



2. Preparação do ambiente de desenvolvimento

2.1. Instalação Visual Studio Code

2.2. Noções de Git e GitHub

2.3. Slack

2.4. Trello

Prof. Me. Marcos Alves
marcos@ucdb.br



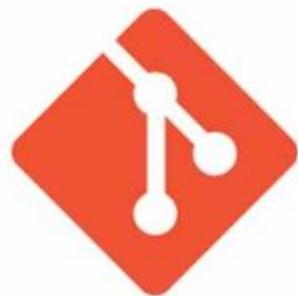


git





- **Ferramenta de controle de versão de arquivos;**
- Objetivo: facilitar o trabalho em equipe dentro de uma empresa;
- Permite desenvolver o trabalho simultaneamente em um mesmo arquivo;
- Facilidade nos processos de fusão entre diferentes versões de um mesmo arquivo.



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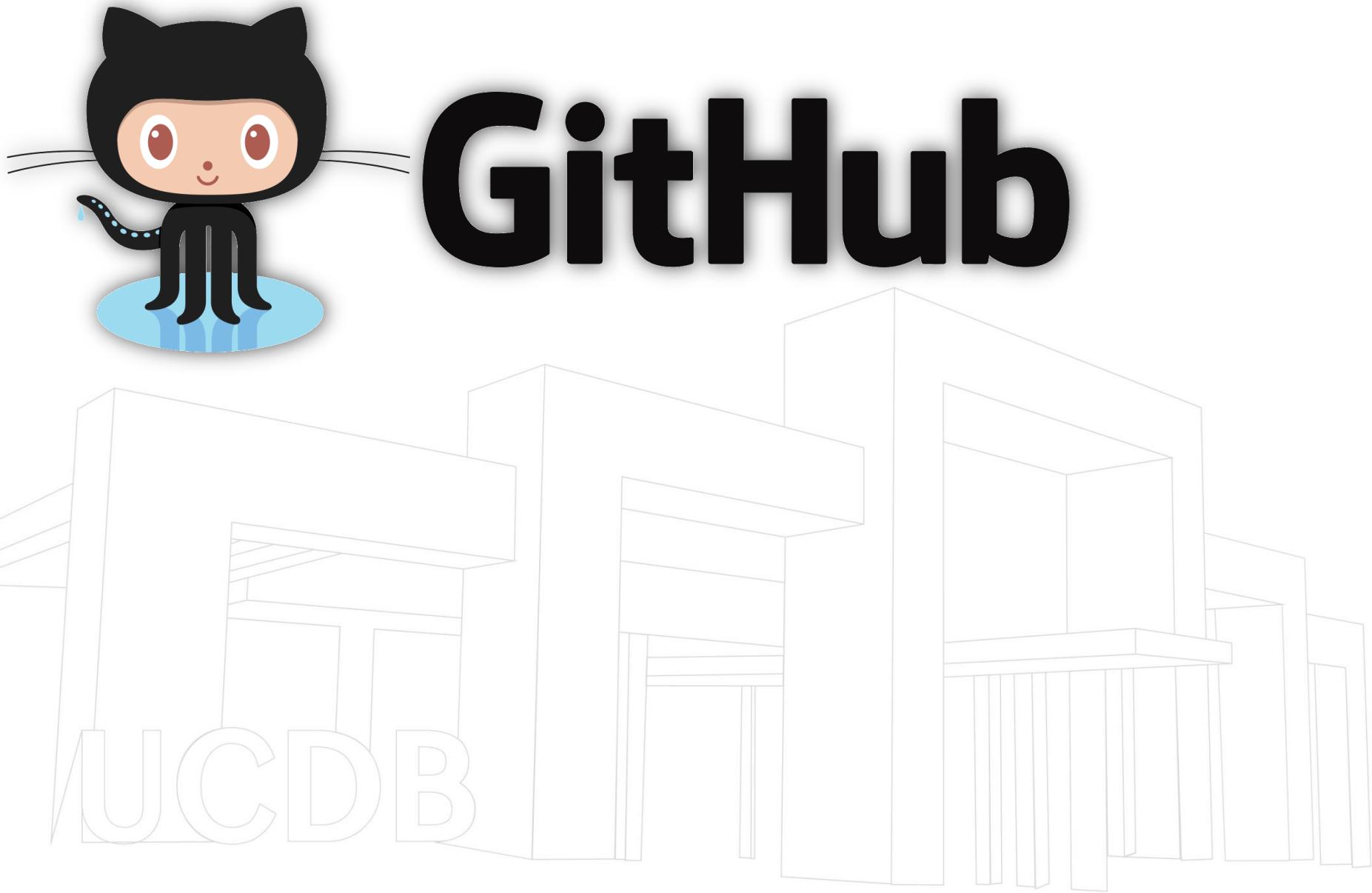
git

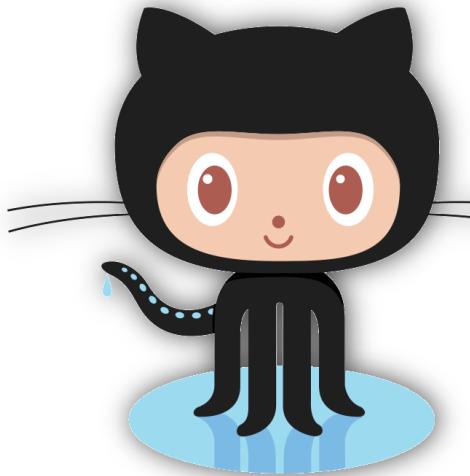
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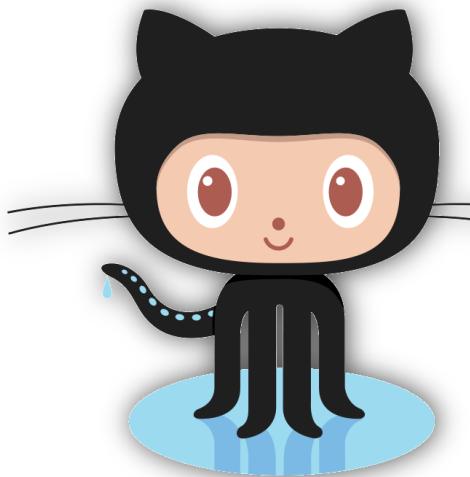
GitHub

- “**Rede social” para programadores e profissionais na área de desenvolvimento de sistemas.**
- Criação de bibliotecas de projetos *open source*, para que outros desenvolvedores possam utilizá-los;
- Hospedagem de projetos em nuvem.



GitHub

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Instalação

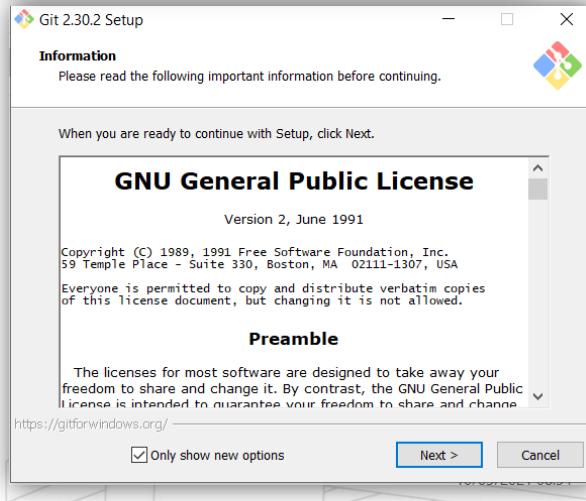
- Baixar e instalar o Git a partir do link: <http://git-scm.com/download/win>

The screenshot shows the official Git website (<http://git-scm.com>) with a focus on the "Downloads" section. The header features the Git logo and the tagline "--everything-is-local". A search bar is at the top right. The left sidebar includes links for "About", "Documentation", "Downloads" (which is highlighted in red), "Community", and a box about the "Pro Git book". The main content area is titled "Downloading Git" and features a large downward arrow icon. It states: "You are downloading the latest (2.30.2) 64-bit version of **Git for Windows**. This is the most recent [maintained build](#). It was released **2 days ago**, on 2021-03-09." Below this, there are links for "Click here to download manually" and "Other Git for Windows downloads", which include "Git for Windows Setup", "32-bit Git for Windows Setup", "64-bit Git for Windows Setup", "Git for Windows Portable ("thumbdrive edition")", "32-bit Git for Windows Portable", and "64-bit Git for Windows Portable". At the bottom, it notes: "The current source code release is version 2.30.2. If you want the newer version, you can build it from [the source code](#)".



git

Instalação

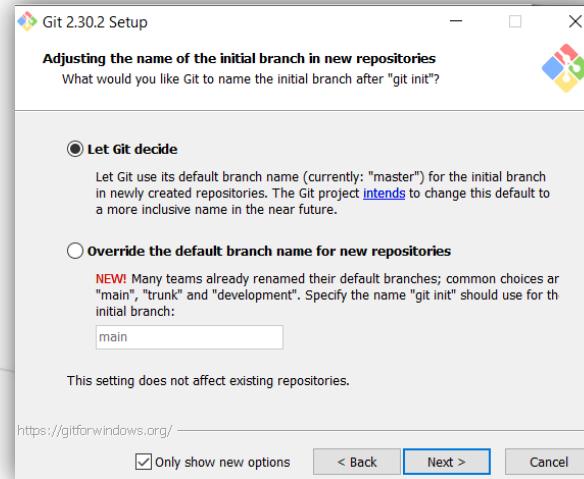
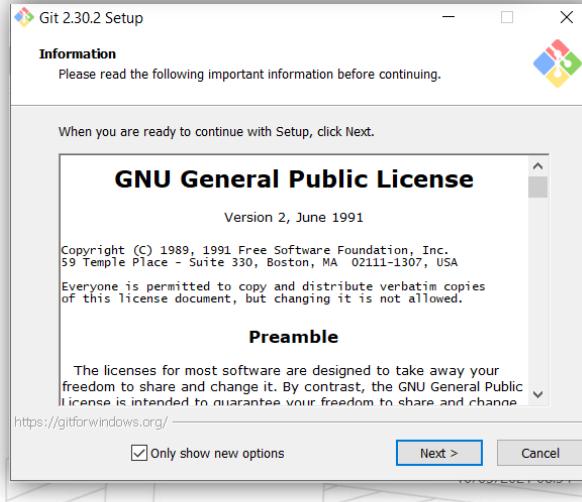


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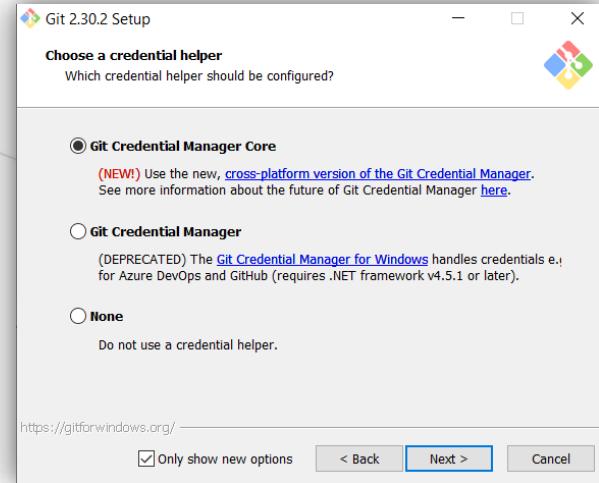
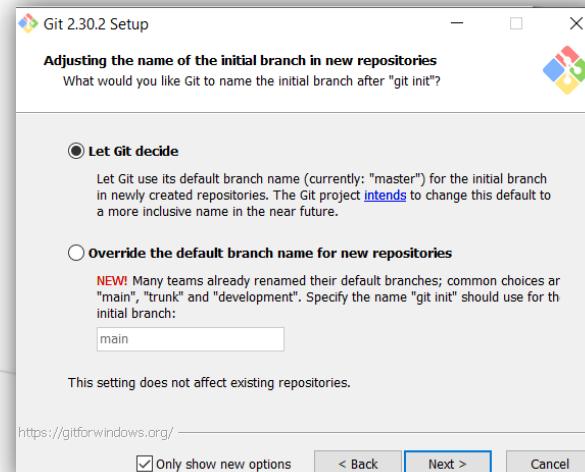
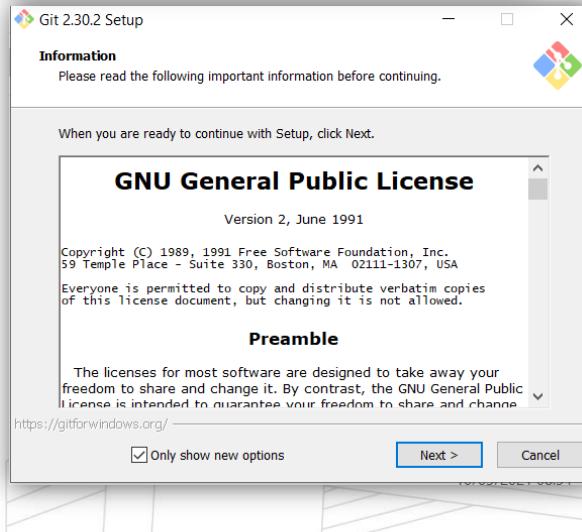
Instalação





git

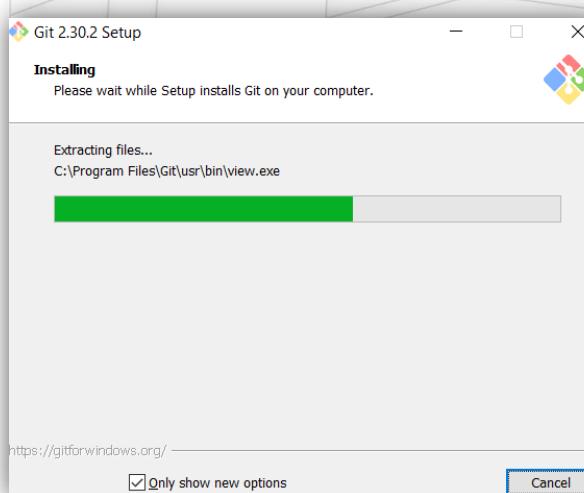
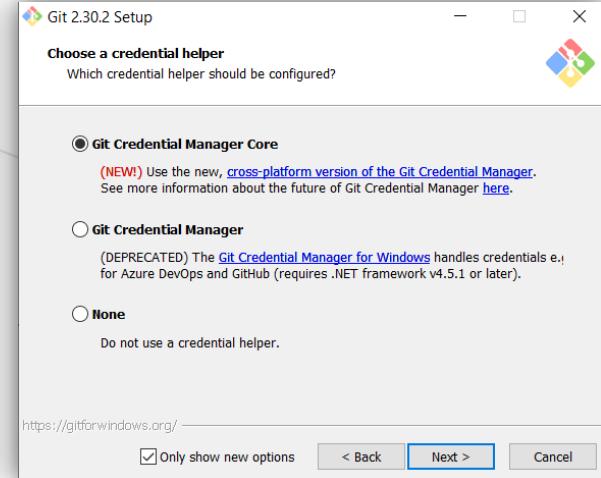
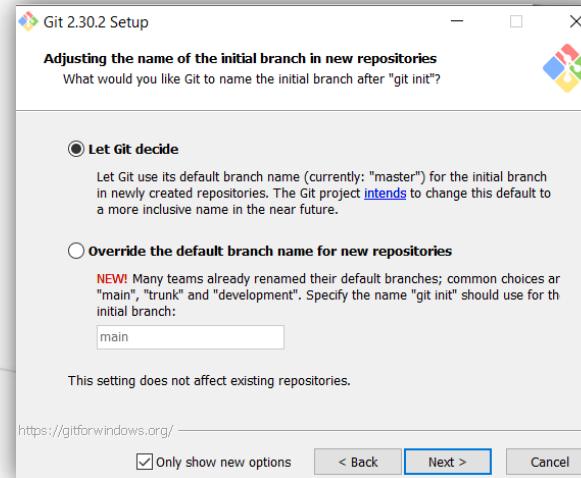
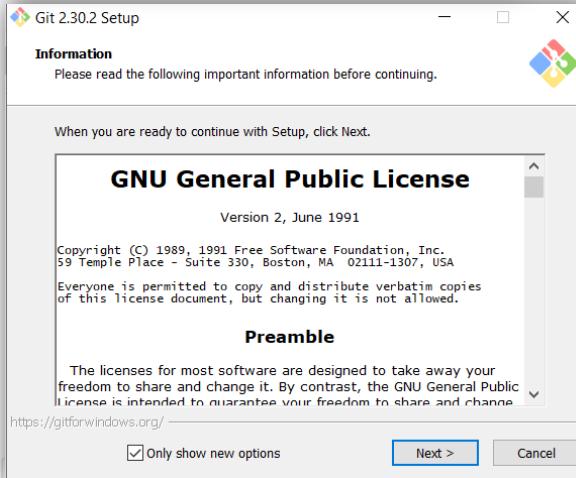
Instalação





git

Instalação

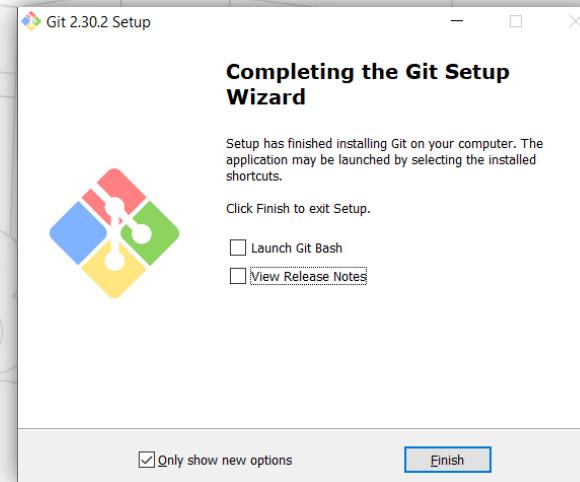
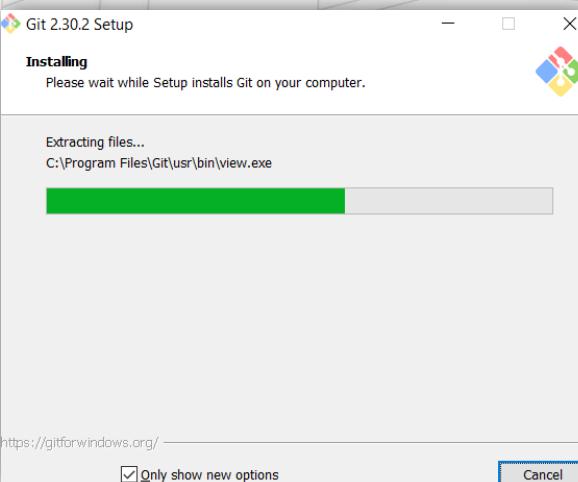
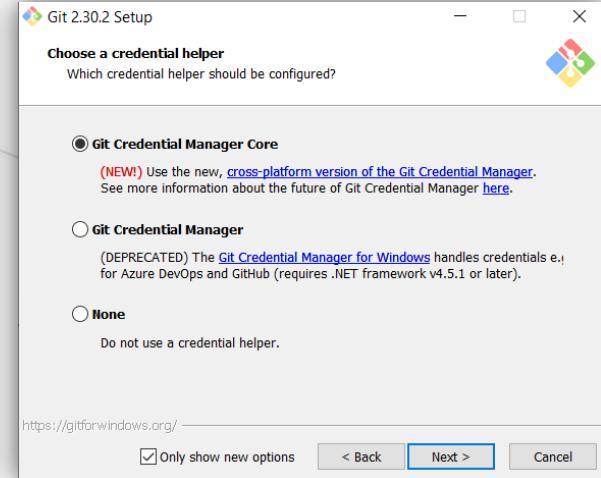
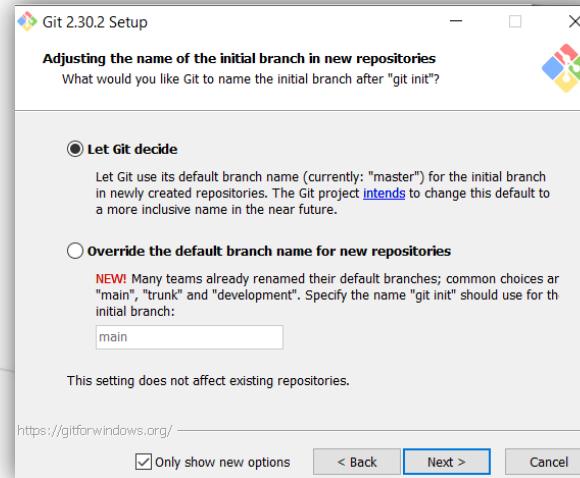
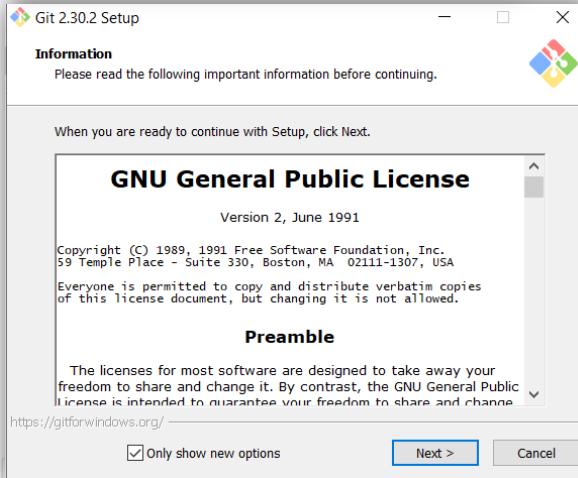


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git

Instalação

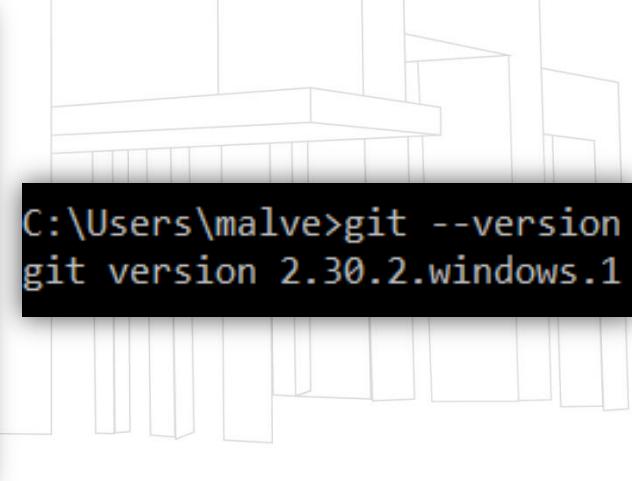
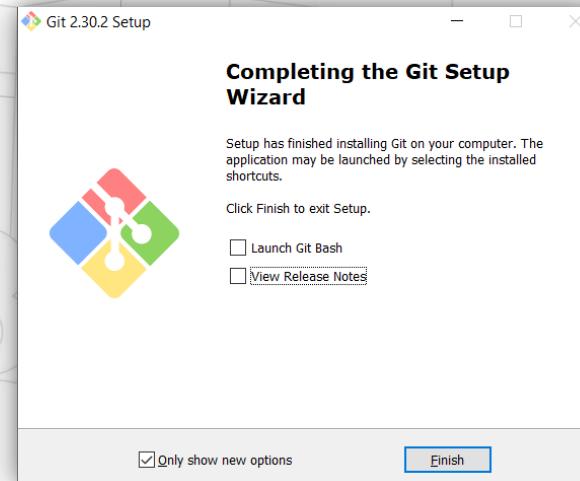
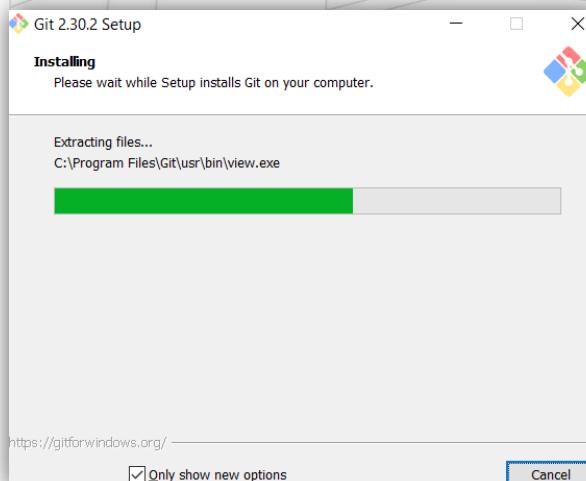
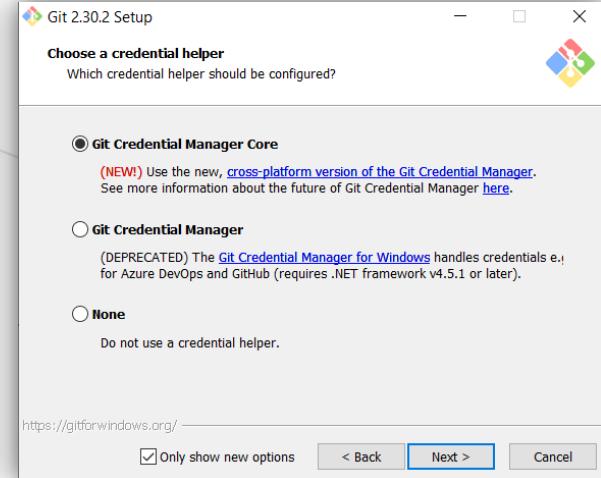
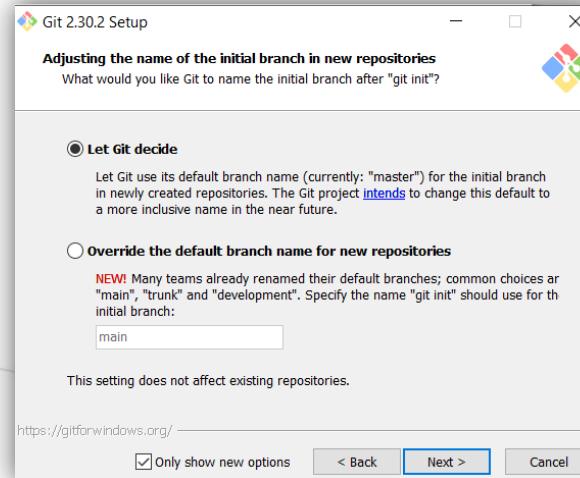
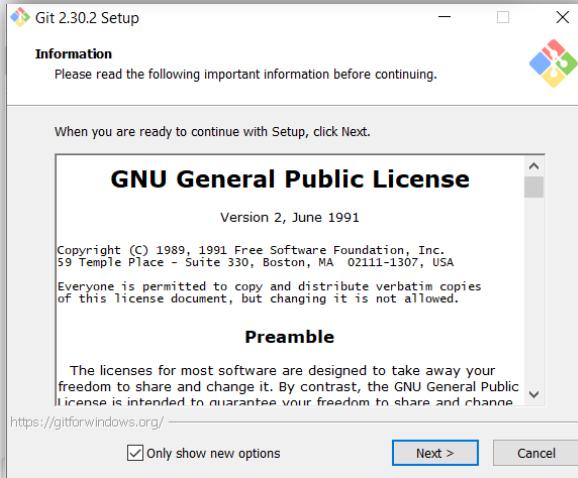


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git

Instalação





GitHub Criação de conta

The screenshot shows the GitHub homepage with the following elements:

- Header:** GitHub logo, navigation links (Why GitHub?, Team, Enterprise, Explore, Marketplace, Pricing), Search GitHub input, Sign in, and Sign up buttons.
- Main Section:** A large white text area with the heading "Where the world builds software" and a subtext: "Millions of developers and companies build, ship, and maintain their software on GitHub—the largest and most advanced development platform in the world." Below this are two buttons: "Email" and "Sign up for GitHub".
- Global Impact Graphic:** A large, semi-transparent globe with glowing purple lines representing network connections between various locations.
- Bottom Statistics:** Four data points: "56+ million Developers", "3+ million Organizations", "100+ million Repositories", and "72% Fortune 50".
- Character Illustration:** A small, colorful illustration of an astronaut in a space suit standing next to the globe.



GitHub Repositório

Create a new repository

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

Owner *



marcosalvesms ▾

Repository name *

tads2021



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

Description (optional)

Workspace para projetos de TAP e RAD

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.

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](#).

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

Create repository



GitHub Repositório

Quick setup — if you've done this kind of thing before



Set up in Desktop

or

HTTPS

SSH

<https://github.com/marcosalvesms/tads2021.git>

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# tads2021" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/marcosalvesms/tads2021.git
git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/marcosalvesms/tads2021.git
git branch -M main
git push -u origin main
```

...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

[Import code](#)



GitHub Repositório

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

Learn Git and GitHub without any code!

Using the Hello World guide, you'll start a branch, write comments, and open a pull request.

[Read the guide](#)

marcosalvesms / tads2021

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags Go to file Add file Code

marcosalvesms Initial commit s3aab90 now 1 commit

README.md Initial commit now

README.md

tads2021

Workspace para projetos de TAP e RAD

About Workspace para projetos de TAP e RAD

Readme

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[main](#) [Branches](#)

[1 branch](#)

[0 tags](#)

[Go to file](#)

[Add file](#)

[Code](#)



marcosalvesms Initial commit

[README.md](#)

Initial commit

README.md

tads2021

Workspace para projetos de TAP e RAD

[Clone](#)

[HTTPS](#) [SSH](#) [GitHub CLI](#)

<https://github.com/marcosalvesms/tads2>



Use Git or checkout with SVN using the web URL.

[Open with GitHub Desktop](#)

[Download ZIP](#)

https://github.com/marcosalvesms/tads2021.git

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Inspira o futuro

23



GitHub 



Configurando....

- Primeira vez: criando o repositório **Git** local





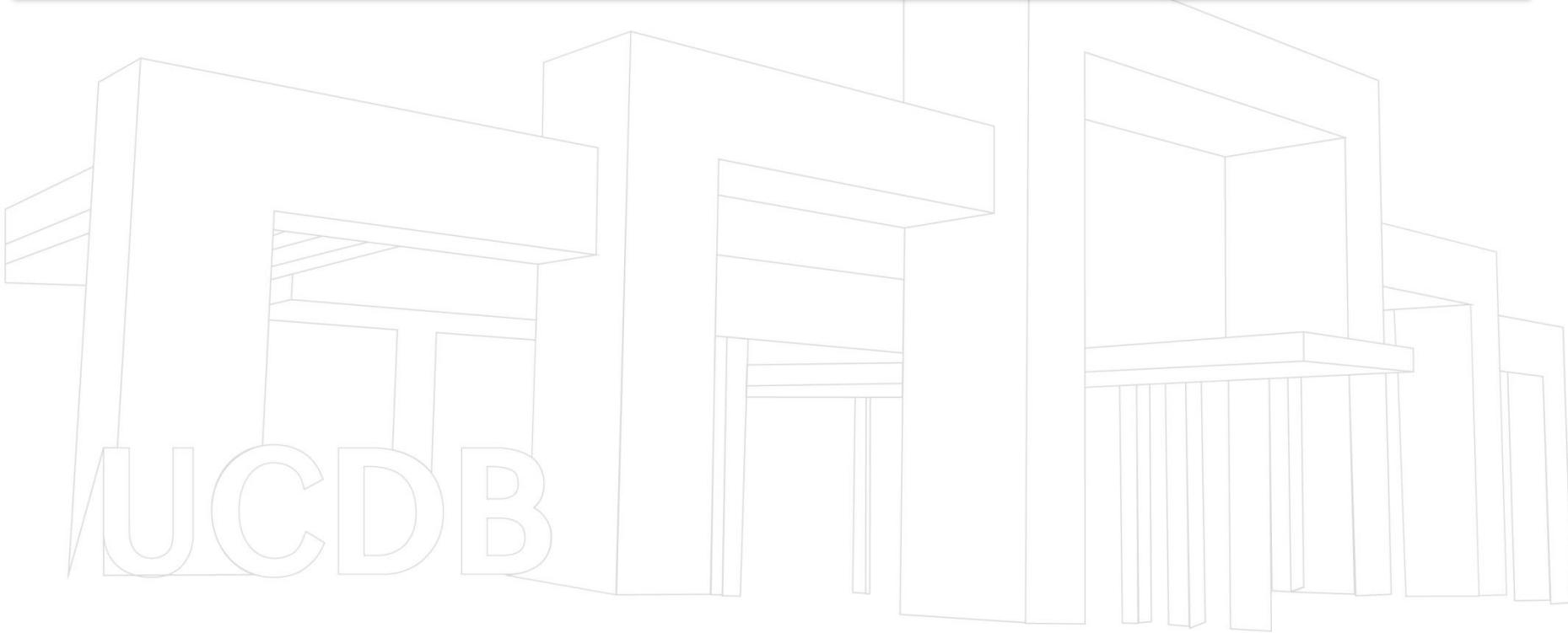
GitHub 



Configurando....

- Primeira vez: criando o repositório **Git** local

```
$ mkdir RAD1
```





GitHub 



Configurando....

- Primeira vez: criando o repositório **Git** local

```
$ mkdir RAD1  
$ cd .\RAD1\
```





GitHub 



Configurando....

- Primeira vez: criando o repositório **Git** local

```
$ mkdir RAD1  
$ cd .\RAD1\
```

```
$ git init
```



GitHub



git

Configurando....

- Primeira vez: criando o repositório **Git** local

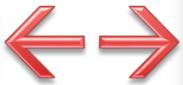
```
$ mkdir RAD1  
$ cd .\RAD1\
```

```
$ git init
```

```
Initialized empty Git repository in D:/Meus Programas/RAD1/tads2021/.git/
```



GitHub



git

Configurando....

- Primeira vez: criando o repositório **Git** local

```
$ mkdir RAD1  
$ cd .\RAD1\
```

```
$ git init
```

```
Initialized empty Git repository in D:/Meus Programas/RAD1/tads2021/.git/
```

```
$ git config user.name "marcosalvesms"
```



GitHub



git

Configurando....

- Primeira vez: criando o repositório **Git** local

```
$ mkdir RAD1  
$ cd .\RAD1\
```

```
$ git init
```

```
Initialized empty Git repository in D:/Meus Programas/RAD1/tads2021/.git/
```

```
$ git config user.name "marcosalvesms"  
$ git config user.email "malves1.br@gmail.com"
```



GitHub



git

Configurando....

NA PRIMEIRA VEZ, o criador do repositório deve executar os comandos a seguir:

- Vínculo do repositório Git local com o remoto

```
$ git remote add origin  
https://github.com/marcosalvesms/tads2021.git
```

- Confirmando o vínculo

```
$ git remote -v
```

```
origin https://github.com/marcosalvesms/tads2021.git (fetch)  
origin https://github.com/marcosalvesms/tads2021.git (push)
```



GitHub



git

Configurando....

Os demais usuários do repositório
deve executar o comando a seguir:

- Clonando o repositório remoto

```
$ git clone https://github.com/marcosalvesms/tads2021.git
```

```
Cloning into 'tads2021'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
```



GitHub \leftrightarrow



git

Testando....

- Acessar a pasta tads2021

```
$ cd .\tads2021\
```

- Criar/editar um TXT na pasta tads2021 e logo após:

```
$ git add .  
$ git commit -m "PrimeiroCommitMaster"  
$ git push origin master
```

- Criar uma branch local “minhaBr”, se necessário

```
$ git fetch origin minhaBr:minhaBr
```

- Alternar para a branch “minhaBr”

```
$ git checkout minhaBr
```



GitHub ↔



Configurando....

O Visual Code Studio poderá solicitar acesso ao GitHub

The screenshot shows a GitHub authorization dialog. At the top is the GitHub logo. Below it is the text "Authorize Visual Studio Code to access GitHub". A message below that says "If you initiated this authorization from Visual Studio Code, click 'Continue' to authorize access to GitHub". There are two buttons at the bottom: a green "Continue" button and a blue "Do not authorize" button. A large red arrow points to the "Continue" button with the text "Clique AQUI" next to it.

Continue

Do not authorize

Clique AQUI

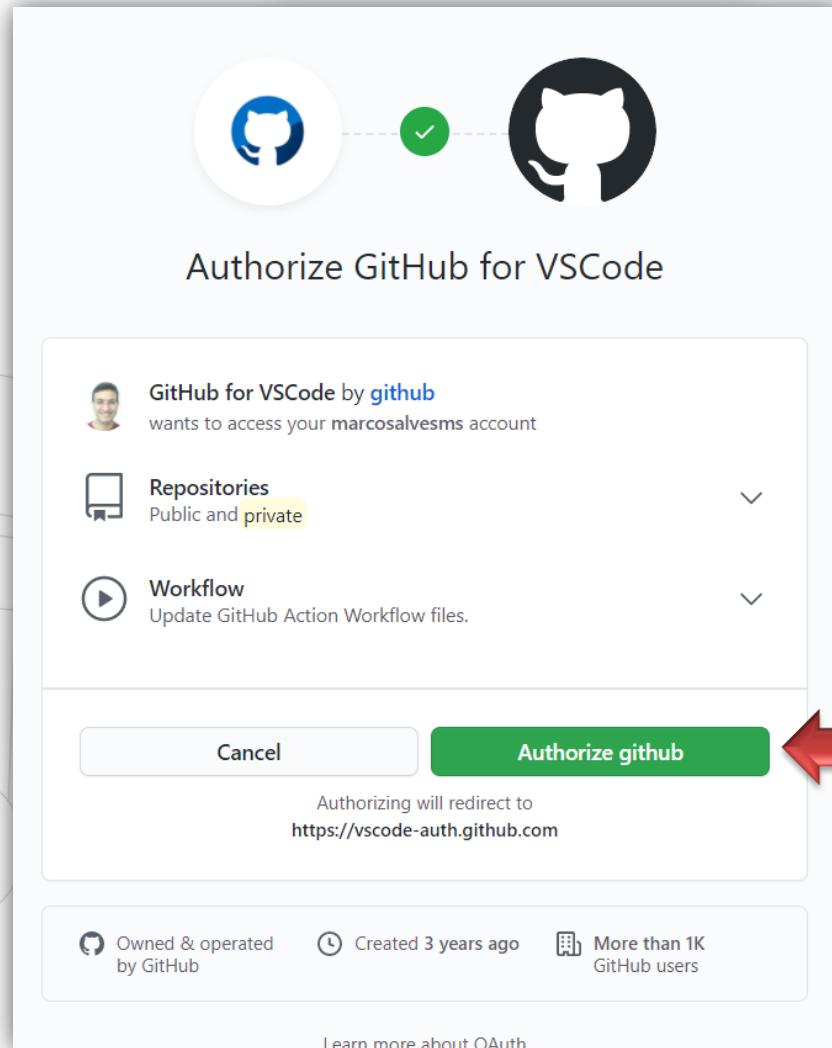


GitHub



git

Configurando....





GitHub \leftrightarrow



Configurando....



Success!

Authorization was successful. You will be redirected back to Visual Studio Code

Didn't work?

If you aren't redirected, you can add the token manually.

Your authorization token:

```
vscode://vscode.github-authentication/did-authenticate?  
windowid=1&code=3a4ae74d780e85616690&state=be932698-595d-46ae-b586-264c07ef990e
```

1. Copy the token.
2. Switch back to VS code.
3. Click Signing in to github.com... in the status bar.
4. Paste the token and hit enter.



GitHub ↔



Testando....

Para copiar o conteúdo de uma branch para outra

- Para saber em qual branch você está

```
$ git branch  
*master
```

- Criar uma nova branch “minhaBr” (vazia)

```
$ git checkout -b "novaBr"
```

- Alternar para a branch “novaBr”

```
$ git checkout novaBr
```

- Copiar o conteúdo da “master” para a “novaBr”

```
$ git merge master
```