

# Curso: Introdução ao Git e ao GitHub

Instrutor: Otávio Reis Perkles

Plataforma: DIO.me

## GIT

Primeira vez no Git precisa configurar o usuário

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

```
otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ git config --global user.email "otaviocha@gmail.com"

otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ git config --global user.nickname Perkles

otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$
```

- `git init`

Para iniciar o repositório do Git

```
otavio@perkles-desktop MINGW64 /c/workspace
$ cd livro-receitas/

otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas
$ git init
Initialized empty Git repository in c:/workspace/livro-receitas/.git/

otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ |
```

- `git add *`

Para mover arquivos e começar o versionamento de código.

```
Otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ git add *

Otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$
```

outro exemplo

```
Otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ git add strogonoff.md receitas/
```

- git commit -m "mensagem do commit"

Para fazer um commit

```
Otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ git add *

Otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ git commit -m "commit inicial"
[master (root-commit) 94958ac] commit inicial
1 file changed, 21 insertions(+)
create mode 100644 strogonoff.md

Otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ |
```

- git status

Para ver o que precisa ser add e commitado

```
Otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ ls
strogonoff.md

Otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ git status
on branch master
nothing to commit, working tree clean

Otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ |
```

outro exemplo

```
otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ ls
receitas/

otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
<
    deleted:    strogonoff.md

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    receitas/

no changes added to commit (use "git add" and/or "git commit -a")

otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ |
```

- git config --list

Listar todas as configurações do seu git.

```
otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ git config --list
```

```
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=true
credential.helper=manager
pull.rebase=false
user.email=otaviocha@gmail.com
user.nickname=Perkles
core.repositoryformatversion=0
core.filemode=false
:
```

# GITHUB

## Criando Repositório no Github

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 \*

Partles / livro-receitas ✓

Great repository names are short and memorable. Need inspiration? How about super-guacamole?

Description (optional)

Meu livro de receitas

☒ **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.

Skip this step if you're importing an existing repository.

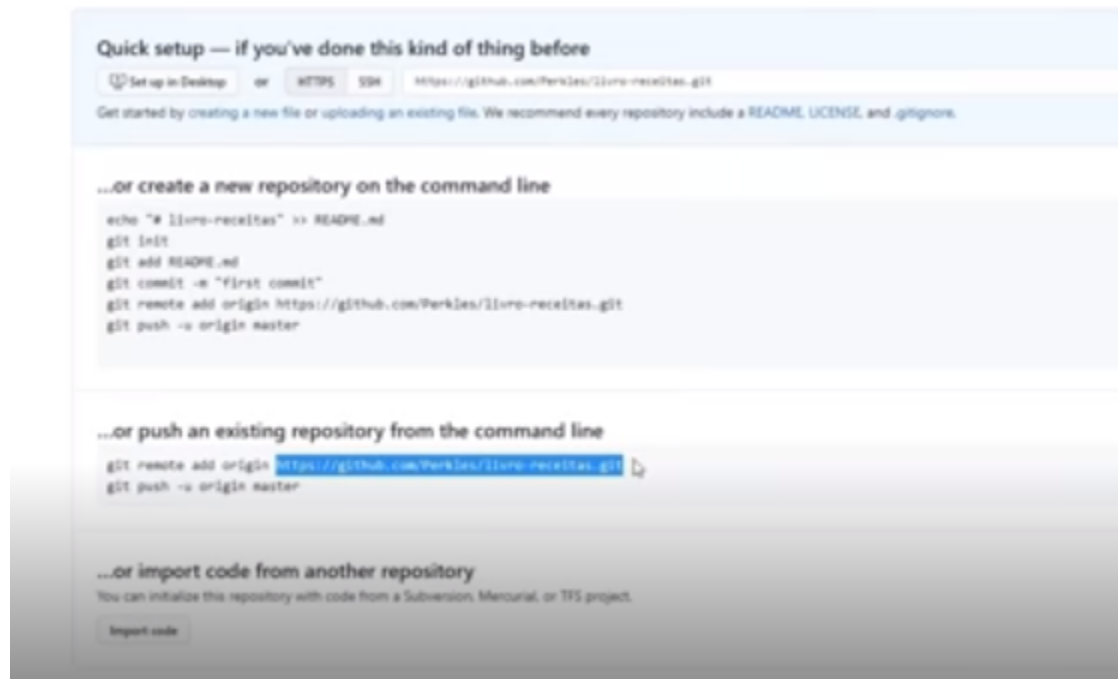
☐ **Initialize this repository with a README**  
This will let you immediately clone the repository to your computer.

Add .gitignore **None** Add a license **None**

**Create repository**

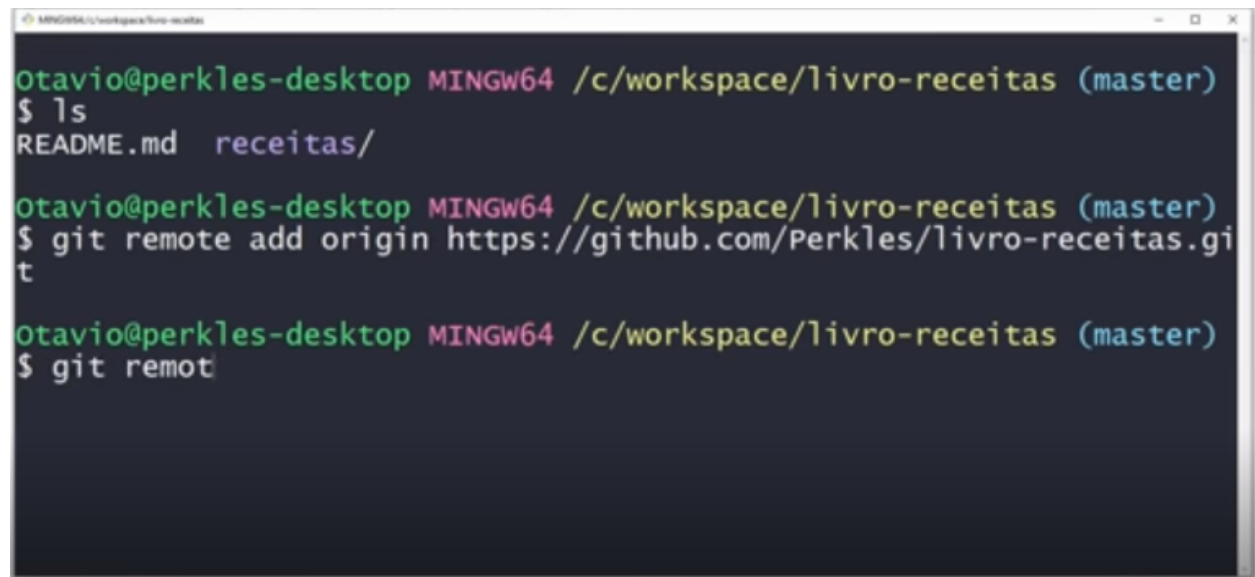
©2020 GitHub, Inc. [Terms](#) [Privacy](#) [Security](#) [Status](#) [Help](#) [Contact GitHub](#) [Pricing](#) [API](#) [Training](#) [Blog](#)

# Endereço do Repositório GitHub



- git remote add origin endereço do github

Para enviar do Git para Github



- git remote -v

Lista os repositórios que eu tenho cadastrado.

```
Otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ ls
README.md  receitas/

Otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ git remote add origin https://github.com/Perkles/livro-receitas.git

Otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ git remote -v
origin https://github.com/Perkles/livro-receitas.git (fetch)
origin https://github.com/Perkles/livro-receitas.git (push)

Otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$
```

- git push origin master

Para enviar pro GitHub

```
Otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ git status
On branch master
nothing to commit, working tree clean

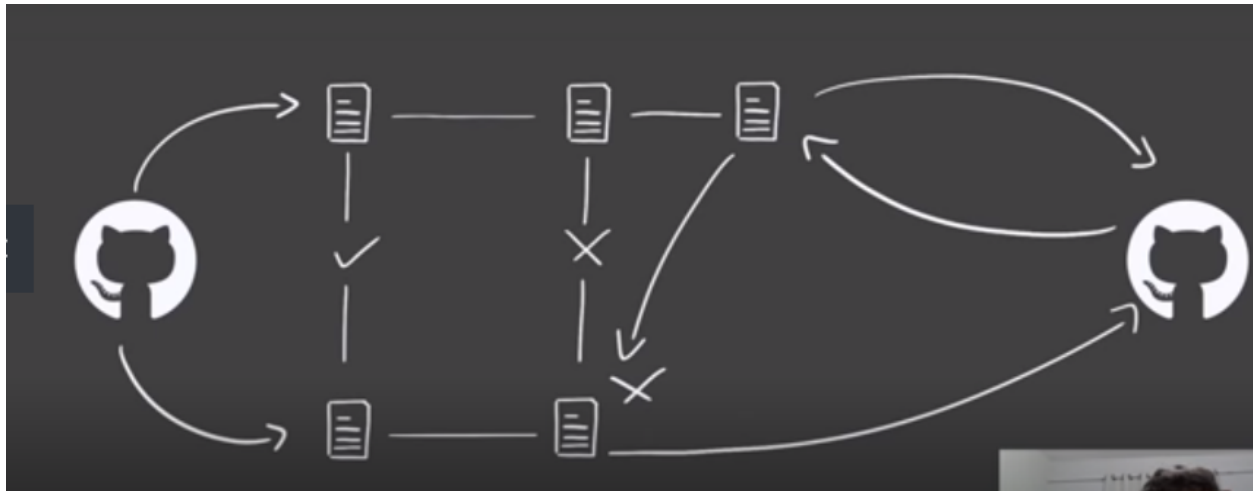
Otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ git push origin master
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (8/8), 1.16 KiB | 595.00 KiB/s, done.
Total 8 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Perkles/livro-receitas.git
 * [new branch]      master -> master

Otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$
```



# Resolvendo Conflitos

Conflito de Merge, quando o GitHub tenta juntar duas alterações e o arquivo tem alterações na mesma linha.



- git push rejeitado

Porque existe alguma alteração no GitHub que não tem no repositório local.

```
otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$ git push origin master
To https://github.com/Perkles/livro-receitas.git
 ! [rejected]        master -> master (fetch first)
error: failed to push some refs to 'https://github.com/Perkles/livro-receitas.git'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (master)
$
```



- git pull origin master

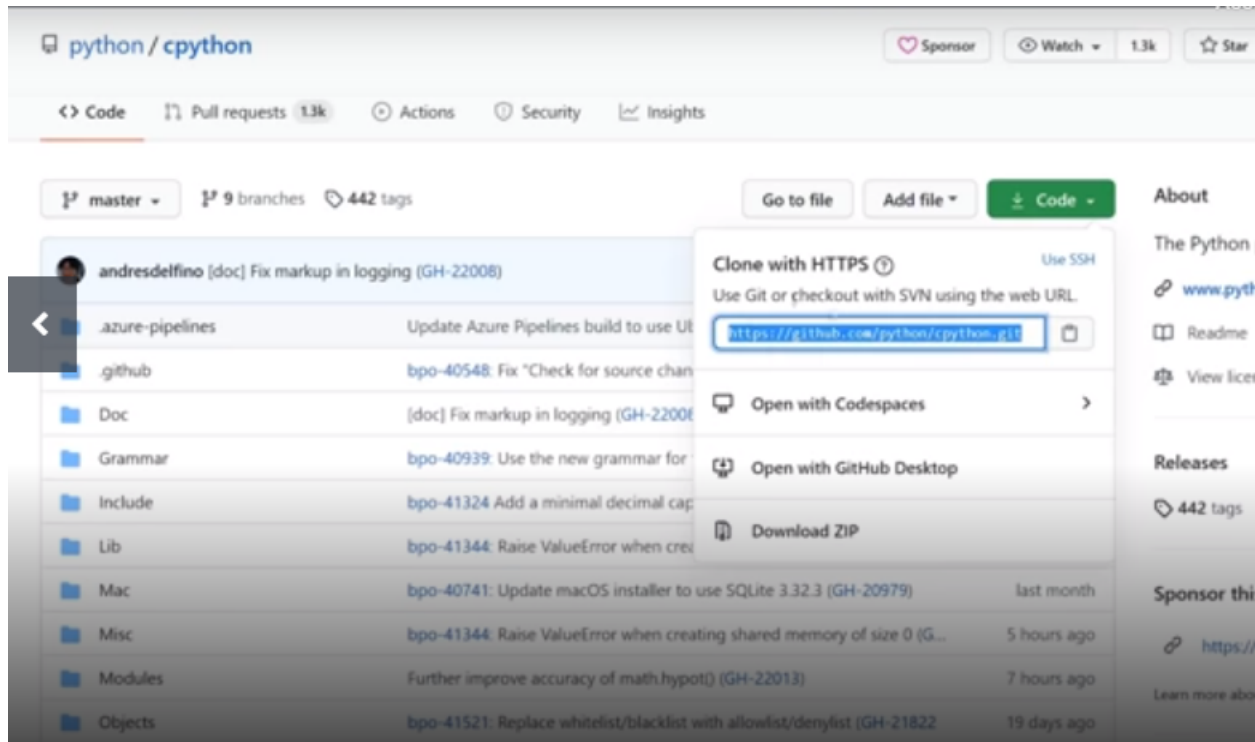
Vai puxar a versão do GitHub para a máquina local e o git vai tentar integrá-los.

```
otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (mas
$ git pull origin master
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 701 bytes | 50.00 KiB/s, done.
From https://github.com/Perkles/livro-receitas
* branch                master      -> FETCH_HEAD
   54c6046..e1dee1e      master      -> origin/master
Auto-merging README.md
CONFLICT (content): Merge conflict in README.md
Automatic merge failed; fix conflicts and then commit the resu
otavio@perkles-desktop MINGW64 /c/workspace/livro-receitas (mas
$
```

# Como baixar um repositório do GitHub para o seu Git local

Clique em -> Code.

Copie o endereço -> Clone with HTTPS



De volta ao Git bash ir para o diretório base -> workspace

- git clone URL

```
otavio@perkles-desktop MINGW64 /c/workspace
$ ls
livro-receitas/

otavio@perkles-desktop MINGW64 /c/workspace
$ git clone https://github.com/python/cpython.git
Cloning into 'cpython'...
remote: Enumerating objects: 808955, done.
remote: Total 808955 (delta 0), reused 0 (delta 0), pack-reused 808955
Receiving objects: 100% (808955/808955), 331.29 MiB | 1.32 MiB/s, done.
Resolving deltas: 100% (643596/643596), done.
Updating files: 100% (4615/4615), done.

otavio@perkles-desktop MINGW64 /c/workspace
$
```

Quando utiliza o comando ( git remote -v ) mostra para qual diretório o clone está apontado. Como o exemplo abaixo:

```
otavio@perkles-desktop MINGW64 /c/workspace/cpython (master)
$ ls -a
./          aclocal.m4      Include/        Modules/        Python/
../         CODE_OF_CONDUCT.md install-sh*     netlify.toml   README.rst
.azure-pipelines/ config.guess*    Lib/           objects/       setup.py
.git/       config.sub*      LICENSE        Parser/        Tools/
.gitattributes configure*        m4/           PC/
.github/    configure.ac     Mac/          PCbuild/
.gitignore  Doc/            Makefile.pre.in Programs/
travis.yml  Grammar/        Misc/         pyconfig.h.in

otavio@perkles-desktop MINGW64 /c/workspace/cpython (master)
$ git remote -v
origin  https://github.com/python/cpython.git (fetch)
origin  https://github.com/python/cpython.git (push)

otavio@perkles-desktop MINGW64 /c/workspace/cpython (master)
$
```

Gratidão por acompanhar este manual!

Criado por: Khalyandra Peniche da Veiga

[Khalyandra@gmail.com](mailto:Khalyandra@gmail.com)

<https://github.com/khalyveiga>

[www.linkedin.com/in/KhalyVeiga](https://www.linkedin.com/in/KhalyVeiga)