

# *Versionamento*

*git / github*



**INSTITUTO FEDERAL**  
Rondônia  
Campus Ji-Paraná



*Git*

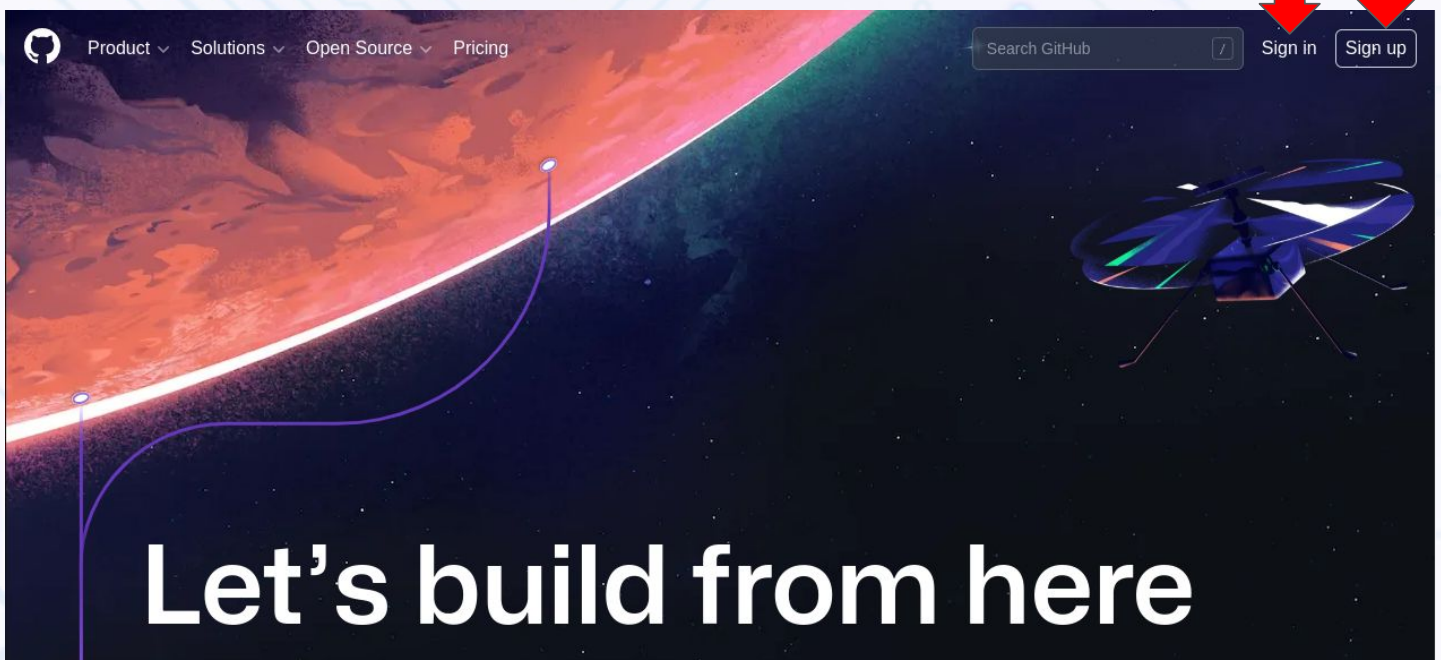
“Criado por Linus Torvalds, o Git é um sistema distribuído de controle de versão que tem como objetivo gerenciar as modificações realizadas nos arquivos de um determinado projeto no âmbito local.” (LEDUR, SARAIVA e FREITAS, 2019).

“O Git trabalha com uma estrutura em forma de árvore, cujas modificações realizadas podem ser organizadas em ramificações (branches) para facilitar a administração do conteúdo”(LEDUR, SARAIVA e FREITAS, 2019).

# GitHub

“O GitHub é um serviço open source de hospedagem de código-fonte que permite o controle de versão de arquivos de projetos de diversos tipos. Os arquivos, que são armazenados em branches, podem ser sincronizados com repositórios locais Git, permitindo fazer uploads ou downloads quando necessário”.(LEDUR, SARAIVA e FREITAS, 2019).

## *Criando conta no github - <https://github.com>*



# *Criando a Conta*



Already have an account? [Sign in](#) →

Welcome to GitHub!  
Let's begin the adventure

Enter your email



Continue

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.

# *Criando conta*

Welcome to GitHub!  
Let's begin the adventure

Enter your email

✓ betto; ..com

Create a password



Continue

## *Username*

Welcome to GitHub!  
Let's begin the adventure

Enter your email

✓ betto 1.com

Create a password

✓ .....

Enter a username

→

## *Receber email*

✓ bettojogar@gmail.com

Create a password

✓ .....

Enter a username

✓

Would you like to receive product updates and  
announcements via email?  
Type "y" for yes or "n" for no

→



# Verificação

Verify your account

Verificação

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

Verificar



# Enigma

Verify your account

Escolha um quadrado que mostra dois objetos idênticos.



## *Etapa 2*

Escolha um quadrado que mostra dois objetos idênticos.



## *Criando*

Verify your account



Create account

## Código de Confirmação

You're almost done!

We sent a launch code to **betto** **l.com**

→ Enter code

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

## Configurando

### How many team members will be working with you?

This will help us guide you to the tools that are best suited for your projects.

Just me

2 - 5

5 - 10

10 - 20

20 - 50

50+

### Are you a student or teacher?

Student

Teacher

Continue


# Quais recursos específicos você está interessado em usar?

**What specific features are you interested in using?**  
Select all that apply so we can point you to the right GitHub plan.

- ☐ **Collaborative coding**  
Codespaces, Pull requests, Notifications, Code review, Code review assignments, Code owners, Draft pull requests, Protected branches, and more.
- ☐ **Automation and CI/CD**  
Actions, Packages, APIs, GitHub Pages, GitHub Marketplace, Webhooks, Hosted runners, Self-hosted runners, Secrets management, and more.
- ☐ **Security**  
Private repos, 2FA, Required reviews, Required status checks, Code scanning, Secret scanning, Dependency graph, Dependabot alerts, and more.
- ☐ **Client Apps**  
GitHub Mobile, GitHub CLI, and GitHub Desktop.
- ☐ **Project Management**  
Projects, Labels, Milestones, Issues, Unified Contribution Graph, Org activity graph, Org dependency insights, Repo insights, Wikis, and GitHub Insights.
- ☐ **Team Administration**  
Organizations, Invitations, Team sync, Custom roles, Domain verification, Audit Log API, Repo creation restriction, and Notification restriction.
- ☐ **Community**  
GitHub Marketplace, GitHub Sponsors, GitHub Skills, and Electron.


[Continue](#)

## Continuar Free



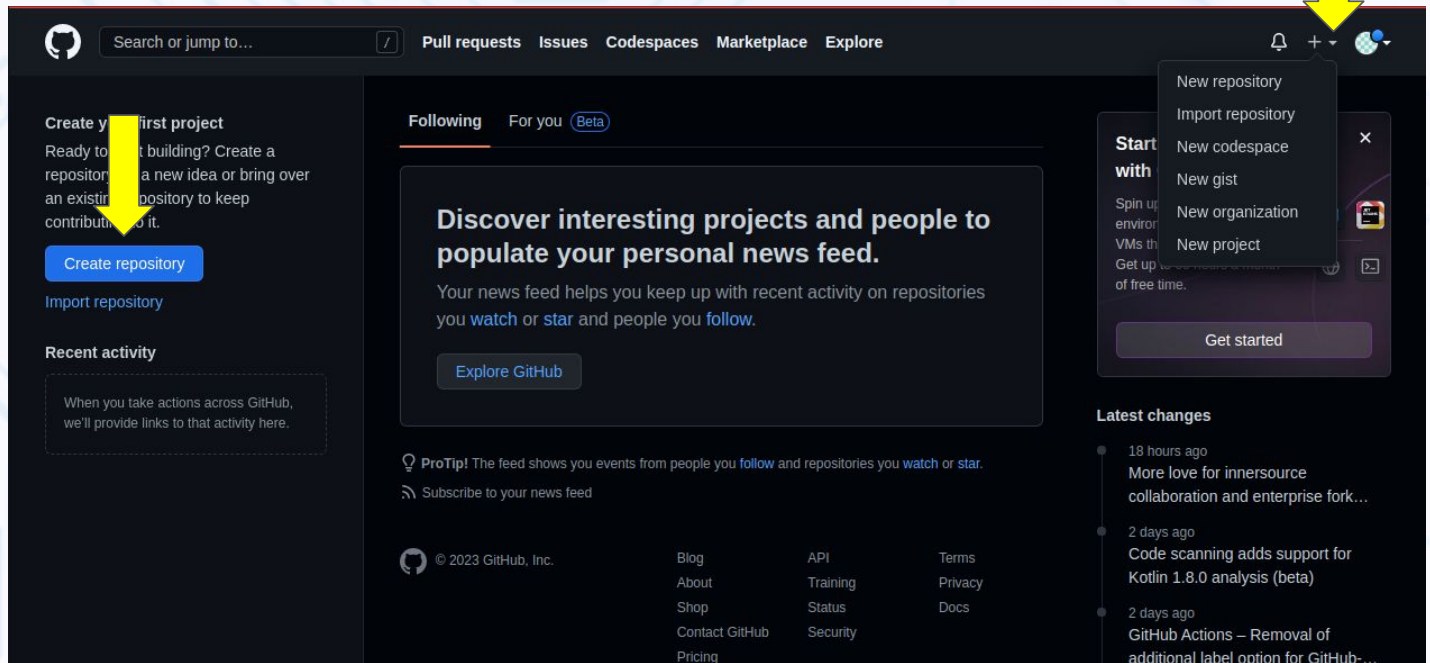
### Real-world tools, engaged students.

GitHub gives teachers free access to industry-standard tools for training developers.

Free	Get additional teacher benefits
<ul style="list-style-type: none"><li>① Unlimited public/private repositories</li><li>① 2,000 CI/CD minutes/month <small>Free for public repositories</small></li><li>① 500MB of Packages storage <small>Free for public repositories</small></li><li>① 120 core-hours of Codespaces compute</li><li>① 15GB of Codespaces storage</li><li>① Community support</li></ul>	<p><b>GitHub Team</b></p> <ul style="list-style-type: none"><li> <b>Protect your branches</b> <small>Ensure that collaborators on your repository cannot make irrevocable changes to branches.</small></li><li>① <b>Draft pull requests</b></li><li>① <b>Required reviewers</b></li><li>① <b>3,000 CI/CD minutes/month</b> <small>Free for public repositories</small></li><li>① <b>2GB of Packages storage</b> <small>Free for public repositories</small></li><li>① <b>Web-based support</b></li></ul>



# Criando um repositório




# Configurando 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 \*


Repository name \*


 betti

 /

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

**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.

**Initialize this repository with:**  
Skip this step if you're importing an existing repository.

# Criando o repositório

**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.](#)

.gitignore template: None ▾


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

License: None ▾

 You are creating a private repository in your personal account.

[Create repository](#)

# Criado

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

betto / AulaGit Private Unwatch 1 Fork 0 Star 0

[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Security](#) [Insights](#) [Settings](#)

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

or [HTTPS](#) [SSH](#) <https://github.com/betto/AulaGit.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 "# AulaGit" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/bettoJogar/AulaGit.git
git push -u origin main
```

# README.md

<> Code Issues Pull requests Actions Projects Security Insights Settings

AulaGit / README.md in main

Cancel changes

<> Edit new file

Preview

Spaces

2

No wrap

1

# Markdown

<> Edit new file

Preview


Spaces

2

No wrap

```
1 # Projeto exibição de jogos
2
3 > Status do projeto: Em desenvolvimento pelos alunos do IFRO
4
5 Para rodar este projeto em seu computador, é precisa instalar é configurar o Bootstrap
6
7 ### Instalar via gerenciador de pacotes
8
9 ...
10 npm install bootstrap@5.3.0-alpha1
11 ...
12
13 ...
14 gem install bootstrap -v 5.3.0-alpha1
15 ...
16
17 ### incluído via CDN
18
19 ...
20 <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-GLh1TQ8iRABdZL1603oVMWsktQ0
21 ...
22
23 ...
24 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPfdkMBDXo30jS1Sgez6pr3x5M1Q1ZAGC+
25 ...
```

# Commit



### Commit new file

Criação do arquivo README

Add an optional extended description...

Commit new file

Cancel

# Resultado

<> Code Issues Pull requests Actions Projects Security Insights Settings

main 1 branch 0 tags

Go to file Add file <> Code

betto. Criação do arquivo README 9b729bb now 1 commit

README.md Criação do arquivo README now

README.md

## Projeto exibição de jogos

Status do projeto: Em desenvolvimento pelos alunos do IFRO

Para rodar este projeto em seu computador, é precisa instalar é configurar o Bootstrap

### Instalar via gerenciador de pacotes

```
npm install bootstrap@5.3.0-alpha1
```

About

Repositório para aprendizado dos alunos

Readme

0 stars

1 watching

0 forks

Releases

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

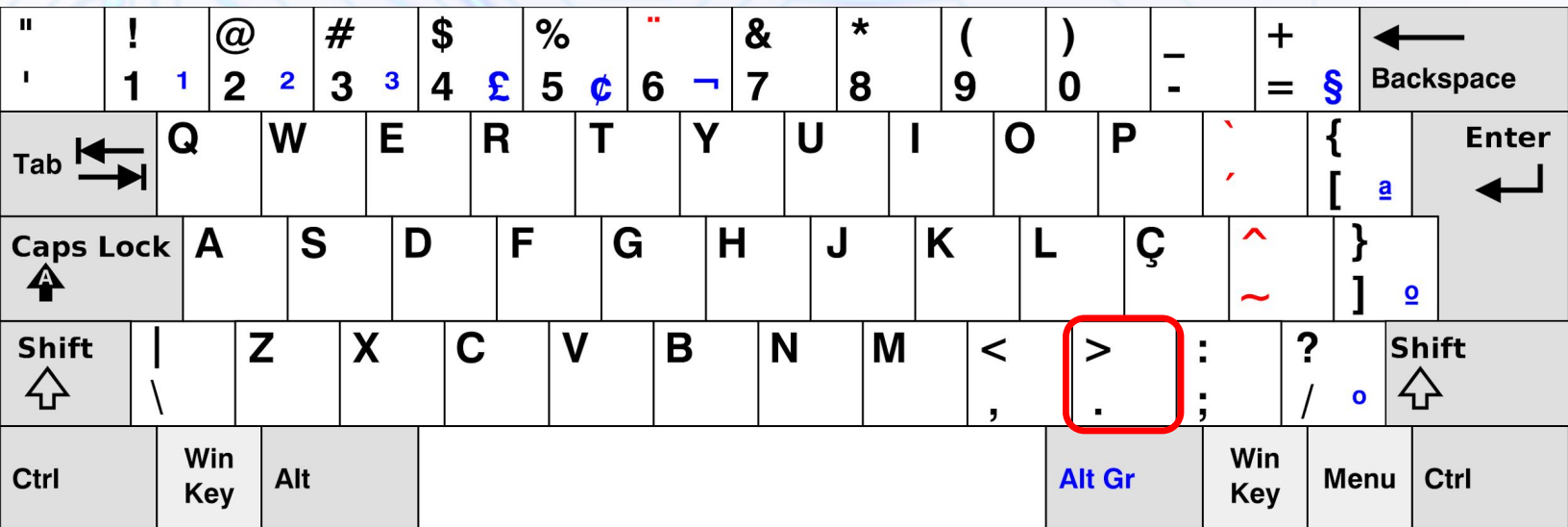
Packages

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



# VSCode no navegador

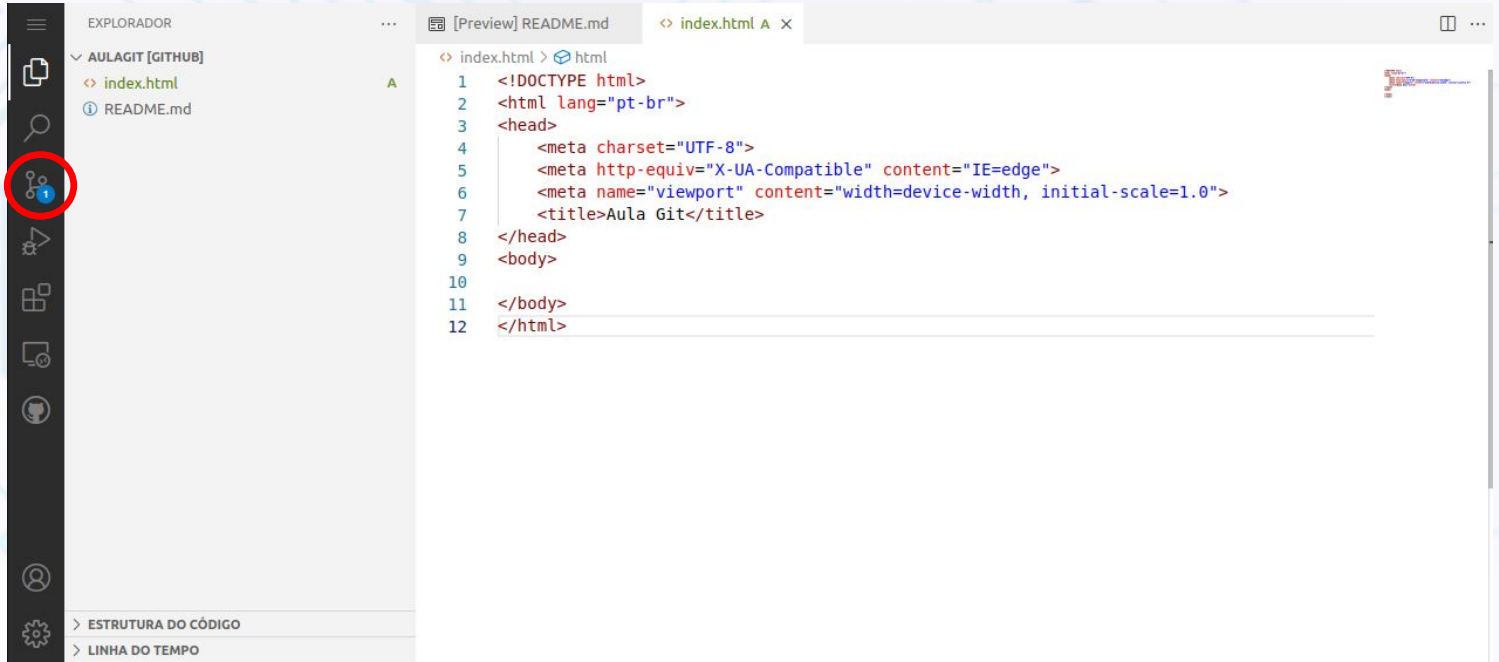
Pressione a tecla do ponto final por 5 segundos



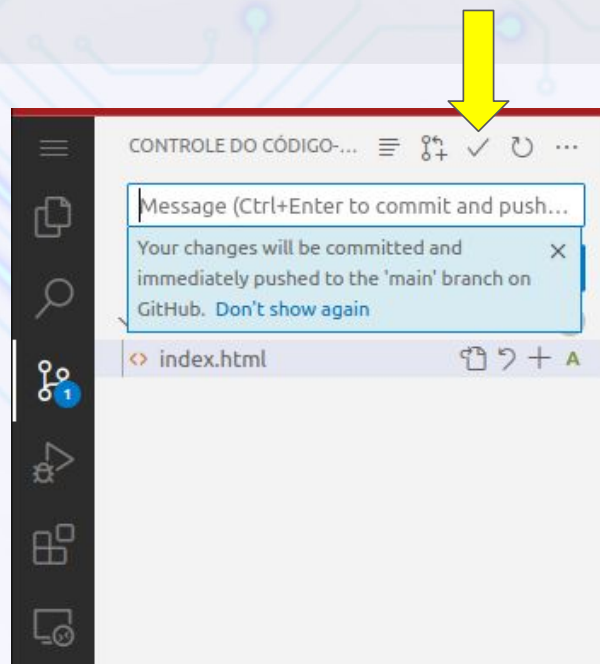
# VSCode no navegador



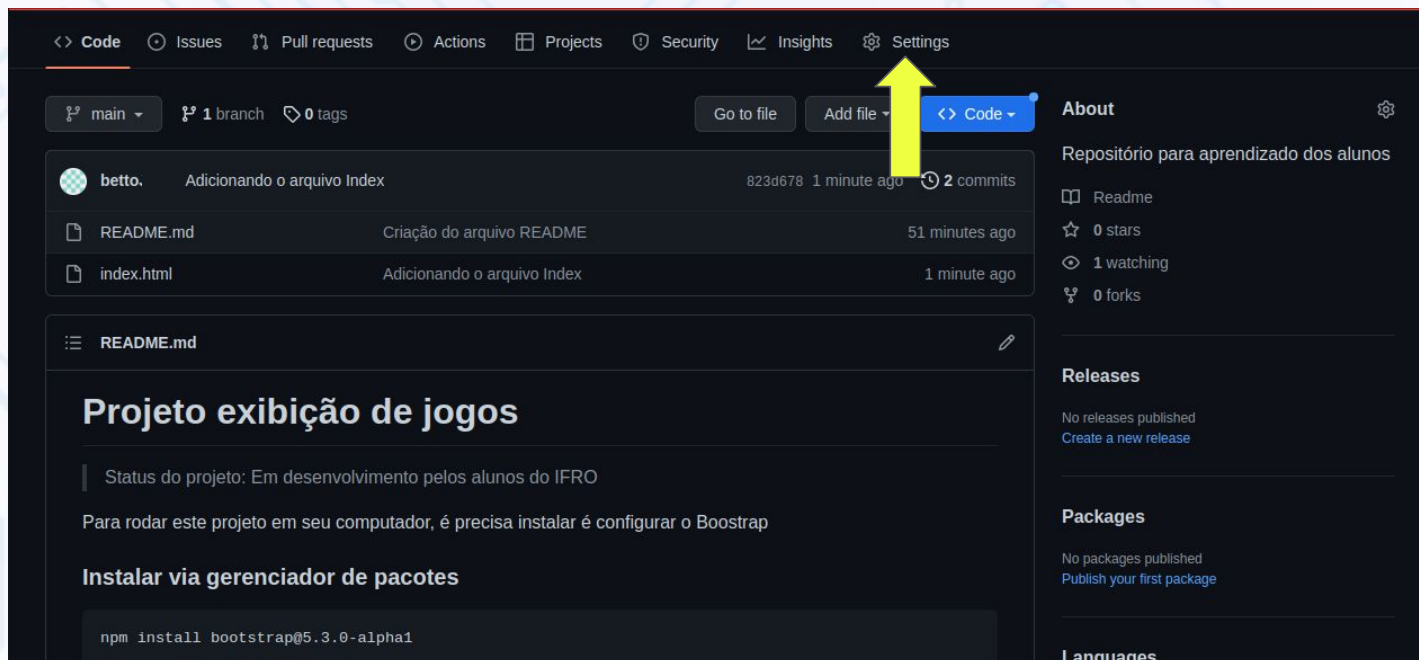
## *Crie a arquivo index*



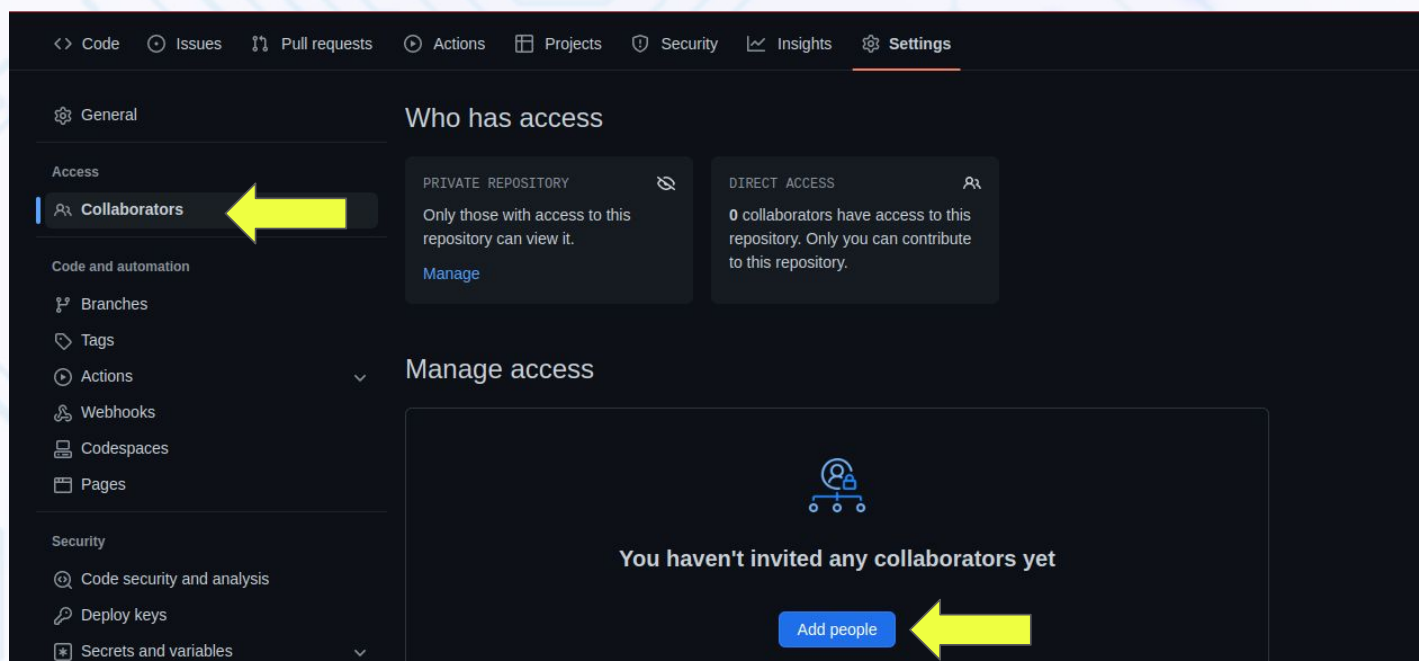
## *Commit*




## Adicionado um colaborador



## Adicionando colaborador



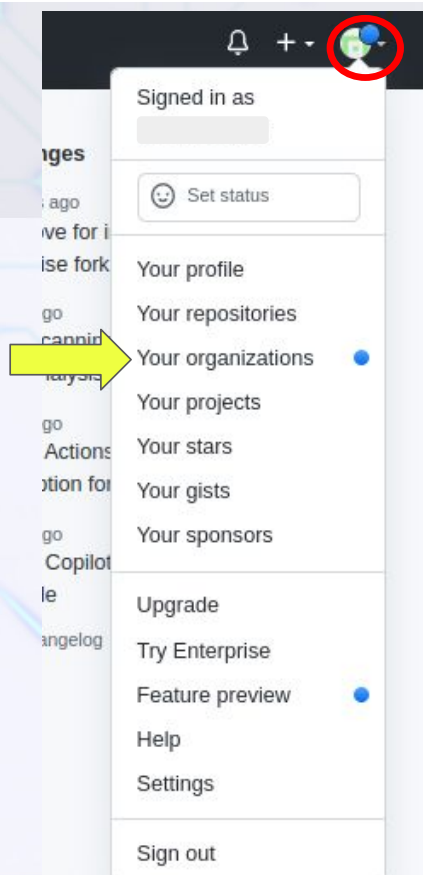
## Buscando colaborador



Add a collaborator to **AulaGit**

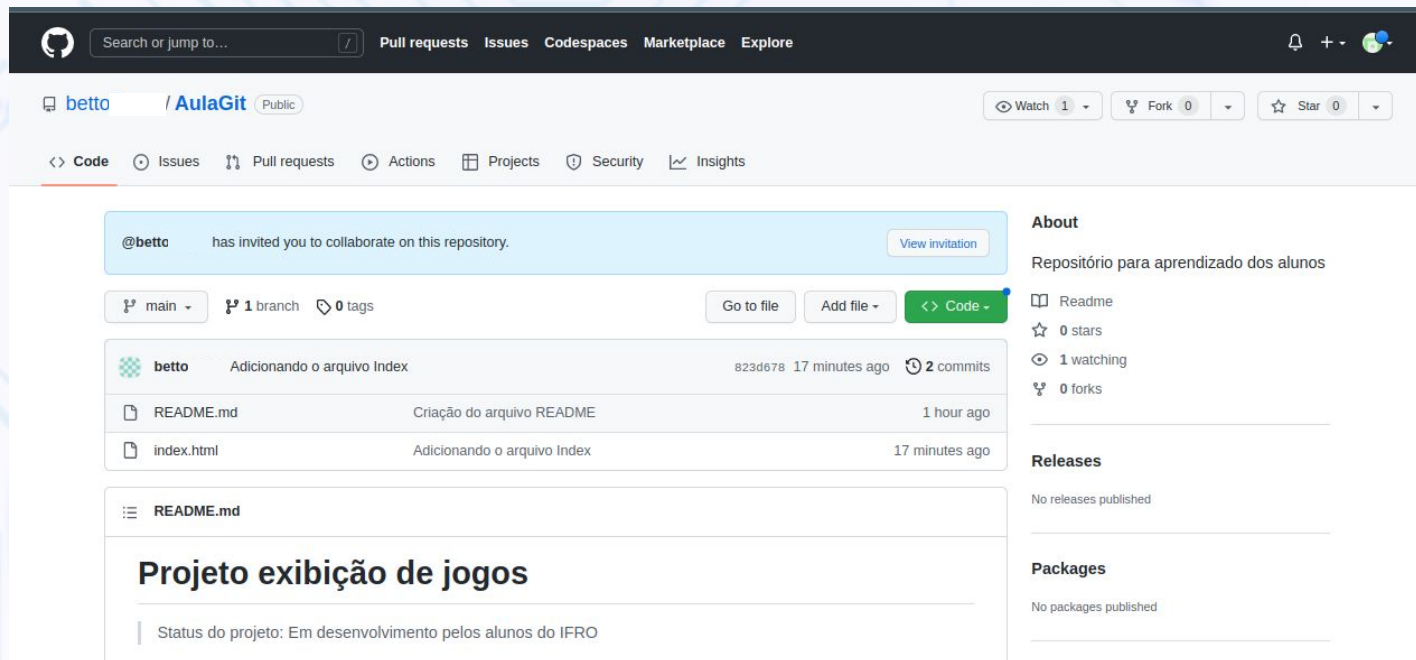
Select a collaborator above

## Notificação





# Notificação



The screenshot shows a GitHub repository interface. At the top, there's a navigation bar with links for Pull requests, Issues, Codespaces, Marketplace, and Explore. Below this, the repository name 'AulaGit' is displayed with a 'Public' label. On the right, there are buttons for Watch (1), Fork (0), and Star (0). The main content area shows a notification from '@betto' stating 'has invited you to collaborate on this repository.' Below the notification, there's a section for the repository's files, listing 'README.md' and 'index.html' with their respective commit times. The 'README.md' file is expanded, showing the title 'Projeto exibição de jogos' and a status message: 'Status do projeto: Em desenvolvimento pelos alunos do IFRO'. On the right side, there are sections for 'About' (describing it as a repository for student learning), 'Releases' (showing no releases published), and 'Packages' (showing no packages published).

**@betto** has invited you to collaborate on this repository. [View invitation](#)

main 1 branch 0 tags [Go to file](#) [Add file](#) [Code](#)

File	Commit Message	Time
README.md	Criação do arquivo README	1 hour ago
index.html	Adicionando o arquivo Index	17 minutes ago

**README.md**

## Projeto exibição de jogos

Status do projeto: Em desenvolvimento pelos alunos do IFRO

**About**  
Repositório para aprendizado dos alunos  
Readme  
0 stars  
1 watching  
0 forks

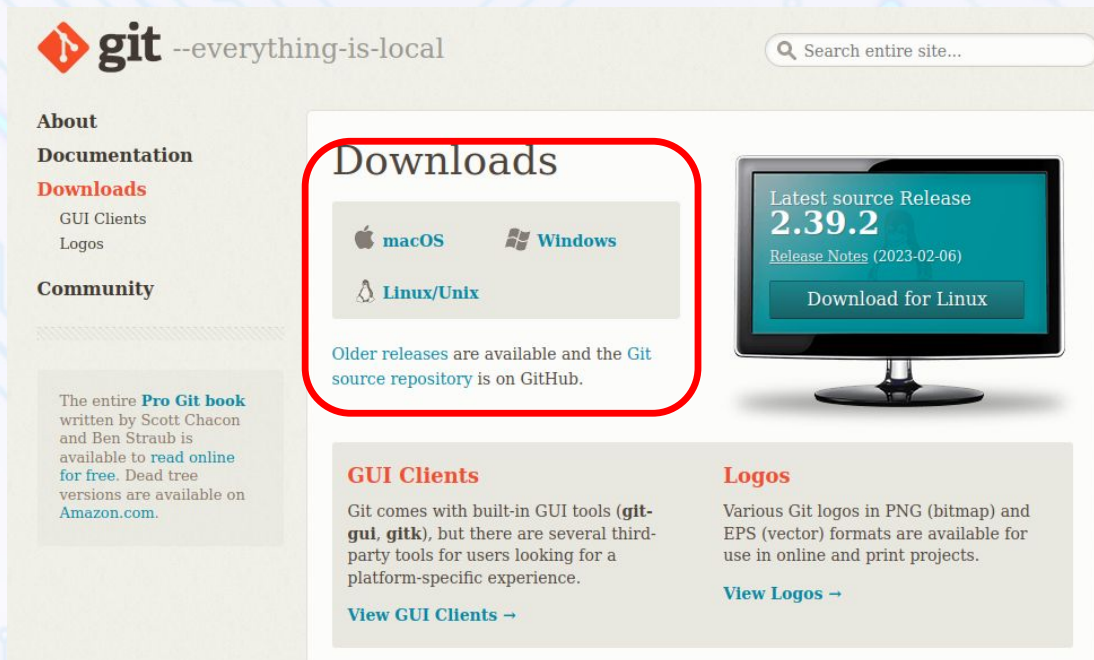
**Releases**  
No releases published

**Packages**  
No packages published

# Trabalho no seu computador



# Instalando o GIT



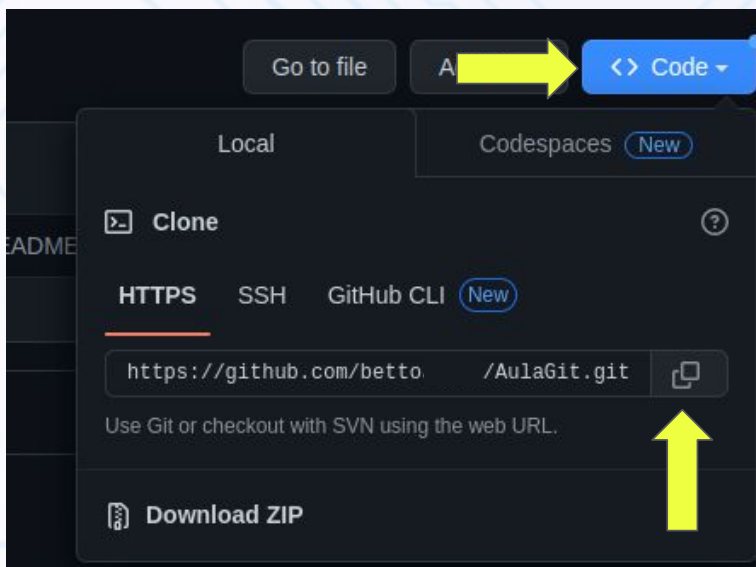
# Adicionando o nome e email

```
git config --global user.name "Fulano de Tal"
git config --global user.email fulanodetal@exemplo.br
```

## *removendo nome e e-mail*

```
git config --global --unset user.name  
git config --global --unset user.email
```

## *Clonando*



git clone endereço

## Entrando na pasta

Entrando na pasta

`cd nomePasta`

```
alberto@alberto-dell:~/Documentos/Projetos$ cd AulaGit/
```

## Log

`git log`

`git log --oneline`

```
alberto@alberto-dell:~/Documentos/Projetos$ cd AulaGit/
alberto@alberto-dell:~/Documentos/Projetos/AulaGit$ git log
commit 407fecafcd64c196dbb1df8fbd22617026029404 (HEAD -> main, origin/main, origin/HEAD)
Author: < >
Date: Fri Feb 17 11:25:46 2023 -0400

    Adicionado o Título

commit 823d678a6ffb84eb839494ecb3079e8ff03ac3b
Author: <125667677+ >
Date: Fri Feb 17 11:04:09 2023 -0400

    Adicionando o arquivo Index

commit 9b729bb15f2fbbd7c8fe12c7ec131c563e39ec5f
Author: <125667677+ >
Date: Fri Feb 17 10:13:28 2023 -0400

    Criação do arquivo README
alberto@alberto-dell:~/Documentos/Projetos/AulaGit$
```

```
alberto@alberto-dell:~/Documentos/Projetos/AulaGit$ git log --oneline
407feca (HEAD -> main, origin/main, origin/HEAD) Adicionado o Título
823d678 Adicionando o arquivo Index
9b729bb Criação do arquivo README
alberto@alberto-dell:~/Documentos/Projetos/AulaGit$
```



## *pull*

git pull endereço

```
alberto@alberto-dell: ~/Documentos/Projetos/AulaGit
alberto@alberto-dell: ~/Documentos/Projetos/AulaGit 80x24
alberto@alberto-dell:~/Documentos/Projetos/AulaGit$ git pull https://github.com/
betto /AulaGit.git
From https://github.com/bettoJogar/AulaGit
 * branch      HEAD      -> FETCH_HEAD
Already up to date.
alberto@alberto-dell:~/Documentos/Projetos/AulaGit$
```

## *Status*

git status

```
alberto@alberto-dell: ~/Documentos/Projetos/AulaGit
alberto@alberto-dell: ~/Documentos/Projetos/AulaGit 80x24
alberto@alberto-dell:~/Documentos/Projetos/AulaGit$ git status
No ramo main
Seu ramo está à frente de 'origin/main' por 1 submissão.
(use "git push" to publish your local commits)

Changes not staged for commit:
  (utilize "git add <arquivo>..." para atualizar o que será submetido)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   index.html

nenhuma modificação adicionada à submissão (utilize "git add" e/ou "git commit -a")
alberto@alberto-dell:~/Documentos/Projetos/AulaGit$
```

## *commit*

git commit index.html -m "alteração no Index"

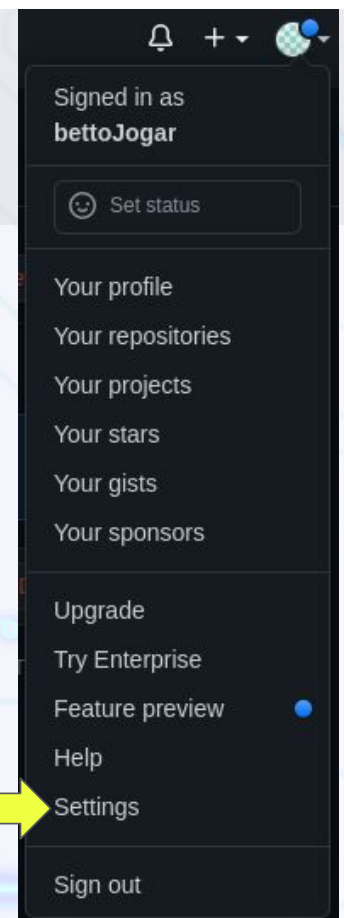
ou

git commit . -m "alteração no Index"

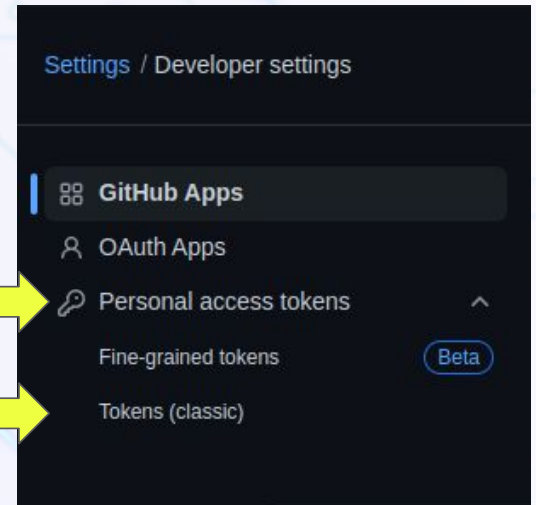
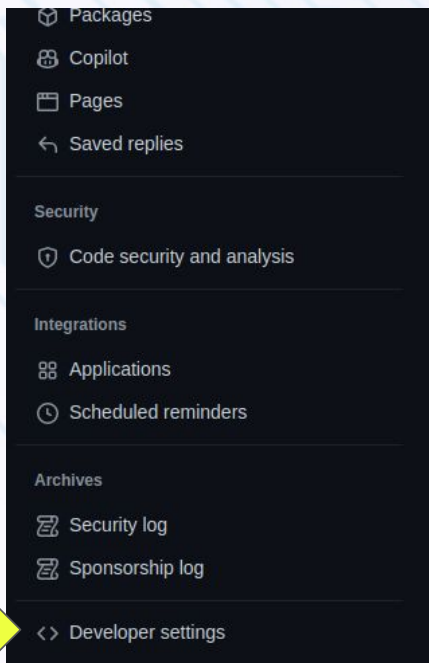
```
alberto@alberto-dell:~/Documentos/Projetos/AulaGit$ git commit index.html -m "alteração no Index"
[main d1a2642] alteração no Index
1 file changed, 1 insertion(+)
alberto@alberto-dell:~/Documentos/Projetos/AulaGit$
```

## *Criando Token*

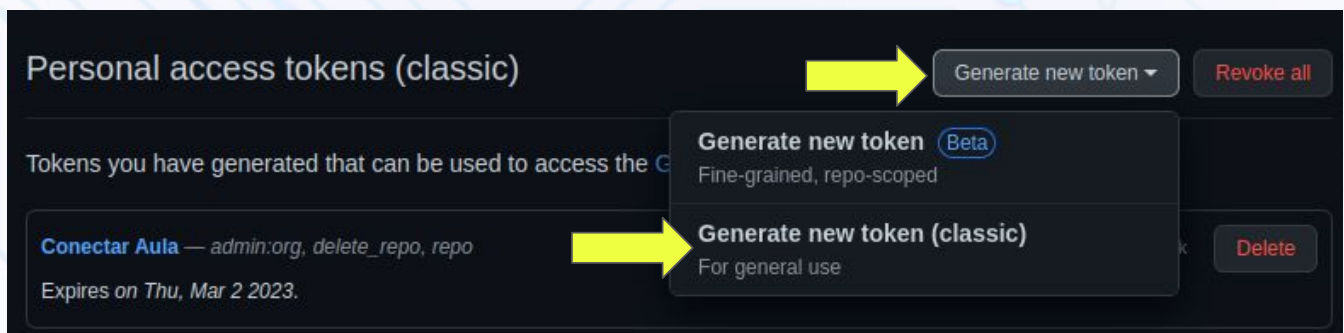
Entre no menu Settings.



# Criando Token



# Criando Token





# Criando Token

## New personal access token (classic)

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

### Note

What's this token for?

### Expiration \*

30 days



The token will expire on Sat, Mar 25 2023

### Select scopes

Scopes define the access for personal tokens. [Read more about OAuth scopes](#).

# Criando Token

Scopes define the access for personal tokens. [Read more about OAuth scopes](#).

<input checked="" type="checkbox"/>	repo	Full control of private repositories
<input checked="" type="checkbox"/>	repo:status	Access commit status
<input checked="" type="checkbox"/>	repo_deployment	Access deployment status
<input checked="" type="checkbox"/>	public_repo	Access public repositories
<input checked="" type="checkbox"/>	repo:invite	Access repository invitations
<input checked="" type="checkbox"/>	security_events	Read and write security events
<input type="checkbox"/>	workflow	Update GitHub Action workflows
<input type="checkbox"/>	write:packages	Upload packages to GitHub Package Registry
<input type="checkbox"/>	read:packages	Download packages from GitHub Package Registry
<input type="checkbox"/>	delete:packages	Delete packages from GitHub Package Registry
<input checked="" type="checkbox"/>	admin:org	Full control of orgs and teams, read and write org projects
<input checked="" type="checkbox"/>	write:org	Read and write org and team membership, read and write org projects
<input checked="" type="checkbox"/>	read:org	Read org and team membership, read org projects
<input checked="" type="checkbox"/>	manage_runners:org	Manage org runners and runner groups



## Criando Token

<input type="checkbox"/> <b>admin:public_key</b>	Full control of user public keys
<input type="checkbox"/> write:public_key	Write user public keys
<input type="checkbox"/> read:public_key	Read user public keys
<input type="checkbox"/> <b>admin:repo_hook</b>	Full control of repository hooks
<input type="checkbox"/> write:repo_hook	Write repository hooks
<input type="checkbox"/> read:repo_hook	Read repository hooks
<input type="checkbox"/> <b>admin:org_hook</b>	Full control of organization hooks
<input type="checkbox"/> <b>gist</b>	Create gists
<input type="checkbox"/> <b>notifications</b>	Access notifications
<input type="checkbox"/> <b>user</b>	Update ALL user data
<input type="checkbox"/> read:user	Read ALL user profile data
<input type="checkbox"/> user:email	Access user email addresses (read-only)
<input type="checkbox"/> user:follow	Follow and unfollow users
<input checked="" type="checkbox"/> <b>delete_repo</b>	Delete repositories
<input type="checkbox"/> <b>write:discussion</b>	Read and write team discussions
<input type="checkbox"/> read:discussion	Read team discussions

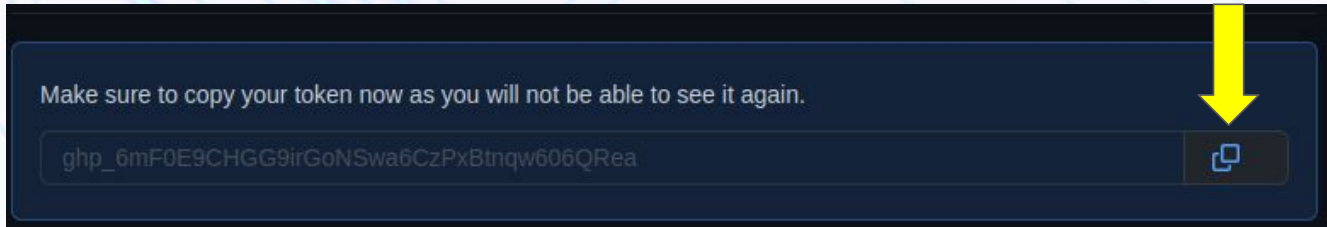
## Criando Token

<input type="checkbox"/> <b>codespace</b>	Full control of codespaces
<input type="checkbox"/> codespace:secrets	Ability to create, read, update, and delete codespace secrets
<input type="checkbox"/> <b>project</b>	Full control of projects
<input type="checkbox"/> read:project	Read access of projects
<input type="checkbox"/> <b>admin:gpg_key</b>	Full control of public user GPG keys
<input type="checkbox"/> write:gpg_key	Write public user GPG keys
<input type="checkbox"/> read:gpg_key	Read public user GPG keys
<input type="checkbox"/> <b>admin:ssh_signing_key</b>	Full control of public user SSH signing keys
<input type="checkbox"/> write:ssh_signing_key	Write public user SSH signing keys
<input type="checkbox"/> read:ssh_signing_key	Read public user SSH signing keys

Generate token

Cancel

## *Copiando o token*

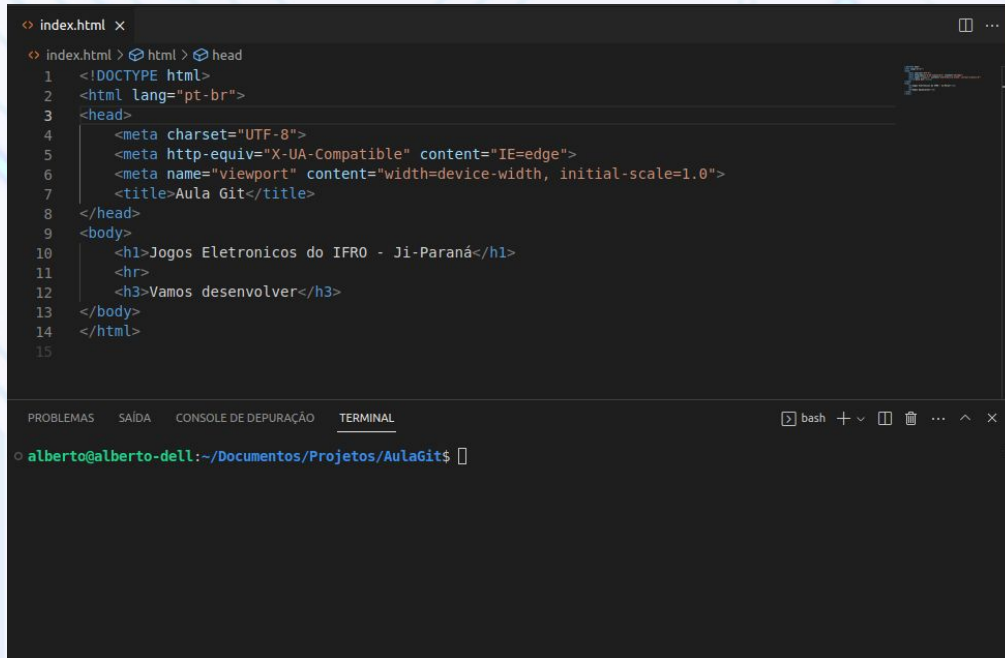


## *push*

git push -u origin main

```
alberto@alberto-dell:~/Documentos/Projetos/AulaGit$ git push -u origin main
Username for 'https://github.com': betto
Password for 'https://betto@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 339 bytes | 339.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/betto/AulaGit.git
fd3e022..ab8bff3 main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
alberto@alberto-dell:~/Documentos/Projetos/AulaGit$
```

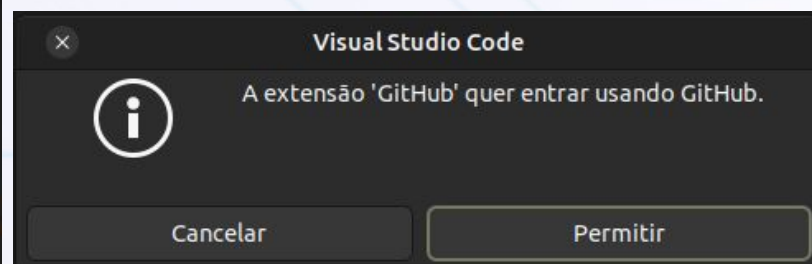
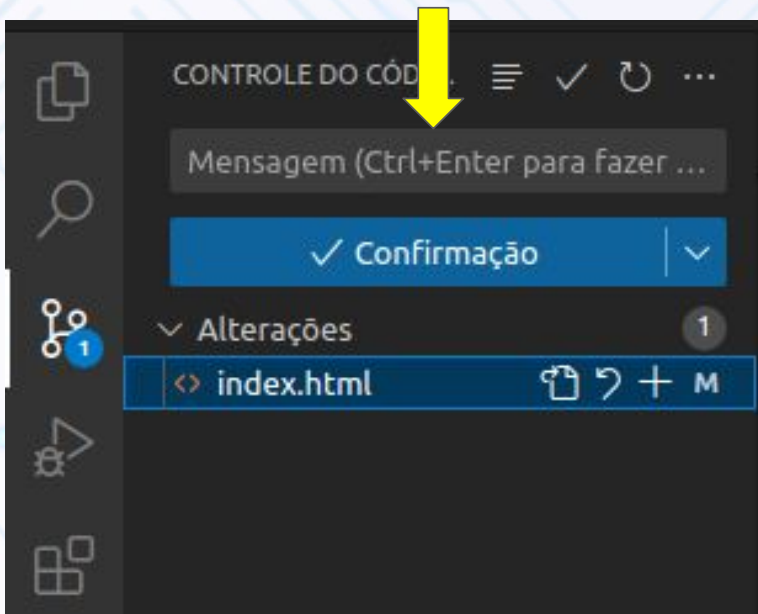
## Terminar dentro do VSCode



```
index.html x
index.html > html > head
1 <!DOCTYPE html>
2 <html lang="pt-br">
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>Aula Git</title>
8 </head>
9 <body>
10  <h1>Jogos Eletronicos do IFRO - Ji-Paraná</h1>
11  <hr>
12  <h3>Vamos desenvolver</h3>
13 </body>
14 </html>
15

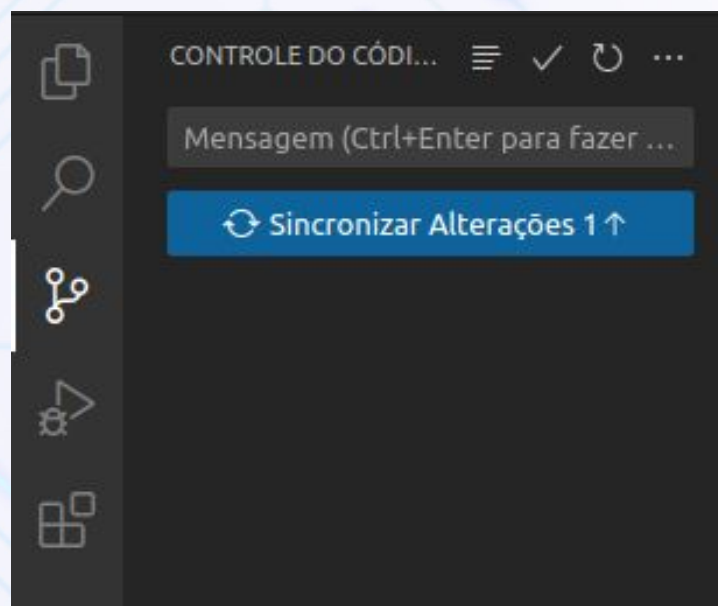
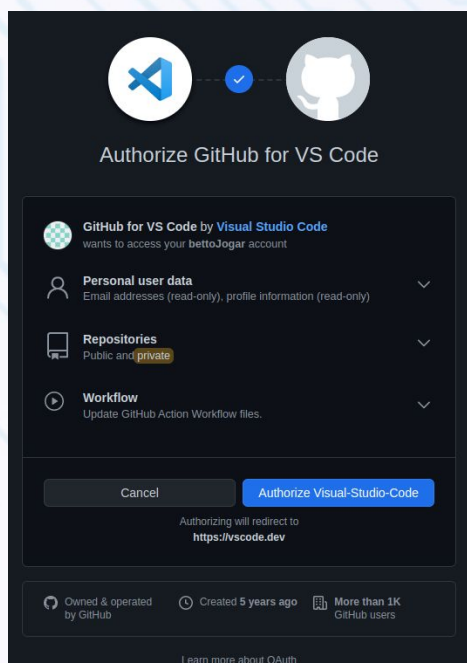
PROBLEMAS  SAÍDA  CONSOLE DE DEPUÇÃO  TERMINAL
bash + v [ ] ... ^ x
alberto@alberto-dell:~/Documentos/Projetos/AulaGit$
```

## No VSCode





## Autorizando



## Referências

LEDUR, Cleverson L.; SARAIVA, Maurício de O.; FREITAS, Pedro Henrique C. **Programação back end II**. São Paulo: Grupo A, 2019. E-book. ISBN 9788533500242. Disponível em: <https://integrada.minhabiblioteca.com.br/#/books/9788533500242/>. Acesso em: 17 fev. 2023.