



GIT & GITHUB NA PRÁTICA

Desenvolvimento para aplicações para a web II

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Criador do GIT

O git foi desenvolvido inicialmente por Linus Torvalds (criador do linux), pela necessidade de ter um software capaz de controlar a versão do Kernel do linux.



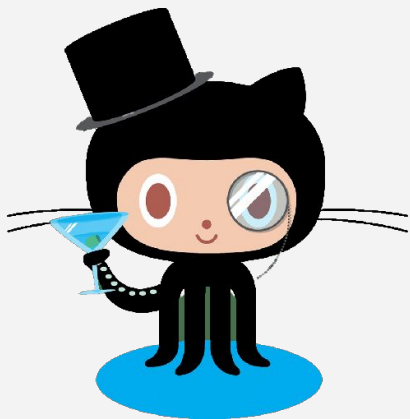
GIT

- Git é um sistema de controle de versões distribuído, usado principalmente no desenvolvimento de software, mas pode ser usado para registrar o histórico de edições de qualquer tipo de arquivo.



GitHub

- GitHub é uma plataforma de hospedagem de código-fonte e arquivos com controle de versão usando o Git.
- O GitHub permite que programadores, utilitários ou qualquer usuário cadastrado na plataforma contribuam em projetos e/ou Open Source de qualquer lugar do mundo.



Instalação do Git

```
$ sudo apt-get install git-all
```

Linux.

```
https://git-scm.com/downloads
```

Windows.



Gerar chave SSH

```
$ ssh-keygen -t ed25519 -C  
"your_email@example.com"
```

> Generating public/private algorithm key pair.

> Enter a file in which to save the key
(/home/you/.ssh/algorithm): [Press enter]

> Enter passphrase (empty for no passphrase):
[Type a passphrase]
> Enter same passphrase again: [Type
passphrase again]

Cria uma nova chave SSH.



Colocar a chave SSH no GitHub

```
$ cd ~/.ssh/
```



```
$ cat id_rsa.pub
```

Entrando na pasta do SSH.

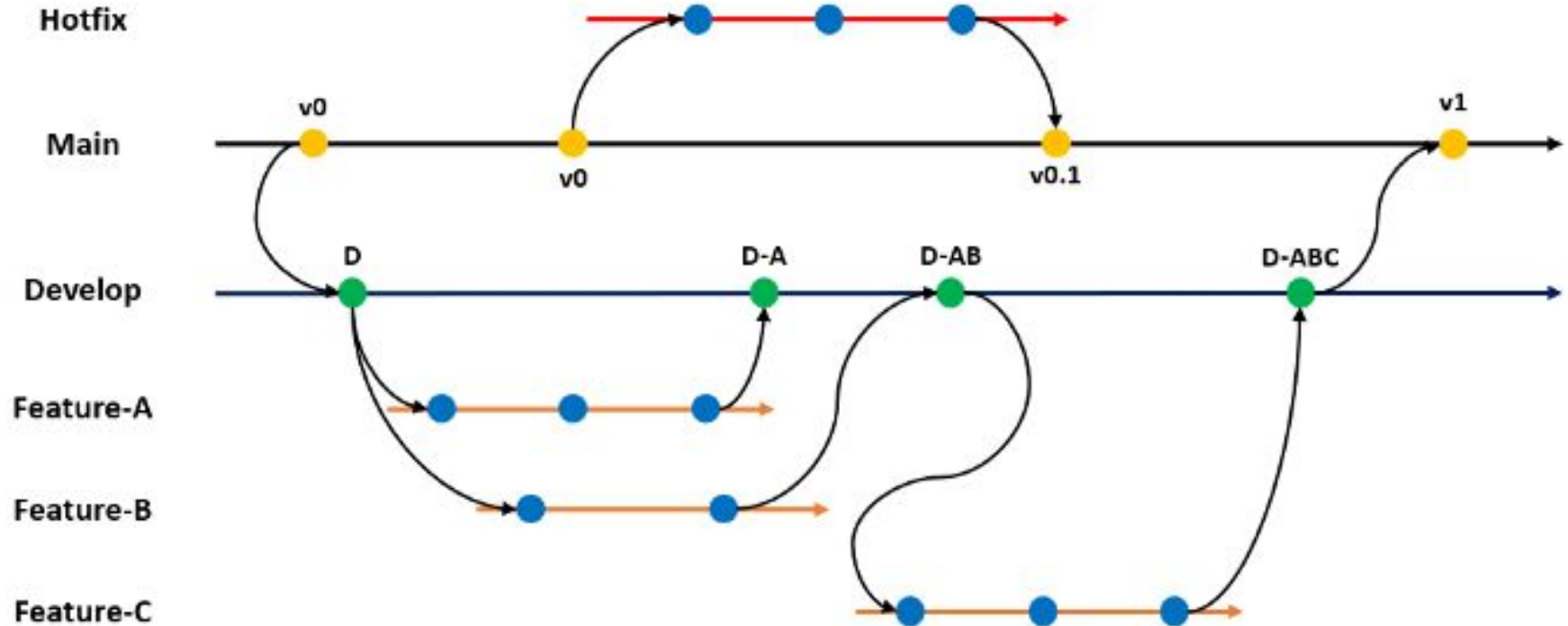
Mostra a chave no terminal.



No GitHub

Perfil > settings > (no menu) SSH and GPG Keys > New SSH Key > Coloque o título e a chave ssh.

Branch



Pull

```
$ git pull origin <Branch>
```

Busca e atualiza.



Iniciando o Projeto

```
$ mkdir projeto
```



```
$ cd projeto
```

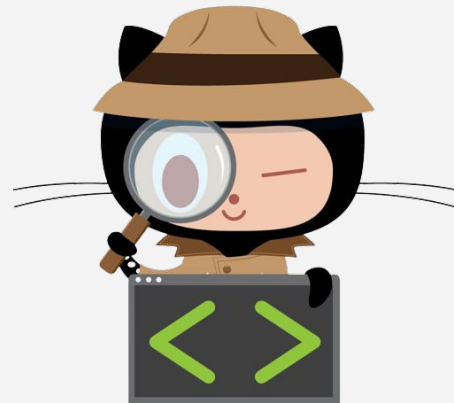


```
$ git init
```

Criando pasta do projeto.

Entrando na pasta do projeto.

Iniciando o git no projeto.



Configurando o usuário

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



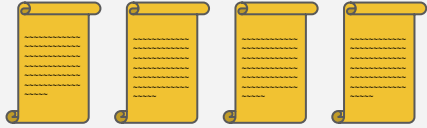
```
$ git config user.email "email@email.com"
```

Inserir o usuário.

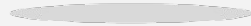
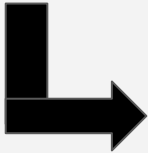


Inserir o email.

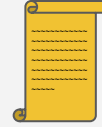
Adicionado arquivos



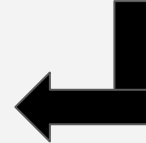
```
$ git add .
```



```
$ git status
```



```
$ git add arquivo
```



Branch

```
$ git branch main
```

Cria uma branch do seu projeto.

Checkout

```
$ git checkout main
```

Entra na branch principal.



Commit

```
$ git commit -m "commit inicial"
```

Checkpoint do seu projeto.

Push

```
$ git push origin main
```

Envia o branch principal.



Push



Você acaba de subir o seu projeto para o GitHub.

Recapitulando

```
$ mkdir projeto
```

```
$ cd projeto
```

```
$ git init
```

Iniciando o projeto.

Config. o usuário.

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

```
$ git config user.email  
"email@email.com"
```



Adicionando Arquivos.



```
$ git add .
```

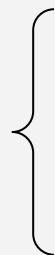
```
$ git status
```


Recapitulando



Push.

Commit.



Checkpoint.



Iniciando o Projeto de forma simplificada

```
$ git clone <LinkRepositório>
```

Git clone criará um novo diretório local para o repositório, copiará todo o conteúdo do repositório especificado.

```
$ git add .
```

Adicionando arquivos.

```
$ git status
```

Status do projeto.



Iniciando o Projeto de forma simplificada

```
$ git commit -m "commit inicial"
```

Checkpoint do seu projeto.



```
$ git push origin main
```

Envia o branch principal.



Reverter um commit

```
$ git revert <hash do commit>
```

Checkpoint do seu projeto.



```
$ git revert HEAD
```

Reverter especificamente o último commit.



Reverter um commit

```
$ git log --oneline
```

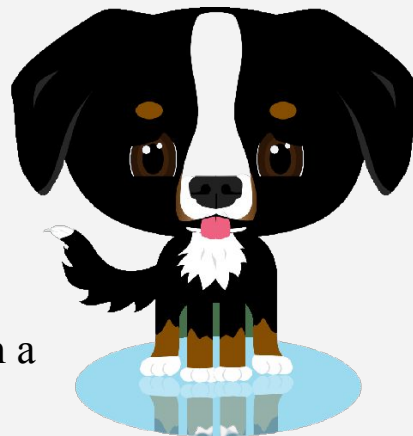
Exibir os commit com a hash resumida.

```
$ git revert HEAD
```

Reverter especificamente o último commit.

```
$ git revert b1a3d01
```

Reverter o commit.



Exemplo de Pull Request



```
$ git branch development
```



```
$ git checkout development
```



```
$ git add .
```

```
$ git status
```



```
$ git commit -m "commit inicial"
```



```
$ git push origin development
```

Exemplo de Pull Request



<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

pdf had recent pushes 1 minute ago [Compare & pull request](#)

main 2 branches 0 tags [Go to file](#) [Add file](#) [Code](#)

FNetoF Initial commit c30ffce 2 minutes ago 1 commit

README.md Initial commit 2 minutes ago

README.md

test

About

No description, website, or topics provided.

Readme

0 stars

1 watching

0 forks

Releases

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

Backages

Exemplo de Pull Request




<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

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

pdf

Write Preview 

Leave a comment

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

Create pull request

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

Reviewers
No reviews

Assignees
No one—assign yourself

Labels
None yet

Projects
None yet

Milestone
No milestone


Development

Exemplo de Pull Request


pdf #1 Edit <> Code

Open FNetoF wants to merge 1 commit into `main` from `pdf`


Conversation 0 Commits 1 Checks 0 Files changed 1 +0 -0

 **FNetoF** commented 24 seconds ago Owner ...



No description provided.

 pdf e4e9346

Add more commits by pushing to the `pdf` branch on **FNetoF/test**.

 **This branch has no conflicts with the base branch**
Merging can be performed automatically.

Merge pull request or view command line instructions.

 Write Preview 

Leave a comment

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

Close pull request Comment

Reviewers ...
No reviews
Still in progress? Convert to draft

Assignees ...
No one—assign yourself

Labels ...
None yet

Projects ...
None yet

Milestone ...
No milestone

Development ...
Successfully merging this pull request may close these issues.
None yet

Notifications Customize
Unsubscribe



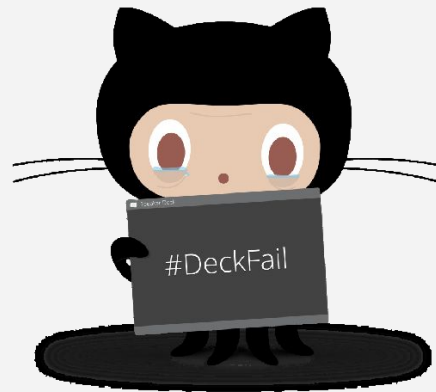
Estilizando o terminal para produtividade



ZSH

```
$ sudo apt install zsh
```

Download zsh.



```
$ sh -c "$(wget -O-  
https://raw.githubusercontent.com/ohmyzsh/ohmyzsh/master/tools/install.sh)"
```

Download Oh My ZSH.

```
$ gedit .zshrc
```

Editar o arquivo.



```
ZSH_THEME="robbyrussell"
```

```
ZSH_THEME
```

Temas do ZSH.

Colocar o tema nessa
variável de ambiente.

ZInit

```
bash -c "$(curl --fail --show-error --silent --location  
https://raw.githubusercontent.com/zdharma-continuum/  
zinit/HEAD/scripts/install.sh)"
```

```
zinit light  
zdharma/fast-syntax-highlighting
```

Plugin que deixa em
evidência no terminal.

```
zinit light  
zsh-users/zsh-autosuggestions
```

Plugin de sugestões.

```
zinit light zsh-users/zsh-completions
```

autocomplete (npm, yarn).

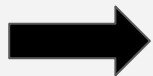
Download ZInit.



ZInit configurações

```
$ gedit .zshrc
```

Editar o arquivo.



```
GNU nano 2.9.3 .zshrc

source "$HOME/.zinit/bin/zinit.zsh"
autoload -Uz _zinit
(( ${+_comps} )) && _comps[zinit]=_zinit

# Load a few important annexes, without Turbo
# (this is currently required for annexes)
zinit light-mode for \
    zinit-zsh/z-a-rust \
    zinit-zsh/z-a-as-monitor \
    zinit-zsh/z-a-patch-dl \
    zinit-zsh/z-a-bin-gem-node

### End of Zinit's installer chunk
zinit light zdharma/fast-syntax-highlighting
zinit light zsh-users/zsh-autosuggestions
zinit light zsh-users/zsh-completions
```

Bibliografia

- <https://git-scm.com/book/pt-br/v2/Come%C3%A7ando-Instalando-o-Git>
- <https://docs.github.com/pt/authentication/connecting-to-github-with-ssh/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent>
- <https://github.com/ohmyzsh/ohmyzsh>
- <https://github.com/ohmyzsh/ohmyzsh/wiki/Themes>
- <https://git-scm.com/book/pt-br/v2/Branches-no-Git-O-b%C3%A1sico-de-Ramifica%C3%A7%C3%A3o-Bran-ch-e-Mesclagem-Merge>
- <https://github.com/zdharma-continuum/zinit#updating-zinit-and-plugins>
- [youtube.com/watch?v=gn7PHkYLDZU](https://www.youtube.com/watch?v=gn7PHkYLDZU)
- <https://octodex.github.com/>