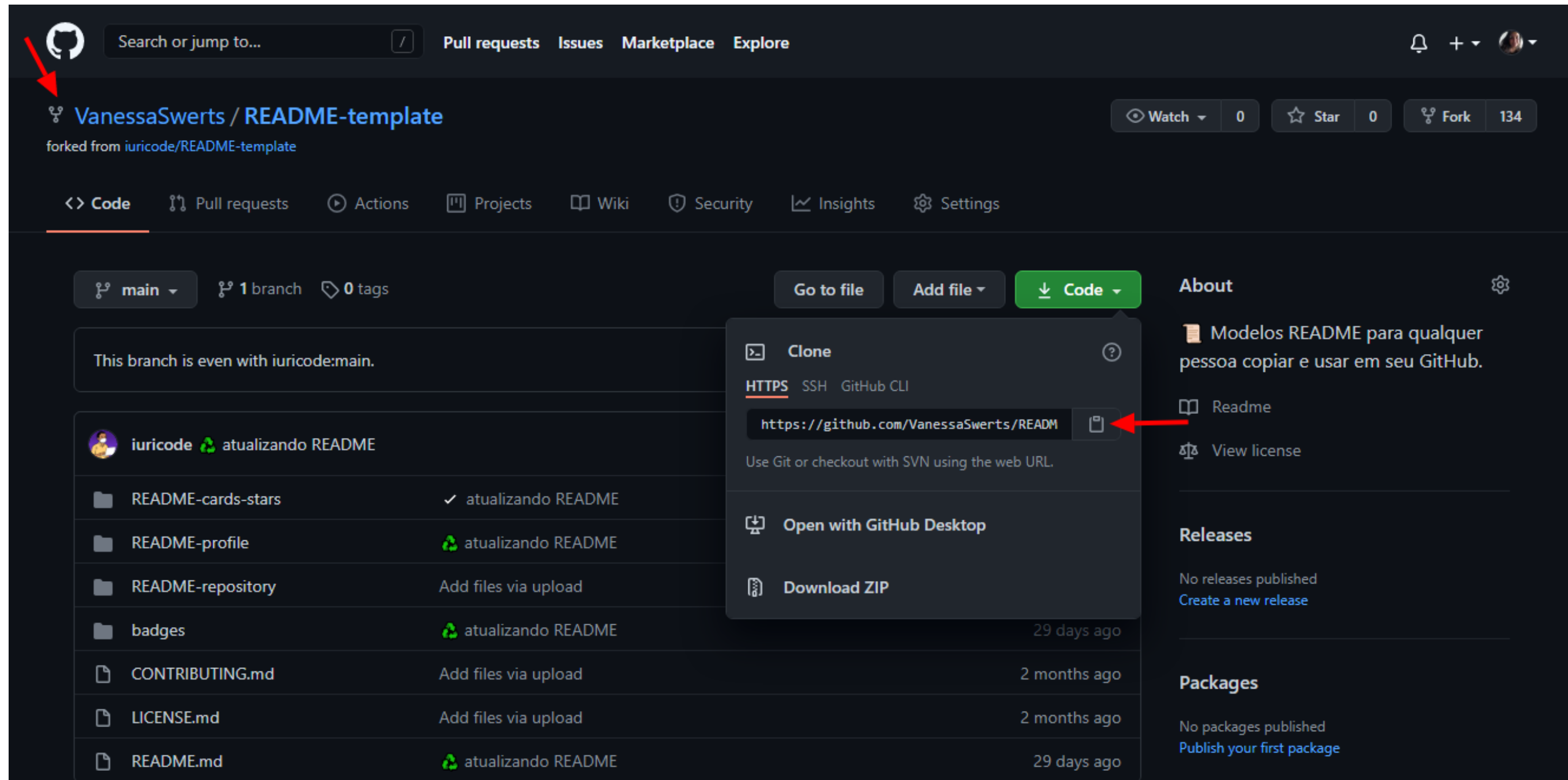
Contributors 2

- `iuricode` Iuri Silva
- `pmarcelojr` Marcelo Santos

Recursos do GitHub



- Clone o Repositório - **Git Clone**

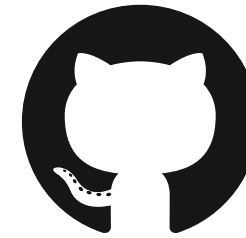


The screenshot shows the GitHub repository page for **VanessaSwerts / README-template**. The repository is forked from **iuricode/README-template**. The page includes a search bar, navigation links (Pull requests, Issues, Marketplace, Explore), and a sidebar with repository statistics (Watch, Star, Fork). The main content area shows the repository's structure, including a list of files and a table of recent updates.

File	Update	Time
README-cards-stars	✓ atualizando README	
README-profile	atualizando README	
README-repository	Add files via upload	
badges	atualizando README	29 days ago
CONTRIBUTING.md	Add files via upload	2 months ago
LICENSE.md	Add files via upload	2 months ago
README.md	atualizando README	29 days ago

```
$ git clone https://github.com/VanessaSwerts/README-template.git
```

Recursos do GitHub



- Crie uma Nova Branch

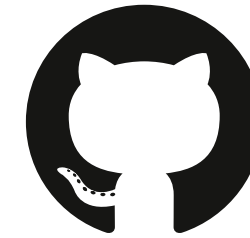
```
$ git checkout -b nova-branch
```

```
Vanessa Swerts@Swerts96 MINGW64 /e/Desktop/README-template (main)
$ git checkout -b new-readMe
Switched to a new branch 'new-readMe'

Vanessa Swerts@Swerts96 MINGW64 /e/Desktop/README-template (new-readMe)
$ |
```

- Faça Alterações Localmente

Recursos do GitHub



- Sobe as mudanças para o repo do Fork

```
Vanessa Swerts@Swerts96 MINGW64 /e/Desktop/README-template (novo-README)
$ git status
On branch novo-README
Untracked files:
  (use "git add <file>..." to include in what will be committed)
      README-profile/vanessaswerts.md

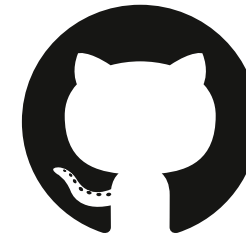
nothing added to commit but untracked files present (use "git add" to track)

Vanessa Swerts@Swerts96 MINGW64 /e/Desktop/README-template (novo-README)
$ git add .

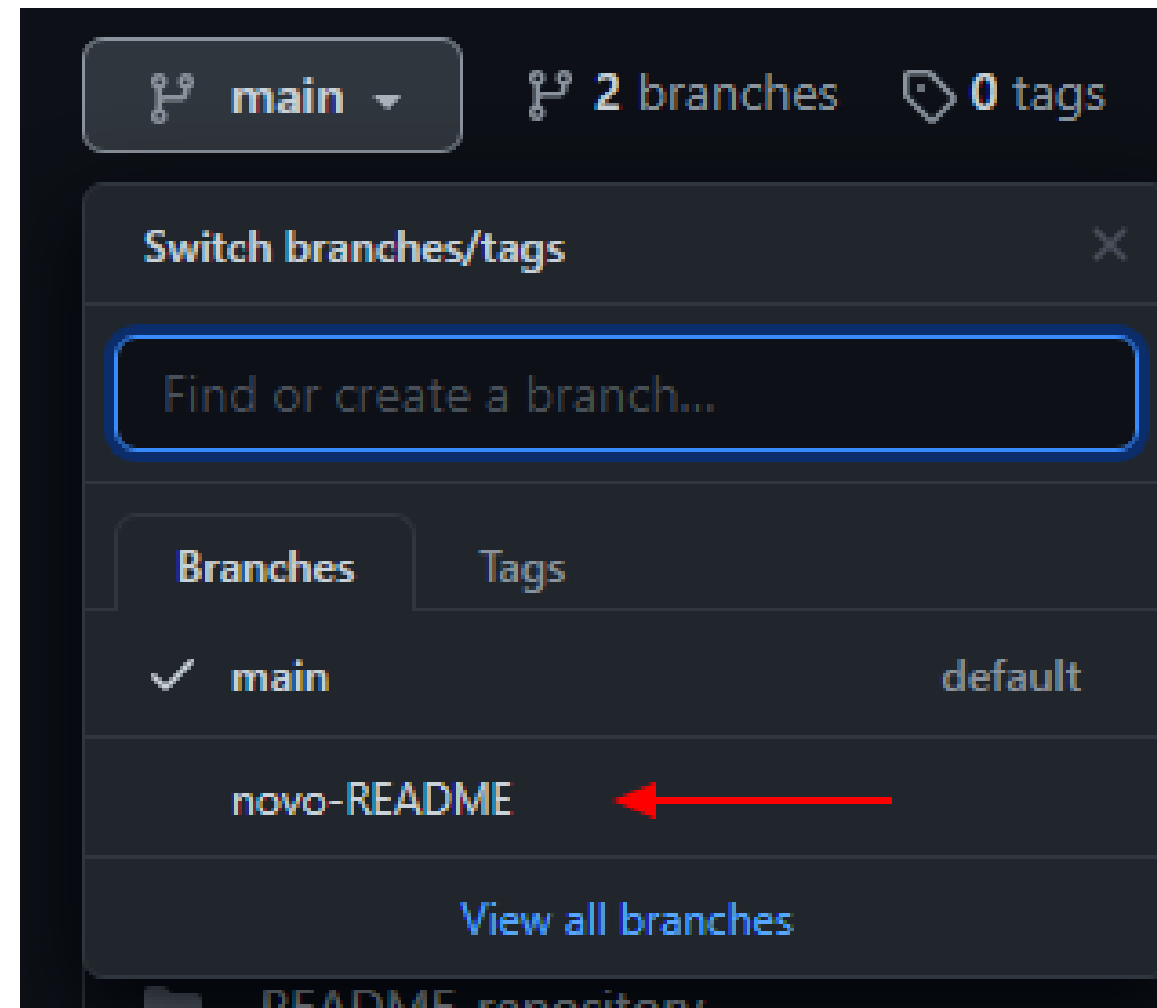
Vanessa Swerts@Swerts96 MINGW64 /e/Desktop/README-template (novo-README)
$ git commit -m "Adicionando novo template de README-profile"
[novo-README 2caf8c6] Adicionando novo template de README-profile
1 file changed, 59 insertions(+)
create mode 100644 README-profile/vanessaswerts.md

Vanessa Swerts@Swerts96 MINGW64 /e/Desktop/README-template (novo-README)
$ git push -u origin novo-README
```

Recursos do GitHub



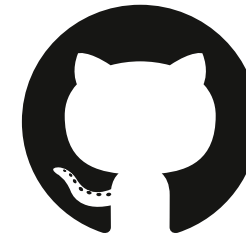
- No GitHub



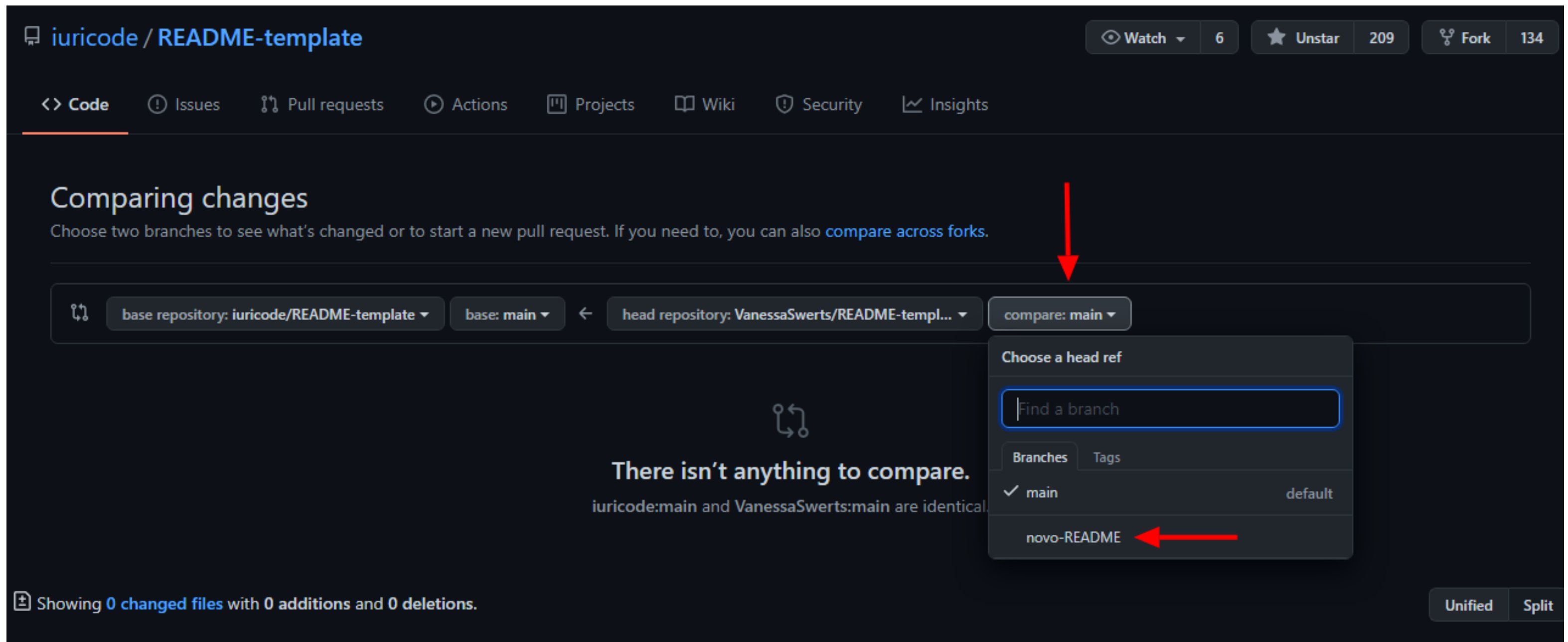
This branch is even with iuricode:main.

  Pull request  Compare

Recursos do GitHub



- Pull Request ...



iuricode / README-template

Watch 6 Unstar 209 Fork 134

Code Issues Pull requests Actions Projects Wiki Security Insights

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

base repository: iuricode/README-template base: main ← head repository: VanessaSwerts/README-templ... compare: main

Choose a head ref

Find a branch

Branches Tags

✓ main default

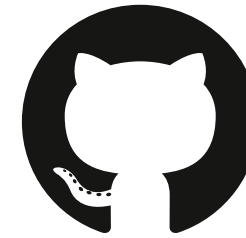
novo-README

There isn't anything to compare.
iuricode:main and VanessaSwerts:main are identical.

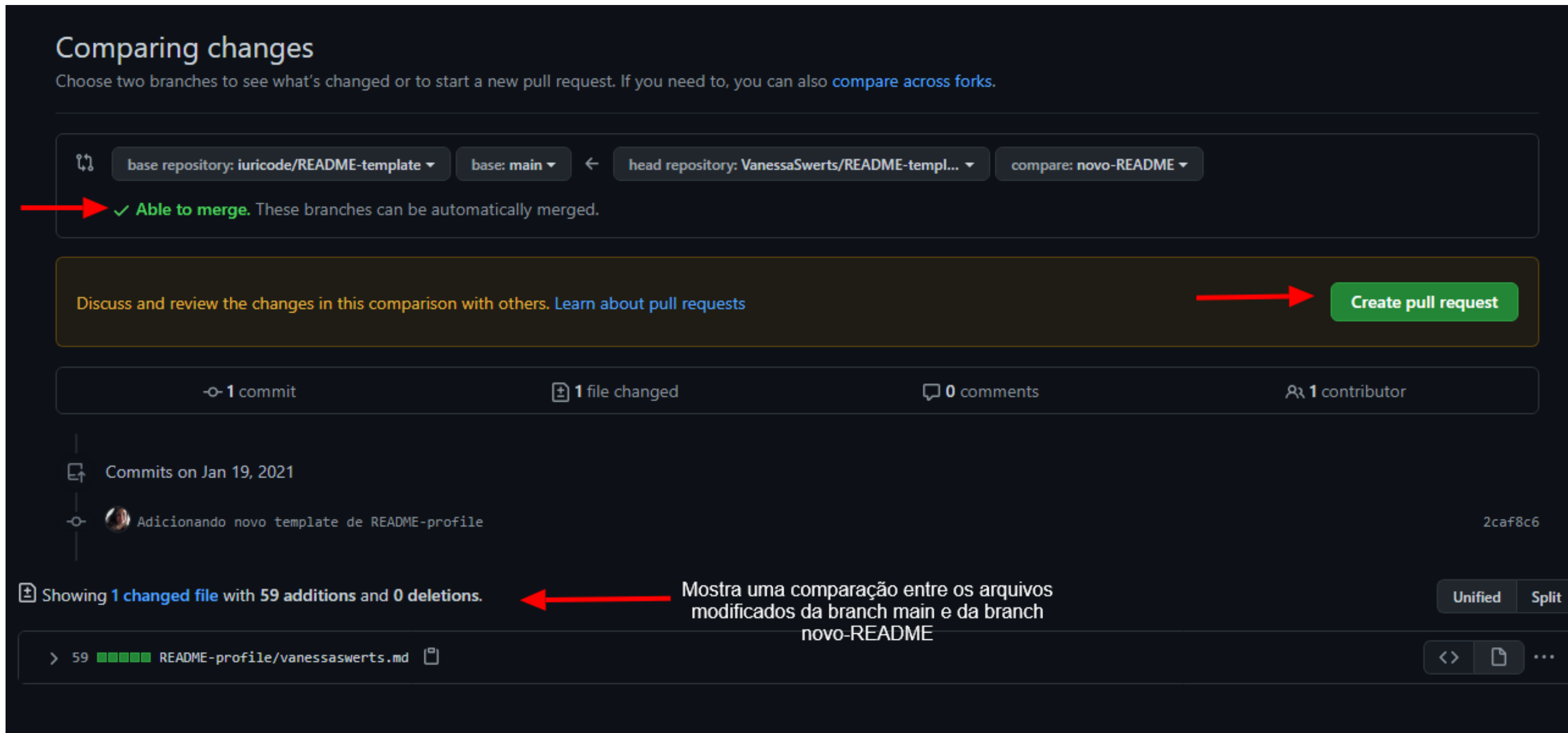
Showing 0 changed files with 0 additions and 0 deletions.

Unified Split

Recursos do GitHub



- Pull Request ...



Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

base repository: iuricode/README-template base: main head repository: VanessaSwerts/README-templ... compare: novo-README

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

Discuss and review the changes in this comparison with others. [Learn about pull requests](#)

Create pull request

1 commit 1 file changed 0 comments 1 contributor

Commits on Jan 19, 2021

Adicionando novo template de README-profile 2caf8c6

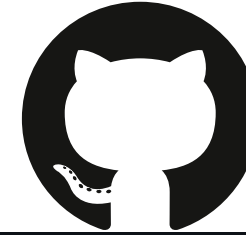
Showing 1 changed file with 59 additions and 0 deletions.

Mostra uma comparação entre os arquivos modificados da branch main e da branch novo-README

59 README-profile/vanessaswerts.md

Unified Split

Recursos do 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 repository: iuricode/README-template

base: main

head repository: VanessaSwerts/README-templ...

compare: novo-README










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




Adicionando novo template de README-profile


Write

Preview


H B I         

Leave a comment

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

☒ Allow edits by maintainers 

Create pull request

 Remember, contributions to this repository should follow its [contributing guidelines](#).


1 commit


1 file changed

0 comments

1 contributor

Commits on Jan 19, 2021





 Adicionando novo template de README-profile


2caf8c6

Showing 1 changed file with 59 additions and 0 deletions.

Unified Split

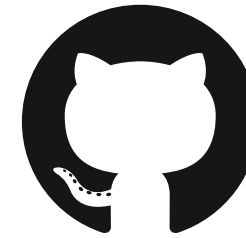
> 59  README-profile/vanessaswerts.md 

<>

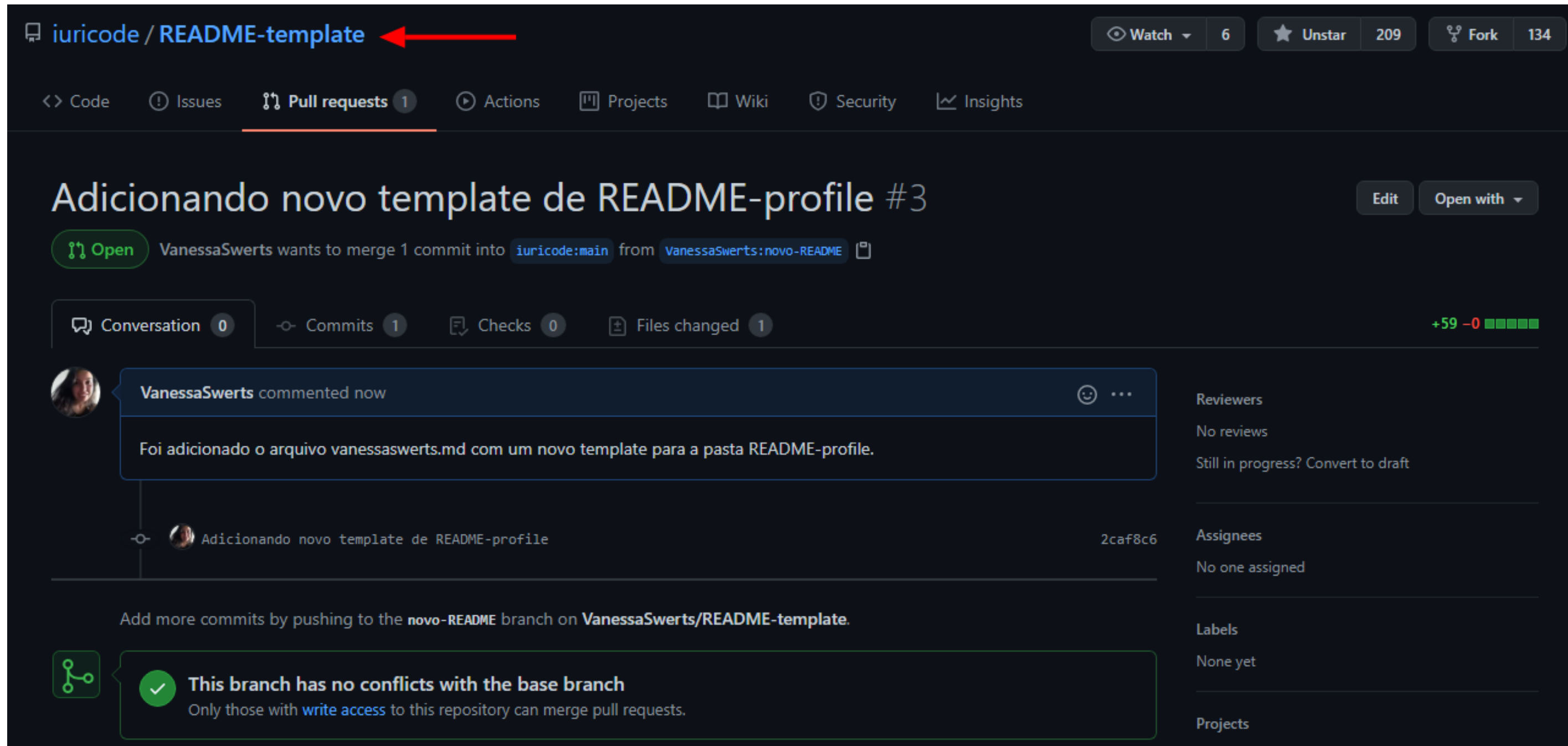


...

Recursos do GitHub

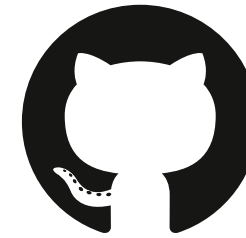


- Pull Request criado



The screenshot shows a GitHub Pull Request interface for the repository `iuricode / README-template`. A red arrow points to the repository name in the top navigation bar. The Pull Request title is "Adicionando novo template de README-profile #3". The description states: "VanessaSwerts wants to merge 1 commit into `iuricode:main` from `VanessaSwerts:novo-README`". The interface includes tabs for Conversation (0), Commits (1), Checks (0), and Files changed (1). A comment from VanessaSwerts says: "Foi adicionado o arquivo vanessaswerts.md com um novo template para a pasta README-profile." Below the comment, a commit titled "Adicionando novo template de README-profile" is shown with hash `2caf8c6`. A green status box at the bottom indicates: "This branch has no conflicts with the base branch. Only those with write access to this repository can merge pull requests." The right sidebar shows sections for Reviewers (No reviews), Assignees (No one assigned), Labels (None yet), and Projects.

Recursos do GitHub



- Pull Request aceito!

Adicionando novo template de README-profile #3

Merged iuricode merged 1 commit into `iuricode:main` from `VanessaSwerts:novo-README` 27 minutes ago

Conversation 1 Commits 1 Checks 0 Files changed 1

VanessaSwerts commented 36 minutes ago Contributor

Foi adicionado o arquivo `vanessaswerts.md` com um novo template para a pasta README-profile.

1

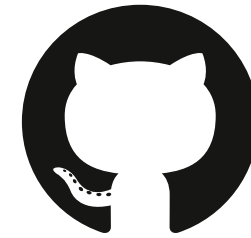
Adicionando novo template de README-profile 2caf8c6

iuricode commented 27 minutes ago Owner

Muito obrigado Vanessa pela contribuição! 🎉❤️

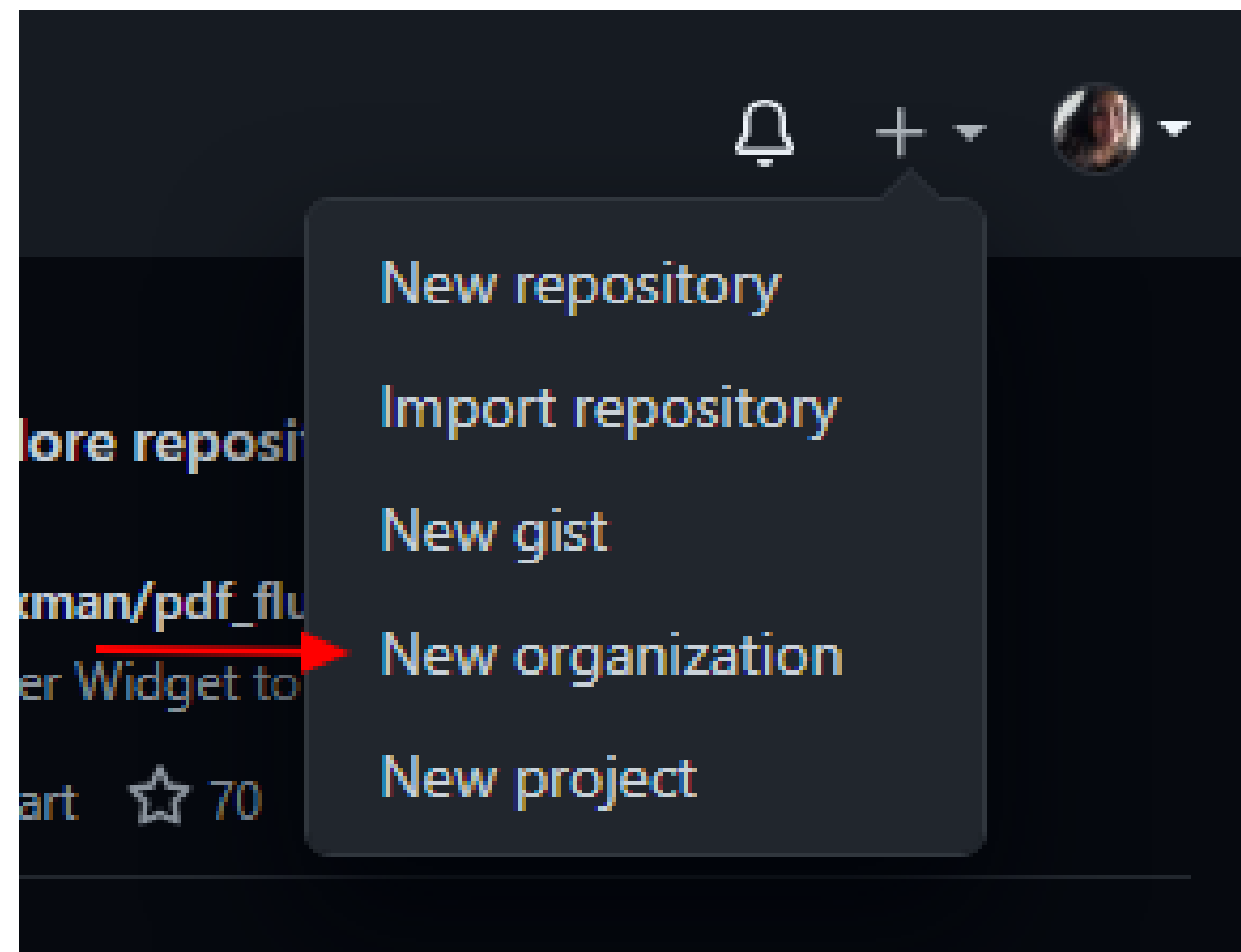
iuricode merged commit `dfa70d7` into `iuricode:main` 27 minutes ago Revert

Recursos do GitHub



- **Organizações**

- As organizações são contas compartilhadas onde empresas e projetos de código aberto podem colaborar em muitos projetos de uma vez.



Além do GitHub ...

- **BitBucket**
 - <https://bitbucket.org/product/>
- **GitLab**
 - <https://about.gitlab.com>
- **SourceForge**
 - <https://sourceforge.net>

Curiosidades

- **Arctic Code Vault**

- <https://archiveprogram.github.com>
- <https://archiveprogram.github.com/arctic-vault/>

- **GitHub Pro para estudantes**

- Acesse <https://education.github.com>
- Documentação explicando o passo a passo:
- **Acessar documentação**