Uma introdução ao git

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CCSL-IME/USP

git é o cara!

- **Desempenho excelente**
  - Piora com número *muito* grande de arquivos (perto de 1M)
- **Todas as funcionalidades imagináveis existem**
  - Mas subdiretórios não podem ser baixados/sincronizados separadamente
- **Hoje em dia, multiplataforma**
- **Permite integrar fluxo de desenvolvimento e de implantação / operação**
  - Alguns pacotes sugerem esse processo
  - Alguns ambientes usam esse mecanismo (heroku, openshift...)
- **Viabiliza diversos fluxos de trabalho**
- **Projetos livres migraram em massa**
  - "Grife" Linus Torvalds
  - github/gitlab são excelentes e favorecem a colaboração
    - *Funcionam como redes sociais e foram fundamentais na popularização*
- **Até a Microsoft está usando, além de ter comprado o github**

git não é amigável

O básico é fácil, mas mesmo usos comuns não são óbvios, porque

- **Os nomes dos comandos e suas opções são inconsistentes**
  - O contrário de `git add arquivo` é `git reset arquivo` 🤔
    - *mas `git reset` sem um nome de arquivo faz outra coisa* 😒
  - `git checkout` faz várias coisas diferentes 😠
  - `head` é uma coisa, `HEAD` é outra 🤯
  - `repo-remoto/nome-do-ramo` é uma coisa, `repo-remoto nome-do-ramo` é outra 😱
  - etc.
- **A documentação é boa e completa, mas é preciso saber *onde* procurar**
  - Em geral, a melhor resposta para "como fazer X" é "procure no google"!
- **Para coisas simples, mas não-triviais, é preciso entender como git funciona**

Parte I

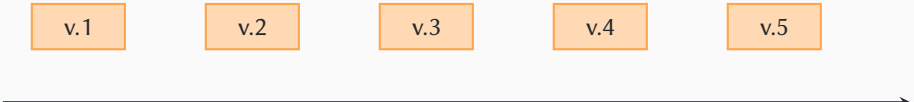
O bê-a-bá do git

Comunicação

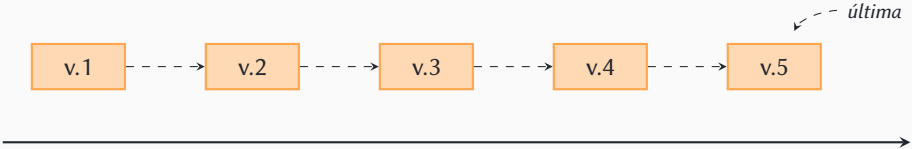
- **git permite colaborar via rede de várias maneiras**
- **A mais comum é utilizar plataformas como *github* ou *gitlab***
  - Ambas são bastante similares
  - Funcionam como redes sociais
  - Oferecem vários serviços agregados (gestão de *bugs*, wikis etc.)
  - github é mais popular
    - *Pertence à Microsoft*
    - *Não é software livre*
  - gitlab tem uma versão livre
    - *usada, por exemplo, pelo GNOME*

Básico: álbum de fotos

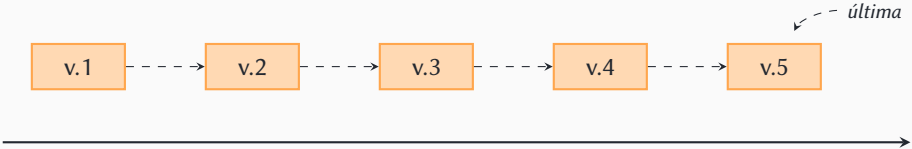
- **git armazena o histórico de versões de um projeto**



- **git armazena o histórico de versões de um projeto**
- **Isso inclui a ordem das versões no tempo e quem é a "última"**

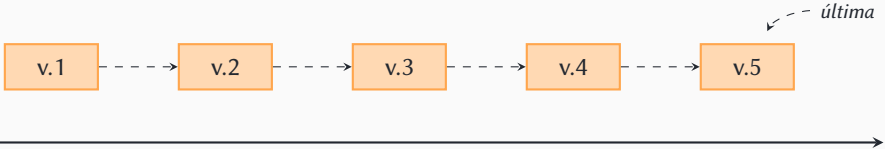


- **De onde vêm as versões?**



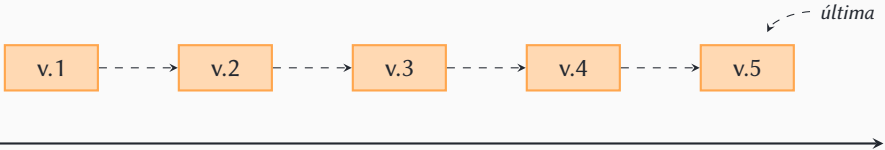
- **De onde vêm as versões?**
  - São “fotografias” do diretório de trabalho

Diretório de trabalho (*workdir*)

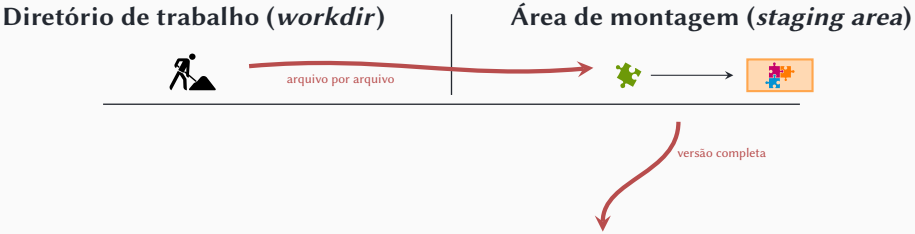


- **De onde vêm as versões?**
  - São “fotografias” do diretório de trabalho
  - O usuário seleciona “quem aparece” na foto

Diretório de trabalho (*workdir*) | **Área de montagem (*staging area*)**



- **De onde vêm as versões?**
  - São “fotografias” do diretório de trabalho
  - O usuário seleciona “quem aparece” na foto



Criando um repositório

Duas maneiras:

- `git init .`
  - Cria um repositório no diretório atual
    - » *Talvez fosse melhor dizer que ele **transforma** o diretório atual em um repositório*
  - Cria o diretório `.git` (o repositório de fato com as versões e a área de montagem)
  - O diretório atual passa a ser a área de trabalho
- `git clone <URL> .`
  - Executa `git init .`
  - Registra `URL` como um repositório remoto chamado *origin*
  - Copia o repositório *origin* para o repositório local

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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** *

urrameu /

Great repository names are short and memorable. Need inspiration? How about **fantastic-octo-journey**?

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.

Add a README file

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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** *

urrameu / lerolero

lerolero is available.

Great repository names prable. Need inspiration? How about **fantastic-octo-journey**?

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Add a README file

Great repository names lerolero is available. orable. Need inspiration? How about **fantastic-octo-journey**?

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.

- [ ] **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.

Create repository

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This will set `main` as the default branch. Change the default name in your settings.

Create repository

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Description (optional)

- (•) **Public**
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- [ ] **Add .gitignore**
  Choose which files not to track from a list of templates. Learn more.
- [x] **Choose a license**
  A license tells others what they can and can't do with your code. Learn more.

License: GNU General Public ...

This will set `main` as the default branch. Change the default name in your settings.

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Create repository

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main 1 branch 0 tags Go to file Add file Code

urrameu Initial commit bc7de60 in 35 seconds 1 commits

LICENSE	Initial commit	now
README.md	Initial commit	now

README.md

lerolero

About

No description, website, or topics provided.

Readme

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

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urrameu / **lerolero**

Unwatch 1 Star 0 Fork 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags Go to file Add file Code

urrameu Initial commit

LICENSE	Initial commit
README.md	Initial commit

Clone

HTTPS SSH GitHub CLI

`git@github.com:urrameu/lerolero.git`

Use a password-protected SSH key.

Download ZIP

README.md

lerolero

About

No description, website, or topics provided.

Readme

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
ada@drivethru:~$ git clone git@github.com:urrameu/lerolero.git
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
ada@drivethru:~$ git clone git@github.com:urrameu/lerolero.git
Cloning into 'lerolero'...
Enter passphrase for key '/home/ada/.ssh/id_rsa':
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (4/4), 12.46 KiB | 1.38 MiB/s, done.
ada@drivethru:~$
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
ada@drivethru:~$ git clone git@github.com:urrameu/lerolero.git
Cloning into 'lerolero'...
Enter passphrase for key '/home/ada/.ssh/id_rsa':
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (4/4), 12.46 KiB | 1.38 MiB/s, done.
ada@drivethru:~$ cd lerolero
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
ada@drivethru:~$ git clone git@github.com:urrameu/lerolero.git
Cloning into 'lerolero'...
Enter passphrase for key '/home/ada/.ssh/id_rsa':
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (4/4), 12.46 KiB | 1.38 MiB/s, done.
ada@drivethru:~$ cd lerolero
ada@drivethru:~/lerolero$ ls -l
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
ada@drivethru:~$ git clone git@github.com:urrameu/lerolero.git
Cloning into 'lerolero'...
Enter passphrase for key '/home/ada/.ssh/id_rsa':
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (4/4), 12.46 KiB | 1.38 MiB/s, done.
ada@drivethru:~$ cd lerolero
ada@drivethru:~/lerolero$ ls -l
total 40
-rw-r--r-- 1 ada ada 35149 nov 16 14:47 LICENSE
-rw-r--r-- 1 ada ada    10 nov 16 14:47 README.md
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ ls -la
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ ls -la
total 52
drwxr-xr-x 3 ada ada  4096 nov 16 16:21 .
drwxr-xr-x 4 ada ada  4096 nov 16 16:04 ..
drwxr-xr-x 8 ada ada  4096 nov 16 16:21 .git
-rw-r--r-- 1 ada ada 35149 nov 16 14:47 LICENSE
-rw-r--r-- 1 ada ada    10 nov 16 16:21 README.md
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~

```
alan@drivethru:~$ git clone git@github.com:urrameu/lerolero.git
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~

```
alan@drivethru:~$ git clone git@github.com:urrameu/lerolero.git
Cloning into 'lerolero'...
Warning: Permanently added the RSA host key for IP address '140.82.114.4' to th
e list of known hosts.
Enter passphrase for key '/home/alan/.ssh/id_rsa':
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 7 (delta 0), reused 3 (delta 0), pack-reused 0
Receiving objects: 100% (7/7), 12.78 KiB | 4.26 MiB/s, done.
alan@drivethru:~$
```

Comandos cotidianos

- **`git add arquivo`**
  - Copia **`arquivo`** da área de trabalho para a área de montagem
    - » *Não é preciso fazer* **`git add`** *com arquivos que não mudaram, só o que efetivamente mudou!*
- **`git commit`**
  - Copia **o conteúdo completo** da área de montagem para uma nova versão no repositório
  - Atualiza a indicação de quem é a "última" versão
- **`git push`**
  - Atualiza o repositório remoto (*origin*)
- **`git pull`**
  - Atualiza o repositório local (a partir de *origin*)
- **`git log` e `git status`**
- **Lição de casa**
  - Aprenda a usar **`.gitignore`**

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
ada@drivethru:~/lerolero$ vi README.md
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
# lerolero
~
~
~
~
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~
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~
~
~
~
~
~
"README.md" [sem fim de linha] 1L, 10C                    1,10          Tudo
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
# lerolero

Um gerador de frases de efeito sem sentido.
~
~
~
~
~
~
~
~
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~
~
~
~
~
~
~
~
                                                    3,4           Tudo
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
# lerolero

Um gerador de frases de efeito sem sentido.
~
~
~
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~
~
~
~
~
~
~
~
~
~
~
:wq
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
ada@drivethru:~/lerolero$ vi README.md
ada@drivethru:~/lerolero$ git status
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
ada@drivethru:~/lerolero$ vi README.md
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
ada@drivethru:~/lerolero$ vi README.md
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
ada@drivethru:~/lerolero$ git add README.md
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
ada@drivethru:~/lerolero$ vi README.md
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
ada@drivethru:~/lerolero$ git add README.md
ada@drivethru:~/lerolero$ git status
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
ada@drivethru:~/lerolero$ git add README.md
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   README.md

ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
ada@drivethru:~/lerolero$ git add README.md
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   README.md

ada@drivethru:~/lerolero$ git commit
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch main
# Your branch is up to date with 'origin/main'.
#
# Changes to be committed:
#       modified:   README.md
#
~
~
~
~
~
~
~
~
~
~
~
"~/lerolero/.git/COMMIT_EDITMSG" 10L, 258C                    1,0-1         Tudo
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
Acrescenta descrição do projeto ao README
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch main
# Your branch is up to date with 'origin/main'.
#
# Changes to be committed:
#       modified:   README.md
#
~
~
~
~
~
~
~
~
~
~
~
                                                    1,43-41       Tudo
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
Acrescenta descrição do projeto ao README
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch main
# Your branch is up to date with 'origin/main'.
#
# Changes to be committed:
#       modified:   README.md
#
~
~
~
~
~
~
~
~
~
~
~
:wq
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
 1 file changed, 3 insertions(+), 1 deletion(-)
ada@drivethru:~/lerolero$ git config --global --edit
ada@drivethru:~/lerolero$ git commit --amend --reset-author^C
ada@drivethru:~/lerolero$ git reset HEAD^
Unstaged changes after reset:
M       README.md
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
ada@drivethru:~/lerolero$ git add README.md
ada@drivethru:~/lerolero$ git commit
[main b959436] Acrescenta descrição do projeto ao README
 1 file changed, 3 insertions(+), 1 deletion(-)
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
 1 file changed, 3 insertions(+), 1 deletion(-)
ada@drivethru:~/lerolero$ git config --global --edit
ada@drivethru:~/lerolero$ git commit --amend --reset-author^C
ada@drivethru:~/lerolero$ git reset HEAD^
Unstaged changes after reset:
M       README.md
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
ada@drivethru:~/lerolero$ git add README.md
ada@drivethru:~/lerolero$ git commit
[main b959436] Acrescenta descrição do projeto ao README
 1 file changed, 3 insertions(+), 1 deletion(-)
ada@drivethru:~/lerolero$ git log
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
ada@drivethru:~/lerolero$ git add README.md
ada@drivethru:~/lerolero$ git commit
[main b959436] Acrescenta descrição do projeto ao README
 1 file changed, 3 insertions(+), 1 deletion(-)
ada@drivethru:~/lerolero$ git log
commit b959436b99e4e14772cd561b2491321cb1e78402 (HEAD -> main)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0 (origin/main, origin/HEAD)
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
ada@drivethru:~/lerolero$ git add README.md
ada@drivethru:~/lerolero$ git commit
[main b959436] Acrescenta descrição do projeto ao README
 1 file changed, 3 insertions(+), 1 deletion(-)
ada@drivethru:~/lerolero$ git log
commit b959436b99e4e14772cd561b2491321cb1e78402 (HEAD -> main)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0 (origin/main, origin/HEAD)
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
ada@drivethru:~/lerolero$ git status
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
ada@drivethru:~/lerolero$ git commit
[main b959436] Acrescenta descrição do projeto ao README
 1 file changed, 3 insertions(+), 1 deletion(-)
ada@drivethru:~/lerolero$ git log
commit b959436b99e4e14772cd561b2491321cb1e78402 (HEAD -> main)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0 (origin/main, origin/HEAD)
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
ada@drivethru:~/lerolero$ git commit
[main b959436] Acrescenta descrição do projeto ao README
 1 file changed, 3 insertions(+), 1 deletion(-)
ada@drivethru:~/lerolero$ git log
commit b959436b99e4e14772cd561b2491321cb1e78402 (HEAD -> main)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0 (origin/main, origin/HEAD)
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git push
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git push
Warning: Permanently added the RSA host key for IP address '140.82.112.4' to th
e list of known hosts.
Enter passphrase for key '/home/ada/.ssh/id_rsa':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 363 bytes | 363.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To github.com:urrameu/lerolero.git
   bc7de60..b959436  main -> main
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git push
Warning: Permanently added the RSA host key for IP address '140.82.112.4' to th
e list of known hosts.
Enter passphrase for key '/home/ada/.ssh/id_rsa':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 363 bytes | 363.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To github.com:urrameu/lerolero.git
   bc7de60..b959436  main -> main
ada@drivethru:~/lerolero$ git status
```

Arquivo Editar Ver Pesquisar Terminal Ajuda

```
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git push
Warning: Permanently added the RSA host key for IP address '140.82.112.4' to th
e list of known hosts.
Enter passphrase for key '/home/ada/.ssh/id_rsa':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 363 bytes | 363.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To github.com:urrameu/lerolero.git
   bc7de60..b959436  main -> main
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero

alan@drivethru: ~

```
alan@drivethru:~$ cd lerolero/
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~$ cd lerolero/
alan@drivethru:~/lerolero$ ls -l
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~$ cd lerolero/
alan@drivethru:~/lerolero$ ls -l
total 40
-rw-r--r-- 1 alan alan 35149 nov 16 15:05 LICENSE
-rw-r--r-- 1 alan alan    10 nov 16 15:06 README.md
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~$ cd lerolero/
alan@drivethru:~/lerolero$ ls -l
total 40
-rw-r--r-- 1 alan alan 35149 nov 16 15:05 LICENSE
-rw-r--r-- 1 alan alan    10 nov 16 15:06 README.md
alan@drivethru:~/lerolero$ git log
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~$ cd lerolero/
alan@drivethru:~/lerolero$ ls -l
total 40
-rw-r--r-- 1 alan alan 35149 nov 16 15:05 LICENSE
-rw-r--r-- 1 alan alan    10 nov 16 15:06 README.md
alan@drivethru:~/lerolero$ git log
commit bc7de604e736c540ef06e71f1641b19c238ad3a0 (HEAD -> main, origin/main, ori
gin/HEAD)
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~$ cd lerolero/
alan@drivethru:~/lerolero$ ls -l
total 40
-rw-r--r-- 1 alan alan 35149 nov 16 15:05 LICENSE
-rw-r--r-- 1 alan alan    10 nov 16 15:06 README.md
alan@drivethru:~/lerolero$ git log
commit bc7de604e736c540ef06e71f1641b19c238ad3a0 (HEAD -> main, origin/main, ori
gin/HEAD)
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
alan@drivethru:~/lerolero$ git pull
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
total 40
-rw-r--r-- 1 alan alan 35149 nov 16 15:05 LICENSE
-rw-r--r-- 1 alan alan    10 nov 16 15:06 README.md
alan@drivethru:~/lerolero$ git log
commit bc7de604e736c540ef06e71f1641b19c238ad3a0 (HEAD -> main, origin/main, ori
gin/HEAD)
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
alan@drivethru:~/lerolero$ git pull
Warning: Permanently added the RSA host key for IP address '140.82.112.3' to th
e list of known hosts.
Enter passphrase for key '/home/alan/.ssh/id_rsa':
From github.com:urrameu/lerolero
   bc7de60..b959436  main       -> origin/main
Updating bc7de60..b959436
Fast-forward
 README.md | 4 +++-
 1 file changed, 3 insertions(+), 1 deletion(-)
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
total 40
-rw-r--r-- 1 alan alan 35149 nov 16 15:05 LICENSE
-rw-r--r-- 1 alan alan    10 nov 16 15:06 README.md
alan@drivethru:~/lerolero$ git log
commit bc7de604e736c540ef06e71f1641b19c238ad3a0 (HEAD -> main, origin/main, ori
gin/HEAD)
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
alan@drivethru:~/lerolero$ git pull
Warning: Permanently added the RSA host key for IP address '140.82.112.3' to th
e list of known hosts.
Enter passphrase for key '/home/alan/.ssh/id_rsa':
From github.com:urrameu/lerolero
   bc7de60..b959436  main       -> origin/main
Updating bc7de60..b959436
Fast-forward
 README.md | 4 +++-
 1 file changed, 3 insertions(+), 1 deletion(-)
alan@drivethru:~/lerolero$ git log
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Enter passphrase for key '/home/alan/.ssh/id_rsa':
From github.com:urrameu/lerolero
   bc7de60..b959436  main       -> origin/main
Updating bc7de60..b959436
Fast-forward
 README.md | 4 +++-
 1 file changed, 3 insertions(+), 1 deletion(-)
alan@drivethru:~/lerolero$ git log
commit b959436b99e4e14772cd561b2491321cb1e78402 (HEAD -> main, origin/main, ori
gin/HEAD)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
alan@drivethru:~/lerolero$
```

Arqueologia: olhando para o passado

O que mudou de uma versão para a outra?

`git diff` compara duas versões do projeto

- **`git diff ID1 ID2`**
  - Mostra todas as alterações em todos os arquivos
- **`git diff ID1 ID2 arquivo`**
  - Restringe a **`arquivo`**, mas ainda assim compara versões do projeto
- **`git diff ID1 ID2` é diferente de `git diff ID2 ID1`**
  - Diferenças **de** uma versão **para** outra versão

O que mudou de uma versão para a outra?

- **`git diff` (sem parâmetros) funciona!**
  - Diferenças da área montagem (*staging area*/*index*) para a área de trabalho (*workdir*)
- **`git diff ID`**
  - Diferenças da *revision*/*commit* **`ID`** para o *workdir*
- **`git diff --staged`**
  - Diferenças da última *revision*/*commit* para a *staging area*
- **`git diff --staged ID`**
  - Diferenças da *revision*/*commit* **`ID`** para a *staging area*

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero

alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git log
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git log
commit b959436b99e4e14772cd561b2491321cb1e78402 (HEAD -> main, origin/main, ori
gin/HEAD)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git log
commit b959436b99e4e14772cd561b2491321cb1e78402 (HEAD -> main, origin/main, ori
gin/HEAD)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
alan@drivethru:~/lerolero$ git diff bc7de604 b959436b
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
alan@drivethru:~/lerolero$ git diff bc7de604 b959436b
diff --git a/README.md b/README.md
index d913469..55f6404 100644
--- a/README.md
+++ b/README.md
@@ -1 +1,3 @@
-# lerolero
\ No newline at end of file
+# lerolero
+
+Um gerador de frases de efeito sem sentido.
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
alan@drivethru:~/lerolero$ git diff bc7de604 b959436b
diff --git a/README.md b/README.md
index d913469..55f6404 100644
--- a/README.md
+++ b/README.md
@@ -1 +1,3 @@
-# lerolero
\ No newline at end of file
+# lerolero
+
+Um gerador de frases de efeito sem sentido.
alan@drivethru:~/lerolero$ git diff b959436b bc7de604
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
index d913469..55f6404 100644
--- a/README.md
+++ b/README.md
@@ -1 +1,3 @@
-# lerolero
\ No newline at end of file
+# lerolero
+
+Um gerador de frases de efeito sem sentido.
alan@drivethru:~/lerolero$ git diff b959436b bc7de604
diff --git a/README.md b/README.md
index 55f6404..d913469 100644
--- a/README.md
+++ b/README.md
@@ -1,3 +1 @@
-# lerolero
-
-Um gerador de frases de efeito sem sentido.
+# lerolero
\ No newline at end of file
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
index d913469..55f6404 100644
--- a/README.md
+++ b/README.md
@@ -1 +1,3 @@
-# lerolero
\ No newline at end of file
+# lerolero
+
+Um gerador de frases de efeito sem sentido.
alan@drivethru:~/lerolero$ git diff b959436b bc7de604
diff --git a/README.md b/README.md
index 55f6404..d913469 100644
--- a/README.md
+++ b/README.md
@@ -1,3 +1 @@
-# lerolero
-
-Um gerador de frases de efeito sem sentido.
+# lerolero
\ No newline at end of file
alan@drivethru:~/lerolero$ vi lerolero.py
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero

alan@drivethru: ~/lerolero

```
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
--Sem linhas no buffer--                                    0,0-1         Tudo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
#!/usr/bin/python3
"""Gerador de lero-lero.

Gera frases de efeito sem significado real."""
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
                                                    1,1           Tudo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
#!/usr/bin/python3
"""Gerador de lero-lero.

Gera frases de efeito sem significado real."""
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
:wq
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
--- a/README.md
+++ b/README.md
@@ -1 +1,3 @@
-# lerolero
\ No newline at end of file
+# lerolero
+
+Um gerador de frases de efeito sem sentido.
alan@drivethru:~/lerolero$ git diff b959436b bc7de604
diff --git a/README.md b/README.md
index 55f6404..d913469 100644
--- a/README.md
+++ b/README.md
@@ -1,3 +1 @@
-# lerolero
-
-Um gerador de frases de efeito sem sentido.
+# lerolero
\ No newline at end of file
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git status
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
index 55f6404..d913469 100644
--- a/README.md
+++ b/README.md
@@ -1,3 +1 @@
-# lerolero
-
-Um gerador de frases de efeito sem sentido.
+# lerolero
\ No newline at end of file
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

        lerolero.py

nothing added to commit but untracked files present (use "git add" to track)
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
index 55f6404..d913469 100644
--- a/README.md
+++ b/README.md
@@ -1,3 +1 @@
-# lerolero
-
-Um gerador de frases de efeito sem sentido.
+# lerolero
\ No newline at end of file
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

        lerolero.py

nothing added to commit but untracked files present (use "git add" to track)
alan@drivethru:~/lerolero$ git diff
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
--- a/README.md
+++ b/README.md
@@ -1,3 +1 @@
-# lerolero
-
-Um gerador de frases de efeito sem sentido.
+# lerolero
\ No newline at end of file
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

        lerolero.py

nothing added to commit but untracked files present (use "git add" to track)
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
--- a/README.md
+++ b/README.md
@@ -1,3 +1 @@
-# lerolero
-
-Um gerador de frases de efeito sem sentido.
+# lerolero
\ No newline at end of file
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

        lerolero.py

nothing added to commit but untracked files present (use "git add" to track)
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$ git add lerolero.py
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
+++ b/README.md
@@ -1,3 +1 @@
-# lerolero
-
-Um gerador de frases de efeito sem sentido.
+# lerolero
\ No newline at end of file
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

        lerolero.py

nothing added to commit but untracked files present (use "git add" to track)
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$ git add lerolero.py
alan@drivethru:~/lerolero$ git diff
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
@@ -1,3 +1 @@
-# lerolero
-
-Um gerador de frases de efeito sem sentido.
+# lerolero
\ No newline at end of file
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

        lerolero.py

nothing added to commit but untracked files present (use "git add" to track)
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$ git add lerolero.py
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$ git diff --staged
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

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

        lerolero.py

nothing added to commit but untracked files present (use "git add" to track)
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$ git add lerolero.py
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$ git diff --staged
diff --git a/lerolero.py b/lerolero.py
new file mode 100755
index 0000000..d845a8c
--- /dev/null
+++ b/lerolero.py
@@ -0,0 +1,4 @@
+#!/usr/bin/python3
+"""Gerador de lero-lero.
+
+Gera frases de efeito sem significado real."""
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

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

        lerolero.py

nothing added to commit but untracked files present (use "git add" to track)
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$ git add lerolero.py
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$ git diff --staged
diff --git a/lerolero.py b/lerolero.py
new file mode 100755
index 0000000..d845a8c
--- /dev/null
+++ b/lerolero.py
@@ -0,0 +1,4 @@
+#!/usr/bin/python3
+"""Gerador de lero-lero.
+
+Gera frases de efeito sem significado real."""
alan@drivethru:~/lerolero$ git commit
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Cria arquivo inicial do programa
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch main
# Your branch is up to date with 'origin/main'.
#
# Changes to be committed:
#       new file:   lerolero.py
#
~
~
~
~
~
~
~
~
~
~
                                                    1,32          Tudo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Cria arquivo inicial do programa
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch main
# Your branch is up to date with 'origin/main'.
#
# Changes to be committed:
#       new file:   lerolero.py
#
~
~
~
~
~
~
~
~
~
~
:wq
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
nothing added to commit but untracked files present (use "git add" to track)
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$ git add lerolero.py
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$ git diff --staged
diff --git a/lerolero.py b/lerolero.py
new file mode 100755
index 0000000..d845a8c
--- /dev/null
+++ b/lerolero.py
@@ -0,0 +1,4 @@
+#!/usr/bin/python3
+"""Gerador de lero-lero.
+
+Gera frases de efeito sem significado real."""
alan@drivethru:~/lerolero$ git commit
[main 97b8937] Cria arquivo inicial do programa
 1 file changed, 4 insertions(+)
 create mode 100755 lerolero.py
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
nothing added to commit but untracked files present (use "git add" to track)
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$ git add lerolero.py
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$ git diff --staged
diff --git a/lerolero.py b/lerolero.py
new file mode 100755
index 0000000..d845a8c
--- /dev/null
+++ b/lerolero.py
@@ -0,0 +1,4 @@
+#!/usr/bin/python3
+"""Gerador de lero-lero.
+
+Gera frases de efeito sem significado real."""
alan@drivethru:~/lerolero$ git commit
[main 97b8937] Cria arquivo inicial do programa
 1 file changed, 4 insertions(+)
 create mode 100755 lerolero.py
alan@drivethru:~/lerolero$ git log
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
 1 file changed, 4 insertions(+)
 create mode 100755 lerolero.py
alan@drivethru:~/lerolero$ git log
commit 97b89377117481c5d0269ee625fed3e38b628268 (HEAD -> main)
Author: Alan Turing <turing@machine.com>
Date:   Mon Nov 16 15:24:35 2020 -0300

    Cria arquivo inicial do programa

commit b959436b99e4e14772cd561b2491321cb1e78402 (origin/main, origin/HEAD)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
 1 file changed, 4 insertions(+)
 create mode 100755 lerolero.py
alan@drivethru:~/lerolero$ git log
commit 97b89377117481c5d0269ee625fed3e38b628268 (HEAD -> main)
Author: Alan Turing <turing@machine.com>
Date:   Mon Nov 16 15:24:35 2020 -0300

    Cria arquivo inicial do programa

commit b959436b99e4e14772cd561b2491321cb1e78402 (origin/main, origin/HEAD)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
alan@drivethru:~/lerolero$ git status
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
    Cria arquivo inicial do programa

commit b959436b99e4e14772cd561b2491321cb1e78402 (origin/main, origin/HEAD)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
    Cria arquivo inicial do programa

commit b959436b99e4e14772cd561b2491321cb1e78402 (origin/main, origin/HEAD)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
alan@drivethru:~/lerolero$ vi lerolero.py
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
#!/usr/bin/python3
"""Gerador de lero-lero.

Gera frases de efeito sem significado real."""
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
                                                    4,1           Tudo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
#!/usr/bin/python3
"""Gerador de lero-lero.

Gera frases de efeito sem significado real."""

import random

# Cada frase é composta por três partes aleatórias; aqui,
# listas de possibilidades para cada uma das partes.

parte1 = []
parte2 = []
parte3 = []

# Combina as partes aleatoriamente
print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
~
~
~
~
                                                    6,1           Tudo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
#!/usr/bin/python3
"""Gerador de lero-lero.

Gera frases de efeito sem significado real."""

import random

# Cada frase é composta por três partes aleatórias; aqui,
# listas de possibilidades para cada uma das partes.

parte1 = []
parte2 = []
parte3 = []

# Combina as partes aleatoriamente
print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
~
~
~
~
:wq
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
    Cria arquivo inicial do programa

commit b959436b99e4e14772cd561b2491321cb1e78402 (origin/main, origin/HEAD)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git status
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
    Initial commit
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   lerolero.py

no changes added to commit (use "git add" and/or "git commit -a")
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
    Initial commit
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   lerolero.py

no changes added to commit (use "git add" and/or "git commit -a")
alan@drivethru:~/lerolero$ git diff
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
diff --git a/lerolero.py b/lerolero.py
index d845a8c..2af78d8 100755
--- a/lerolero.py
+++ b/lerolero.py
@@ -2,3 +2,15 @@
 """Gerador de lero-lero.

 Gera frases de efeito sem significado real."""
+
+import random
+
+# Cada frase é composta por três partes aleatórias; aqui,
+# listas de possibilidades para cada uma das partes.
+
+parte1 = []
+parte2 = []
+parte3 = []
+
+# Combina as partes aleatoriamente
+print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
:
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
diff --git a/lerolero.py b/lerolero.py
index d845a8c..2af78d8 100755
--- a/lerolero.py
+++ b/lerolero.py
@@ -2,3 +2,15 @@
 """Gerador de lero-lero.

 Gera frases de efeito sem significado real."""
+
+import random
+
+# Cada frase é composta por três partes aleatórias; aqui,
+# listas de possibilidades para cada uma das partes.
+
+parte1 = []
+parte2 = []
+parte3 = []
+
+# Combina as partes aleatoriamente
+print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
alan@drivethru:~/lerolero$ git add lerolero.py
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
index d845a8c..2af78d8 100755
--- a/lerolero.py
+++ b/lerolero.py
@@ -2,3 +2,15 @@
 """Gerador de lero-lero.

 Gera frases de efeito sem significado real."""
+
+import random
+
+# Cada frase é composta por três partes aleatórias; aqui,
+# listas de possibilidades para cada uma das partes.
+
+parte1 = []
+parte2 = []
+parte3 = []
+
+# Combina as partes aleatoriamente
+print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
alan@drivethru:~/lerolero$ git add lerolero.py
alan@drivethru:~/lerolero$ git diff
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
--- a/lerolero.py
+++ b/lerolero.py
@@ -2,3 +2,15 @@
 """Gerador de lero-lero.

 Gera frases de efeito sem significado real."""
+
+import random
+
+# Cada frase é composta por três partes aleatórias; aqui,
+# listas de possibilidades para cada uma das partes.
+
+parte1 = []
+parte2 = []
+parte3 = []
+
+# Combina as partes aleatoriamente
+print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
alan@drivethru:~/lerolero$ git add lerolero.py
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$ git diff --staged
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
diff --git a/lerolero.py b/lerolero.py
index d845a8c..2af78d8 100755
--- a/lerolero.py
+++ b/lerolero.py
@@ -2,3 +2,15 @@
 """Gerador de lero-lero.

 Gera frases de efeito sem significado real."""
+
+import random
+
+# Cada frase é composta por três partes aleatórias; aqui,
+# listas de possibilidades para cada uma das partes.
+
+parte1 = []
+parte2 = []
+parte3 = []
+
+# Combina as partes aleatoriamente
+print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
:
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
diff --git a/lerolero.py b/lerolero.py
index d845a8c..2af78d8 100755
--- a/lerolero.py
+++ b/lerolero.py
@@ -2,3 +2,15 @@
 """Gerador de lero-lero.

 Gera frases de efeito sem significado real."""
+
+import random
+
+# Cada frase é composta por três partes aleatórias; aqui,
+# listas de possibilidades para cada uma das partes.
+
+parte1 = []
+parte2 = []
+parte3 = []
+
+# Combina as partes aleatoriamente
+print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
alan@drivethru:~/lerolero$ git commit
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Implementa esqueleto do programa
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch main
# Your branch is ahead of 'origin/main' by 1 commit.
#   (use "git push" to publish your local commits)
#
# Changes to be committed:
#       modified:   lerolero.py
#
~
~
~
~
~
~
~
~
~
                                                    1,32          Tudo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
+++ b/lerolero.py
@@ -2,3 +2,15 @@
 """Gerador de lero-lero.

 Gera frases de efeito sem significado real."""
+
+import random
+
+# Cada frase é composta por três partes aleatórias; aqui,
+# listas de possibilidades para cada uma das partes.
+
+parte1 = []
+parte2 = []
+parte3 = []
+
+# Combina as partes aleatoriamente
+print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
alan@drivethru:~/lerolero$ git commit
[main f5be676] Implementa esqueleto do programa
 1 file changed, 12 insertions(+)
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
+++ b/lerolero.py
@@ -2,3 +2,15 @@
 """Gerador de lero-lero.

 Gera frases de efeito sem significado real."""
+
+import random
+
+# Cada frase é composta por três partes aleatórias; aqui,
+# listas de possibilidades para cada uma das partes.
+
+parte1 = []
+parte2 = []
+parte3 = []
+
+# Combina as partes aleatoriamente
+print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
alan@drivethru:~/lerolero$ git commit
[main f5be676] Implementa esqueleto do programa
 1 file changed, 12 insertions(+)
alan@drivethru:~/lerolero$ git diff
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
@@ -2,3 +2,15 @@
 """Gerador de lero-lero.

 Gera frases de efeito sem significado real."""
+
+import random
+
+# Cada frase é composta por três partes aleatórias; aqui,
+# listas de possibilidades para cada uma das partes.
+
+parte1 = []
+parte2 = []
+parte3 = []
+
+# Combina as partes aleatoriamente
+print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
alan@drivethru:~/lerolero$ git commit
[main f5be676] Implementa esqueleto do programa
 1 file changed, 12 insertions(+)
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
@@ -2,3 +2,15 @@
 """Gerador de lero-lero.

 Gera frases de efeito sem significado real."""
+
+import random
+
+# Cada frase é composta por três partes aleatórias; aqui,
+# listas de possibilidades para cada uma das partes.
+
+parte1 = []
+parte2 = []
+parte3 = []
+
+# Combina as partes aleatoriamente
+print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
alan@drivethru:~/lerolero$ git commit
[main f5be676] Implementa esqueleto do programa
 1 file changed, 12 insertions(+)
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$ git diff --staged
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
 """Gerador de lero-lero.

 Gera frases de efeito sem significado real."""
+
+import random
+
+# Cada frase é composta por três partes aleatórias; aqui,
+# listas de possibilidades para cada uma das partes.
+
+parte1 = []
+parte2 = []
+parte3 = []
+
+# Combina as partes aleatoriamente
+print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
alan@drivethru:~/lerolero$ git commit
[main f5be676] Implementa esqueleto do programa
 1 file changed, 12 insertions(+)
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$ git diff --staged
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
 """Gerador de lero-lero.

 Gera frases de efeito sem significado real."""
+
+import random
+
+# Cada frase é composta por três partes aleatórias; aqui,
+# listas de possibilidades para cada uma das partes.
+
+parte1 = []
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+parte3 = []
+
+# Combina as partes aleatoriamente
+print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
alan@drivethru:~/lerolero$ git commit
[main f5be676] Implementa esqueleto do programa
 1 file changed, 12 insertions(+)
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$ git diff --staged
alan@drivethru:~/lerolero$ git status
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
+# Cada frase é composta por três partes aleatórias; aqui,
+# listas de possibilidades para cada uma das partes.
+
+parte1 = []
+parte2 = []
+parte3 = []
+
+# Combina as partes aleatoriamente
+print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
alan@drivethru:~/lerolero$ git commit
[main f5be676] Implementa esqueleto do programa
 1 file changed, 12 insertions(+)
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$ git diff --staged
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
+# Cada frase é composta por três partes aleatórias; aqui,
+# listas de possibilidades para cada uma das partes.
+
+parte1 = []
+parte2 = []
+parte3 = []
+
+# Combina as partes aleatoriamente
+print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
alan@drivethru:~/lerolero$ git commit
[main f5be676] Implementa esqueleto do programa
 1 file changed, 12 insertions(+)
alan@drivethru:~/lerolero$ git diff
alan@drivethru:~/lerolero$ git diff --staged
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
alan@drivethru:~/lerolero$ git push
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git diff --staged
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
alan@drivethru:~/lerolero$ git push
Warning: Permanently added the RSA host key for IP address '140.82.113.4' to th
e list of known hosts.
Enter passphrase for key '/home/alan/.ssh/id_rsa':
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 775 bytes | 775.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), done.
To github.com:urrameu/lerolero.git
   b959436..f5be676  main -> main
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git diff --staged
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
alan@drivethru:~/lerolero$ git push
Warning: Permanently added the RSA host key for IP address '140.82.113.4' to th
e list of known hosts.
Enter passphrase for key '/home/alan/.ssh/id_rsa':
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 775 bytes | 775.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), done.
To github.com:urrameu/lerolero.git
   b959436..f5be676  main -> main
alan@drivethru:~/lerolero$ git status
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
nothing to commit, working tree clean
alan@drivethru:~/lerolero$ git push
Warning: Permanently added the RSA host key for IP address '140.82.113.4' to th
e list of known hosts.
Enter passphrase for key '/home/alan/.ssh/id_rsa':
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 775 bytes | 775.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), done.
To github.com:urrameu/lerolero.git
   b959436..f5be676  main -> main
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git log
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git log
commit b959436b99e4e14772cd561b2491321cb1e78402 (HEAD -> main, origin/main, ori
gin/HEAD)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git log
commit b959436b99e4e14772cd561b2491321cb1e78402 (HEAD -> main, origin/main, ori
gin/HEAD)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
ada@drivethru:~/lerolero$ git status
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git log
commit b959436b99e4e14772cd561b2491321cb1e78402 (HEAD -> main, origin/main, ori
gin/HEAD)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git log
commit b959436b99e4e14772cd561b2491321cb1e78402 (HEAD -> main, origin/main, ori
gin/HEAD)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0
Author: Nelson Lago <lago@ime.usp.br>
Date:   Mon Nov 16 13:53:13 2020 -0300

    Initial commit
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git pull
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git pull
Warning: Permanently added the RSA host key for IP address '140.82.113.3' to th
e list of known hosts.
Enter passphrase for key '/home/ada/.ssh/id_rsa':
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 6 (delta 2), reused 6 (delta 2), pack-reused 0
Unpacking objects: 100% (6/6), done.
From github.com:urrameu/lerolero
   b959436..f5be676  main       -> origin/main
Updating b959436..f5be676
Fast-forward
 lerolero.py | 16 ++++++++++++++++
 1 file changed, 16 insertions(+)
 create mode 100755 lerolero.py
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git pull
Warning: Permanently added the RSA host key for IP address '140.82.113.3' to th
e list of known hosts.
Enter passphrase for key '/home/ada/.ssh/id_rsa':
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 6 (delta 2), reused 6 (delta 2), pack-reused 0
Unpacking objects: 100% (6/6), done.
From github.com:urrameu/lerolero
   b959436..f5be676  main       -> origin/main
Updating b959436..f5be676
Fast-forward
 lerolero.py | 16 ++++++++++++++++
 1 file changed, 16 insertions(+)
 create mode 100755 lerolero.py
ada@drivethru:~/lerolero$ git log
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
commit f5be676e1ecb3acee26fb12ddc758ee388358e88 (HEAD -> main, origin/main, ori
gin/HEAD)
Author: Alan Turing <turing@machine.com>
Date:   Mon Nov 16 15:29:23 2020 -0300

    Implementa esqueleto do programa

commit 97b89377117481c5d0269ee625fed3e38b628268
Author: Alan Turing <turing@machine.com>
Date:   Mon Nov 16 15:24:35 2020 -0300

    Cria arquivo inicial do programa

commit b959436b99e4e14772cd561b2491321cb1e78402
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 14:56:59 2020 -0300

    Acrescenta descrição do projeto ao README

commit bc7de604e736c540ef06e71f1641b19c238ad3a0
:
```

Fluxo de trabalho

- **Com várias pessoas trabalhando ao mesmo tempo...**
  - Como salvar e compartilhar o trabalho em andamento?
  - Como discutir suas alterações?
  - Como testar suas alterações?
- **A solução são *branches* (ramos)**
- **Um *branch* é uma derivação em um ponto do histórico**
  - Do seu ponto de vista, ninguém está fazendo outras alterações no código
  - Todos podem trabalhar em paralelo sem "pisar no pé" um do outro
- **Um *branch* para cada conserto ou nova funcionalidade**
- **Quando está pronto (e testado!)**
  - Mescla alterações recentes do projeto principal ao seu *branch* e **testa novamente**
  - Mescla o *branch* ao projeto principal

Veja também www.atlassian.com/git/tutorials/comparing-workflows

Branches e merges

- **`git branch <NOME>`**
  - Cria um novo *branch* (ramo) **`NOME`** a partir do *branch* atual
- **`git switch <NOME>` (antigamente: `git checkout <NOME>`)**
  - Faz o *branch* **`NOME`** ser o *branch* atual
    - » *Atualiza o workdir e a staging area*
    - » *O próximo* ***`commit`*** *atualiza o branch* ***`NOME`***
- **`git branch`**
  - Lista os *branches*
    - » *O repositório "nasce" com um branch pronto:* ***`master`*** *ou* ***`main`***

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git status
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git branch
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git branch
* main
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git branch
* main
ada@drivethru:~/lerolero$ git branch ingles
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git branch
* main
ada@drivethru:~/lerolero$ git branch ingles
ada@drivethru:~/lerolero$ git branch
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git branch
* main
ada@drivethru:~/lerolero$ git branch ingles
ada@drivethru:~/lerolero$ git branch
  ingles
* main
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git branch
* main
ada@drivethru:~/lerolero$ git branch ingles
ada@drivethru:~/lerolero$ git branch
  ingles
* main
ada@drivethru:~/lerolero$ git switch ingles
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git branch
* main
ada@drivethru:~/lerolero$ git branch ingles
ada@drivethru:~/lerolero$ git branch
  ingles
* main
ada@drivethru:~/lerolero$ git switch ingles
Switched to branch 'ingles'
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git branch
* main
ada@drivethru:~/lerolero$ git branch ingles
ada@drivethru:~/lerolero$ git branch
  ingles
* main
ada@drivethru:~/lerolero$ git switch ingles
Switched to branch 'ingles'
ada@drivethru:~/lerolero$ git branch
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git branch
* main
ada@drivethru:~/lerolero$ git branch ingles
ada@drivethru:~/lerolero$ git branch
  ingles
* main
ada@drivethru:~/lerolero$ git switch ingles
Switched to branch 'ingles'
ada@drivethru:~/lerolero$ git branch
* ingles
  main
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git branch
* main
ada@drivethru:~/lerolero$ git branch ingles
ada@drivethru:~/lerolero$ git branch
  ingles
* main
ada@drivethru:~/lerolero$ git switch ingles
Switched to branch 'ingles'
ada@drivethru:~/lerolero$ git branch
* ingles
  main
ada@drivethru:~/lerolero$ vi lerolero.py
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
#!/usr/bin/python3
"""Gerador de lero-lero.

Gera frases de efeito sem significado real."""

import random

# Cada frase é composta por três partes aleatórias; aqui,
# listas de possibilidades para cada uma das partes.

parte1 = []
parte2 = []
parte3 = []

# Combina as partes aleatoriamente
print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
~
~
~
~
                                                    1,1           Tudo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
import random

# Cada frase é composta por três partes aleatórias; aqui,
# listas de possibilidades para cada uma das partes.

parte1 = []
parte2 = []
parte3 = []

# Combina as partes aleatoriamente
print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
~
~
~
~
~
~
~
~
~
Já está na alteração mais antiga                    14,0-1        Fim
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```python
import random

# Cada frase é composta por três partes aleatórias; aqui,
# listas de possibilidades para cada uma das partes.

parte1 = []
parte2 = []
parte3 = []

lingua = int(input("Escolha a língua: 1 - português; 2 - inglês\n "))

print()

if lingua == 2:
    parte1 = []
    parte2 = []
    parte3 = []

# Combina as partes aleatoriamente
print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
```

22,10 Fim

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```python
import random

# Cada frase é composta por três partes aleatórias; aqui,
# listas de possibilidades para cada uma das partes.

parte1 = []
parte2 = []
parte3 = []

lingua = int(input("Escolha a língua: 1 - português; 2 - inglês\n "))

print()

if lingua == 2:
    parte1 = []
    parte2 = []
    parte3 = []

# Combina as partes aleatoriamente
print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
:wq
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git branch
* main
ada@drivethru:~/lerolero$ git branch ingles
ada@drivethru:~/lerolero$ git branch
  ingles
* main
ada@drivethru:~/lerolero$ git switch ingles
Switched to branch 'ingles'
ada@drivethru:~/lerolero$ git branch
* ingles
  main
ada@drivethru:~/lerolero$ vi lerolero.py
ada@drivethru:~/lerolero$ git add lerolero.py
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git commit
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Cria esqueleto da versão multi-línguas
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch ingles
# Changes to be committed:
#       modified:   lerolero.py
#
~
~
~
~
~
~
~
~
~
~
~
~
                                                    1,40-38       Tudo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git commit
[ingles 8eef1bc] Cria esqueleto da versão multi-línguas
1 file changed, 9 insertions(+)

ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero

alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ vi lerolero.py
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
#!/usr/bin/python3
"""Gerador de lero-lero.

Gera frases de efeito sem significado real."""

import random

# Cada frase é composta por três partes aleatórias; aqui,
# listas de possibilidades para cada uma das partes.

parte1 = []
parte2 = []
parte3 = []

# Combina as partes aleatoriamente
print (random.choice(parte1), random.choice(parte2), random.choice(parte3))
~
~
~
~
"lerolero.py" 16L, 371C                                    1,1          Tudo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
parte1 = [
    "O sistema em desenvolvimento",
    "O novo protocolo de comunicação",
    "O algoritmo otimizado"
    ]

parte2 = [
    "possui excelente desempenho",
    "oferece garantias de precisão acima da média",
    "preenche uma lacuna significativa"
    ]

parte3 = [
    "nas aplicações a que se destina",
    "em relação às opções disponíveis no mercado",
    "e provê ampla vantagem competitiva a seus usuários"
    ]

# Combina as partes aleatoriamente
                                                    24,5          90%
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git add lerolero.py
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero

alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git add lerolero.py
alan@drivethru:~/lerolero$ git commit
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Insere os trechos das frases
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch main
# Your branch is up to date with 'origin/main'.
#
# Changes to be committed:
#       modified:   lerolero.py
#
~
~
~
~
~
~
~
~
~
~
                                                    1,28          Tudo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git add lerolero.py
alan@drivethru:~/lerolero$ git commit
[main 06c9aa6] Insere os trechos das frases
 1 file changed, 17 insertions(+), 3 deletions(-)
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git add lerolero.py
alan@drivethru:~/lerolero$ git commit
[main 06c9aa6] Insere os trechos das frases
 1 file changed, 17 insertions(+), 3 deletions(-)
alan@drivethru:~/lerolero$ git log
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
commit 06c9aa6d045fa5055bfe30c75d475cd33243e7fc (HEAD -> main)
Author: Alan Turing <turing@machine.com>
Date:   Mon Nov 16 15:58:02 2020 -0300

    Insere os trechos das frases

commit f5be676e1ecb3acee26fb12ddc758ee388358e88 (origin/main, origin/HEAD)
Author: Alan Turing <turing@machine.com>
Date:   Mon Nov 16 15:29:23 2020 -0300

    Implementa esqueleto do programa

commit 97b89377117481c5d0269ee625fed3e38b628268
Author: Alan Turing <turing@machine.com>
Date:   Mon Nov 16 15:24:35 2020 -0300

    Cria arquivo inicial do programa

commit b959436b99e4e14772cd561b2491321cb1e78402
Author: Ada Lovelace <ada@analyticalengine.com>
:
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
commit 06c9aa6d045fa5055bfe30c75d475cd33243e7fc (HEAD -> main)
Author: Alan Turing <turing@machine.com>
Date:   Mon Nov 16 15:58:02 2020 -0300

    Insere os trechos das frases

commit f5be676e1ecb3acee26fb12ddc758ee388358e88 (origin/main, origin/HEAD)
Author: Alan Turing <turing@machine.com>
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    Cria arquivo inicial do programa

commit b959436b99e4e14772cd561b2491321cb1e78402
Author: Ada Lovelace <ada@analyticalengine.com>
alan@drivethru:~/lerolero$ git push
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
commit 97b89377117481c5d0269ee625fed3e38b628268
Author: Alan Turing <turing@machine.com>
Date:   Mon Nov 16 15:24:35 2020 -0300

    Cria arquivo inicial do programa

commit b959436b99e4e14772cd561b2491321cb1e78402
Author: Ada Lovelace <ada@analyticalengine.com>
alan@drivethru:~/lerolero$ git push
Enter passphrase for key '/home/alan/.ssh/id_rsa':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 693 bytes | 693.00 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 github.com:urrameu/lerolero.git
   f5be676..06c9aa6  main -> main
alan@drivethru:~/lerolero$
```

Branches e merges

- **`git merge <NOME>`**
  - Mescla o *branch* **`NOME`** na área de trabalho
  - Faz **`commit`** do resultado no *branch* atual

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git log
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
commit 8eef1bcff9beb02f4ef7a8868f147d64a6b6fcd6 (HEAD -> ingles)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 15:55:56 2020 -0300

    Cria esqueleto da versão multi-línguas

commit f5be676e1ecb3acee26fb12ddc758ee388358e88 (origin/main, origin/HEAD, main
)
Author: Alan Turing <turing@machine.com>
Date:   Mon Nov 16 15:29:23 2020 -0300

    Implementa esqueleto do programa

commit 97b89377117481c5d0269ee625fed3e38b628268
Author: Alan Turing <turing@machine.com>
Date:   Mon Nov 16 15:24:35 2020 -0300

    Cria arquivo inicial do programa

commit b959436b99e4e14772cd561b2491321cb1e78402
:
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
commit 8eef1bcff9beb02f4ef7a8868f147d64a6b6fcd6 (HEAD -> ingles)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 15:55:56 2020 -0300

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commit f5be676e1ecb3acee26fb12ddc758ee388358e88 (origin/main, origin/HEAD, main
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Date:   Mon Nov 16 15:24:35 2020 -0300

    Cria arquivo inicial do programa

commit b959436b99e4e14772cd561b2491321cb1e78402
ada@drivethru:~/lerolero$ git switch main
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
    Cria esqueleto da versão multi-línguas

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Author: Alan Turing <turing@machine.com>
Date:   Mon Nov 16 15:24:35 2020 -0300

    Cria arquivo inicial do programa

commit b959436b99e4e14772cd561b2491321cb1e78402
ada@drivethru:~/lerolero$ git switch main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git pull --no-rebase
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/ada/.ssh/id_rsa':
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 3 (delta 1), pack-reused 0
Unpacking objects: 100% (3/3), 673 bytes | 336.00 KiB/s, done.
From github.com:urrameu/lerolero
   f5be676..06c9aa6  main       -> origin/main
Updating f5be676..06c9aa6
Fast-forward
 lerolero.py | 20 ++++++++++++++++++---
 1 file changed, 17 insertions(+), 3 deletions(-)
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/ada/.ssh/id_rsa':
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 3 (delta 1), pack-reused 0
Unpacking objects: 100% (3/3), 673 bytes | 336.00 KiB/s, done.
From github.com:urrameu/lerolero
   f5be676..06c9aa6  main       -> origin/main
Updating f5be676..06c9aa6
Fast-forward
 lerolero.py | 20 ++++++++++++++++++---
 1 file changed, 17 insertions(+), 3 deletions(-)
ada@drivethru:~/lerolero$ git merge ingles
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Merge branch 'ingles' into main
# Please enter a commit message to explain why this merge is necessary,
# especially if it merges an updated upstream into a topic branch.
#
# Lines starting with '#' will be ignored, and an empty message aborts
# the commit.
~
~
~
~
~
~
~
~
~
~
~
~
~
~
"~/lerolero/.git/MERGE_MSG" 6L, 258C                    1,1           Tudo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/ada/.ssh/id_rsa':
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 3 (delta 1), pack-reused 0
Unpacking objects: 100% (3/3), 673 bytes | 336.00 KiB/s, done.
From github.com:urrameu/lerolero
   f5be676..06c9aa6  main       -> origin/main
Updating f5be676..06c9aa6
Fast-forward
 lerolero.py | 20 ++++++++++++++++++---
 1 file changed, 17 insertions(+), 3 deletions(-)
ada@drivethru:~/lerolero$ git merge ingles
Auto-merging lerolero.py
Merge made by the 'recursive' strategy.
 lerolero.py | 9 +++++++++
 1 file changed, 9 insertions(+)
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
commit fbb48fcfb3cd5f61e6dccd2d05554292283607be (HEAD -> main)
Merge: 06c9aa6 8eef1bc
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 16:04:21 2020 -0300

    Merge branch 'ingles' into main

commit 06c9aa6d045fa5055bfe30c75d475cd33243e7fc (origin/main, origin/HEAD)
Author: Alan Turing <turing@machine.com>
Date:   Mon Nov 16 15:58:02 2020 -0300

    Insere os trechos das frases

commit 8eef1bcff9beb02f4ef7a8868f147d64a6b6fcd6 (ingles)
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 15:55:56 2020 -0300

    Cria esqueleto da versão multi-línguas

commit f5be676e1ecb3acee26fb12ddc758ee388358e88
:
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
commit fbb48fcfb3cd5f61e6dccd2d05554292283607be (HEAD -> main)
Merge: 06c9aa6 8eef1bc
Author: Ada Lovelace <ada@analyticalengine.com>
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Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

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Date:   Mon Nov 16 15:55:56 2020 -0300

    Cria esqueleto da versão multi-línguas

commit f5be676e1ecb3acee26fb12ddc758ee388358e88
ada@drivethru:~/lerolero$ git status
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
commit 06c9aa6d045fa5055bfe30c75d475cd33243e7fc (origin/main, origin/HEAD)
Author: Alan Turing <turing@machine.com>
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Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 15:55:56 2020 -0300

    Cria esqueleto da versão multi-línguas

commit f5be676e1ecb3acee26fb12ddc758ee388358e88
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
commit 06c9aa6d045fa5055bfe30c75d475cd33243e7fc (origin/main, origin/HEAD)
Author: Alan Turing <turing@machine.com>
Date:   Mon Nov 16 15:58:02 2020 -0300

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commit f5be676e1ecb3acee26fb12ddc758ee388358e88
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On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git push
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

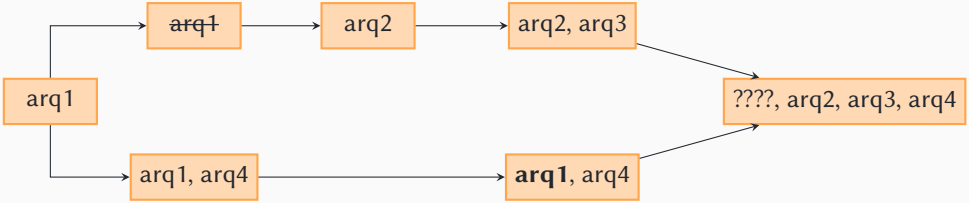
```
commit f5be676e1ecb3acee26fb12ddc758ee388358e88
ada@drivethru:~/lerolero$ git status
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
ada@drivethru:~/lerolero$ git push
Warning: Permanently added the RSA host key for IP address '140.82.114.4' to th
e list of known hosts.
Enter passphrase for key '/home/ada/.ssh/id_rsa':
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 723 bytes | 361.00 KiB/s, done.
Total 6 (delta 4), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (4/4), completed with 2 local objects.
To github.com:urrameu/lerolero.git
   06c9aa6..fbb48fc  main -> main
ada@drivethru:~/lerolero$
```

Branches e merges

- **`git merge <NOME>`**
  - Mescla o *branch* **`NOME`** na área de trabalho
  - Faz **`commit`** do resultado no *branch* atual

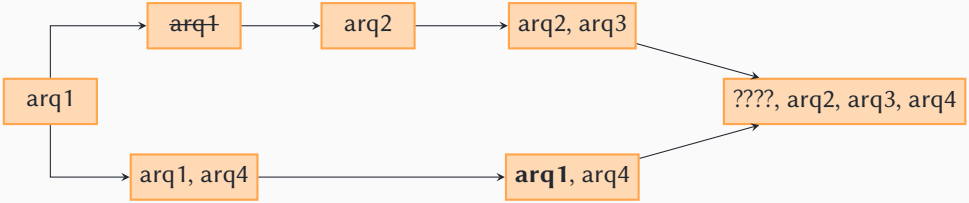
Branches e merges

- **`git merge <NOME>`**
  - Mescla o *branch* **`NOME`** na área de trabalho
  - Faz **`commit`** do resultado no *branch* atual
- **O que acontece se, numa mescla, dois *branches* modificaram o mesmo arquivo?**



Branches e merges

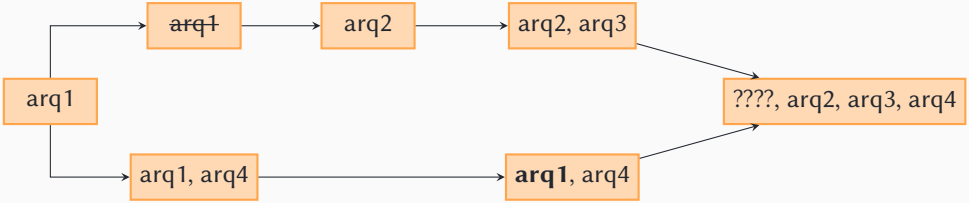
- `git merge <NOME>`
  - Mescla o *branch* **`NOME`** na área de trabalho
  - Faz **`commit`** do resultado no *branch* atual
- **O que acontece se, numa mescla, dois *branches* modificaram o mesmo arquivo?**



- **git vai indicar que houve um *conflito***

Branches e merges

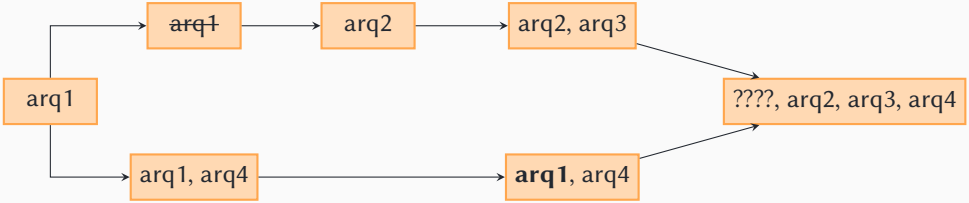
- **`git merge <NOME>`**
  - Mescla o *branch* **`NOME`** na área de trabalho
  - Faz **`commit`** do resultado no *branch* atual
- **O que acontece se, numa mescla, dois *branches* modificaram o mesmo arquivo?**



- **git vai indicar que houve um *conflito***
  - git mescla o que é possível

Branches e merges

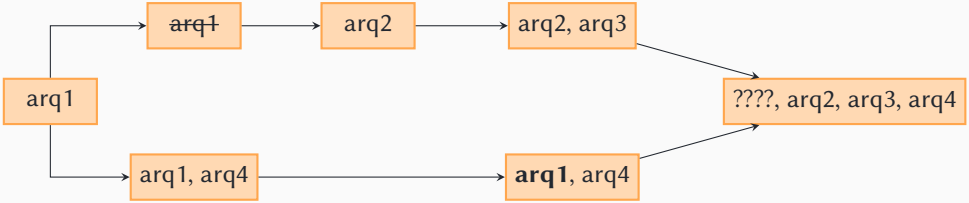
- **`git merge <NOME>`**
  - Mescla o *branch* **`NOME`** na área de trabalho
  - Faz **`commit`** do resultado no *branch* atual
- **O que acontece se, numa mescla, dois *branches* modificaram o mesmo arquivo?**



- **git vai indicar que houve um *conflito***
  - git mescla o que é possível
  - O usuário soluciona manualmente os conflitos restantes

Branches e merges

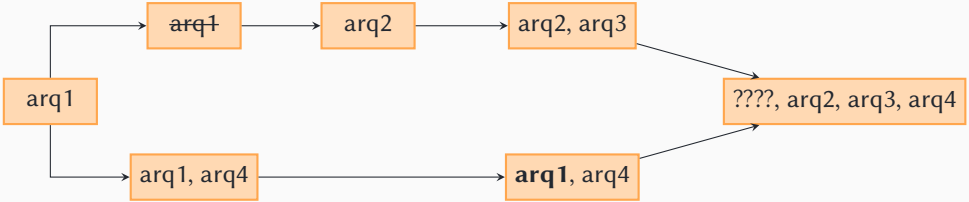
- **`git merge <NOME>`**
  - Mescla o *branch* **`NOME`** na área de trabalho
  - Faz **`commit`** do resultado no *branch* atual
- **O que acontece se, numa mescla, dois *branches* modificaram o mesmo arquivo?**



- **git vai indicar que houve um *conflito***
  - git mescla o que é possível
  - O usuário soluciona manualmente os conflitos restantes
  - **`git add`** (informa que o conflito foi resolvido)

Branches e merges

- **`git merge <NOME>`**
  - Mescla o *branch* **`NOME`** na área de trabalho
  - Faz **`commit`** do resultado no *branch* atual
- **O que acontece se, numa mescla, dois *branches* modificaram o mesmo arquivo?**



- **git vai indicar que houve um *conflito***
  - git mescla o que é possível
  - O usuário soluciona manualmente os conflitos restantes
  - **`git add`** (informa que o conflito foi resolvido)
  - **`git merge --continue`** / **`git merge --abort`**

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero

alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git pull --no-rebase
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/alan/.ssh/id_rsa':
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 6 (delta 4), reused 6 (delta 4), pack-reused 0
Unpacking objects: 100% (6/6), 703 bytes | 175.00 KiB/s, done.
From github.com:urrameu/lerolero
   06c9aa6..fbb48fc  main       -> origin/main
Updating 06c9aa6..fbb48fc
Fast-forward
 lerolero.py | 9 +++++++++
 1 file changed, 9 insertions(+)
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/alan/.ssh/id_rsa':
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 6 (delta 4), reused 6 (delta 4), pack-reused 0
Unpacking objects: 100% (6/6), 703 bytes | 175.00 KiB/s, done.
From github.com:urrameu/lerolero
   06c9aa6..fbb48fc  main       -> origin/main
Updating 06c9aa6..fbb48fc
Fast-forward
 lerolero.py | 9 +++++++++
 1 file changed, 9 insertions(+)
alan@drivethru:~/lerolero$ git branch estilo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/alan/.ssh/id_rsa':
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 6 (delta 4), reused 6 (delta 4), pack-reused 0
Unpacking objects: 100% (6/6), 703 bytes | 175.00 KiB/s, done.
From github.com:urrameu/lerolero
   06c9aa6..fbb48fc  main       -> origin/main
Updating 06c9aa6..fbb48fc
Fast-forward
 lerolero.py | 9 +++++++++
 1 file changed, 9 insertions(+)
alan@drivethru:~/lerolero$ git branch estilo
alan@drivethru:~/lerolero$ git switch estilo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/alan/.ssh/id_rsa':
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 6 (delta 4), reused 6 (delta 4), pack-reused 0
Unpacking objects: 100% (6/6), 703 bytes | 175.00 KiB/s, done.
From github.com:urrameu/lerolero
   06c9aa6..fbb48fc  main       -> origin/main
Updating 06c9aa6..fbb48fc
Fast-forward
 lerolero.py | 9 +++++++++
 1 file changed, 9 insertions(+)
alan@drivethru:~/lerolero$ git branch estilo
alan@drivethru:~/lerolero$ git switch estilo
Switched to branch 'estilo'
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/alan/.ssh/id_rsa':
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 6 (delta 4), reused 6 (delta 4), pack-reused 0
Unpacking objects: 100% (6/6), 703 bytes | 175.00 KiB/s, done.
From github.com:urrameu/lerolero
   06c9aa6..fbb48fc  main       -> origin/main
Updating 06c9aa6..fbb48fc
Fast-forward
 lerolero.py | 9 +++++++++
 1 file changed, 9 insertions(+)
alan@drivethru:~/lerolero$ git branch estilo
alan@drivethru:~/lerolero$ git switch estilo
Switched to branch 'estilo'
alan@drivethru:~/lerolero$ git branch
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/alan/.ssh/id_rsa':
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 6 (delta 4), reused 6 (delta 4), pack-reused 0
Unpacking objects: 100% (6/6), 703 bytes | 175.00 KiB/s, done.
From github.com:urrameu/lerolero
   06c9aa6..fbb48fc  main       -> origin/main
Updating 06c9aa6..fbb48fc
Fast-forward
 lerolero.py | 9 +++++++++
 1 file changed, 9 insertions(+)
alan@drivethru:~/lerolero$ git branch estilo
alan@drivethru:~/lerolero$ git switch estilo
Switched to branch 'estilo'
alan@drivethru:~/lerolero$ git branch
* estilo
  main
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/alan/.ssh/id_rsa':
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 6 (delta 4), reused 6 (delta 4), pack-reused 0
Unpacking objects: 100% (6/6), 703 bytes | 175.00 KiB/s, done.
From github.com:urrameu/lerolero
   06c9aa6..fbb48fc  main       -> origin/main
Updating 06c9aa6..fbb48fc
Fast-forward
 lerolero.py | 9 +++++++++
 1 file changed, 9 insertions(+)
alan@drivethru:~/lerolero$ git branch estilo
alan@drivethru:~/lerolero$ git switch estilo
Switched to branch 'estilo'
alan@drivethru:~/lerolero$ git branch
* estilo
  main
alan@drivethru:~/lerolero$ vi lerolero.py
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
#!/usr/bin/python3
"""Gerador de lero-lero.

Gera frases de efeito sem significado real."""

import random

# Cada frase é composta por três partes aleatórias; aqui,
# listas de possibilidades para cada uma das partes.

parte1 = [
    "O sistema em desenvolvimento",
    "O novo protocolo de comunicação",
    "O algoritmo otimizado"
    ]

parte2 = [
    "possui excelente desempenho",
    "oferece garantias de precisão acima da média",
    "preenche uma lacuna significativa"
"lerolero.py" 39L, 927C                                  13,40-38      Topo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```python
#!/usr/bin/python3
"""Gerador de lero-lero.

Gera frases de efeito sem significado real."""

import random

# Cada frase é composta por três partes aleatórias; aqui,
# listas de possibilidades para cada uma das partes.

parte1 = [
    "O sistema em desenvolvimento",
    "O novo protocolo de comunicação",
    "O algoritmo de otimização"
    ]

parte2 = [
    "possui excelente desempenho",
    "oferece garantias de precisão acima da média",
    "preenche uma lacuna significativa"
```

14,32-30 Topo

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/alan/.ssh/id_rsa':
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 6 (delta 4), reused 6 (delta 4), pack-reused 0
Unpacking objects: 100% (6/6), 703 bytes | 175.00 KiB/s, done.
From github.com:urrameu/lerolero
   06c9aa6..fbb48fc  main       -> origin/main
Updating 06c9aa6..fbb48fc
Fast-forward
 lerolero.py | 9 +++++++++
 1 file changed, 9 insertions(+)
alan@drivethru:~/lerolero$ git branch estilo
alan@drivethru:~/lerolero$ git switch estilo
Switched to branch 'estilo'
alan@drivethru:~/lerolero$ git branch
* estilo
  main
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git add lerolero.py
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Enter passphrase for key '/home/alan/.ssh/id_rsa':
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 6 (delta 4), reused 6 (delta 4), pack-reused 0
Unpacking objects: 100% (6/6), 703 bytes | 175.00 KiB/s, done.
From github.com:urrameu/lerolero
   06c9aa6..fbb48fc  main       -> origin/main
Updating 06c9aa6..fbb48fc
Fast-forward
 lerolero.py | 9 +++++++++
 1 file changed, 9 insertions(+)
alan@drivethru:~/lerolero$ git branch estilo
alan@drivethru:~/lerolero$ git switch estilo
Switched to branch 'estilo'
alan@drivethru:~/lerolero$ git branch
* estilo
  main
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git add lerolero.py
alan@drivethru:~/lerolero$ git commit
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Melhora um dos textos
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch estilo
# Changes to be committed:
#       modified:   lerolero.py
#
~
~
~
~
~
~
~
~
~
~
~
~
                                                    1,21          Tudo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
remote: Compressing objects: 100% (2/2), done.
remote: Total 6 (delta 4), reused 6 (delta 4), pack-reused 0
Unpacking objects: 100% (6/6), 703 bytes | 175.00 KiB/s, done.
From github.com:urrameu/lerolero
   06c9aa6..fbb48fc  main       -> origin/main
Updating 06c9aa6..fbb48fc
Fast-forward
 lerolero.py | 9 +++++++++
 1 file changed, 9 insertions(+)
alan@drivethru:~/lerolero$ git branch estilo
alan@drivethru:~/lerolero$ git switch estilo
Switched to branch 'estilo'
alan@drivethru:~/lerolero$ git branch
* estilo
  main
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git add lerolero.py
alan@drivethru:~/lerolero$ git commit
[estilo a5c1574] Melhora um dos textos
 1 file changed, 1 insertion(+), 1 deletion(-)
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git pull --no-rebase
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/ada/.ssh/id_rsa':
Already up to date.
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/ada/.ssh/id_rsa':
Already up to date.
ada@drivethru:~/lerolero$ vi lerolero.py
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero alan@drivethru: ~/lerolero

```
# Cada frase é composta por três partes aleatórias; aqui,
# listas de possibilidades para cada uma das partes.

parte1 = [
    "O sistema em desenvolvimento",
    "O novo protocolo de comunicação",
    "O algoritmo otimizado"
    ]

parte2 = [
    "possui excelente desempenho",
    "oferece garantias de precisão acima da média",
    "preenche uma lacuna significativa"
    ]

parte3 = [
    "nas aplicações a que se destina",
    "em relação às opções disponíveis no mercado",
    "e provê ampla vantagem competitiva a seus usuários"
    ]
"lerolero.py" 39L, 927C                          14,18          36%
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero alan@drivethru: ~/lerolero

```
# Cada frase é composta por três partes aleatórias; aqui,
# listas de possibilidades para cada uma das partes.

parte1 = [
    "O sistema em desenvolvimento",
    "O novo protocolo de comunicação",
    "O algoritmo foi otimizado e"
    ]

parte2 = [
    "possui excelente desempenho",
    "oferece garantias de precisão acima da média",
    "preenche uma lacuna significativa"
    ]

parte3 = [
    "nas aplicações a que se destina",
    "em relação às opções disponíveis no mercado",
    "e provê ampla vantagem competitiva a seus usuários"
    ]
                                                    14,32          36%
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/ada/.ssh/id_rsa':
Already up to date.
ada@drivethru:~/lerolero$ vi lerolero.py
ada@drivethru:~/lerolero$ git add lerolero.py
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/ada/.ssh/id_rsa':
Already up to date.
ada@drivethru:~/lerolero$ vi lerolero.py
ada@drivethru:~/lerolero$ git add lerolero.py
ada@drivethru:~/lerolero$ git commit
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Modifica frase sobre otimização
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch main
# Your branch is up to date with 'origin/main'.
#
# Changes to be committed:
#       modified:   lerolero.py
#
~
~
~
~
~
~
~
~
~
~
                                                    1,33-31       Tudo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/ada/.ssh/id_rsa':
Already up to date.
ada@drivethru:~/lerolero$ vi lerolero.py
ada@drivethru:~/lerolero$ git add lerolero.py
ada@drivethru:~/lerolero$ git commit
[main b8ff49f] Modifica frase sobre otimização
 1 file changed, 1 insertion(+), 1 deletion(-)
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/ada/.ssh/id_rsa':
Already up to date.
ada@drivethru:~/lerolero$ vi lerolero.py
ada@drivethru:~/lerolero$ git add lerolero.py
ada@drivethru:~/lerolero$ git commit
[main b8ff49f] Modifica frase sobre otimização
 1 file changed, 1 insertion(+), 1 deletion(-)
ada@drivethru:~/lerolero$ git push
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
ada@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/ada/.ssh/id_rsa':
Already up to date.
ada@drivethru:~/lerolero$ vi lerolero.py
ada@drivethru:~/lerolero$ git add lerolero.py
ada@drivethru:~/lerolero$ git commit
[main b8ff49f] Modifica frase sobre otimização
 1 file changed, 1 insertion(+), 1 deletion(-)
ada@drivethru:~/lerolero$ git push
Enter passphrase for key '/home/ada/.ssh/id_rsa':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 326 bytes | 326.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To github.com:urrameu/lerolero.git
   fbb48fc..b8ff49f  main -> main
ada@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero

alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git status
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git status
On branch estilo
nothing to commit, working tree clean
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git status
On branch estilo
nothing to commit, working tree clean
alan@drivethru:~/lerolero$ git switch main
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero

alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git status
On branch estilo
nothing to commit, working tree clean
alan@drivethru:~/lerolero$ git switch main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero

alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git pull --no-rebase
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/alan/.ssh/id_rsa':
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (1/1), done.
remote: Total 3 (delta 2), reused 3 (delta 2), pack-reused 0
Unpacking objects: 100% (3/3), 306 bytes | 153.00 KiB/s, done.
From github.com:urrameu/lerolero
   fbb48fc..b8ff49f  main       -> origin/main
Updating fbb48fc..b8ff49f
Fast-forward
 lerolero.py | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/alan/.ssh/id_rsa':
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (1/1), done.
remote: Total 3 (delta 2), reused 3 (delta 2), pack-reused 0
Unpacking objects: 100% (3/3), 306 bytes | 153.00 KiB/s, done.
From github.com:urrameu/lerolero
   fbb48fc..b8ff49f  main       -> origin/main
Updating fbb48fc..b8ff49f
Fast-forward
 lerolero.py | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
alan@drivethru:~/lerolero$ git merge estilo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/alan/.ssh/id_rsa':
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (1/1), done.
remote: Total 3 (delta 2), reused 3 (delta 2), pack-reused 0
Unpacking objects: 100% (3/3), 306 bytes | 153.00 KiB/s, done.
From github.com:urrameu/lerolero
   fbb48fc..b8ff49f  main       -> origin/main
Updating fbb48fc..b8ff49f
Fast-forward
 lerolero.py | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
alan@drivethru:~/lerolero$ git merge estilo
Auto-merging lerolero.py
CONFLICT (content): Merge conflict in lerolero.py
Automatic merge failed; fix conflicts and then commit the result.
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
alan@drivethru:~/lerolero$ git pull --no-rebase
Enter passphrase for key '/home/alan/.ssh/id_rsa':
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (1/1), done.
remote: Total 3 (delta 2), reused 3 (delta 2), pack-reused 0
Unpacking objects: 100% (3/3), 306 bytes | 153.00 KiB/s, done.
From github.com:urrameu/lerolero
   fbb48fc..b8ff49f  main       -> origin/main
Updating fbb48fc..b8ff49f
Fast-forward
 lerolero.py | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
alan@drivethru:~/lerolero$ git merge estilo
Auto-merging lerolero.py
CONFLICT (content): Merge conflict in lerolero.py
Automatic merge failed; fix conflicts and then commit the result.
alan@drivethru:~/lerolero$ git status
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Fast-forward
 lerolero.py | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
alan@drivethru:~/lerolero$ git merge estilo
Auto-merging lerolero.py
CONFLICT (content): Merge conflict in lerolero.py
Automatic merge failed; fix conflicts and then commit the result.
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Unmerged paths:
  (use "git add <file>..." to mark resolution)
        both modified:   lerolero.py

no changes added to commit (use "git add" and/or "git commit -a")
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Fast-forward
 lerolero.py | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
alan@drivethru:~/lerolero$ git merge estilo
Auto-merging lerolero.py
CONFLICT (content): Merge conflict in lerolero.py
Automatic merge failed; fix conflicts and then commit the result.
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Unmerged paths:
  (use "git add <file>..." to mark resolution)
        both modified:   lerolero.py

no changes added to commit (use "git add" and/or "git commit -a")
alan@drivethru:~/lerolero$ vi lerolero.py
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
#!/usr/bin/python3
"""Gerador de lero-lero.

Gera frases de efeito sem significado real."""

import random

# Cada frase é composta por três partes aleatórias; aqui,
# listas de possibilidades para cada uma das partes.

parte1 = [
    "O sistema em desenvolvimento",
    "O novo protocolo de comunicação",
<<<<<<< HEAD
    "O algoritmo foi otimizado e"
=======
    "O algoritmo de otimização"
>>>>>>> estilo
    ]

"lerolero.py" 43L, 1003C                                  14,12         Topo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
#!/usr/bin/python3
"""Gerador de lero-lero.

Gera frases de efeito sem significado real."""

import random

# Cada frase é composta por três partes aleatórias; aqui,
# listas de possibilidades para cada uma das partes.

parte1 = [
    "O sistema em desenvolvimento",
    "O novo protocolo de comunicação",
    "O algoritmo foi otimizado e"
    ]

parte2 = [
    "possui excelente desempenho",
    "oferece garantias de precisão acima da média",
    "preenche uma lacuna significativa"
                                                    15,5          Topo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
 lerolero.py | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
alan@drivethru:~/lerolero$ git merge estilo
Auto-merging lerolero.py
CONFLICT (content): Merge conflict in lerolero.py
Automatic merge failed; fix conflicts and then commit the result.
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On branch main
Your branch is up to date with 'origin/main'.

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Unmerged paths:
  (use "git add <file>..." to mark resolution)
        both modified:   lerolero.py

no changes added to commit (use "git add" and/or "git commit -a")
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git add lerolero.py
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
 1 file changed, 1 insertion(+), 1 deletion(-)
alan@drivethru:~/lerolero$ git merge estilo
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Unmerged paths:
  (use "git add <file>..." to mark resolution)
        both modified:   lerolero.py

no changes added to commit (use "git add" and/or "git commit -a")
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git add lerolero.py
alan@drivethru:~/lerolero$ git merge --continue
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Merge branch 'estilo' into main

# Conflicts:
#       lerolero.py
#
# It looks like you may be committing a merge.
# If this is not correct, please remove the file
#       .git/MERGE_HEAD
# and try again.


# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch main
# Your branch is up to date with 'origin/main'.
#
# All conflicts fixed but you are still merging.
#
~
"~/lerolero/.git/COMMIT_EDITMSG" 19L, 450C                    1,1           Tudo
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Auto-merging lerolero.py
CONFLICT (content): Merge conflict in lerolero.py
Automatic merge failed; fix conflicts and then commit the result.
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Unmerged paths:
  (use "git add <file>..." to mark resolution)
        both modified:   lerolero.py

no changes added to commit (use "git add" and/or "git commit -a")
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git add lerolero.py
alan@drivethru:~/lerolero$ git merge --continue
[main b82cb8e] Merge branch 'estilo' into main
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Auto-merging lerolero.py
CONFLICT (content): Merge conflict in lerolero.py
Automatic merge failed; fix conflicts and then commit the result.
alan@drivethru:~/lerolero$ git status
On branch main
Your branch is up to date with 'origin/main'.

You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Unmerged paths:
  (use "git add <file>..." to mark resolution)
        both modified:   lerolero.py

no changes added to commit (use "git add" and/or "git commit -a")
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git add lerolero.py
alan@drivethru:~/lerolero$ git merge --continue
[main b82cb8e] Merge branch 'estilo' into main
alan@drivethru:~/lerolero$ git push
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Unmerged paths:
  (use "git add <file>..." to mark resolution)
        both modified:   lerolero.py

no changes added to commit (use "git add" and/or "git commit -a")
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git add lerolero.py
alan@drivethru:~/lerolero$ git merge --continue
[main b82cb8e] Merge branch 'estilo' into main
alan@drivethru:~/lerolero$ git push
Enter passphrase for key '/home/alan/.ssh/id_rsa':
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 503 bytes | 503.00 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To github.com:urrameu/lerolero.git
   b8ff49f..b82cb8e  main -> main
alan@drivethru:~/lerolero$
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
Unmerged paths:
  (use "git add <file>..." to mark resolution)
        both modified:   lerolero.py

no changes added to commit (use "git add" and/or "git commit -a")
alan@drivethru:~/lerolero$ vi lerolero.py
alan@drivethru:~/lerolero$ git add lerolero.py
alan@drivethru:~/lerolero$ git merge --continue
[main b82cb8e] Merge branch 'estilo' into main
alan@drivethru:~/lerolero$ git push
Enter passphrase for key '/home/alan/.ssh/id_rsa':
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 503 bytes | 503.00 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To github.com:urrameu/lerolero.git
   b8ff49f..b82cb8e  main -> main
alan@drivethru:~/lerolero$ git log
```

Arquivo Editar Ver Pesquisar Terminal Abas Ajuda

ada@drivethru: ~/lerolero | alan@drivethru: ~/lerolero

```
commit b82cb8e2b53c4de62d179a9ee2ab576941cd43c1 (HEAD -> main, origin/main, origin/HEAD)
Merge: b8ff49f a5c1574
Author: Alan Turing <turing@machine.com>
Date:   Mon Nov 16 17:45:48 2020 -0300

    Merge branch 'estilo' into main

commit b8ff49f229e9930e9f1dfa67fbc00390c87dfc4b
Author: Ada Lovelace <ada@analyticalengine.com>
Date:   Mon Nov 16 17:41:39 2020 -0300

    Modifica frase sobre otimização

commit a5c157468450d33350750113f76c11210a5f7e97 (estilo)
Author: Alan Turing <turing@machine.com>
Date:   Mon Nov 16 17:38:56 2020 -0300

    Melhora um dos textos

:
```

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urrameu / **lerolero**

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main 1 branch 0 tags Go to file Add file Code

Alan Turing Merge branch 'estilo' into main b82cb8e 13 minutes ago 10 commits

LICENSE	Initial commit	4 hours ago
README.md	Acrescenta descrição do projeto ao README	3 hours ago
lerolero.py	Modifica frase sobre otimização	18 minutes ago

README.md

lerolero

Um gerador de frases de efeito sem sentido.

About

No description, website, or topics provided.

Readme

GPL-3.0 License

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Aplicativos Gitk seg 16 de nov 18:08 pt 100 %

lerolero: --all - gitk

Arquivo Editar Exibir Ajuda

main	remotes/origin/main	Merge branch 'estilo' into main	Alan Turing <turing@machine.com>	2020-11-16 17:45:48
		Melhora um dos textos	Alan Turing <turing@machine.com>	2020-11-16 17:38:56
		Modifica frase sobre otimização	Ada Lovelace <ada@analyticalengir	2020-11-16 17:41:39
		Merge branch 'ingles' into main	Ada Lovelace <ada@analyticalengir	2020-11-16 16:04:21
		Cria esqueleto da versão multi-línguas	Ada Lovelace <ada@analyticalengir	2020-11-16 15:55:56
		Insere os trechos das frases	Alan Turing <turing@machine.com>	2020-11-16 15:58:02
		Implementa esqueleto do programa	Alan Turing <turing@machine.com>	2020-11-16 15:29:23
		Cria arquivo inicial do programa	Alan Turing <turing@machine.com>	2020-11-16 15:24:35
		Acrescenta descrição do projeto ao README	Ada Lovelace <ada@analyticalengir	2020-11-16 14:56:59
		Initial commit	Nelson Lago <lago@ime.usp.br>	2020-11-16 13:53:13

SHA1 ID: b82cb8e2b53c4de62d179a9ee2ab576941cd43c1 Linha 1/ 10

Encontrar Revisão contendo: Exatamente Todos os campos

Buscar

Diferenças Versão antiga Versão nova Número de

```
Autor: Alan Turing <turing@machine.com>  2020-1
Revisor: Alan Turing <turing@machine.com>  2020
Antecessor: b8ff49f229e9930e9f1dfa67fbc00390c87
Antecessor: a5c157468450d33350750113f76c11210a5
Ramo: main, remotes/origin/main
Segue:
Precede:

    Merge branch 'estilo' into main
```

Diferenças Árvore

Descrição da revisão

Automação

- **git possui *hooks* ("ganchos")**
  - *hooks* permitem que você "pendure" ações adicionais em algum comando
    - » *gitlab e github possuem outros mecanismos de automação, mas a ideia é similar*
- **Por exemplo, você pode "pendurar" um script em `git commit`**
  - Esse script pode notificar outros usuários sobre a nova versão, verificar se há erros etc.
    - » *Uma ideia interessante é garantir que todo `commit` execute os testes do programa*
    - » *Em caso de falha nos testes, o script pode notificar o usuário de diversas maneiras*