



GitHub4Women

Domínio 1: Introdução ao Git e GitHub



Agenda

- 1 Controle de Versão
- 2 O que é Git?
- 3 Git x GitHub
- 4 GitHub Desktop
- 5 GitHub Mobile



Agenda

- 6 Navegação de Repositório
- 7 Markdown
- 8 Branch / Merge



O que é version control?



Controle de Versão

“O controle de versão é um sistema que registra alterações em um arquivo ou conjunto de arquivos ao longo do tempo para que você possa recuperar versões específicas posteriormente.”



O que é Git?



Um sistema de controle de versão **distribuído** (DVCS)

Gratuito e de código aberto

Projetado para lidar com tudo, desde projetos **pequenos** a muito **grandes**, com velocidade e eficiência



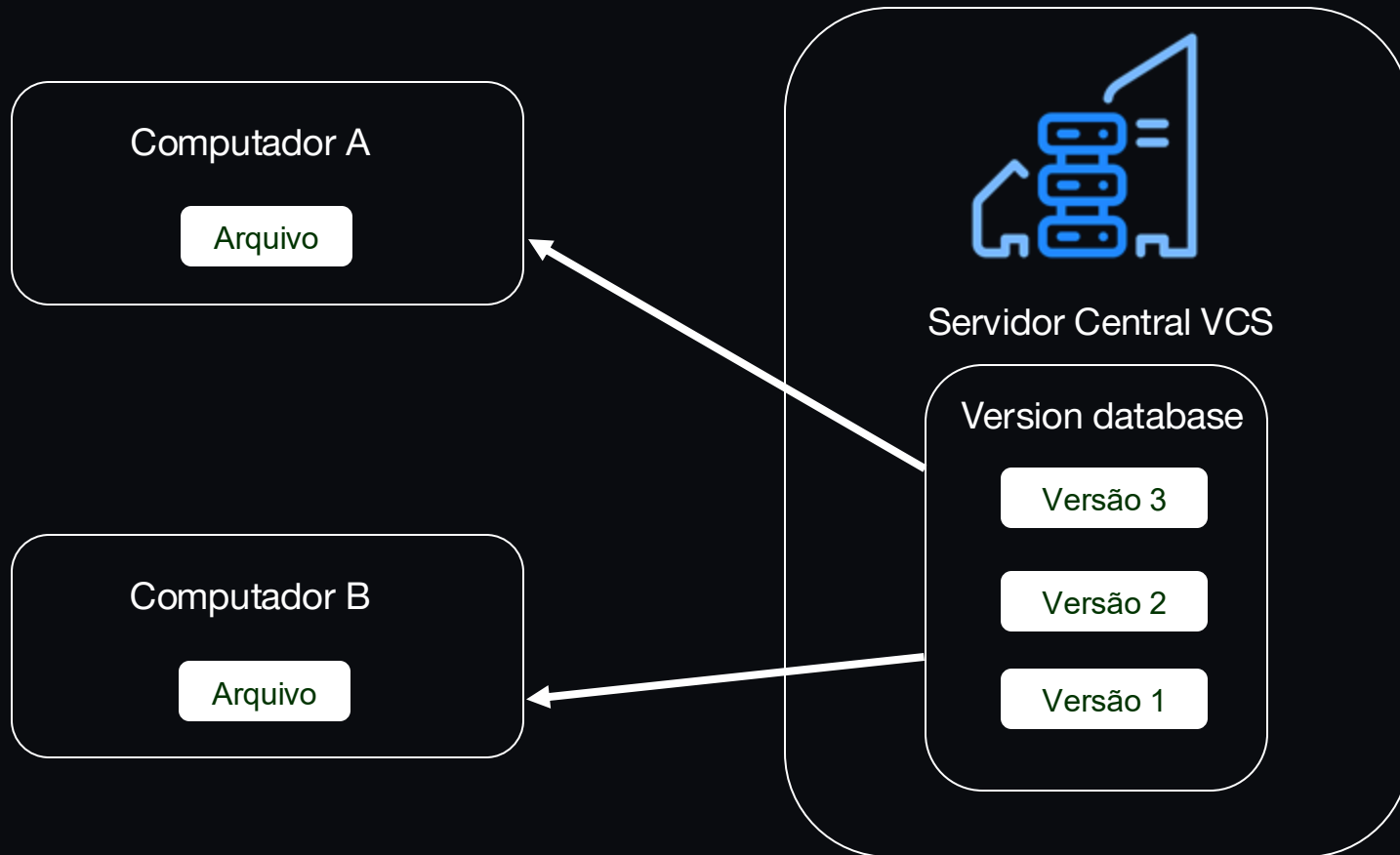
Otimizado para operações **locais**

Branching

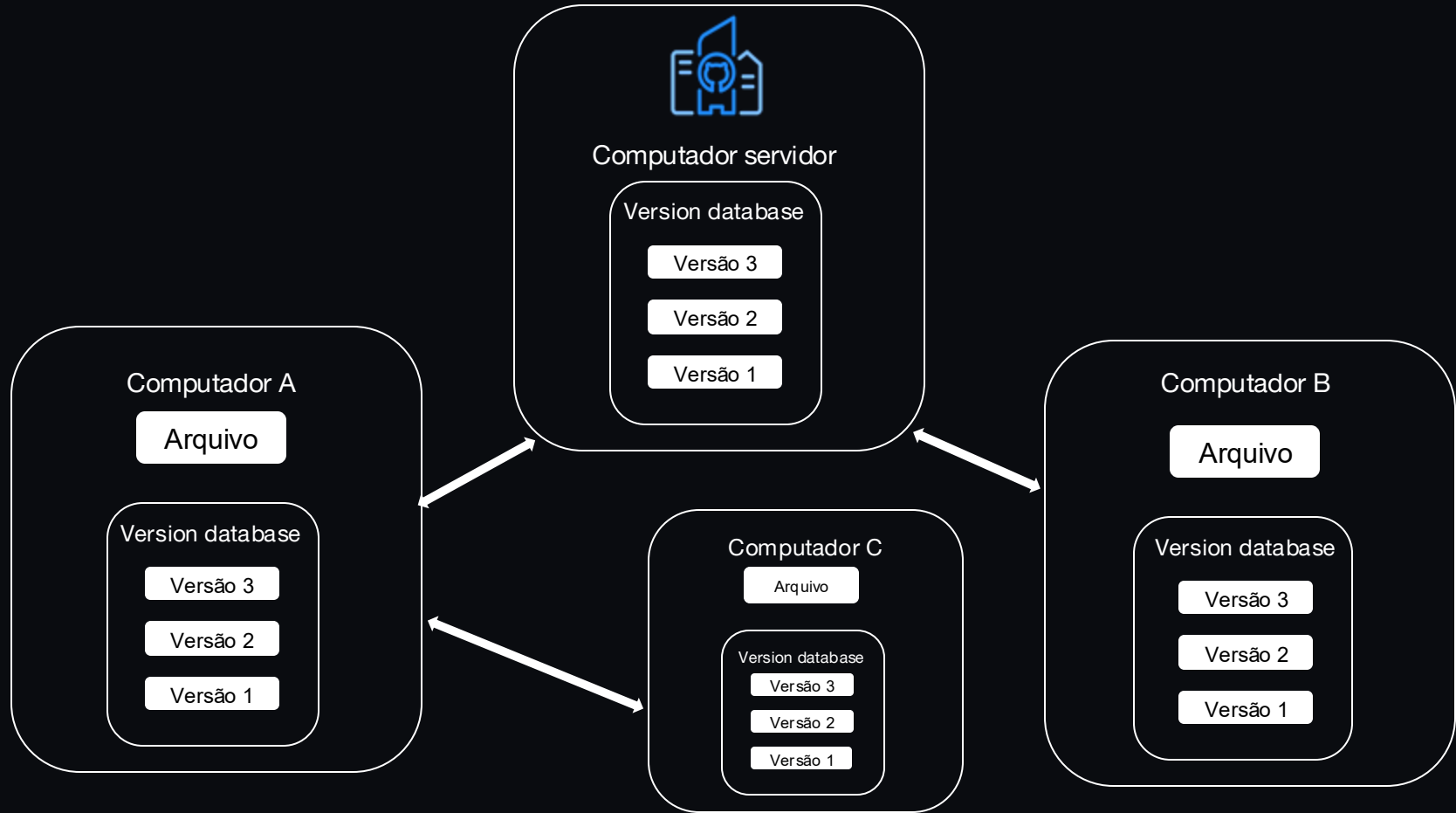
Snapshots, não deltas



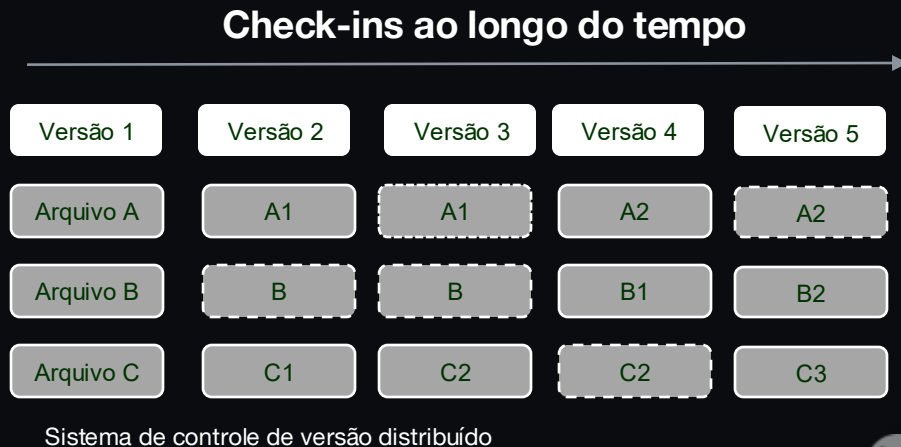
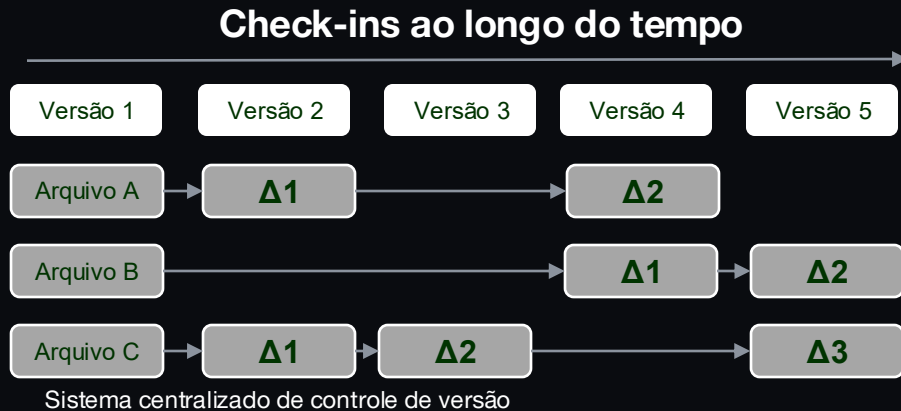
Controle de versão centralizado



Controle de versão distribuído

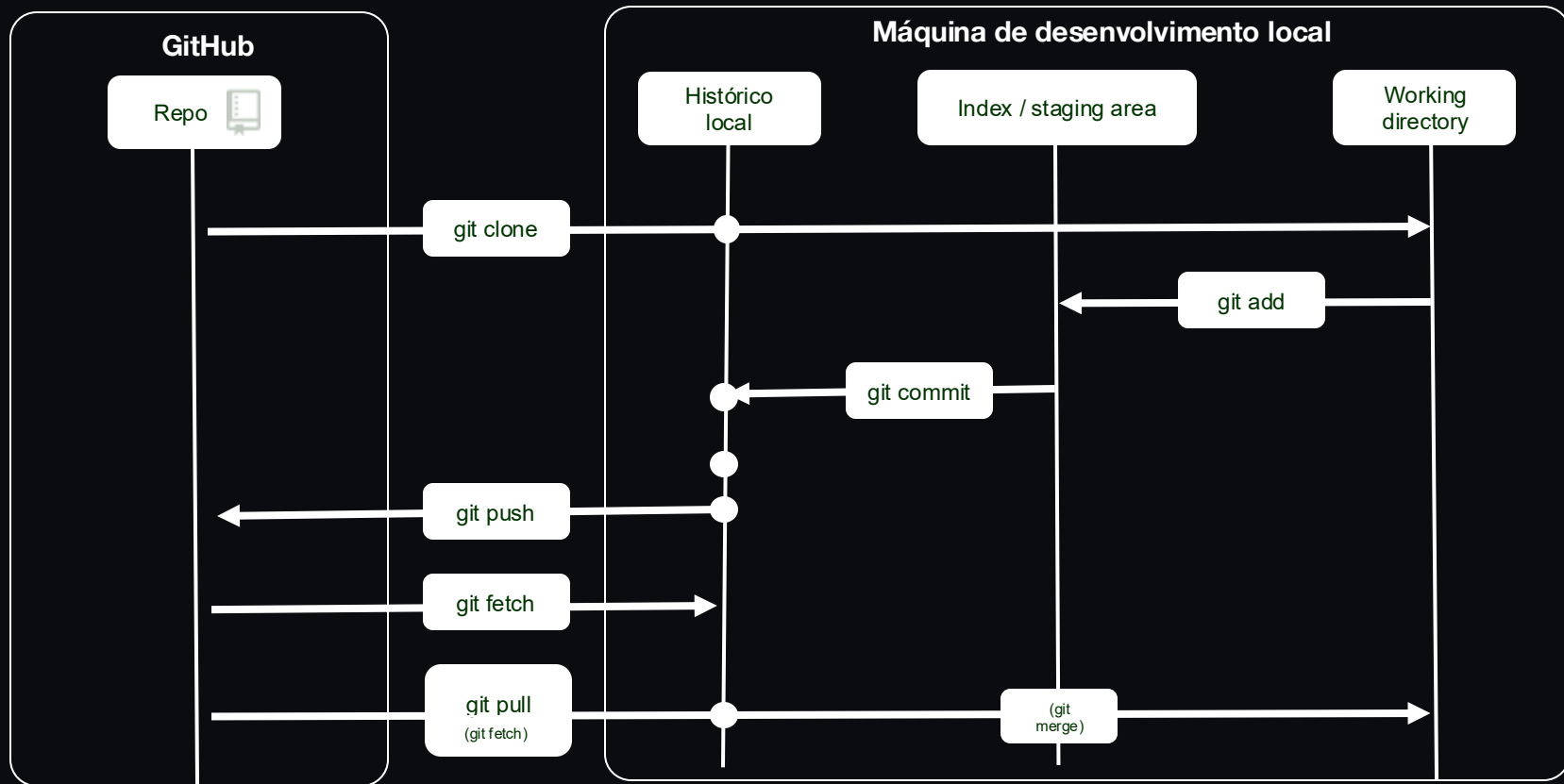


Snapshots vs deltas



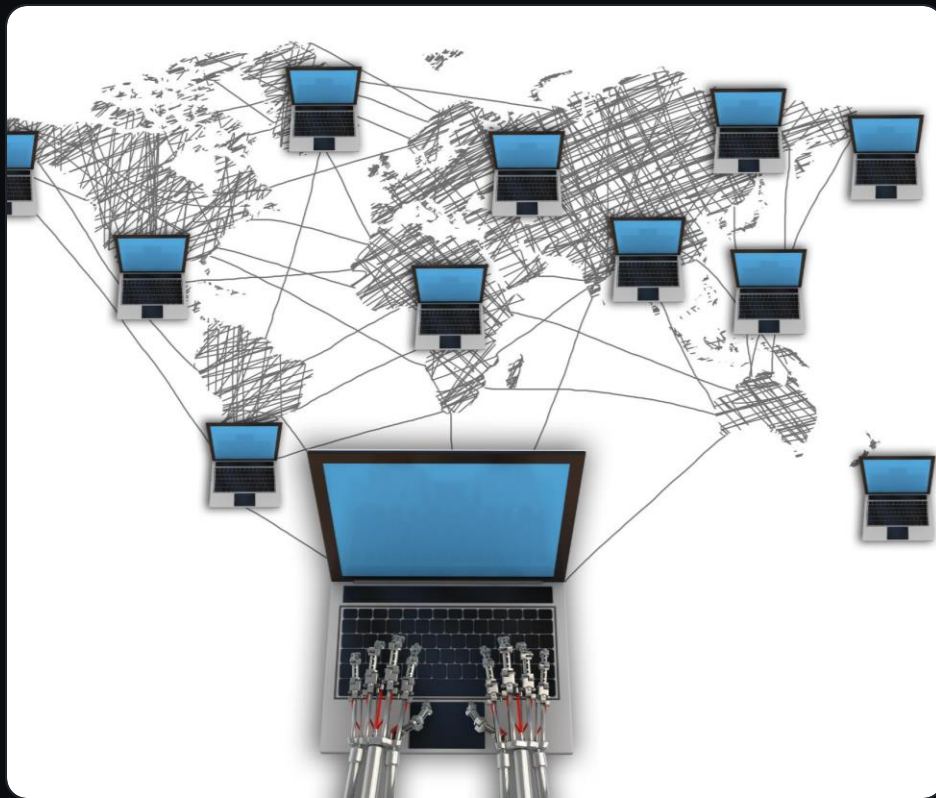


Como o Git interage com o GitHub



GIT é um Sistemas de Controle de Versão (VCS)

- ✓ Siga mudanças
- ✓ Backup de Histórico “snapshots”
- ✓ Time Developer
- ✓ Flexível - Local/DevOps tools



Terminologia

Working tree

Repository (repo)

Hash

Object

Commit

Branch

Remote

Comandos, Subcomandos, e opções



- `$git config`
- `$git init`
- `$git clone <path>`
- `$git add <file_name>`
- `$git commit`
- `$git status`
- `$git remote`
- `$git checkout <branch_name>`
- `$git branch`
- `$git push`
- `$git pull`
- `$git merge <branch_name>`
- `$git diff`
- `$git reset`
- `$git revert`
- `$git tag`
- `$git log`

Comandos básicos do Git





Demo

Git vs GitHub



Git vs GitHub

Git é um Sistema de Controle de Versão Distribuído (DVCS).

GitHub é uma plataforma de hospedagem de código-fonte e arquivos com controle de versão usando Git.

GitHub também é uma plataforma social para desenvolvedores colaborarem e compartilharem código.



GitHub Accounts and Plans

GitHub oferece uma variedade de tipos de contas, incluindo free (gratuitas) e paid (pagas).

Contas Pagas (Paid accounts) possuem acesso a funcionalidades adicionais, como maior armazenamento e segurança avançada.

Organizações podem também comprar planos que permitem maior colaboração e controle dos repositórios.



Contas

Personal

Organization

Enterprise

Planos

GitHub Free (Personal e
Organizations)

GitHub Pro

GitHub Team

GitHub Enterprise



GitHub Enterprise Server

O GitHub Enterprise Server é uma versão do GitHub que você pode hospedar no seu próprio ambiente de rede. Ele foi projetado para empresas que desejam a funcionalidade do GitHub, mas por razões de segurança ou regulamentação, precisam hospedá-lo em seus próprios servidores.



O GitHub Enterprise Server é ideal para organizações que precisam de um ambiente de desenvolvimento colaborativo, mas também precisam cumprir requisitos rigorosos de segurança e privacidade.










Como acessar o GitHub?



GitHub.com

 githubschool

[Overview](#) [Repositories](#) [Projects](#) [Packages](#) [People](#)

Repositories



- All
- Public
- Sources
- Forks
- Archived
- Mirrors
- Templates

All

[Beta](#) [Give feedback](#)


4k repositories

Last pushed




copilot-demo-website Public

HTML • 1 • 1 • 0 • 0 • Updated last week



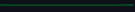
MeowWorld Public

Dockerfile • 0 • 0 • 0 • 0 • Updated last week




scratch Public

85 • 9 • 130 • 21 • Updated 2 weeks ago



copilot-custom-workshop-django-react-web Public


JavaScript • 0 • 1 • 0 • 0 • Updated 2 weeks ago



github-games Public

A fun way to learn about Git and GitHub

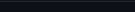
HTML • MIT License • 52 • 5 • 1 • 5 • Updated 3 weeks ago



thirty-minutes-to-merge Public

GitHub Community presents 30 Minutes To Merge - Git Branching Strategies; This is a demo repo

HTML • MIT License • 71 • 16 • 0 • 9 • Updated on Mar 21

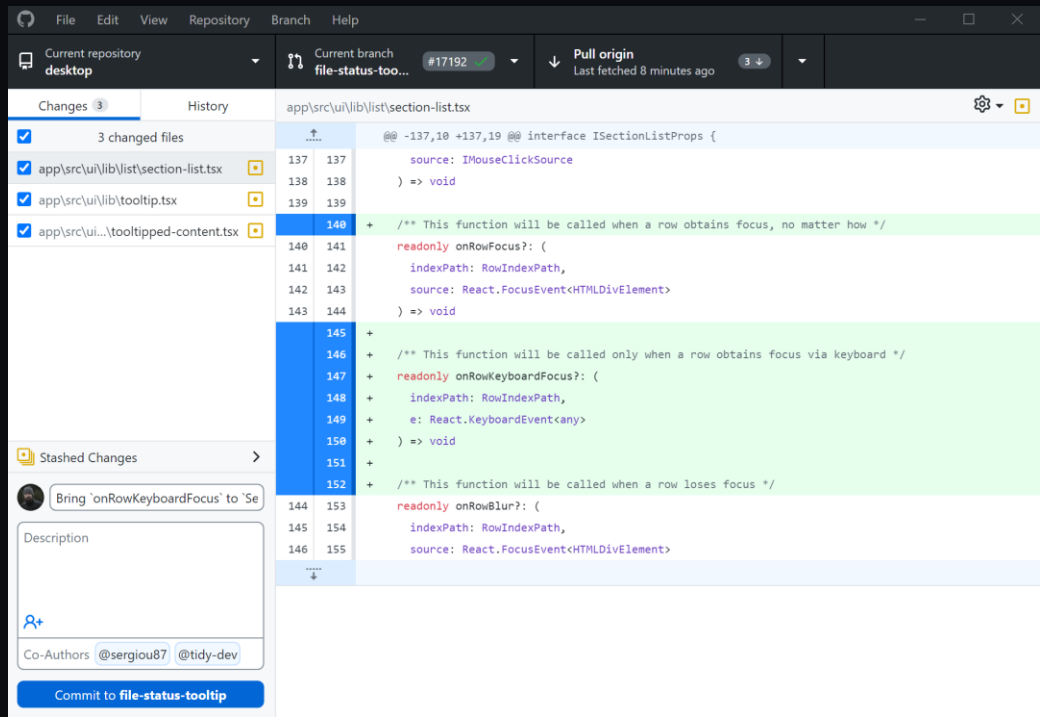




GitHub Desktop

GitHub Desktop é um aplicativo de software independente e de código aberto que permite que você seja mais produtivo

Facilita a colaboração entre você e sua equipe e o compartilhamento das melhores práticas de Git e GitHub dentro de sua equipe.



Com o GitHub Desktop você pode:

Adicionar e clonar repositórios.

Adicione alterações ao seu commit de forma interativa.

Adicione rapidamente coautores ao seu commit.

Confira filiais com solicitações pull e visualize status de CI.

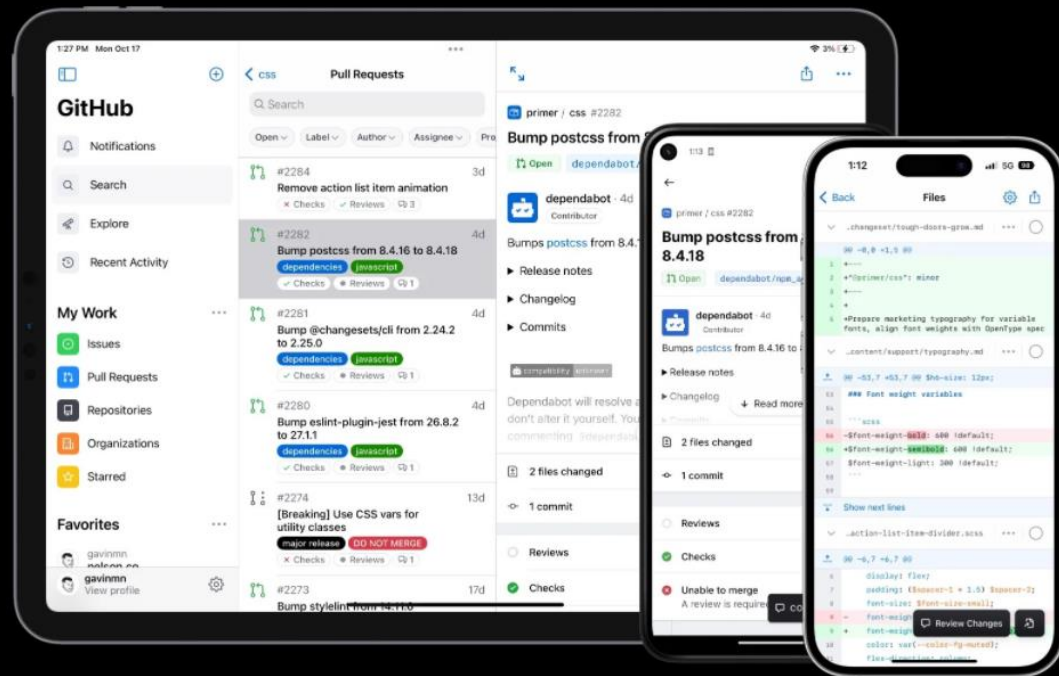
Comparar imagens alteradas



GitHub Mobile

GitHub Mobile oferece uma maneira de realizar trabalhos de alto impacto no GitHub rapidamente e de qualquer lugar.

GitHub Mobile é uma maneira segura de acessar seus dados do GitHub por meio de um aplicativo cliente próprio e confiável.



Com o GitHub Mobile você pode:

Gerenciar, fazer triagem e limpar notificações de github.com.

Ler, revisar e colaborar em problemas e solicitações pull.

Editar arquivos em pull requests.

Pesquisar, navegar e interagir com usuários, repositórios e organizações.

Receber uma notificação push quando alguém mencionar seu nome de usuário.

Agendar notificações push para horários personalizados específicos.

Proteger sua conta GitHub.com com autenticação de dois fatores.

Verificar suas tentativas de login em dispositivos não reconhecidos.



GitHub

Ecosistema

Navegação de Repositório



GitHub Marketplace

Extend GitHub

Add tools to help you build and grow

Explore apps

Contact sales



Types

Apps

Actions

Categories

API management

Chat

Code quality

Code review

Continuous integration

Dependency management

Deployment

Deployment Protection
Rules

Search for apps and actions

Sort: Most installed/starred

Apps



CircleCI

By circleci
Automatically build, test, and deploy your project in minutes

Recommended



Imgbot

By imgbot
A GitHub app that optimizes your images

Recommended



Rewind Backups for GitHub

By backhub
Automatic daily backups of your GitHub repos and metadata with on-demand restores to protect your business

Recommended



CodeFactor

By codefactor-io
Automated code review for GitHub

Recommended



Zenhub

By ZenHubIO
Agile Task Boards, Epics, Estimates and



Zube

By zubeio
An Agile project management tool that

O GitHub Marketplace é uma plataforma onde você pode descobrir e comprar ferramentas que se integram ao GitHub para ajudar a otimizar o seu fluxo de trabalho.



Funcionalidades

Repos

Issues

Discussions

Pull requests

Notifications

Labels

Actions

Forks

Projects

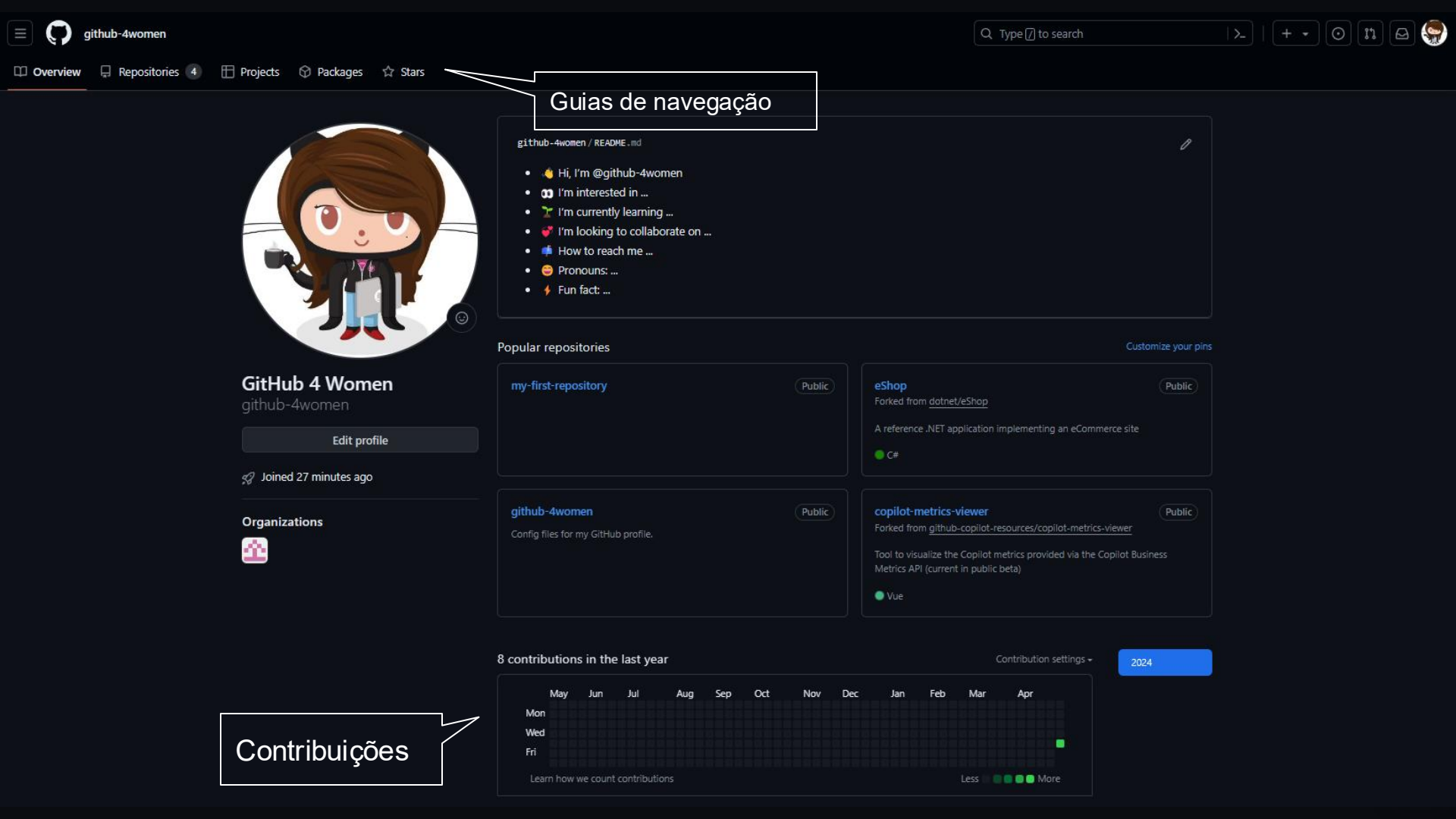


Conta Pessoal

The screenshot shows a GitHub personal profile for the user 'github-4women'. The profile includes a circular avatar of a cartoon woman, the username 'github-4women', and a bio 'Config files for my GitHub profile.' Below the bio are two repositories: 'config' and 'github-config'. The 'config' repository is highlighted with a green bar. To the left of the repositories, there is a section for 'GitHub 4 Women' with an 'Edit profile' button and a note 'Joined 18 minutes ago'. Below that is an 'Organizations' section with a small logo. The right sidebar shows a search bar and navigation links for Overview, Repositories (4), Projects, Packages, and Stars.

Conta Organização

The screenshot shows a GitHub organization profile for 'prado-org'. The profile includes a circular avatar of a cartoon man, the organization name 'prado-org', and a bio 'The Contoso University sample web app demonstrates how to create an ASP.NET Core MVC web app using Entity Framework (EF) Core and Visual Studio.' Below the bio are several repositories: 'contoso-university', 'dotnetcore-webapp', 'container-action-sample', 'my-public-project', and 'typescript-action-sample'. The 'contoso-university' repository is highlighted with a green bar. To the left of the repositories, there is a section for 'Repositories' with a list of repository types: All, Public, Internal, Sources, Forks, Archived, Mirrors, and Templates. The right sidebar shows a search bar and navigation links for Overview, Repositories (11), Projects (2), Packages, Teams (4), People (11), Security, Insights, and Settings.



Guias de navegação

GitHub 4 Women
github-4women

Edit profile

Joined 27 minutes ago

Organizations



Popular repositories

Customize your pins

my-first-repository

Public

eShop

Forked from dotnet/eShop

A reference .NET application implementing an eCommerce site

C#

github-4women

Public

Config files for my GitHub profile.

copilot-metrics-viewer

Forked from github-copilot-resources/copilot-metrics-viewer

Tool to visualize the Copilot metrics provided via the Copilot Business Metrics API (current in public beta)

Vue

8 contributions in the last year

Contribution settings -

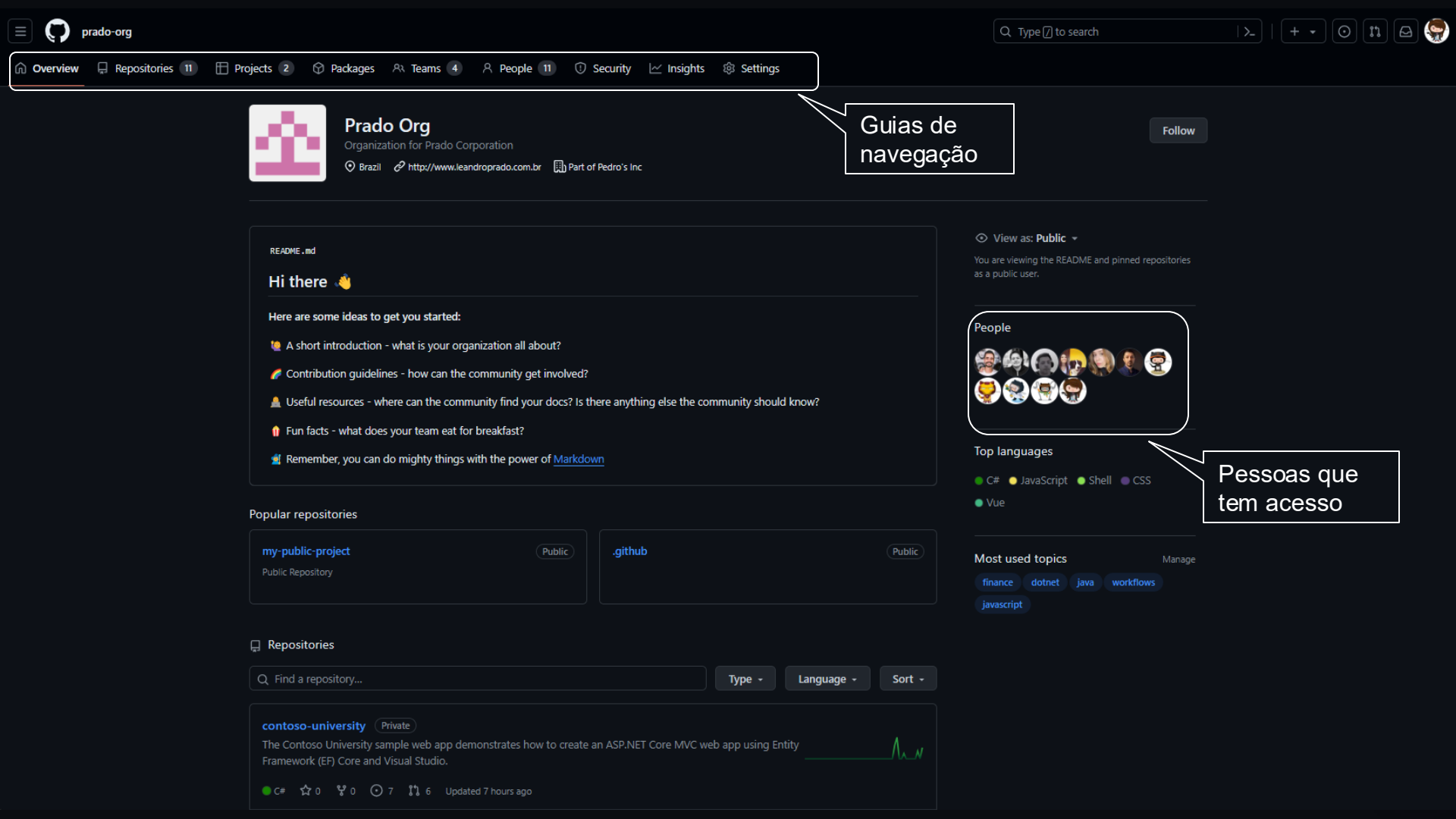
2024

Contribuições



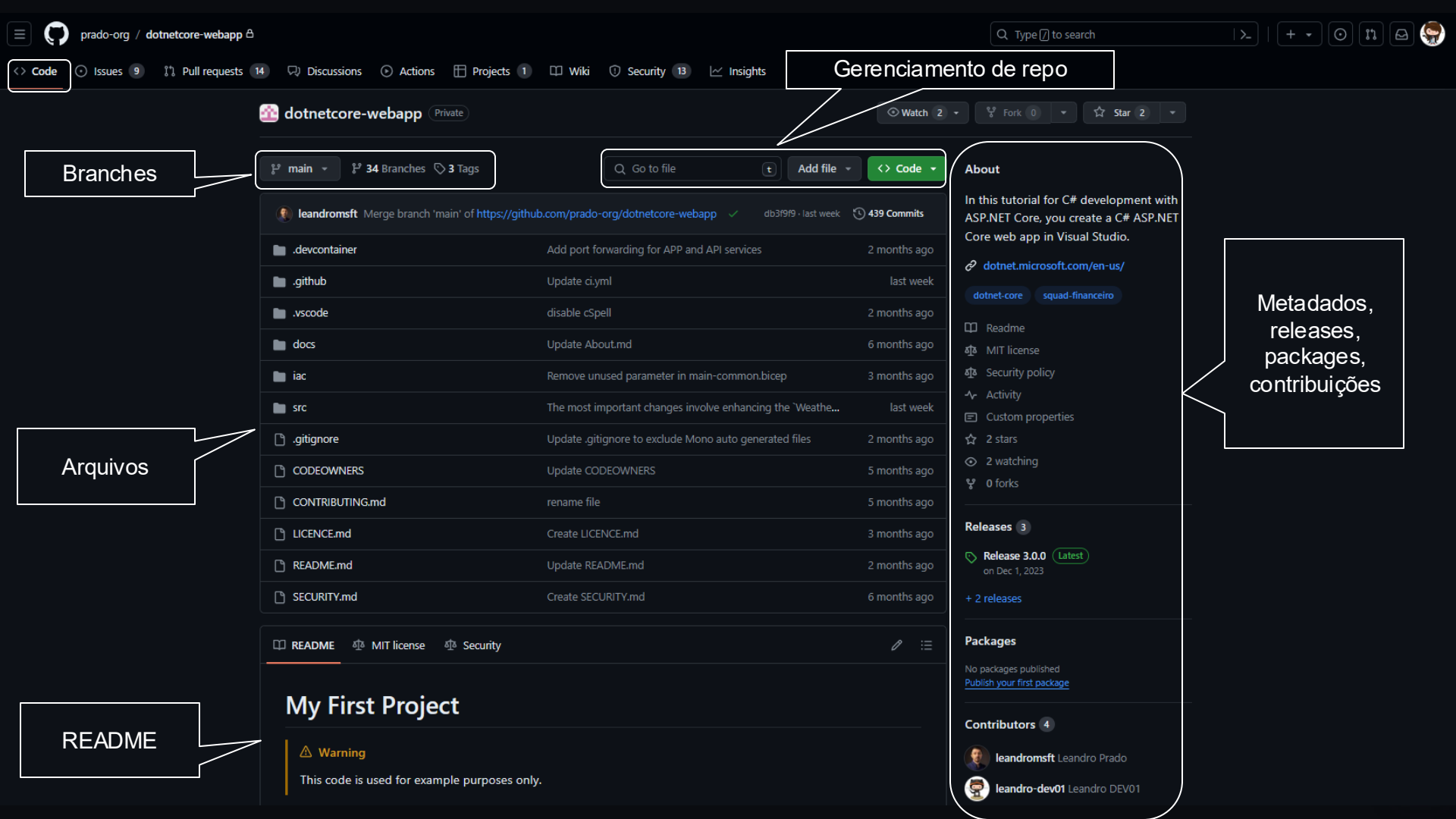
Learn how we count contributions

Less More



Guias de navegação

Pessoas que tem acesso



Gerenciamento de repo

Branches

dotnetcore-webapp Private

Watch 2 Fork 0 Star 2

main 34 Branches 3 Tags

Go to file Add file Code

leandromsft	Merge branch 'main' of https://github.com/prado-org/dotnetcore-webapp	db3f9f9 · last week	439 Commits
.devcontainer	Add port forwarding for APP and API services	2 months ago	
.github	Update ci.yml	last week	
.vscode	disable cSpell	2 months ago	
docs	Update About.md	6 months ago	
iac	Remove unused parameter in main-common.bicep	3 months ago	
src	The most important changes involve enhancing the 'Weathe...	last week	
.gitignore	Update .gitignore to exclude Mono auto generated files	2 months ago	
CODEOWNERS	Update CODEOWNERS	5 months ago	
CONTRIBUTING.md	rename file	5 months ago	
LICENCE.md	Create LICENCE.md	3 months ago	
README.md	Update README.md	2 months ago	
SECURITY.md	Create SECURITY.md	6 months ago	

Arquivos

README

README MIT license Security

My First Project

Warning

This code is used for example purposes only.

Metadados, releases, packages, contribuições

About

In this tutorial for C# development with ASP.NET Core, you create a C# ASP.NET Core web app in Visual Studio.

[dotnet.microsoft.com/en-us/dotnet-core](#) [squad-financeiro](#)

ReadmeMIT licenseSecurity policyActivityCustom properties2 stars2 watching0 forks

Releases 3

Release 3.0.0 Lateston Dec 1, 2023

+ 2 releases

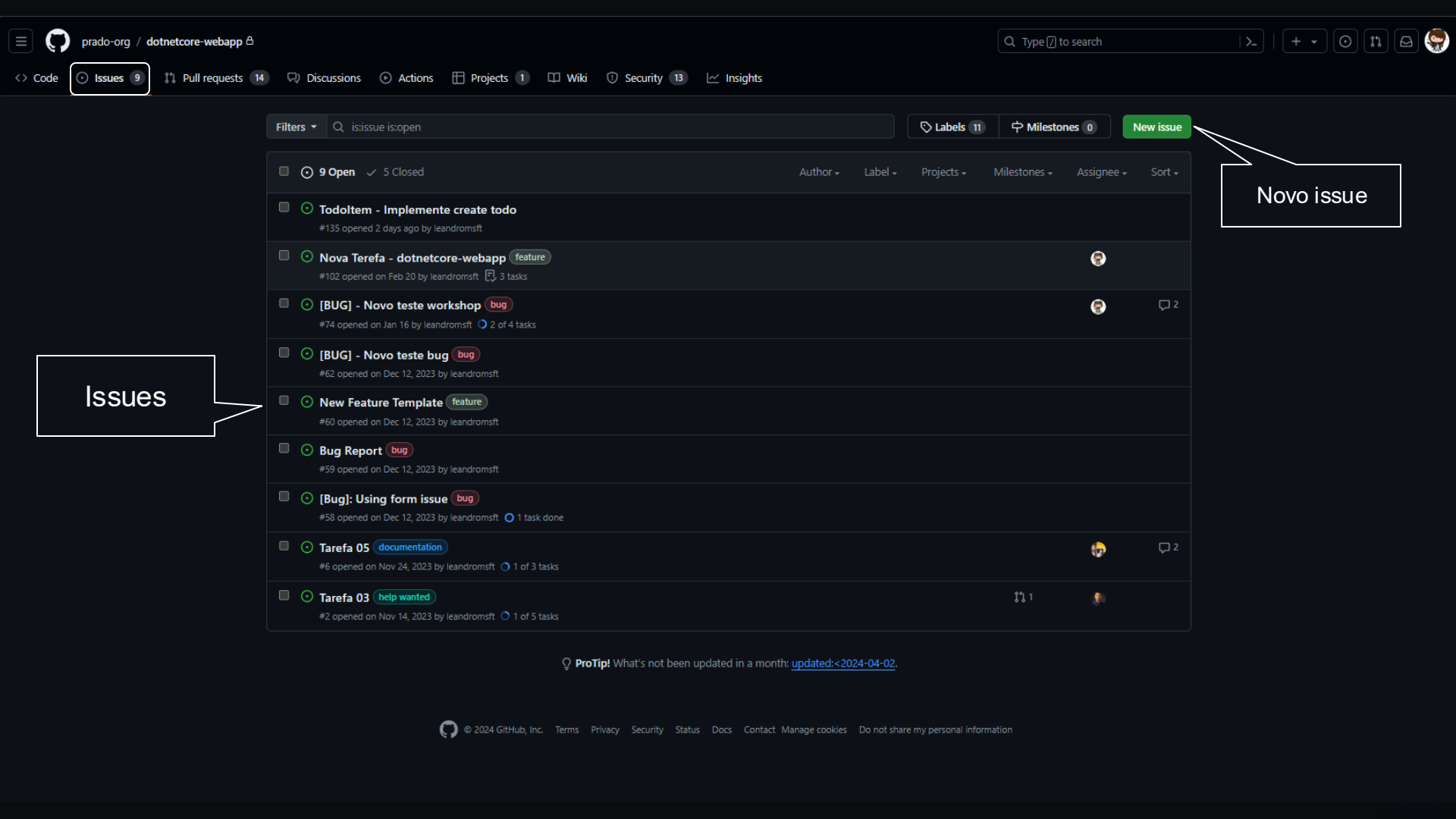
Packages

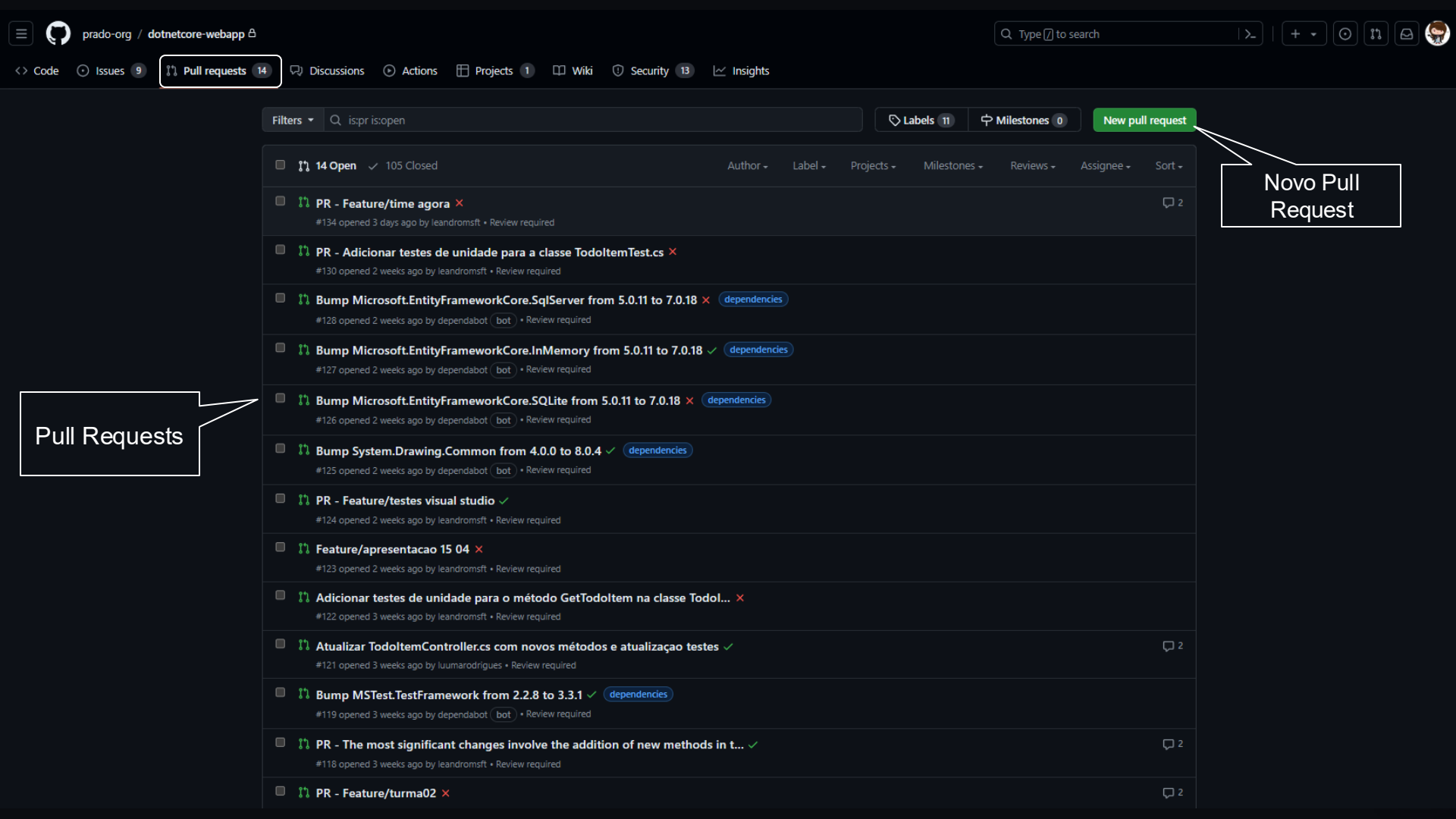
No packages published
[Publish your first package](#)

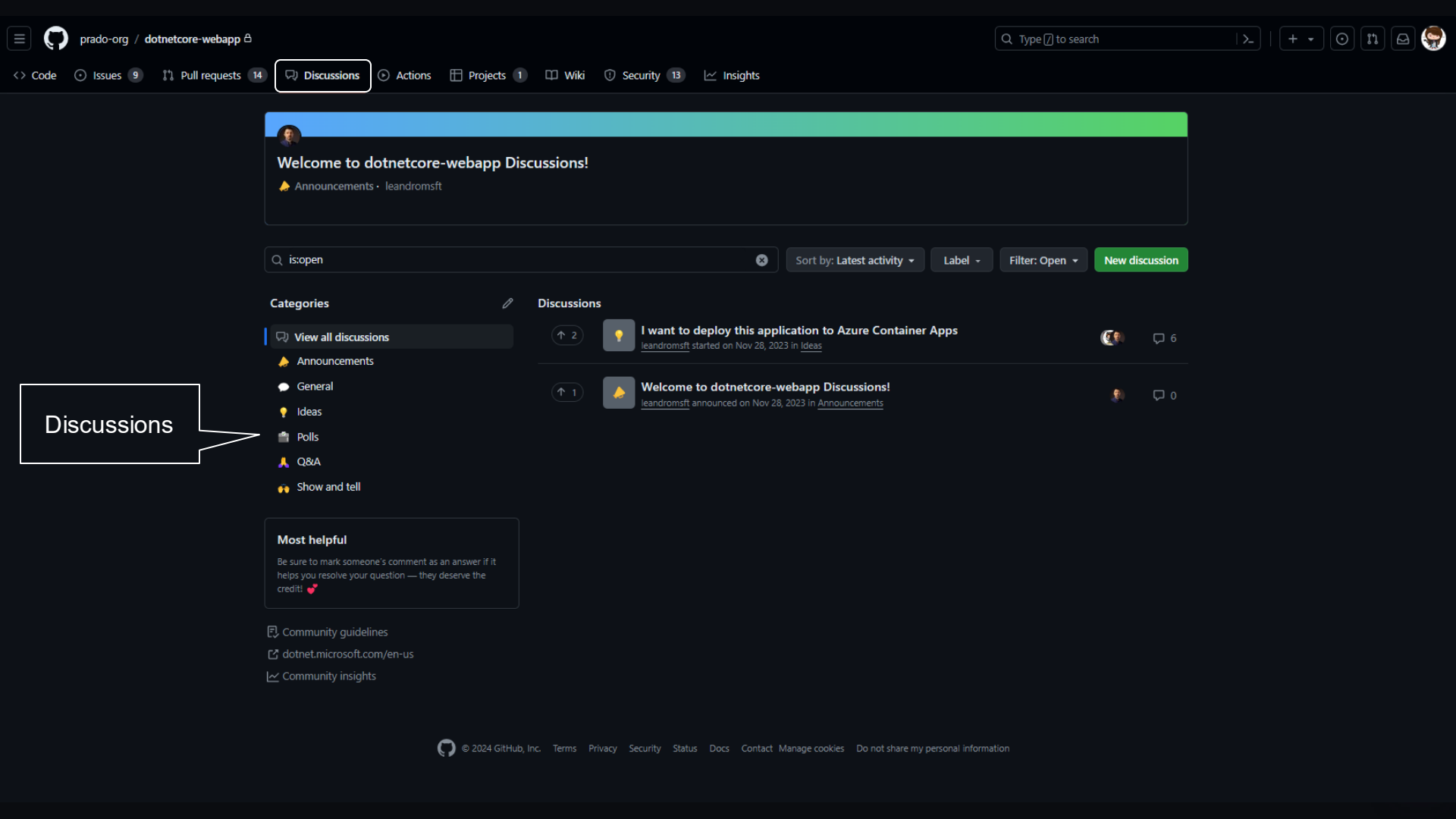
Contributors 4

leandromsft Leandro Prado

leandro-dev01 Leandro DEV01







Discussions

prado-org / dotnetcore-webapp

Q Type to search

+ ↕ 📄 📧 👤

<> Code ⌚ Issues 9 📄 Pull requests 14 💬 Discussions ⌚ Actions 📅 Projects 1 📖 Wiki 🛡 Security 13 📈 Insights

Actions

New workflow

All workflows

CodeQL

Codespaces Prebuilds

dotnetcore-matrix

dotnetcore-webapp-ci

dotnetcore-webapp-ci-cd

dotnetcore-webapp-ci-cd-argocd

dotnetcore-webapp-ci-cd-k8s

dotnetcore-webapp-delete-environment

dotnetcore-webapp-iac

github-pages

Show more workflows...

Management

Caches

Deployments

Attestations

Runners

All workflows

Showing runs from all workflows

877 workflow runs

Event ▾ Status ▾ Branch ▾ Actor ▾

✔ CodeQL

CodeQL #109: Scheduled

main

17 hours ago

3m 35s

...

✔ CodeQL

CodeQL #108: Scheduled

main

2 days ago

5m 12s

...

✔ CodeQL

CodeQL #107: Scheduled

main

3 days ago

3m 32s

...

✔ CodeQL

CodeQL #106: Scheduled

main

4 days ago

3m 34s

...

✔ CodeQL

CodeQL #105: Scheduled

main

5 days ago

5m 10s

...

✔ CodeQL

CodeQL #104: Scheduled

main

last week

3m 47s

...

✔ dotnetcore-webapp-delete-environment

dotnetcore-webapp-delete-environment #6: Manually run by leandromsf

main

last week

3m 31s

...

✔ CodeQL

CodeQL #103: Scheduled

main

last week

3m 2s

...

✔ Merge branch 'main' of https://github.com/prado-org/dotnetcore-webapp

dotnetcore-webapp-ci-cd #373: Commit db3f9f9 pushed by leandromsf

release/v5.0.1

last week

11m 6s

...

✖ Adicionar método UpdateTodoItem ao TodoItemController.cs

dotnetcore-webapp-ci-cd #372: Commit be09b02 pushed by leandromsf

feature/turma08

last week

1m 31s

...

Filter workflow runs

Workflows

Histórico de execuções

prado-org / Projects / @leandromsft's My Project

Projotos

My Project

RoadmapTableBoardIterationAssignee

Filter by keyword or by field

Discard

No Status3

my-public-project #7
Tarefa GitHub Week

my-public-project #10
teste PR

dotnetcore-webapp #102
Nova Tarefa - dotnetcore-webapp

Todo2

This item hasn't been started

dotnetcore-webapp #6
Tarefa 05

petclinic #1
Tarefa 06

In Progress2/2

This is actively being worked on

contoso-university #16
Null Pointer exception is reported at get instructor

my-public-project #9
Outra Tarefa

In Review3

my-public-project #1
Tarefa 01

dotnetcore-webapp #2
Tarefa 03

petclinic #2
Tarefa 07

Done3

This has been completed

my-public-project #6
PR - Teste Feature Branch

dotnetcore-webapp #1
Tarefa 02

dotnetcore-webapp #5
Tarefa 04

Home

Leandro Prado edited this page on Nov 27, 2023 · 2 revisions

EditNew page

Welcome to the dotnetcore-webapp wiki!

In this tutorial for C# development with ASP.NET Core, you create a C# ASP.NET Core web app in Visual Studio.

This tutorial shows you how to:

- ✔ Create a Visual Studio project
- ✔ Create a C# ASP.NET Core web app
- ✔ Explore IDE features
- ✔ Run the web app

Projects

- src/MyFirstProject.WebApp
- src/MyFirstProject.WebApi
- src/MyFirstProject.Tests

Build Process

```
# Restore Packages
dotnet restore src/MyFirstProject.sln

# Build Solution
dotnet build src/MyFirstProject.sln --configuration Debug --no-restore

# Running Unit Tests
dotnet test src/MyFirstProject.Tests/MyFirstProject.Tests.csproj --no-build --configuration Debug --verbosity normal

# Publish WebApp
dotnet publish src/MyFirstProject.WebApp/MyFirstProject.WebApp.csproj --no-build --configuration Debug --output Publish

# Publish WebApi
dotnet publish src/MyFirstProject.WebApi/MyFirstProject.WebApi.csproj --no-build --configuration Debug --output Publish
```

Pages 4

Find a page...

Home

Projects

Build Process

Contribute

Branch e Merge

CI CD Workflow

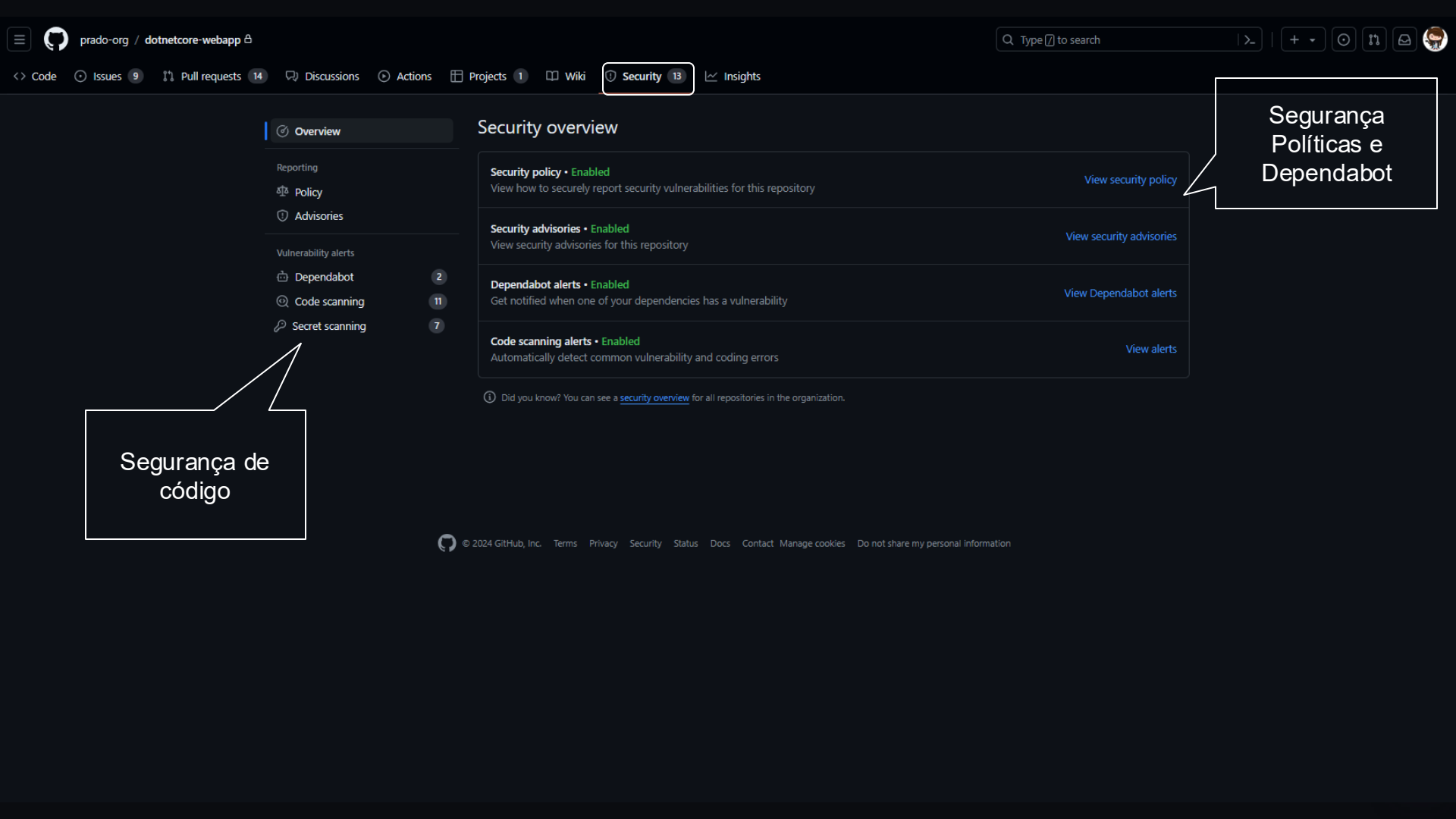
Runners

+ Add a custom sidebar

Conteúdo

Clone this wiki locally

https://github.com/prado-org/dotnetc



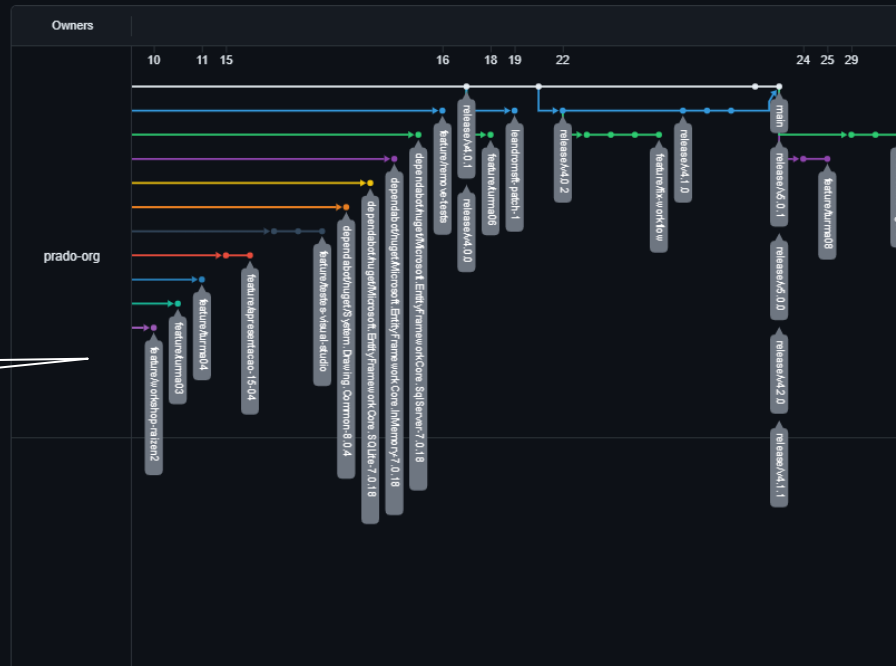
Security 13

Segurança
Políticas e
Dependabot

Segurança de
código

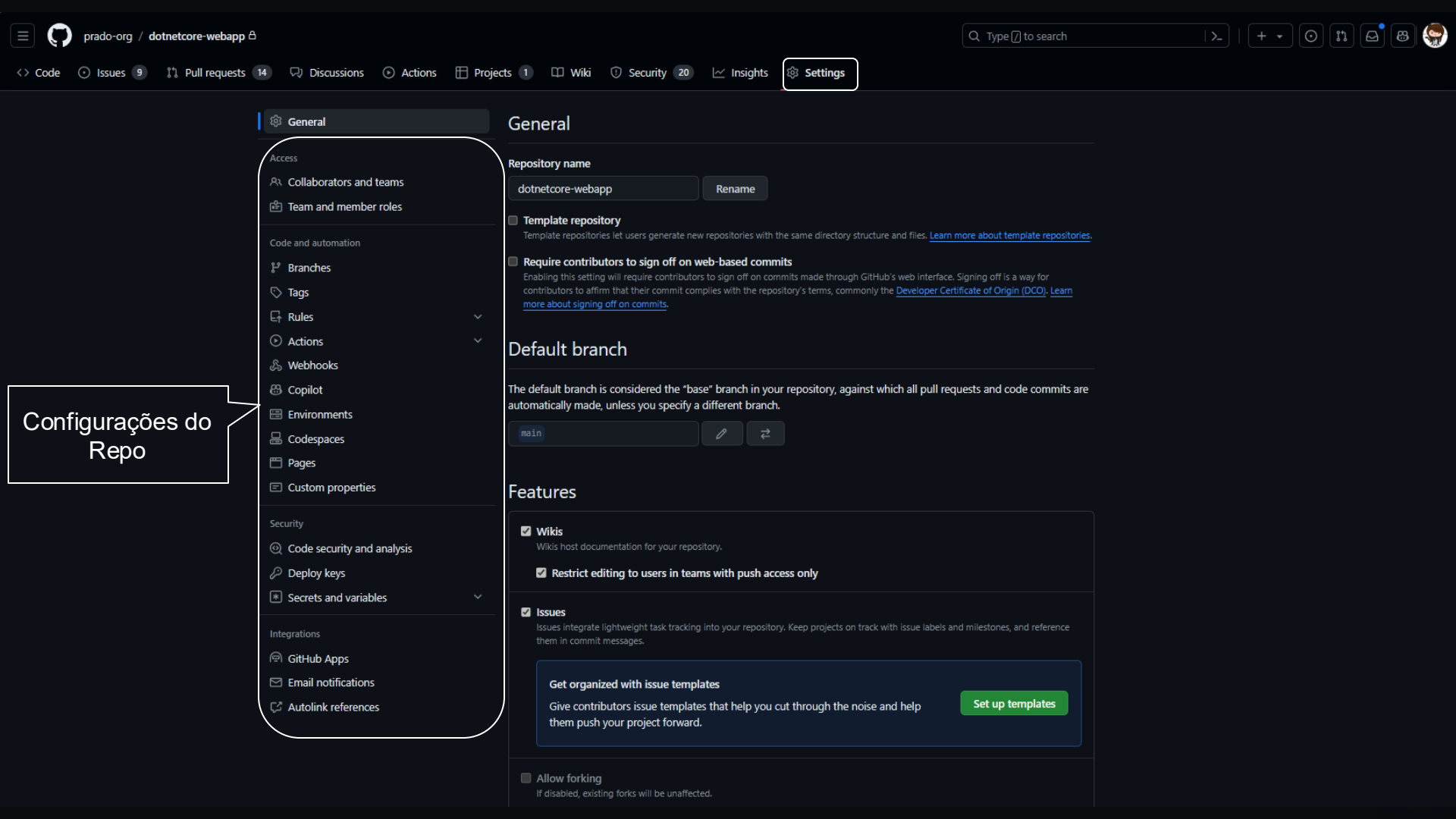
Forks

Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.



Keyboard shortcuts available ⓘ

Repo insights

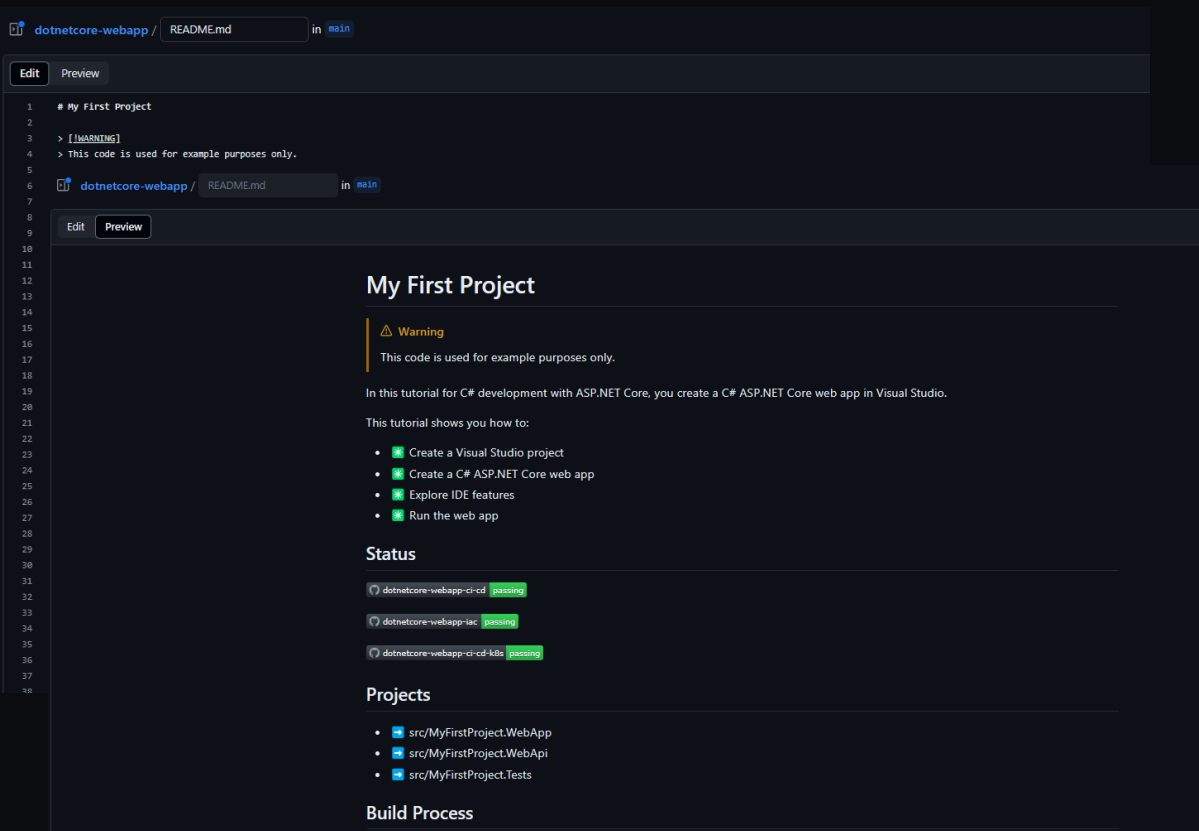


Configurações do Repo

Markdown



O que é Markdown?



The screenshot displays a code editor interface with a sidebar on the left showing a file tree with 'dotnetcore-webapp' and 'README.md' selected. The main editor area shows the content of 'README.md' in Markdown format. The content includes a title 'My First Project', a warning section, a tutorial introduction, a list of steps, a status section, a projects section, and a build process section. The preview pane on the right shows the rendered HTML output of the Markdown, including the title, warning, tutorial text, list, status, projects, and build process.

```
1 # My First Project
2
3 > [!WARNING]
4 > This code is used for example purposes only.
5
6 dotnetcore-webapp / README.md in main
```

My First Project

Warning

This code is used for example purposes only.

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This tutorial shows you how to:

- Create a Visual Studio project
- Create a C# ASP.NET Core web app
- Explore IDE features
- Run the web app

Status

dotnetcore-webapp-ci-cd **passing**

dotnetcore-webapp-lac **passing**

dotnetcore-webapp-ci-cd-k8s **passing**

Projects

- src/MyFirstProject.WebApp
- src/MyFirstProject.WebApi
- src/MyFirstProject.Tests

Build Process

Markdown é uma linguagem de marcação leve usada para formatar texto simples. Ele foi projetado para ser fácil de ler e escrever, ao mesmo tempo que permite aos usuários convertê-lo facilmente em HTML ou outros formatos de documento.



Syntax Básica

The image shows a code editor with two panes. The left pane displays the raw Markdown source code for a file named `samplemd.md`. The right pane shows the rendered HTML output of the same file.

Left Pane (source code):

```
samplemd.md > # H1 > ## H2 > ### H3
1 # H1
2 ## H2
3
4 ### H3
5
6 **Negrito**
7
8 *Itálico*
9
10 > bloco de citação
11
12 Lista ordenada
13 1. First item
14 2. Second item
15 3. Third item
16
17 [Link](https://www.example.com)
18
19 Comentários.
```

Right Pane (preview):

H1

H2

H3

Negrito

Itálico

> bloco de citação

Lista ordenada

1. First item
2. Second item
3. Third item

[Link](https://www.example.com)


Comentários.


The status bar at the bottom indicates the file is on the `main` branch, with 0 changes and 6 lines. It also shows the current cursor position as Line 14, Column 15, and the encoding as UTF-8.

Pull Request / Issues

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](#). [Learn more about di](#)

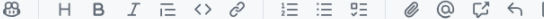
 base: main ← compare: wes_dev ✓ **Able to merge.** These branches can be automatically merged.

 **Add a title**

Add a description

Write

Preview




#1 issue number 1
este PR resolve o issue #1

Feito

- [criada](#) nova branch
- issue resolvido

TO DO

- [] fazer merge
- [] remover branch


Markdown is supported  Paste, drop, or click to add files


Create pull request

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

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](#). [Learn more about](#)


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Feito


- criada nova branch
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TO DO

- [] fazer merge
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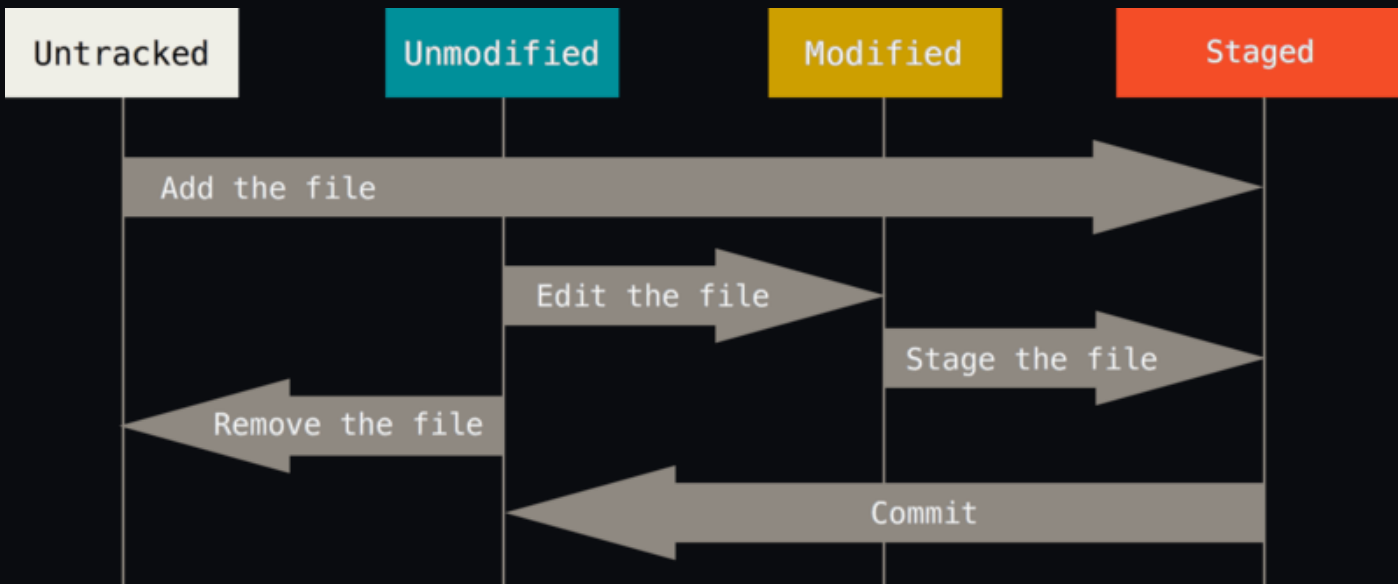
Demo

Estratégias de Branch/Merge



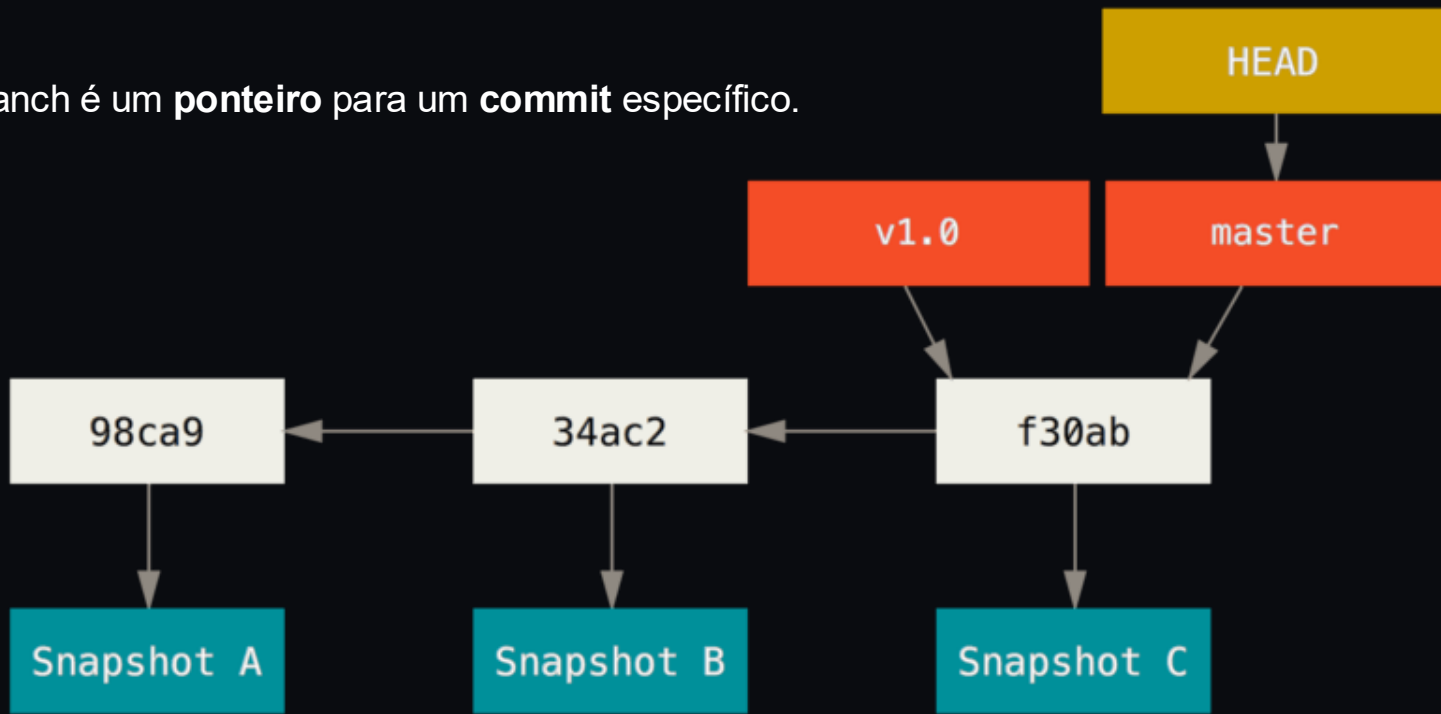
O que é Commit?

Um **commit** é um registro instantâneo do seu repositório em um momento específico da linha do tempo.



O que é Branch?

Uma branch é um **ponteiro** para um **commit** específico.

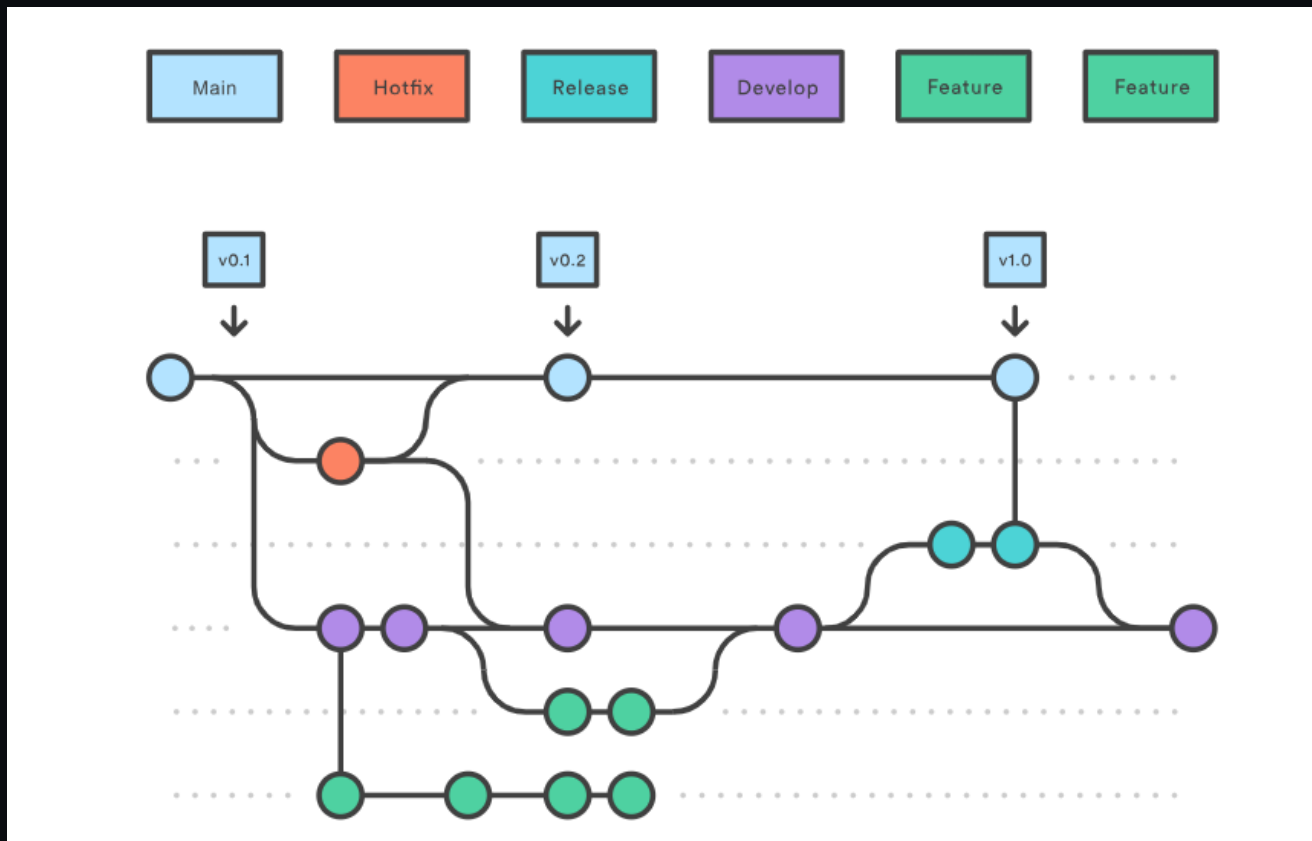


Estratégias de Branch

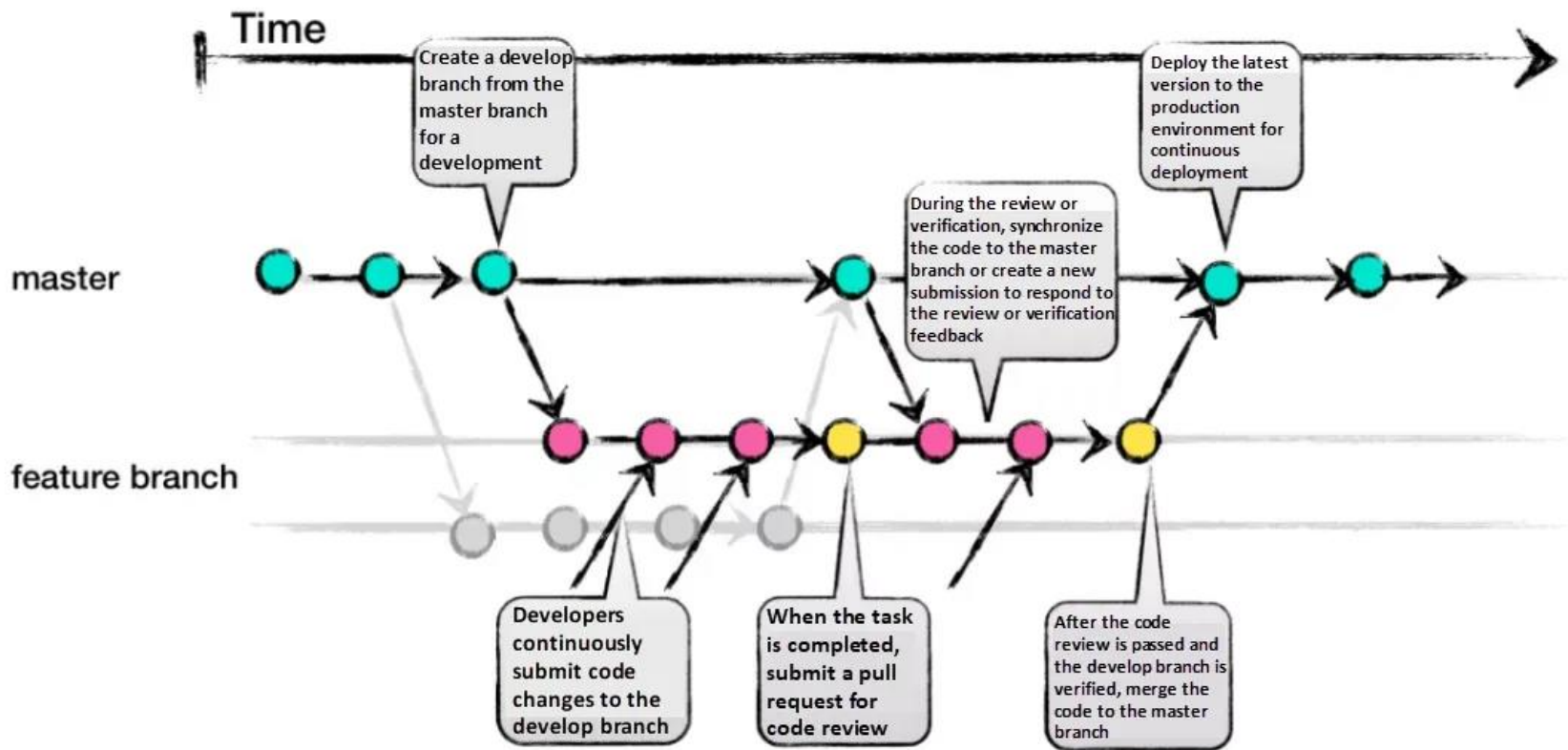
As estratégias de branching determinam como a equipe aborda a ramificação do código. Neste treinamento, citaremos dois exemplos de estratégias: **Git Flow** e **GitHub Flow**.



Git Flow



GitHub Flow





Demo

Thank you

