

Versionamento e Armazento de projetos

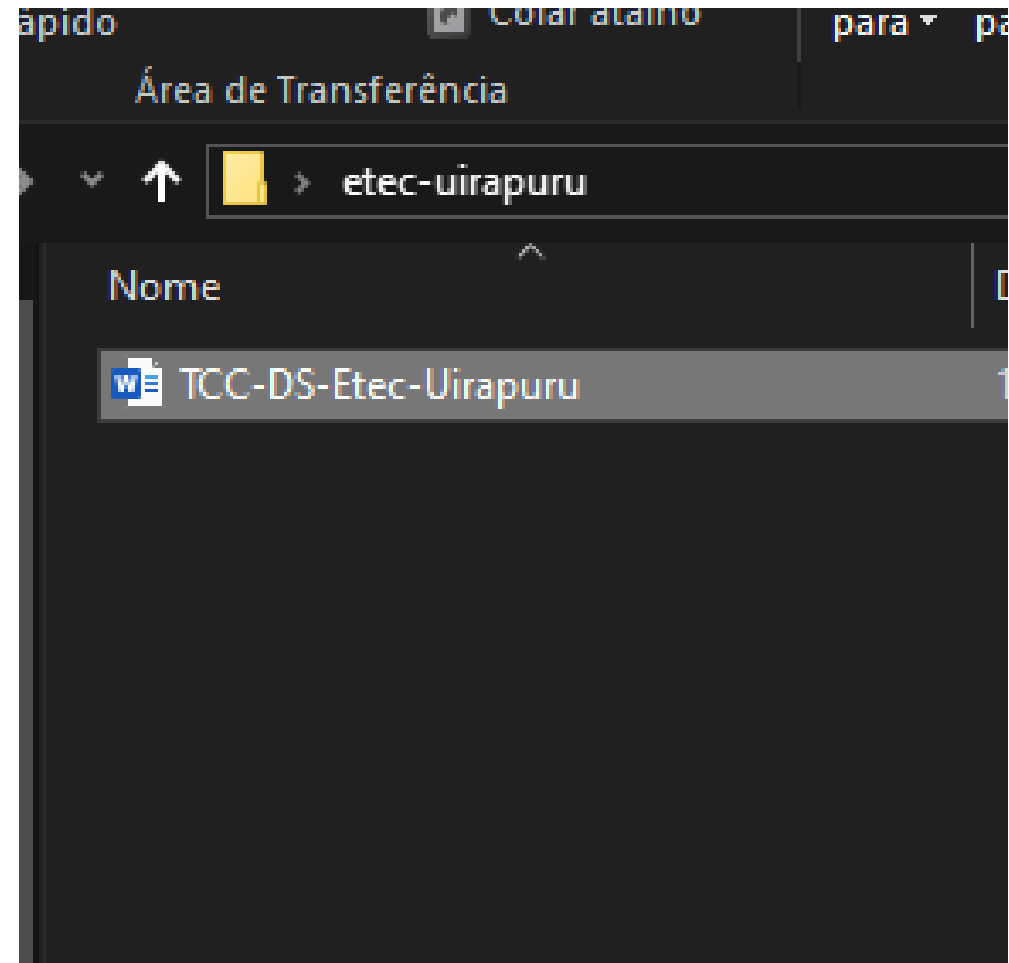
Git e Github



Versionamento

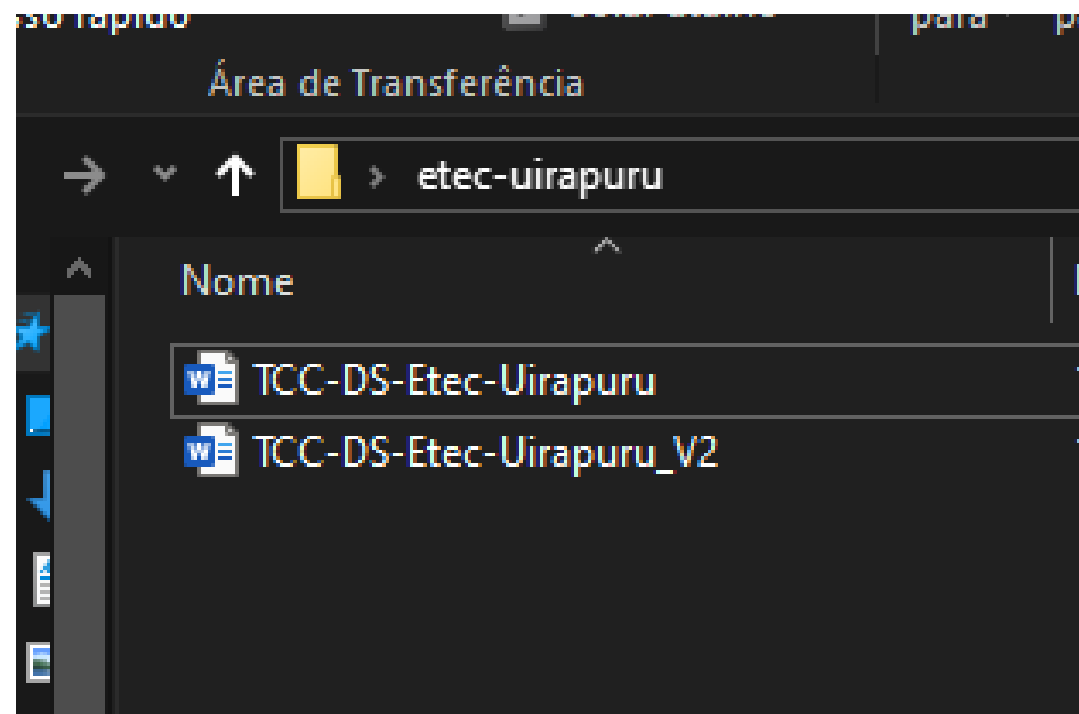
Imagine que você está desenvolvendo o arquivo do seu TCC.

Na 1º versão você criou um conteúdo, mas após as orientações do professor você decidiu que precisa adicionar mais itens ao material.



Você não quer perder o histórico de alterações...

- Com isso, você cria outra versão do arquivo:



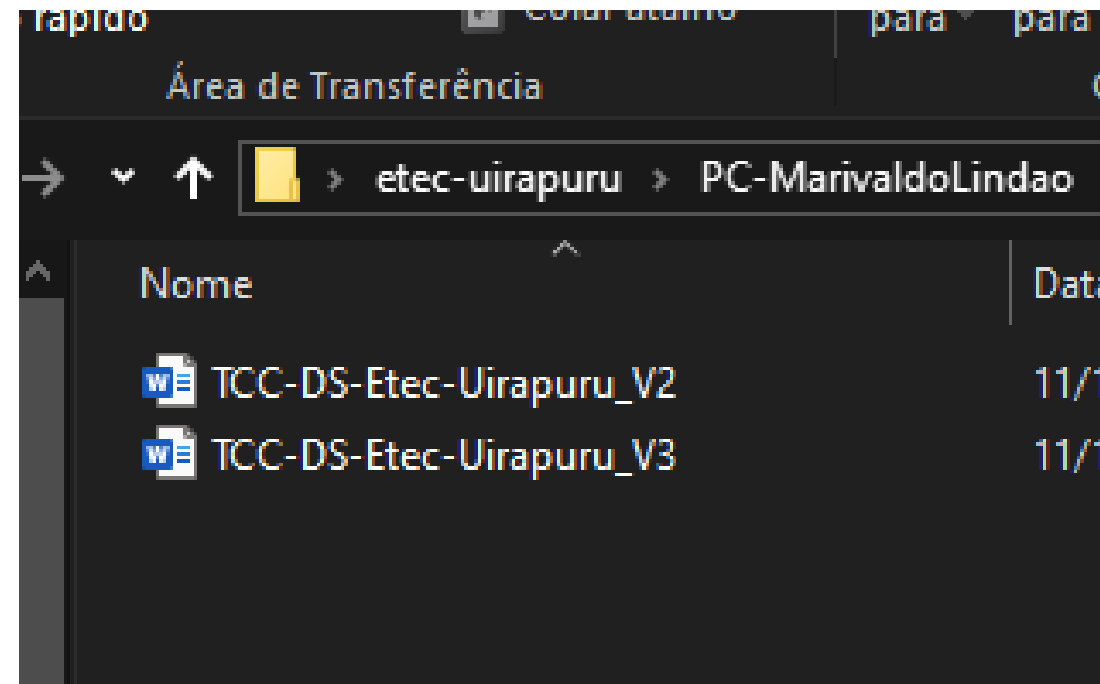
Mas o TCC é em grupo...

- Marivaldo faz parte do seu grupo de TCC.
- Ele também precisa adicionar conteúdo ao trabalho, você precisa enviar os arquivos para ele.



Marivaldo

- Para manter o histórico, Marivaldo terá que criar mais uma nova versão de alteração na máquina dele...

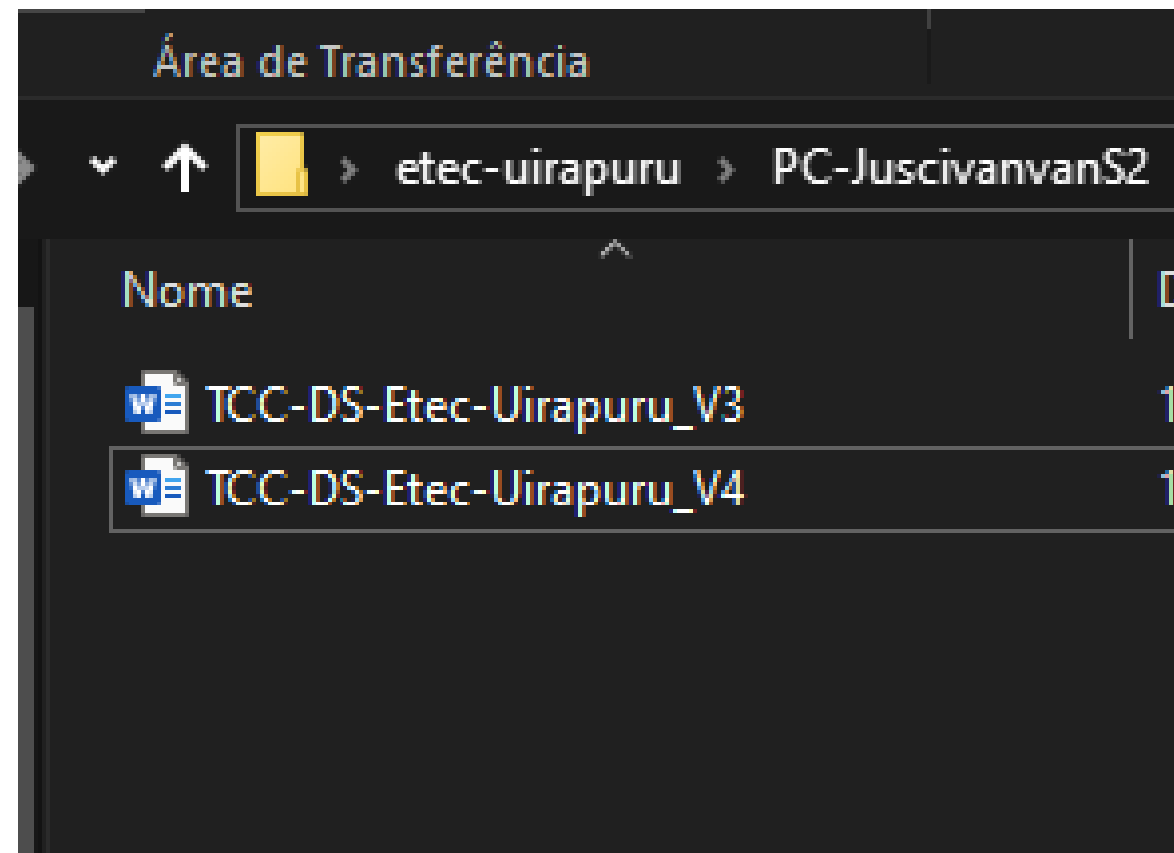


No seu grupo tem mais pessoas...

- Existe a Juscivânia....

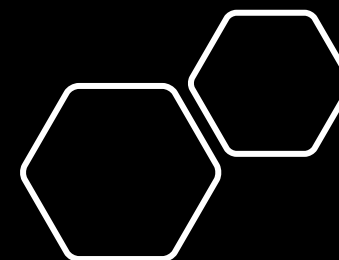


Juscivânia também precisa mexer no trabalho...



Mais uma alteração? Será
que ela pegou a última
versão do arquivo...





Versionadores



São ferramentas que funcionam como “Controladores de Mudanças”.



Ajudam a guardar diferentes versões de arquivos mantendo um histórico organizado.

Exemplo



Computador Local - ETEC Uirapuru



arquivo

Controlador de Versões

versão 3

versão 2

versão 1



Vamos usar o GIT

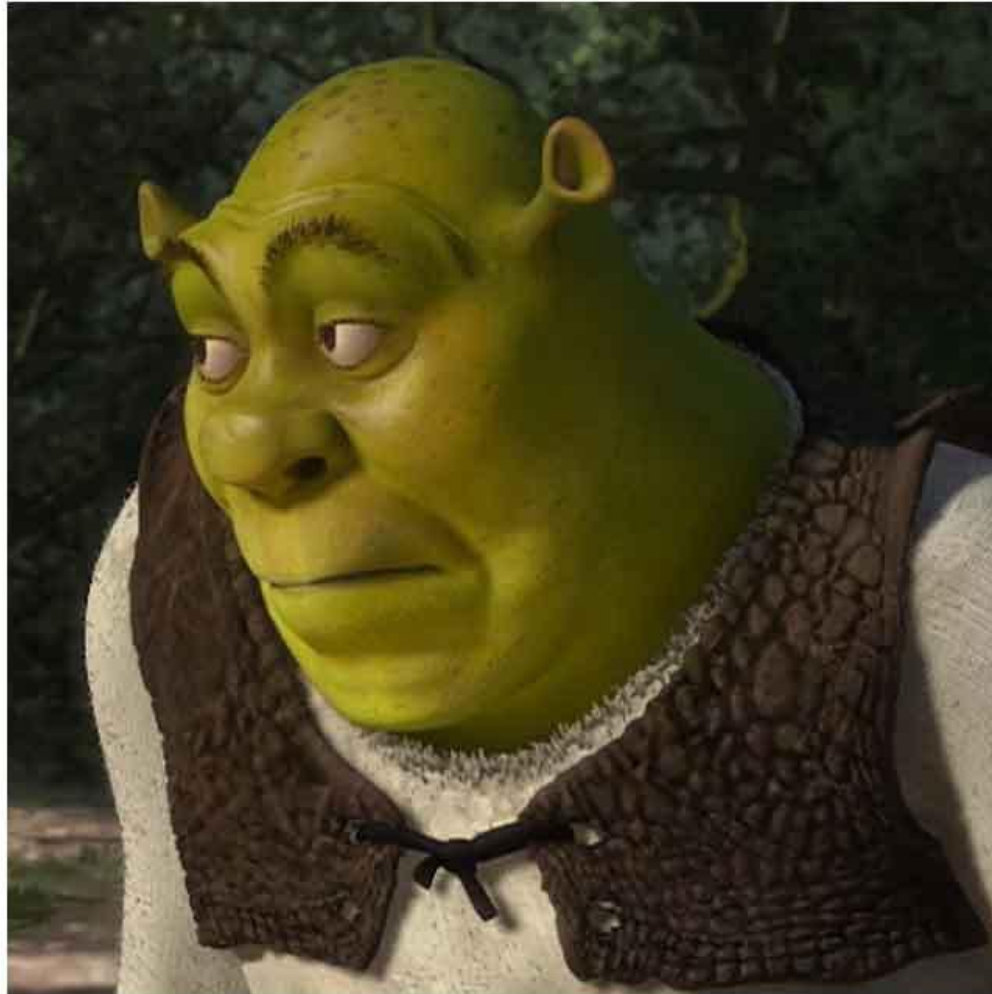


Vantagens

- Guarda o histórico de mudanças dos arquivos.
- Ajuda a organizar o trabalho de várias pessoas em um projeto.
- Permite que você trabalhe diferentes partes do projeto com seus colegas simultaneamente.
- Facilita a correção de erros, voltando para versões anteriores quando necessário.
- você pode trabalhar offline e ainda ter acesso a todo o histórico do projeto



E se minha máquina queimar, como
compartilhar a versão do arquivo
que estava salvo localmente?



Github



Para isso utilizaremos o github, funciona como um “Google Drive” de desenvolvedores



Utilizado para Armazenar e Hospedar os códigos e projetos



Permite revisão de códigos, controle de versões e contribuições em outros projetos abertos.





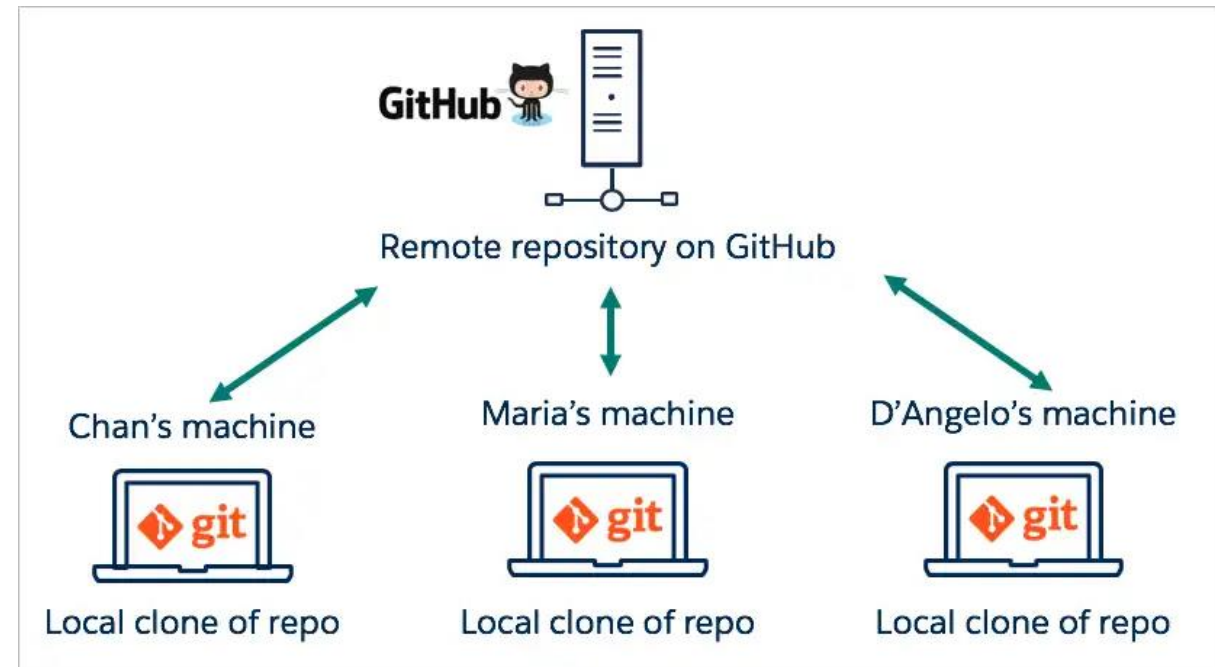
Git

VS



GitHub

- GIT = Versiona os arquivos e códigos-fontes dos projetos.
- Github = repositório onde armazenamos os projetos que possuem os códigos fontes.



Dúvidas?

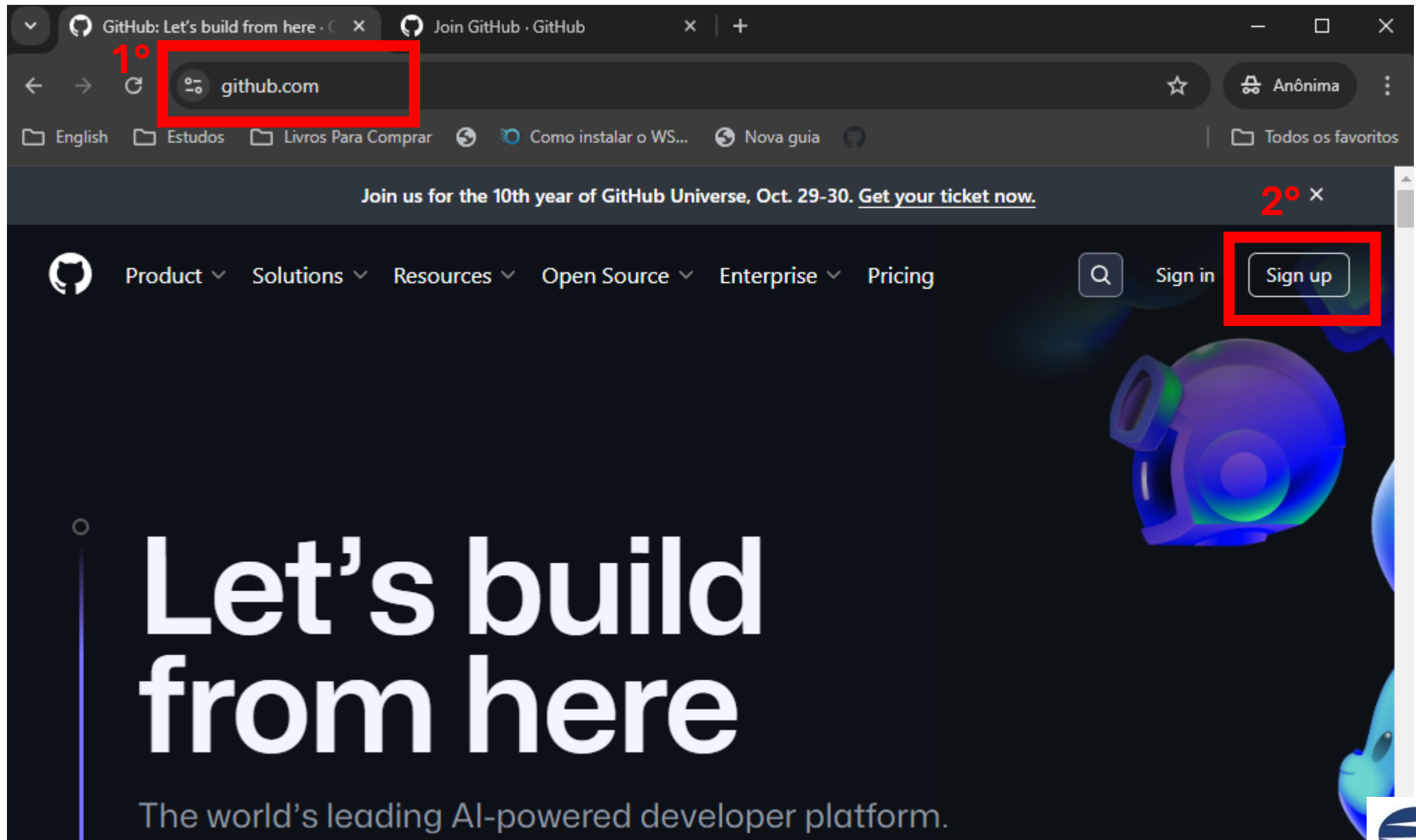




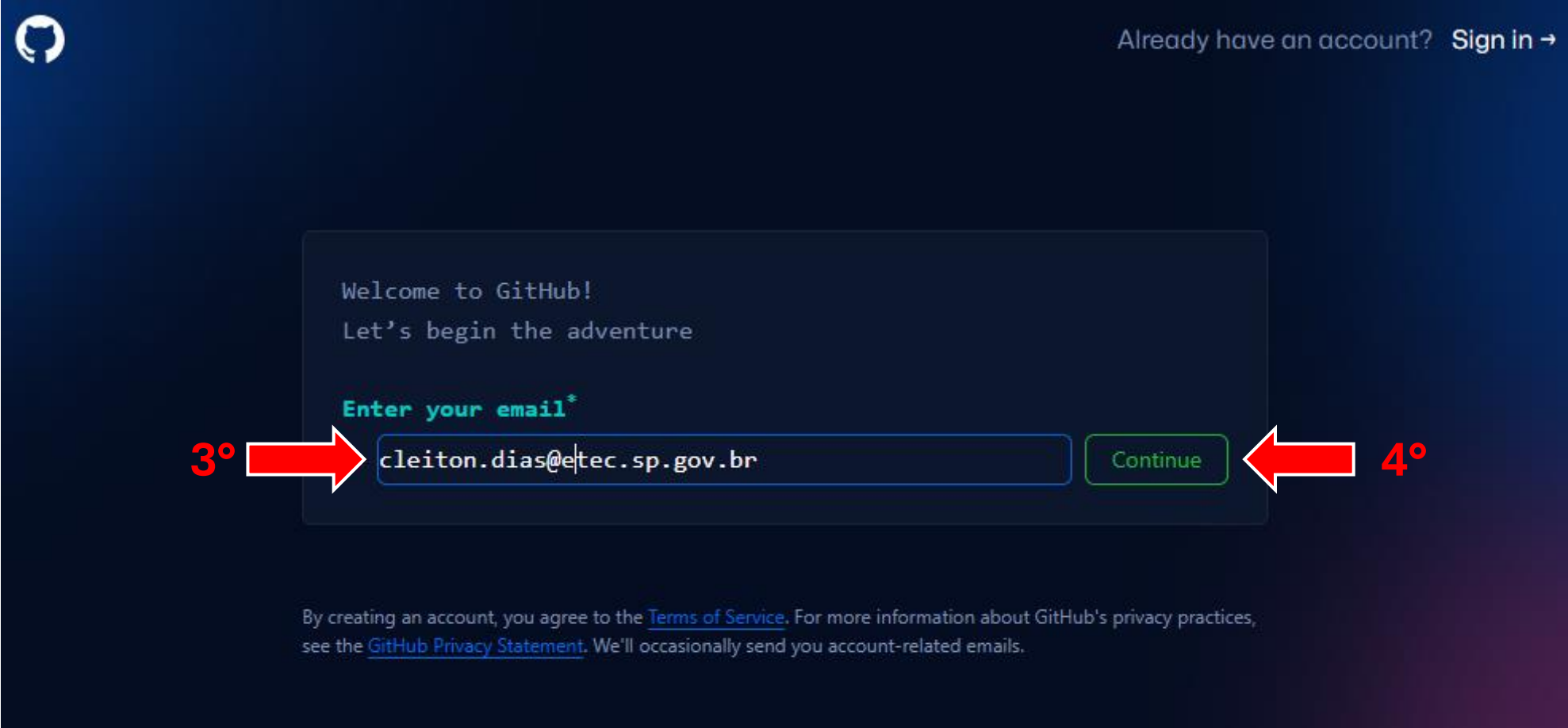
Hands ON



Criando conta no Github



Na tela a seguir vamos inserir o e-mail



The image shows the GitHub sign-up interface. At the top left is the GitHub logo. At the top right, it says "Already have an account? Sign in →". The main content area has a dark blue background with a lighter blue box in the center. Inside this box, it says "Welcome to GitHub!" and "Let's begin the adventure". Below this, there is a label "Enter your email*" in green. A text input field contains the email "cleiton.dias@etec.sp.gov.br". To the right of the input field is a green "Continue" button. A red arrow labeled "3°" points to the input field, and another red arrow labeled "4°" points to the "Continue" button. At the bottom of the box, there is a paragraph of text: "By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy practices, see the [GitHub Privacy Statement](#). We'll occasionally send you account-related emails."

GitHub logo

Already have an account? Sign in →

Welcome to GitHub!
Let's begin the adventure

Enter your email*

3° → cleiton.dias@etec.sp.gov.br

Continue ← 4°

By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy practices, see the [GitHub Privacy Statement](#). We'll occasionally send you account-related emails.

Ao clicar em
“OK”, vamos
criar uma
senha

Welcome to GitHub!
Let's begin the adventure

Enter your email*

✓ cleiton.dias@etec.sp.gov.br

5°

Create a password*

→|

6°

Continue

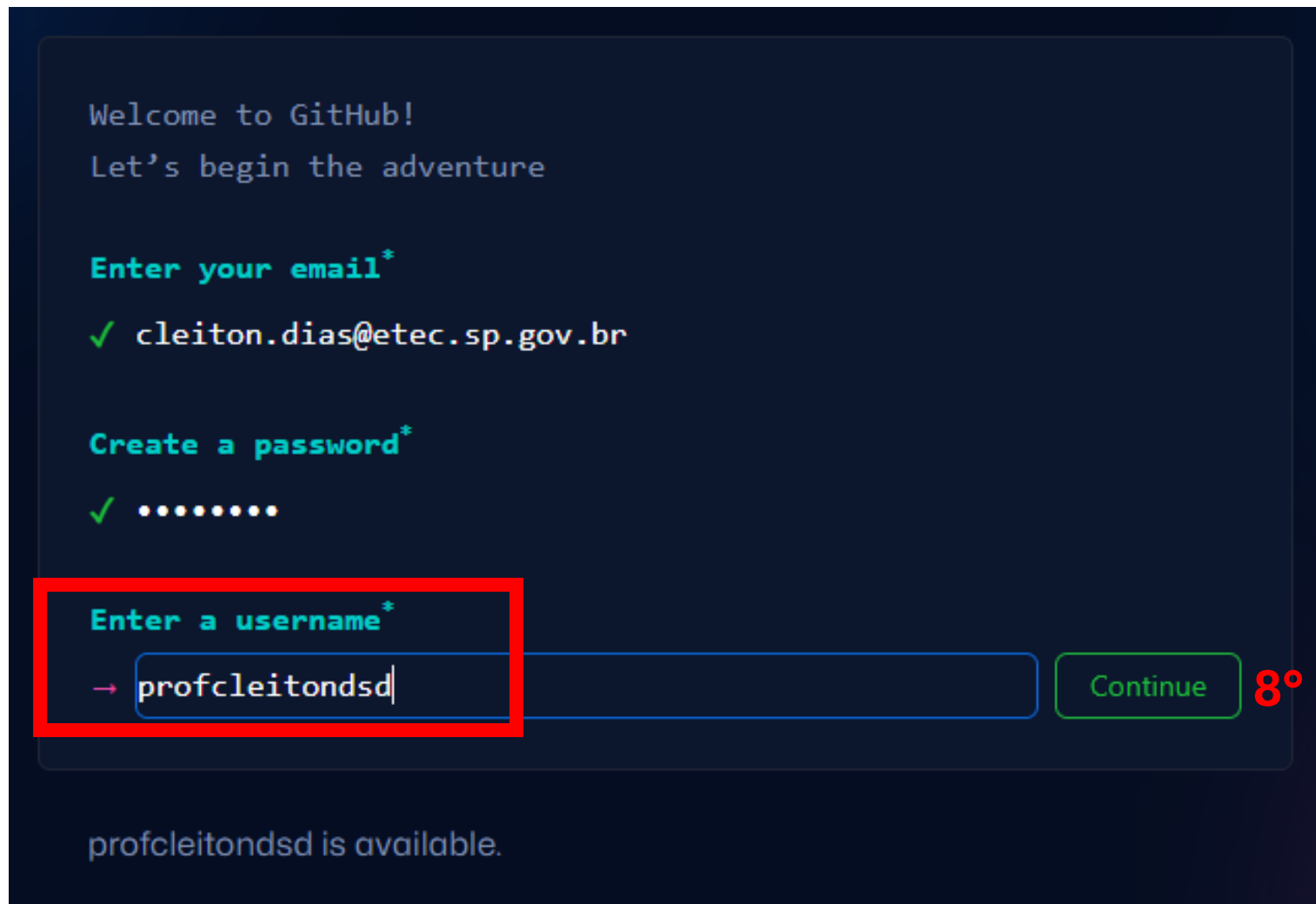
—————

Password is strong

Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter.

Vamos criar um nome de usuário

7º



7º

Welcome to GitHub!
Let's begin the adventure

Enter your email*

✓ cleiton.dias@etec.sp.gov.br

Create a password*

✓

Enter a username*

→ profcleitondsd

Continue

8º

profcleitondsd is available.

Todos aqui?

Welcome to GitHub!
Let's begin the adventure

Enter your email*

✓ cleiton.dias@etec.sp.gov.br

Create a password*

✓ ••••••••

Enter a username*

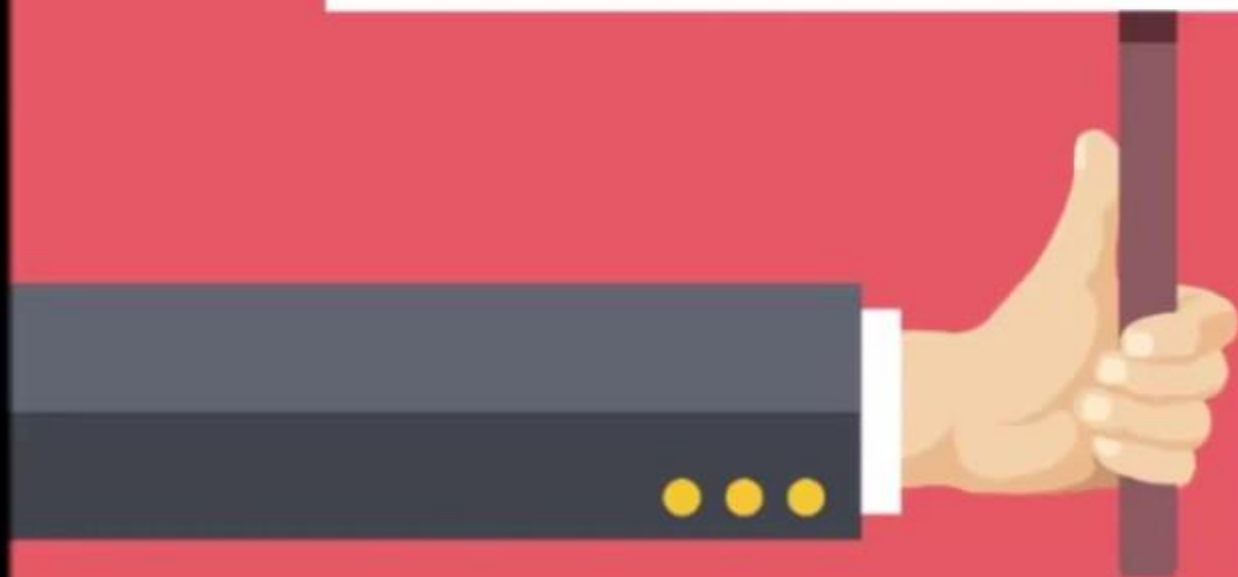
✓ profcleitondsd

Email preferences

☐ Receive occasional product updates and
announcements.

Continue

ATENÇÃO



Verificação da conta

9º

Welcome to GitHub!
Let's begin the adventure

Verify your account

Protegendo sua conta

Resolva este enigma para sabermos que você é uma pessoa de verdade

Verificar

Áudio

Exemplo de Verificação:

Verify your account

Use as setas para girar o objeto para a direção que a mão está apontando. (1 de 1)



Combine este ângulo



Enviar

Validar envio do e-mail

You're almost done!


We sent a launch code to `cleiton.dias@etec.sp.gov.br`

→ Enter code*

--	--	--	--	--	--	--	--

Didn't get your email? [Resend the code](#) or [update your email address](#).

Conta criada,
agora vamos
acessar



Sign in to GitHub

Your account was created successfully. Please sign in to continue

Username or email address

Password

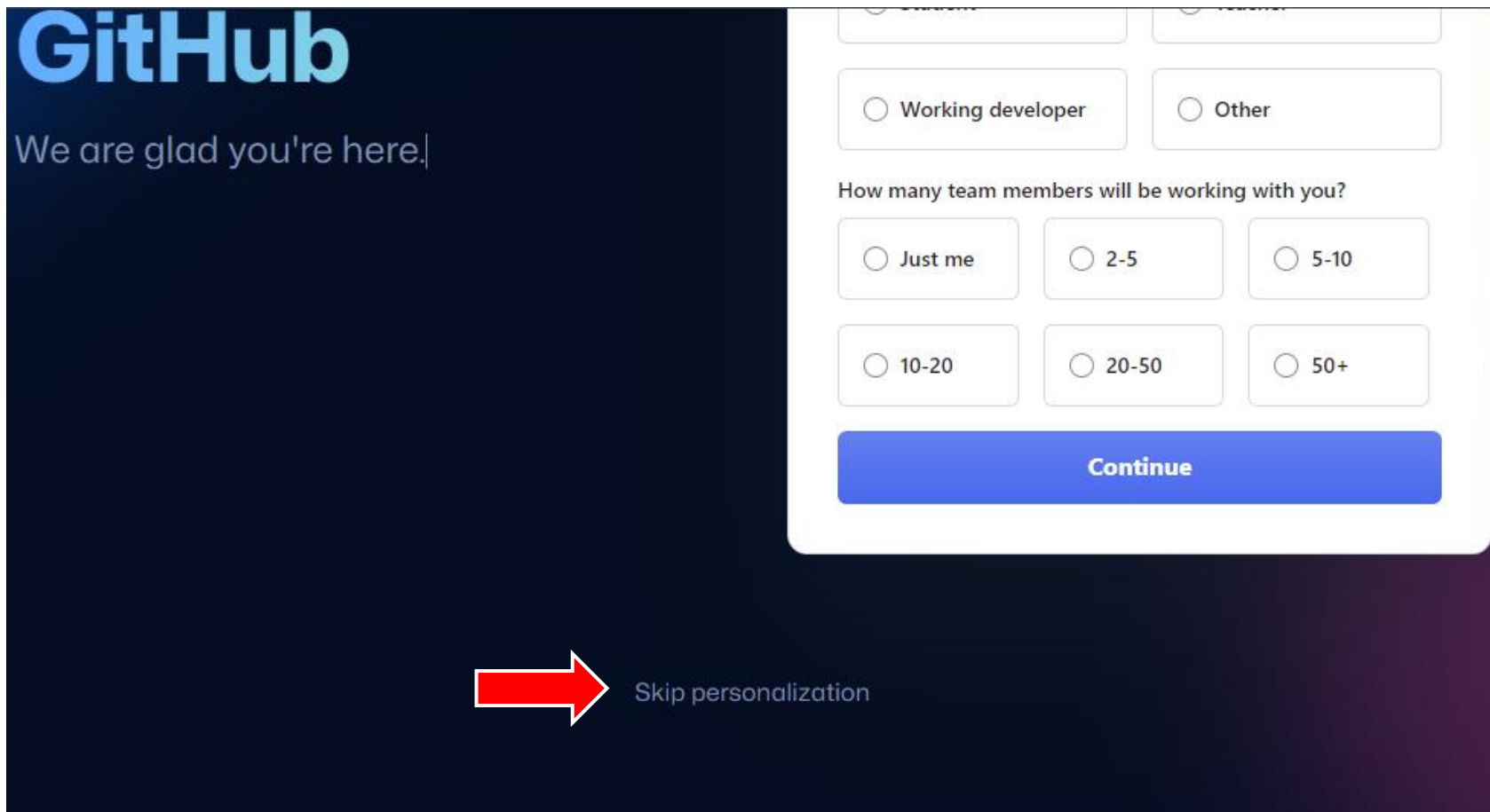
[Forgot password?](#)

Sign in

[Sign in with a passkey](#)

New to GitHub? [Create an account](#)

Após logar, vamos pular a personalização



The image shows the GitHub onboarding screen after a user has logged in. On the left, the GitHub logo is displayed in light blue, followed by the text "We are glad you're here." in a smaller, lighter blue font. On the right, there is a white card containing a series of radio button options for personalization. The options are arranged in two rows: the first row has "Working developer" and "Other"; the second row, under the heading "How many team members will be working with you?", has "Just me", "2-5", "5-10", "10-20", "20-50", and "50+". Below these options is a blue "Continue" button. At the bottom of the screen, a red arrow points to the text "Skip personalization".

GitHub
We are glad you're here.


☐ Working developer ☐ Other

How many team members will be working with you?

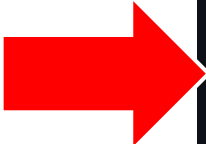
☐ Just me ☐ 2-5 ☐ 5-10

☐ 10-20 ☐ 20-50 ☐ 50+

Continue

 Skip personalization

Finalmente teremos nossa conta ativa!



Dashboard

Search: Type / to search

Home

Send feedback Filter

Create your first project

Ready to start building? Create a repository for a new idea or bring over an existing repository to keep contributing to it.

Create repository Import repository

Start a new repository for profcleitondsd

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

Repository name *

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

Share information about yourself by creating a profile README, which appears at the top of your profile page.

profcleitondsd / README.md **Create**

```
1 - 🙋 Hi, I'm @profcleitondsd
2 - 👀 I'm interested in ...
3 - 🌱 I'm currently learning ...
4 - 💬 I'm looking to collaborate on .
5 - 📫 How to reach me ...
6 - 😄 Pronouns: ...
7 - ⚡ Fun fact: ...
8
```

Explore repositories

vaadin / platform ☆

Vaadin platform 10+ is a Java web development platform based on Vaadin web components. If you don't know to which repository your bug report should be filed, use this and we'll move it to the right...

☆ 563 ● Java

libbpf / libbpf-rs ☆

Minimal and opinionated eBPF tooling for the Rust ecosystem

☆ 759 ● Rust

inspektor-gadget / inspektor-gadget ☆

Inspektor Gadget is a set of tools and framework for data collection and system inspection on Kubernetes clusters and Linux hosts using eBPF

☆ 2.2k ● C

Use tools of the trade

Criando um repositório....

- Repositório no Github é uma “pasta online”, nessa pasta vamos guardar um projeto e/ou arquivos.
- Exemplo:
 - posso ter um repositório da aula de Programação Mobile para guardar os projetos Android.
 - Posso ter um repositório para guardar os meus exercícios de lógica da aula de Programação de Algoritmos.

Clique em “Create Repository”

The screenshot shows the GitHub Dashboard interface. On the left, under 'Create your first project', there is a green 'Create repository' button and a blue 'Import repository' link. The main 'Home' section has a 'Start writing code' button and a 'Start a new repository for profcleitonsd' card. This card includes a text input for 'Repository name *' with the placeholder 'name your new repository...', radio buttons for 'Public' and 'Private' (with 'Private' selected), and a green 'Create a new repository' button. To the right, there is a 'Introduce yourself with a profile README' card showing a preview of a README file with a green 'Create' button. Further right, the 'Explore repositories' section lists 'bazelbuild / bazel', 'nasa / cmr-stac', and 'libbpf / libbpf-rs' with their respective star counts and language tags.

Dashboard

Search Type [/] to search

Home

Send feedback Filter

Create your first project

Ready to start building? Create a repository for a new idea or bring over an existing repository to keep contributing to it.

Create repository Import repository

Start writing code

Start a new repository for profcleitonsd

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

Repository name *

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

Share information about yourself by creating a profile README, which appears at the top of your profile page.

profcleitonsd / README.md Create

1 - 🦋 Hi, I'm @profcleitonsd

2 - 🐼 I'm interested in ...

3 - 🦉 I'm currently learning ...

4 - 🦊 I'm looking to collaborate on

5 - 📄 How to reach me ...

6 - 🗨️ Pronouns: ...

7 - ⚡ Fun fact: ...

8

Explore repositories

bazelbuild / bazel

a fast, scalable, multi-language and extensible build system

☆ 23.1k Java

nasa / cmr-stac

☆ 51 TypeScript

libbpf / libbpf-rs

Minimal and opinionated eBPF tooling for the Rust ecosystem

☆ 759 Rust

Explore more →

Vamos preencher o nome e descrição

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Required fields are marked with an asterisk ().*

Owner *
 profcleitondsd ▾

Repository name *
/ meu-primeiro-repositorio

✓ meu-primeiro-repositorio is available.

Great repository names are short and memorable. Need inspiration? How about **turbo-doodle** ?

Description (optional)
Este é o meu primeiro repositório no github.

1º Nome do repositório

2º Descrição do repositório

Initialize this repository with:

☒ Add a README file

This is where you can write a long description for your project. [Learn more about READMEs.](#)

3° Marque essa opção, ela cria um arquivo onde podemos inserir instruções para executar o projeto.

Add .gitignore

.gitignore template: **None** ▼

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a license

License: **None** ▼

A license tells others what they can and can't do with your code. [Learn more about licenses.](#)

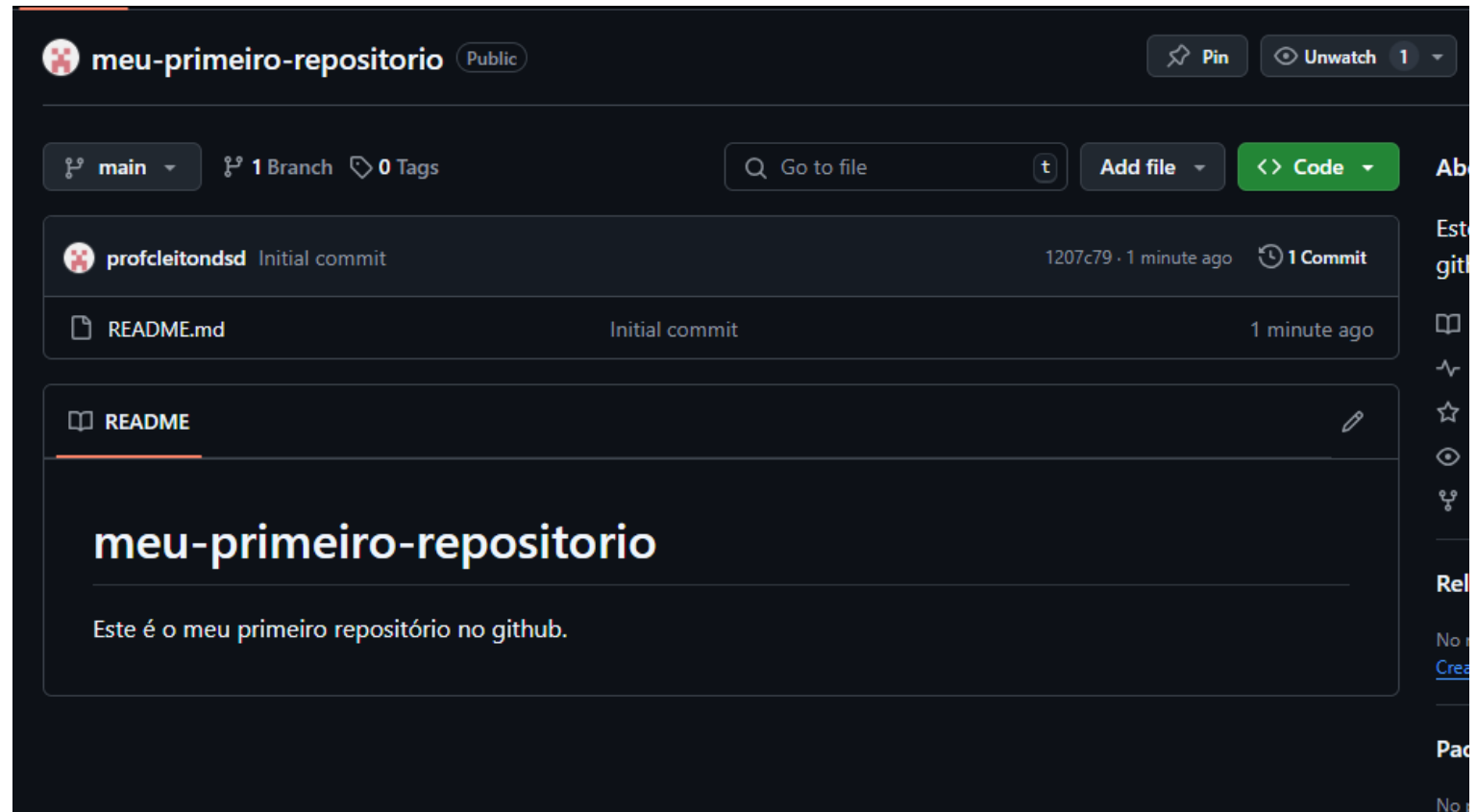
This will set  **main** as the default branch. Change the default name in your [settings](#).

 You are creating a public repository in your personal account.

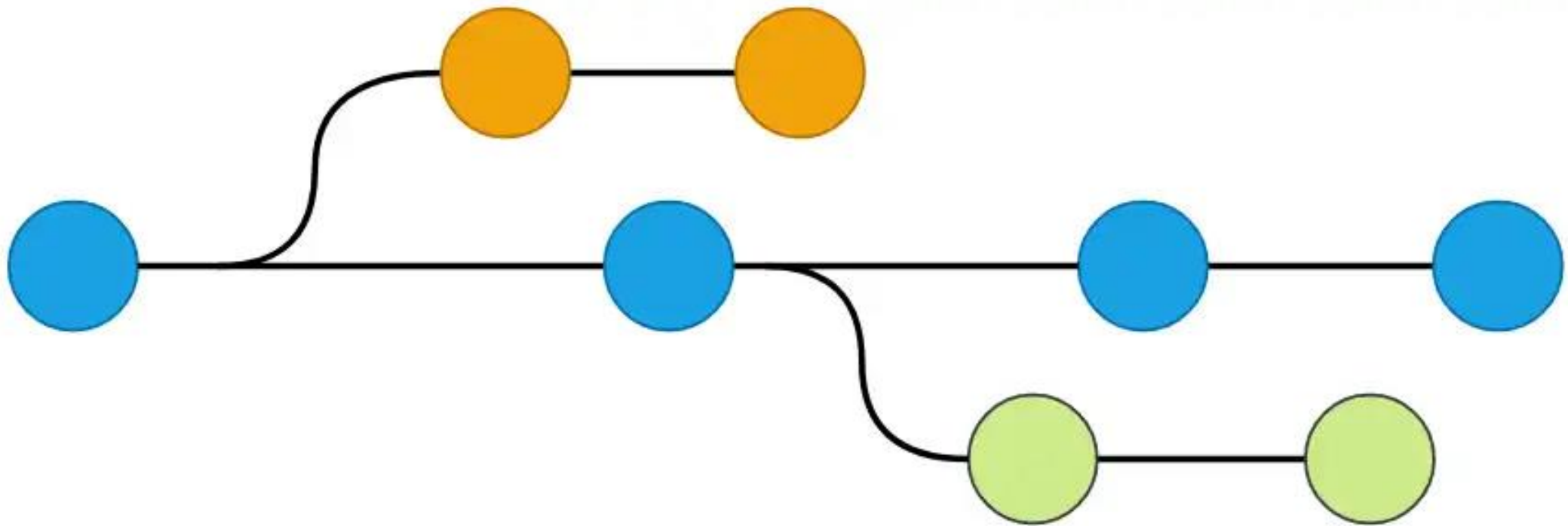
4°


Create repository

Repositório criado



Agora vamos mexer no git



 **git** --local-branching-on-the-cheap

Type / to search entire site...

About
Documentation
Downloads
GUI Clients
Logos
Community

The entire **Pro Git book** written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

Download for Windows

[Click here to download](#) the latest (2.47.0) 64-bit version of **Git for Windows**. This is the most recent [maintained build](#). It was released **4 days ago**, on 2024-10-08.

Other Git for Windows downloads

Standalone Installer
[32-bit Git for Windows Setup.](#)
[64-bit Git for Windows Setup.](#)

Portable ("thumbdrive edition")
[32-bit Git for Windows Portable.](#)
[64-bit Git for Windows Portable.](#)

Using winget tool
Install [winget tool](#) if you don't already have it, then type this command in command prompt or Powershell.

```
winget install --id Git.Git -e --source winget
```

The current source code release is version **2.47.0**. If you want the newer version, you can build it from [the source code](#).

Instalando GIT

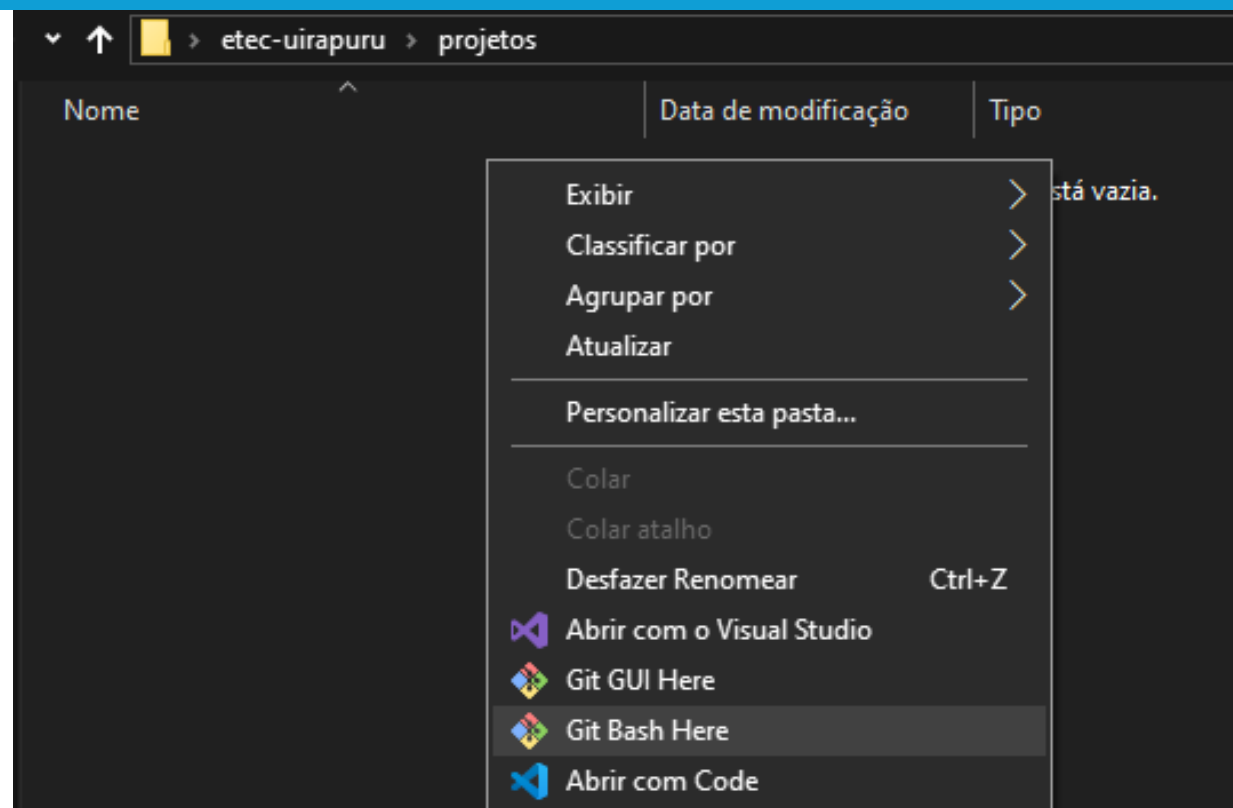
<https://git-scm.com/downloads/windows>

Após baixar, executar o programa. Avance todas as telas....

- Next -> Next -> Install.....
- Após Instalar,

Configurando git

Na área de trabalho do seu computador, crie uma pasta chamada “**projetos**” em seguida, botão direito do mouse e clique em “**Git Bash Here**”.



Continua na 2ª aula...

Referências:

- <https://docs.github.com/pt>
- <https://git-scm.com/book/pt-br/v2/Come%C3%A7ando-O-B%C3%A1sico-do-Git>
- <https://www.datacamp.com/pt/blog/all-about-git>
- <https://www.alura.com.br/artigos/o-que-e-git-github>

Docentes Responsáveis:

- Cleiton Dias
- Thiago Gervásio
- Fábio Claret
- Jonas Cavalaro
- Suely Piaui
- Paulo Rogério





acabou os slides

**pbrigado pela atenção
Família**

Criar Meme