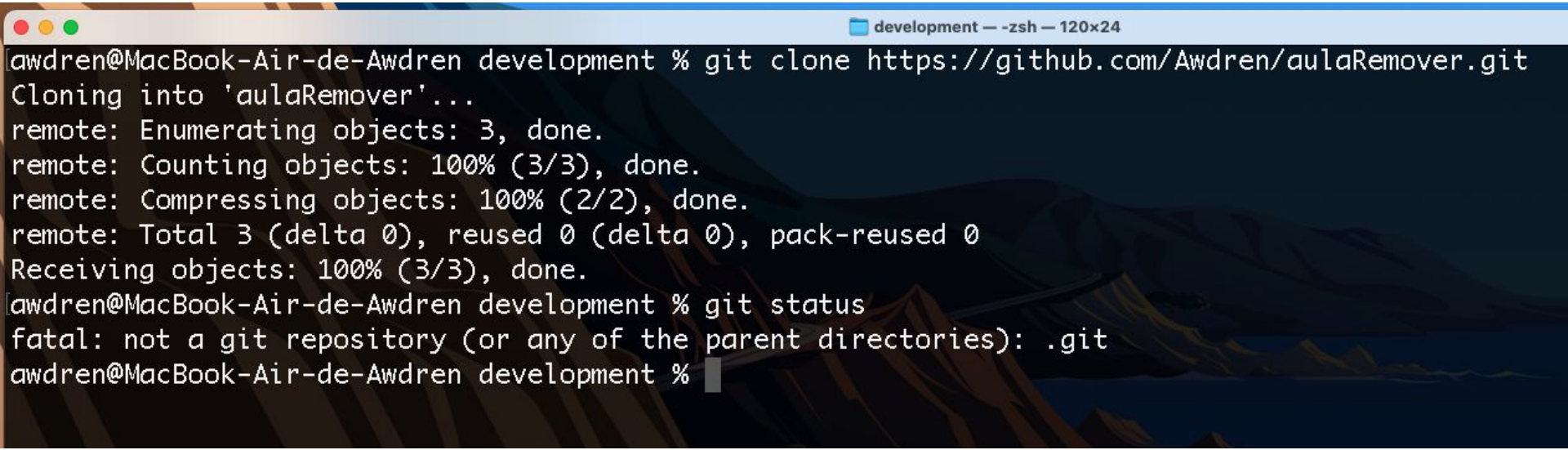
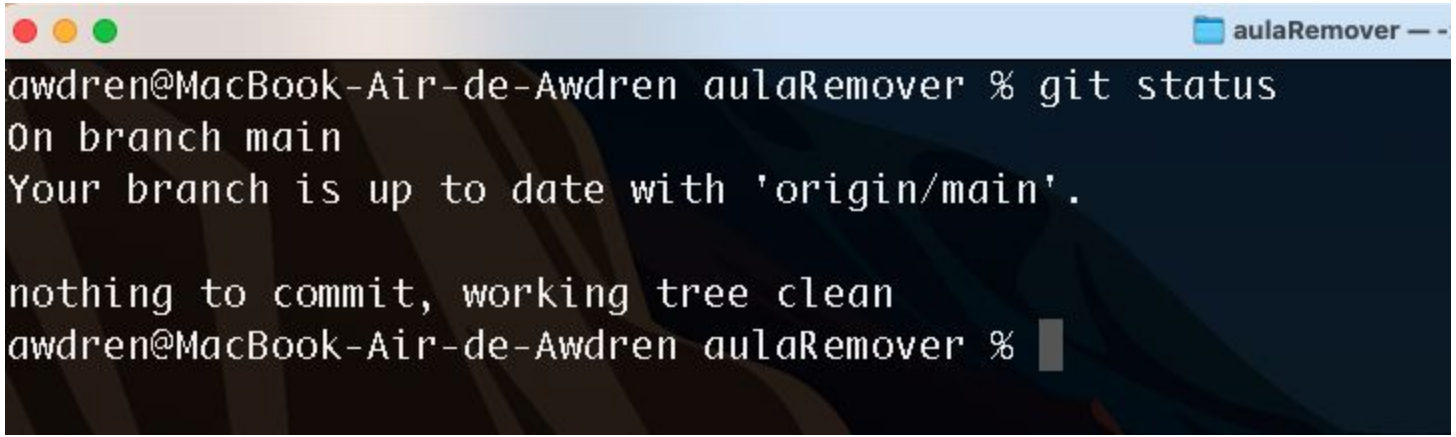
GCS 2023/1
Aula de Exercícios

22 de Maio de 2023

Primeiro Cenário




aulaRemover — -
awdren@MacBook-Air-de-Awdren aulaRemover % git status
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean
awdren@MacBook-Air-de-Awdren aulaRemover %

```
awdren@MacBook-Air-de-Awdren aulaRemover % 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)
        Exemplo.py

nothing added to commit but untracked files present (use "git add" to track)
awdren@MacBook-Air-de-Awdren aulaRemover %
```

```
awdren@MacBook-Air-de-Awdren aulaRemover % git add Exemplo.py
awdren@MacBook-Air-de-Awdren aulaRemover % git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   Exemplo.py

awdren@MacBook-Air-de-Awdren aulaRemover %
```

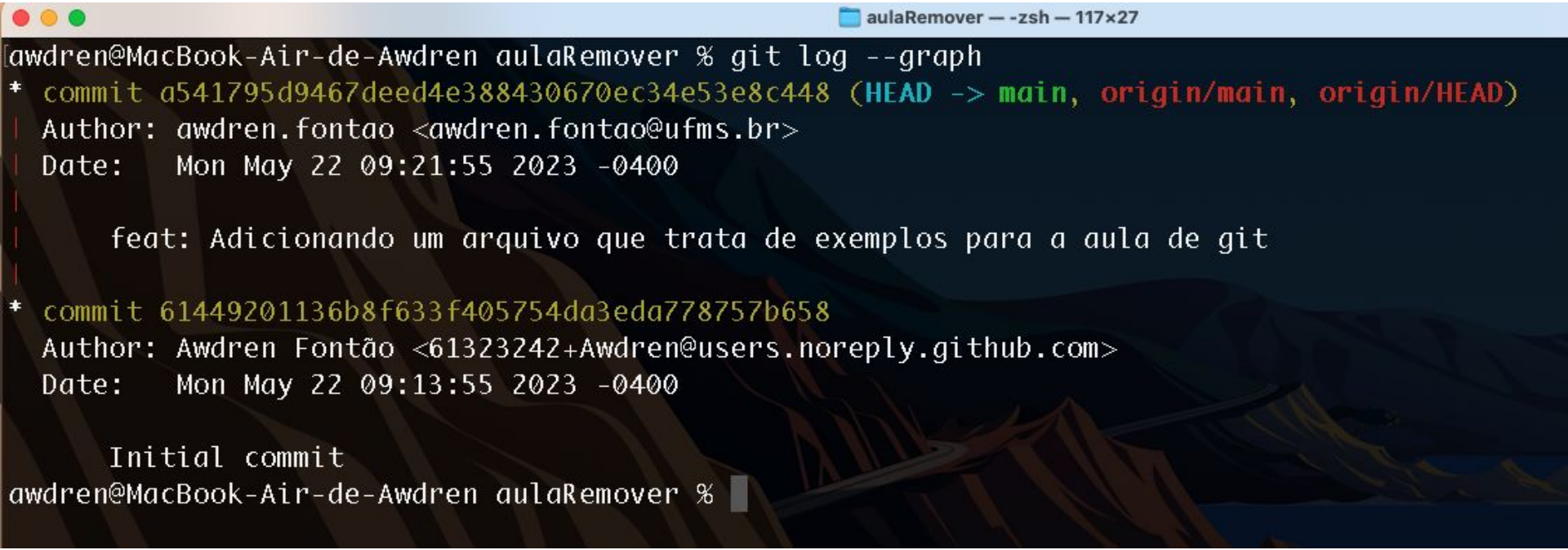
```
awdren@MacBook-Air-de-Awdren aulaRemover % git commit -m "feat: Adicionando um arquivo que trata de exemplos para a a
ula de git"
[main a541795] feat: Adicionando um arquivo que trata de exemplos para a aula de git
 1 file changed, 1 insertion(+)
 create mode 100644 Exemplo.py
awdren@MacBook-Air-de-Awdren aulaRemover %
```

```
awdren@MacBook-Air-de-Awdren aulaRemover % 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
awdren@MacBook-Air-de-Awdren aulaRemover %
```

```
awdren@MacBook-Air-de-Awdren aulaRemover % git push origin master
error: src refspec master does not match any
error: failed to push some refs to 'https://github.com/Awdren/aulaRemover.git'
awdren@MacBook-Air-de-Awdren aulaRemover %
```

```
awdren@MacBook-Air-de-Awdren aulaRemover % git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 341 bytes | 341.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Awdren/aulaRemover.git
   6144920..a541795  main -> main
awdren@MacBook-Air-de-Awdren aulaRemover %
```

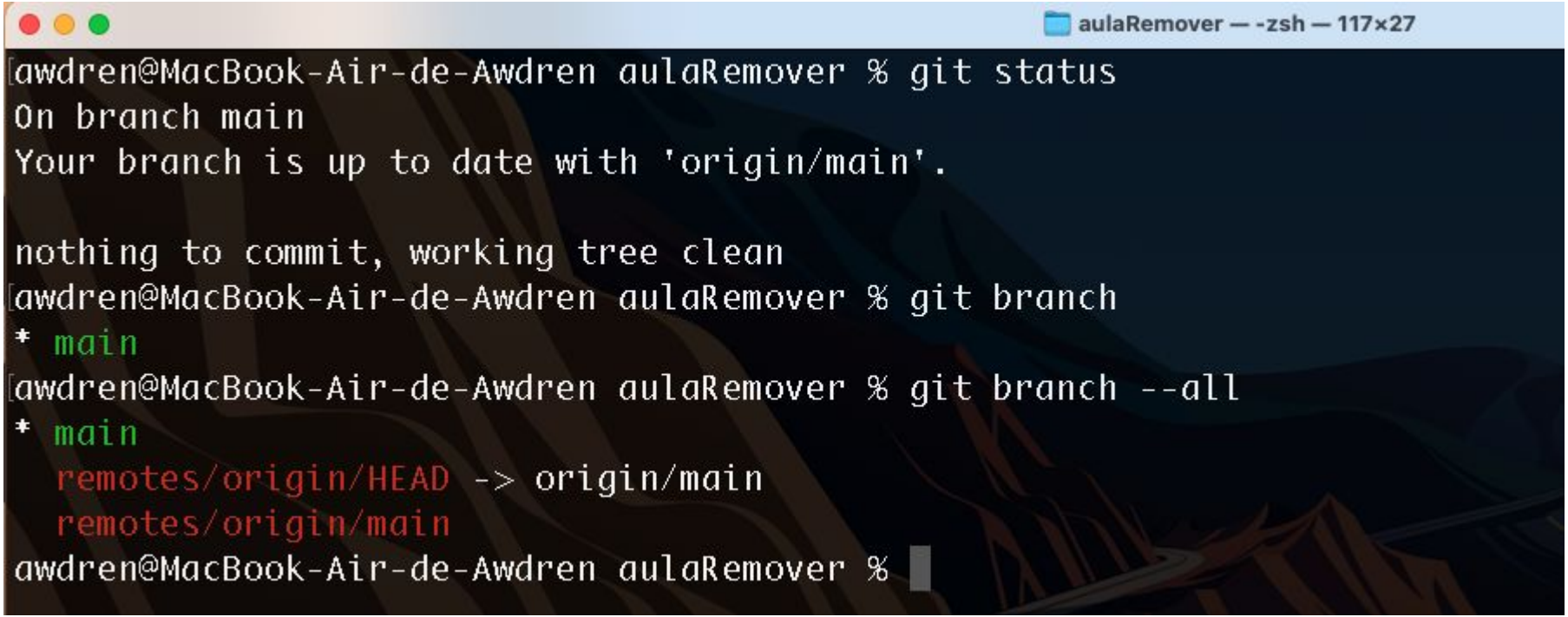
```
awdren@MacBook-Air-de-Awdren aulaRemover % git log
commit a541795d9467deed4e388430670ec34e53e8c448 (HEAD -> main, origin/main, origin/HEAD)
Author: awdren.fontao <awdren.fontao@ufms.br>
Date:   Mon May 22 09:21:55 2023 -0400

    feat: Adicionando um arquivo que trata de exemplos para a aula de git

commit 61449201136b8f633f405754da3eda778757b658
Author: Awdren Fontão <61323242+Awdren@users.noreply.github.com>
Date:   Mon May 22 09:13:55 2023 -0400

    Initial commit
awdren@MacBook-Air-de-Awdren aulaRemover %
```


aulaRemover — -zsh — 117×27
awdren@MacBook-Air-de-Awdren aulaRemover % git log --graph
* commit a541795d9467deed4e388430670ec34e53e8c448 (HEAD -> main, origin/main, origin/HEAD)
| Author: awdren.fontao <awdren.fontao@ufms.br>
| Date: Mon May 22 09:21:55 2023 -0400
|
| feat: Adicionando um arquivo que trata de exemplos para a aula de git
|
* commit 61449201136b8f633f405754da3eda778757b658
  Author: Awdren Fontão <61323242+Awdren@users.noreply.github.com>
  Date: Mon May 22 09:13:55 2023 -0400

      Initial commit
awdren@MacBook-Air-de-Awdren aulaRemover %

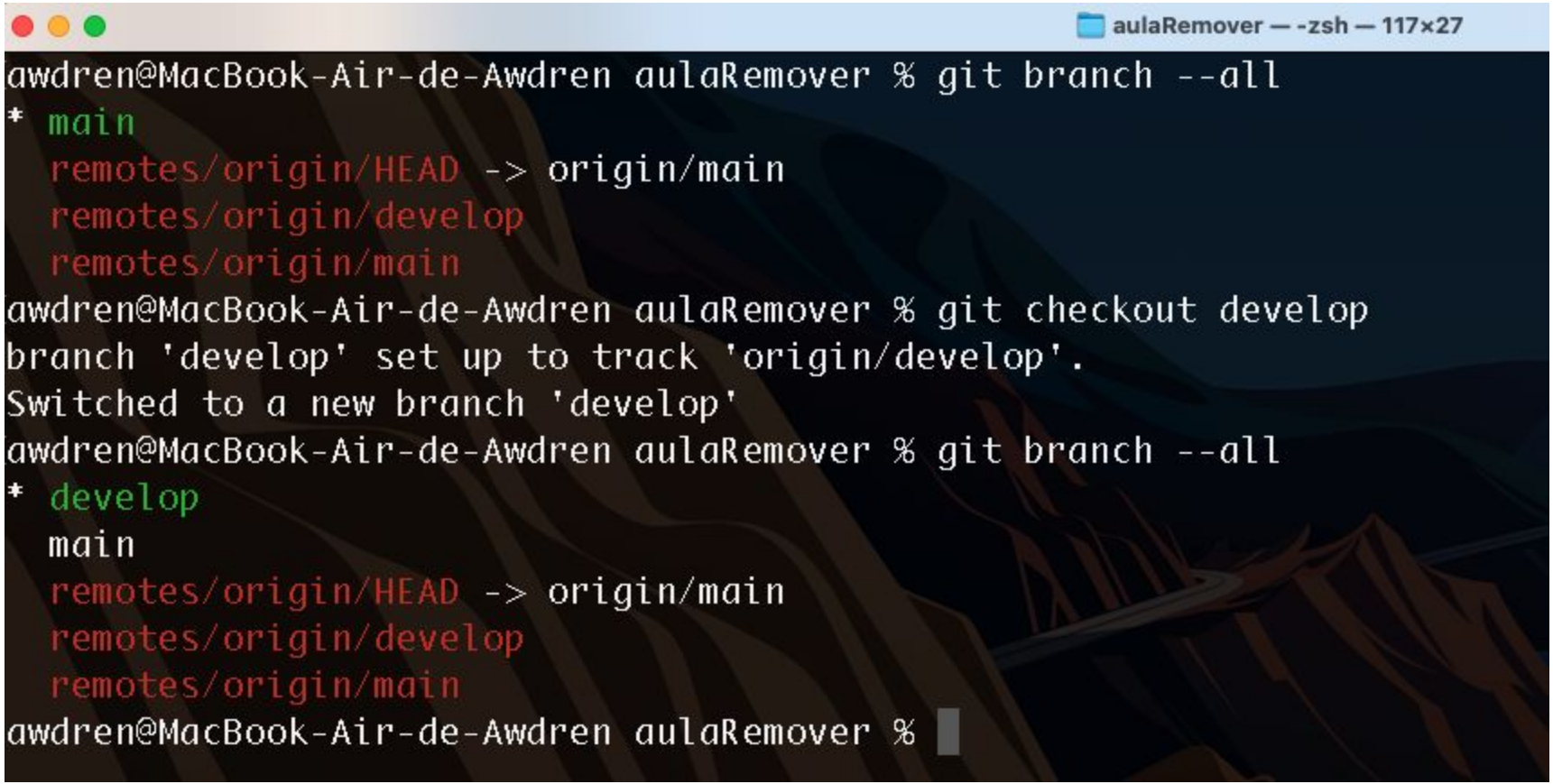
Segundo cenário

Crie uma branch pelo github chamada develop

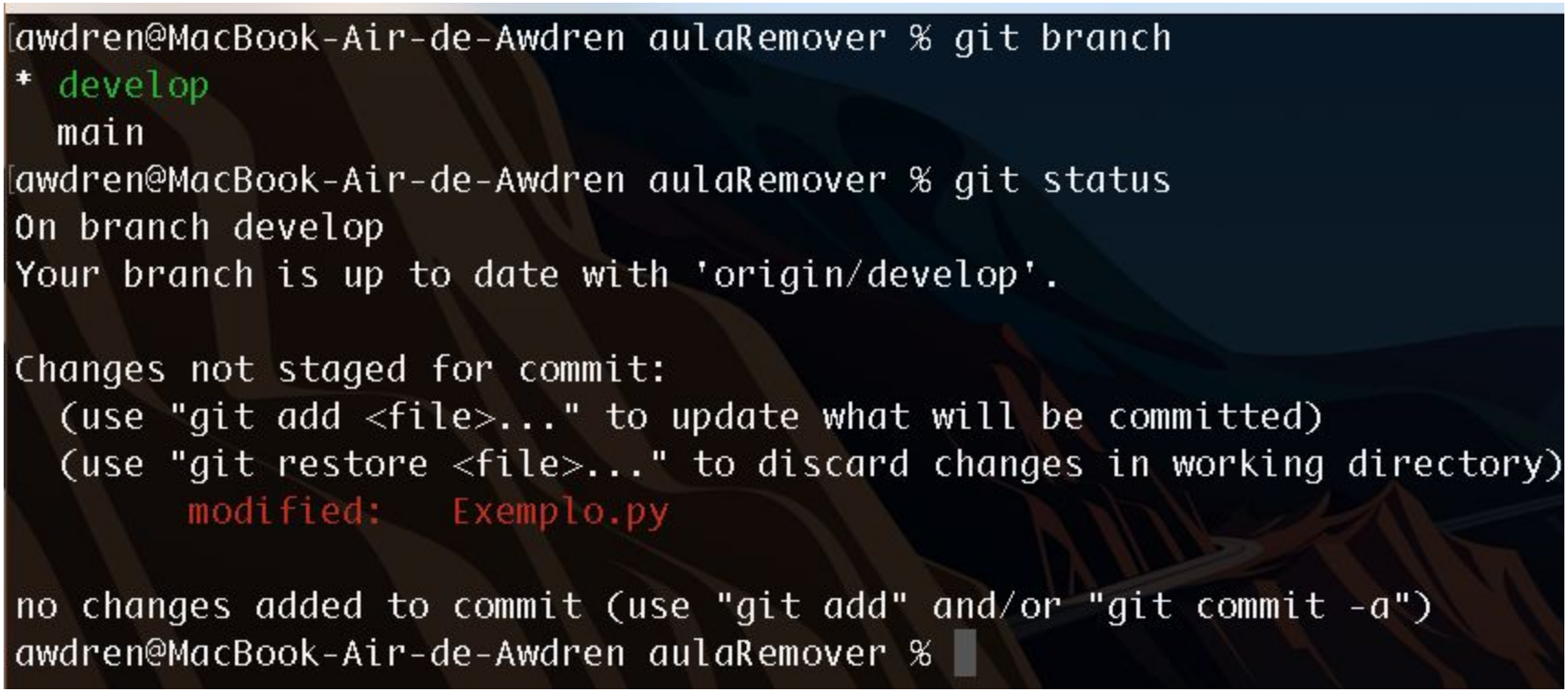


aulaRemover — -zsh — 117×27
awdren@MacBook-Air-de-Awdren aulaRemover % git fetch
From https://github.com/Awdren/aulaRemover
 * [new branch]   develop   -> origin/develop
awdren@MacBook-Air-de-Awdren aulaRemover % git log --graph
* commit a541795d9467deed4e388430670ec34e53e8c448 (HEAD -> main, origin/main, origin/develop, origin/HEAD)
| Author: awdren.fontao <awdren.fontao@ufms.br>
| Date: Mon May 22 09:21:55 2023 -0400
|
| feat: Adicionando um arquivo que trata de exemplos para a aula de git
|
* commit 61449201136b8f633f405754da3eda778757b658
  Author: Awdren Fontão <61323242+Awdren@users.noreply.github.com>
  Date: Mon May 22 09:13:55 2023 -0400

      Initial commit
awdren@MacBook-Air-de-Awdren aulaRemover %

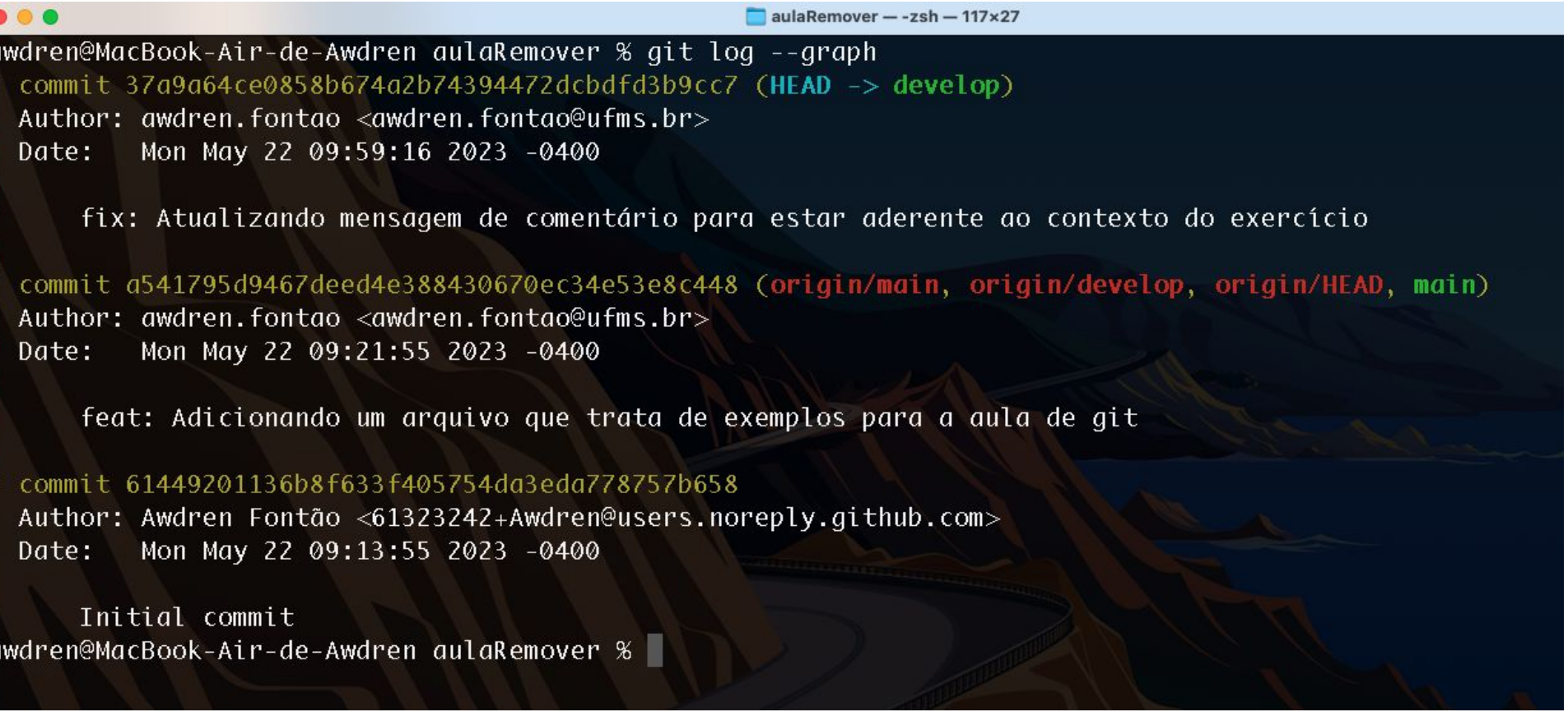

aulaRemover — -zsh — 117×27
awdren@MacBook-Air-de-Awdren aulaRemover % git branch --all
* main
  remotes/origin/HEAD -> origin/main
  remotes/origin/develop
  remotes/origin/main
awdren@MacBook-Air-de-Awdren aulaRemover % git checkout develop
branch 'develop' set up to track 'origin/develop'.
Switched to a new branch 'develop'
awdren@MacBook-Air-de-Awdren aulaRemover % git branch --all
* develop
  main
  remotes/origin/HEAD -> origin/main
  remotes/origin/develop
  remotes/origin/main
awdren@MacBook-Air-de-Awdren aulaRemover %

E se eu realizar um commit agora? Para onde vai?

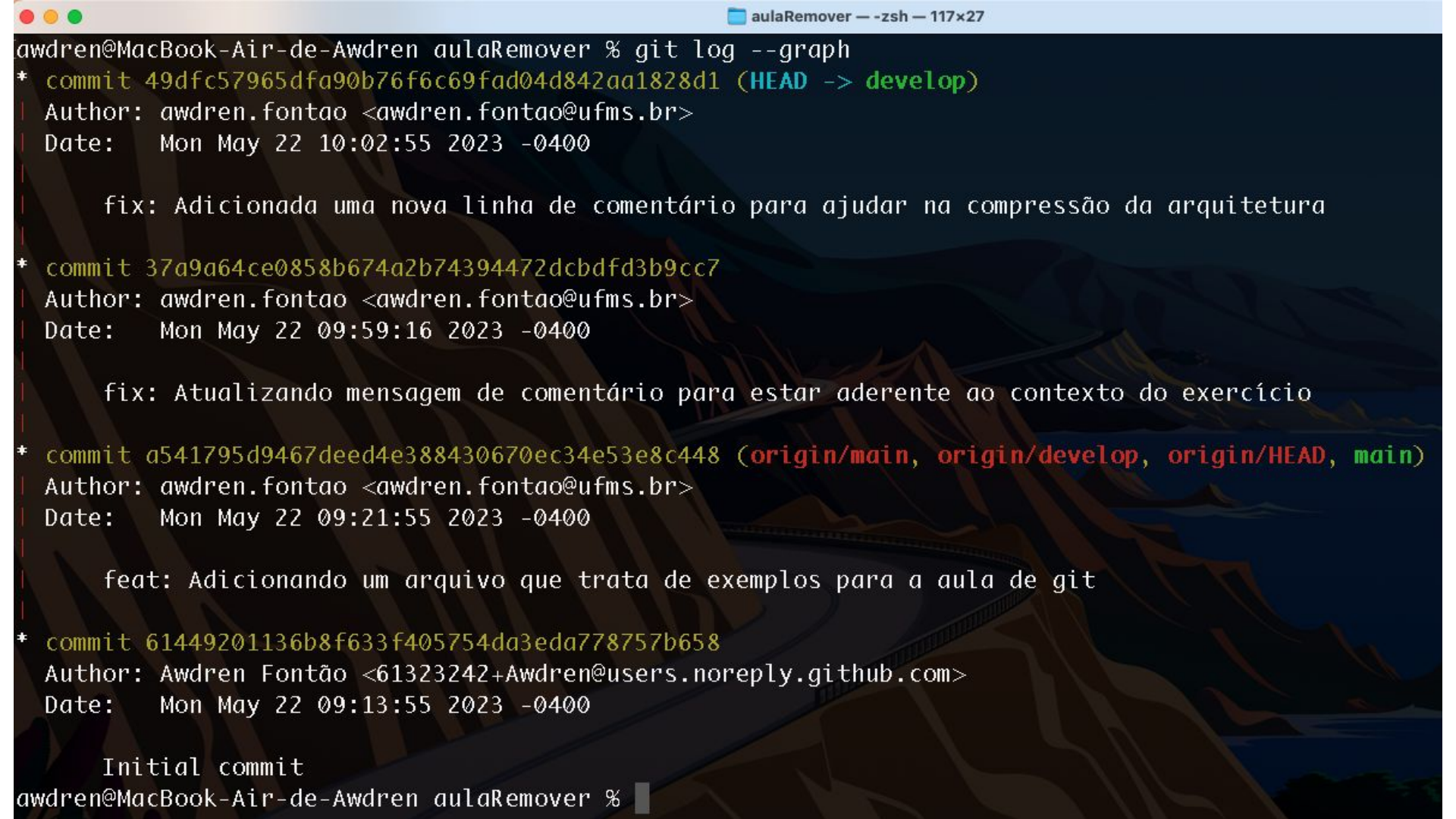

awdren@MacBook-Air-de-Awdren aulaRemover % git branch
* develop
main
awdren@MacBook-Air-de-Awdren aulaRemover % git status
On branch develop
Your branch is up to date with 'origin/develop'.
Changes not staged for commit:
(use "git add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
modified: Exemplo.py
no changes added to commit (use "git add" and/or "git commit -a")
awdren@MacBook-Air-de-Awdren aulaRemover %

```
awdren@MacBook-Air-de-Awdren aulaRemover % git add .
awdren@MacBook-Air-de-Awdren aulaRemover % git commit -m "fix: Atualizando mensagem de comentário para estar aderente
 ao contexto do exercício"
[develop 37a9a64] fix: Atualizando mensagem de comentário para estar aderente ao contexto do exercício
 1 file changed, 1 insertion(+), 1 deletion(-)
awdren@MacBook-Air-de-Awdren aulaRemover %
```

Neste caso, minhas alterações já estão no remoto?

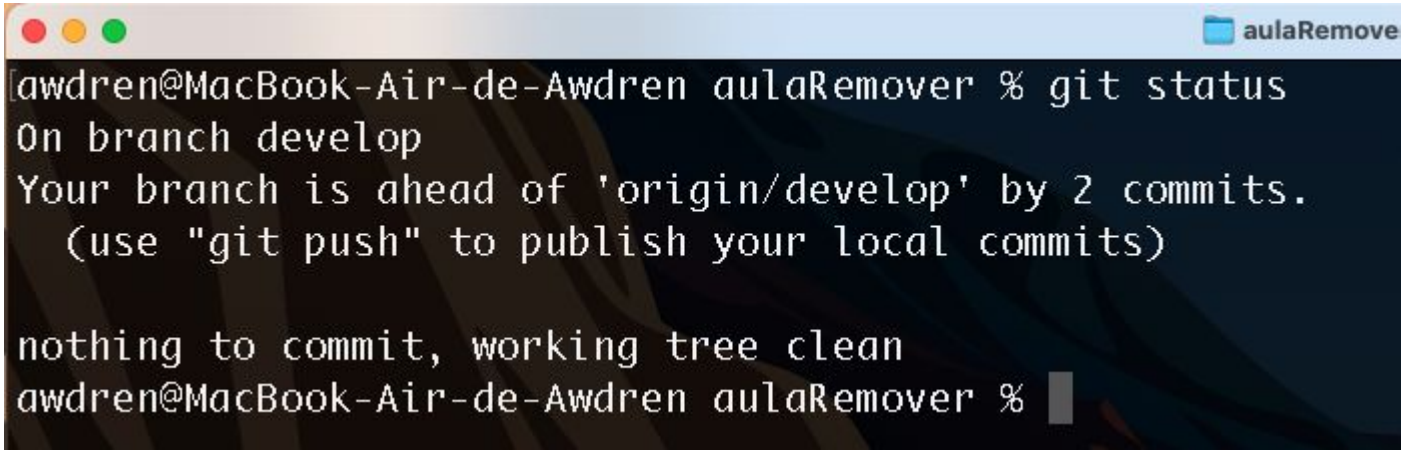


awdren@MacBook-Air-de-Awdren aulaRemover % git status
On branch develop
Your branch is ahead of 'origin/develop' by 1 commit.
(use "git push" to publish your local commits)
Changes not staged for commit:
(use "git add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
modified: Exemplo.py
no changes added to commit (use "git add" and/or "git commit -a")

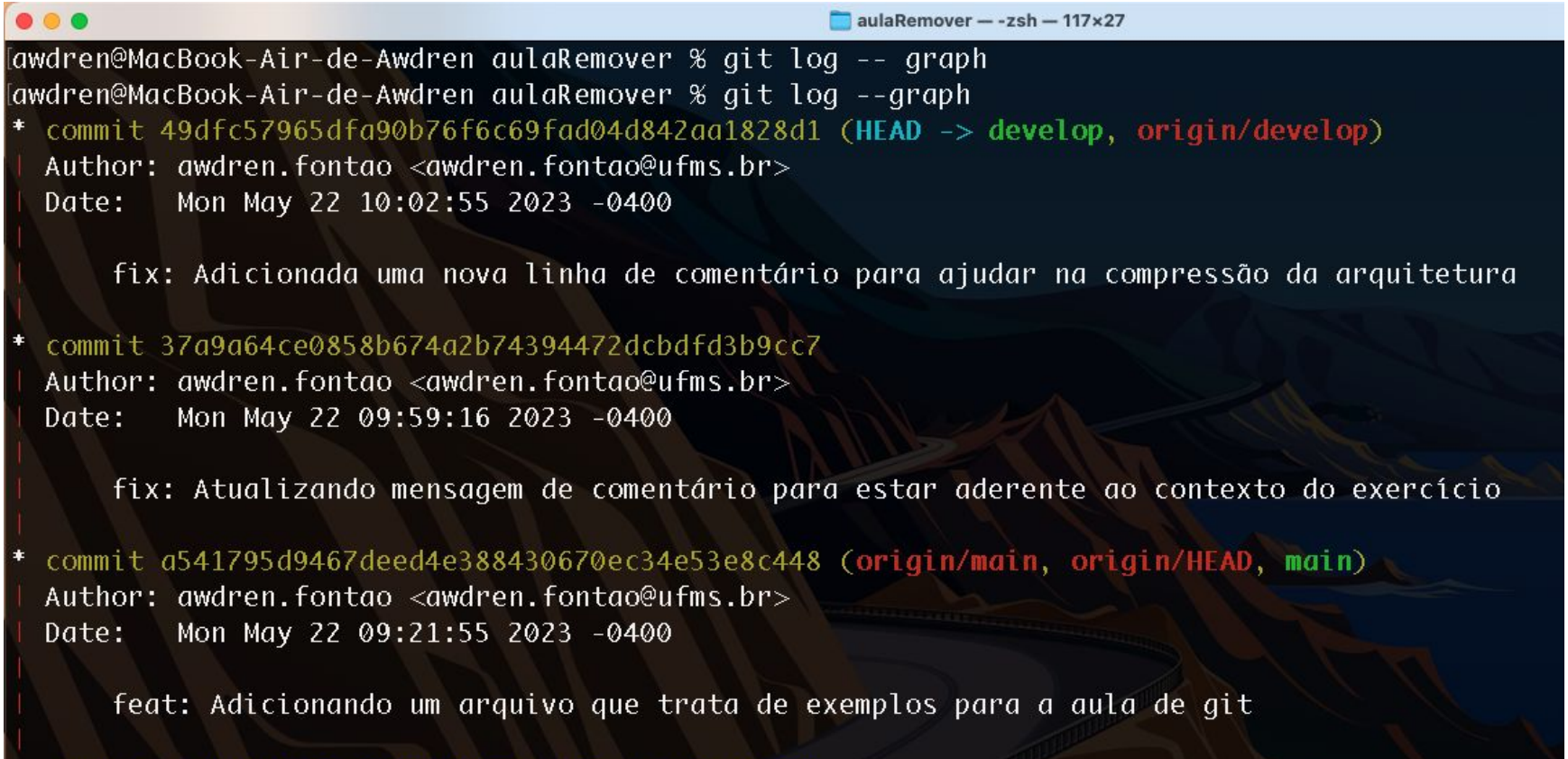

aulaRemover — -zsh — 117×27
awdren@MacBook-Air-de-Awdren aulaRemover % git log --graph
* commit 49dfc57965dfa90b76f6c69fad04d842aa1828d1 (HEAD -> develop)
| Author: awdren.fontao <awdren.fontao@ufms.br>
| Date: Mon May 22 10:02:55 2023 -0400
|
| fix: Adicionada uma nova linha de comentário para ajudar na compressão da arquitetura
|
* commit 37a9a64ce0858b674a2b74394472dcbdfd3b9cc7
| Author: awdren.fontao <awdren.fontao@ufms.br>
| Date: Mon May 22 09:59:16 2023 -0400
|
| fix: Atualizando mensagem de comentário para estar aderente ao contexto do exercício
|
* commit a541795d9467deed4e388430670ec34e53e8c448 (origin/main, origin/develop, origin/HEAD, main)
| Author: awdren.fontao <awdren.fontao@ufms.br>
| Date: Mon May 22 09:21:55 2023 -0400
|
| feat: Adicionando um arquivo que trata de exemplos para a aula de git
|
* commit 61449201136b8f633f405754da3eda778757b658
  Author: Awdren Fontão <61323242+Awdren@users.noreply.github.com>
  Date: Mon May 22 09:13:55 2023 -0400

      Initial commit
awdren@MacBook-Air-de-Awdren aulaRemover %

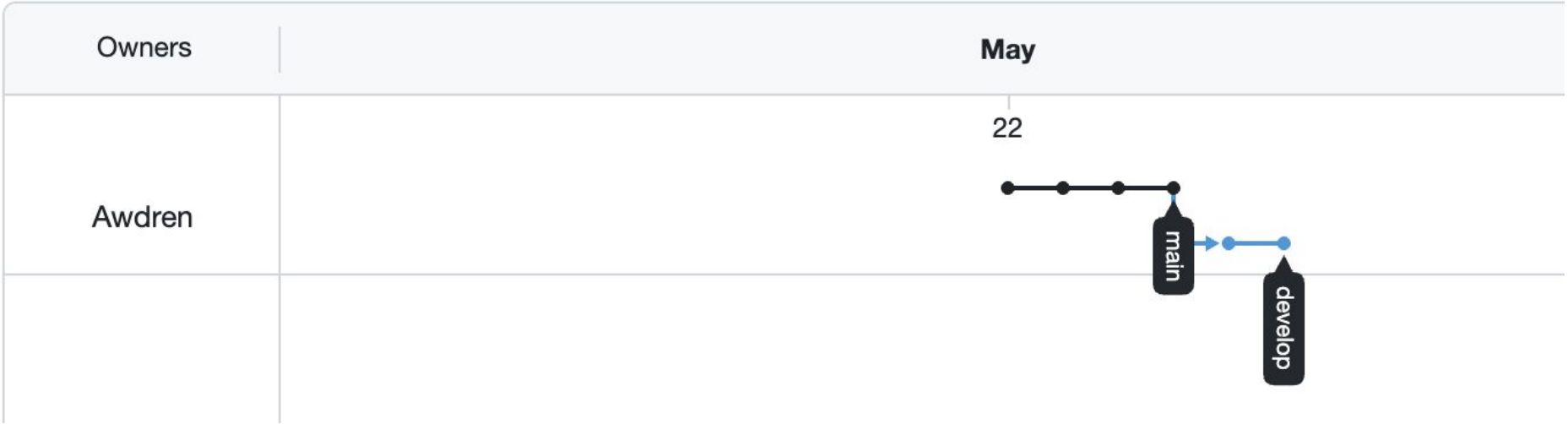
O que isso representa em um formato de grafo ?



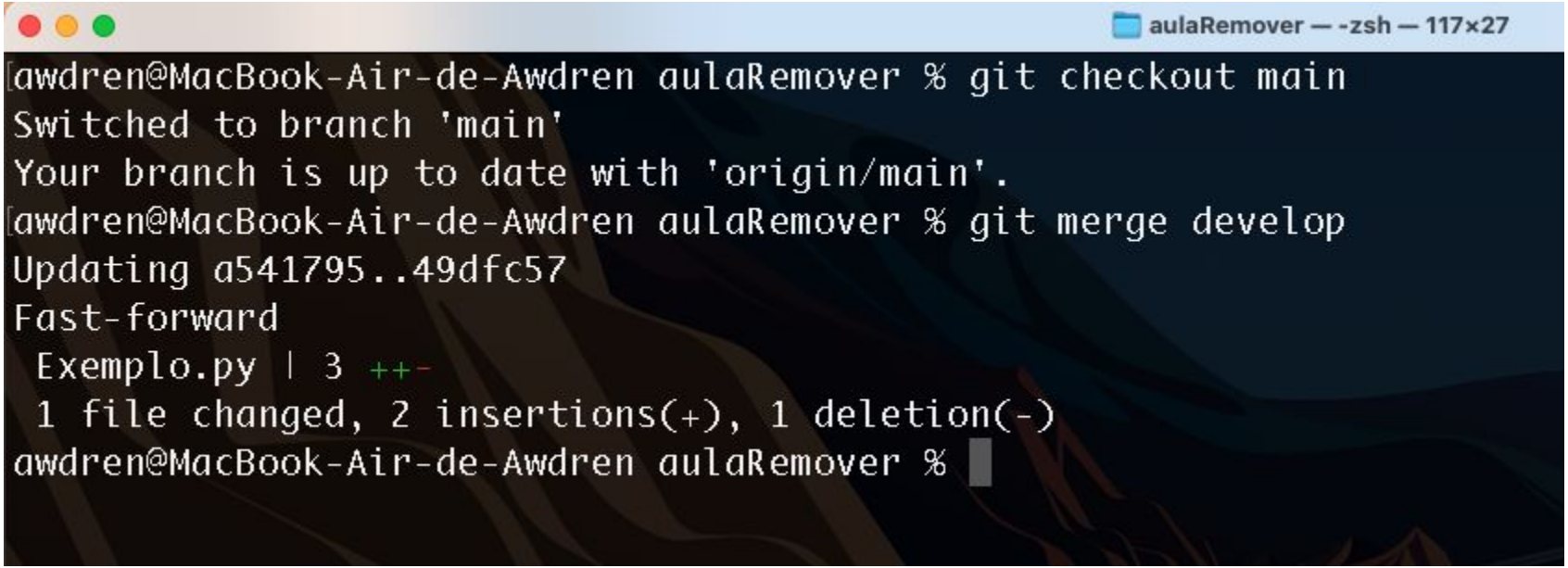
Agora minhas alterações estão no remoto? Onde?



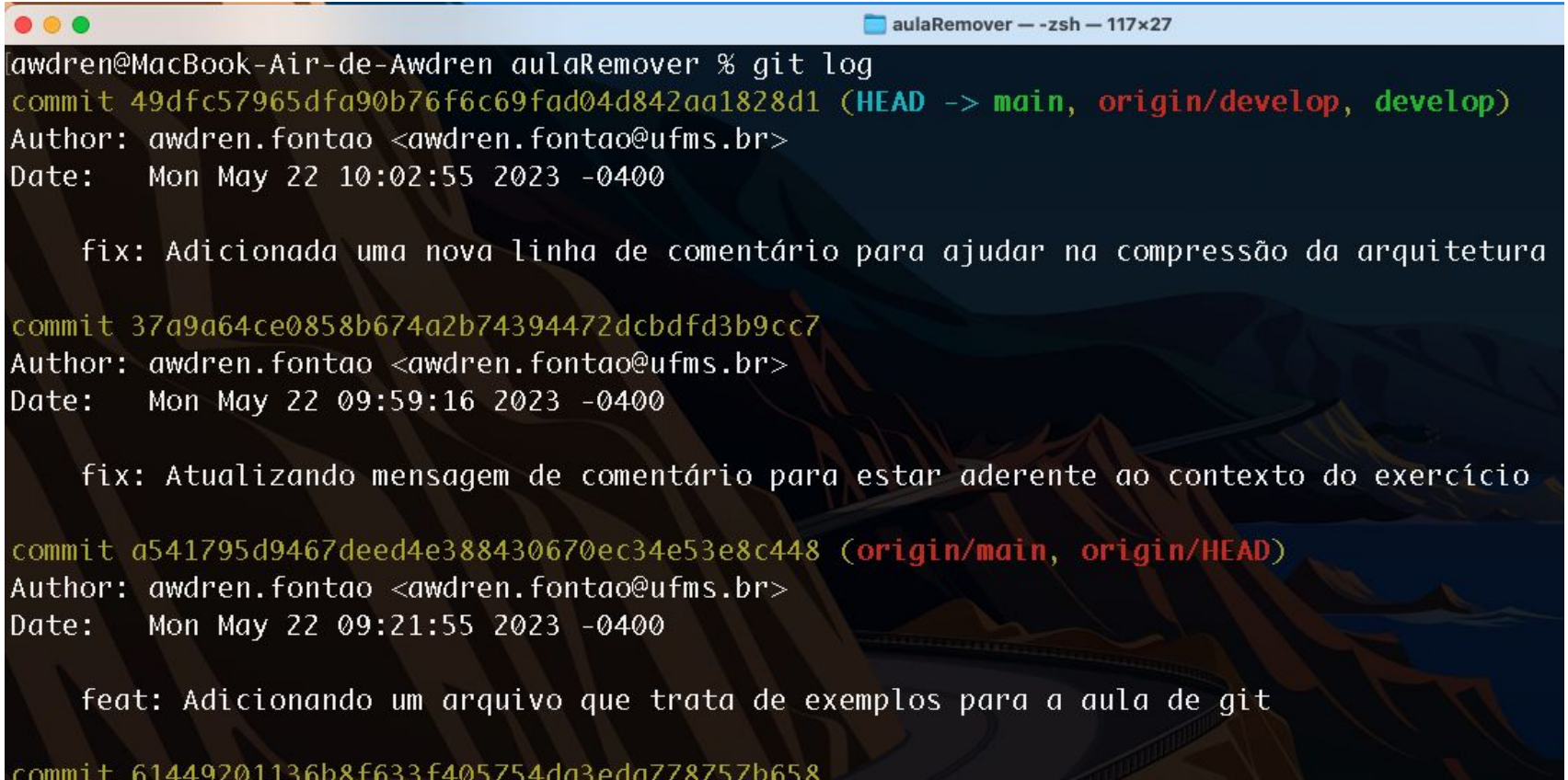
Timeline of the most recent commits to this repository and its network ordered by most recently pushed t

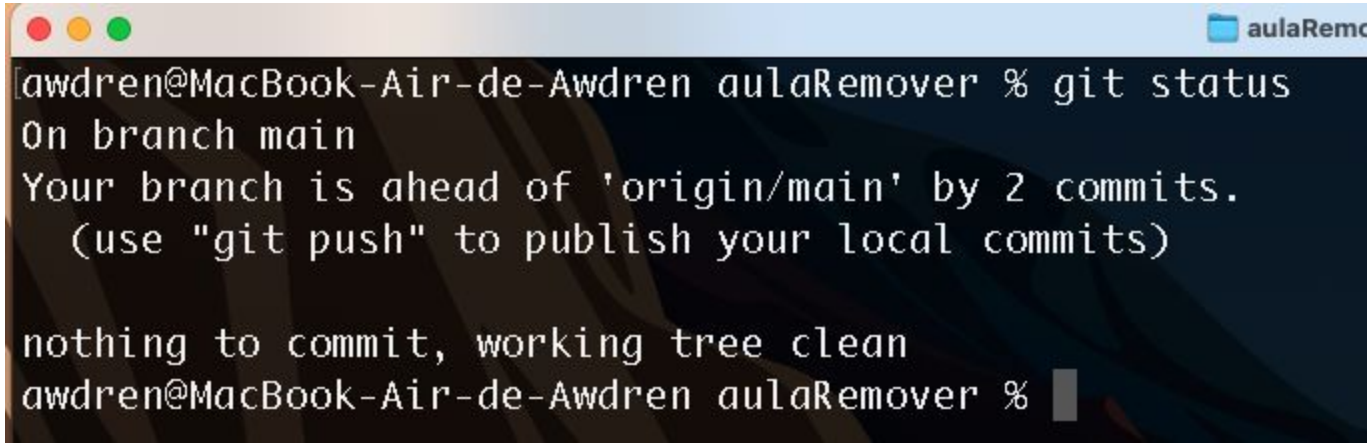


E o merge?


aulaRemover — -zsh — 117×27
awdren@MacBook-Air-de-Awdren aulaRemover % git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
awdren@MacBook-Air-de-Awdren aulaRemover % git merge develop
Updating a541795..49dfc57
Fast-forward
 Exemplo.py | 3 ++-
 1 file changed, 2 insertions(+), 1 deletion(-)
awdren@MacBook-Air-de-Awdren aulaRemover %

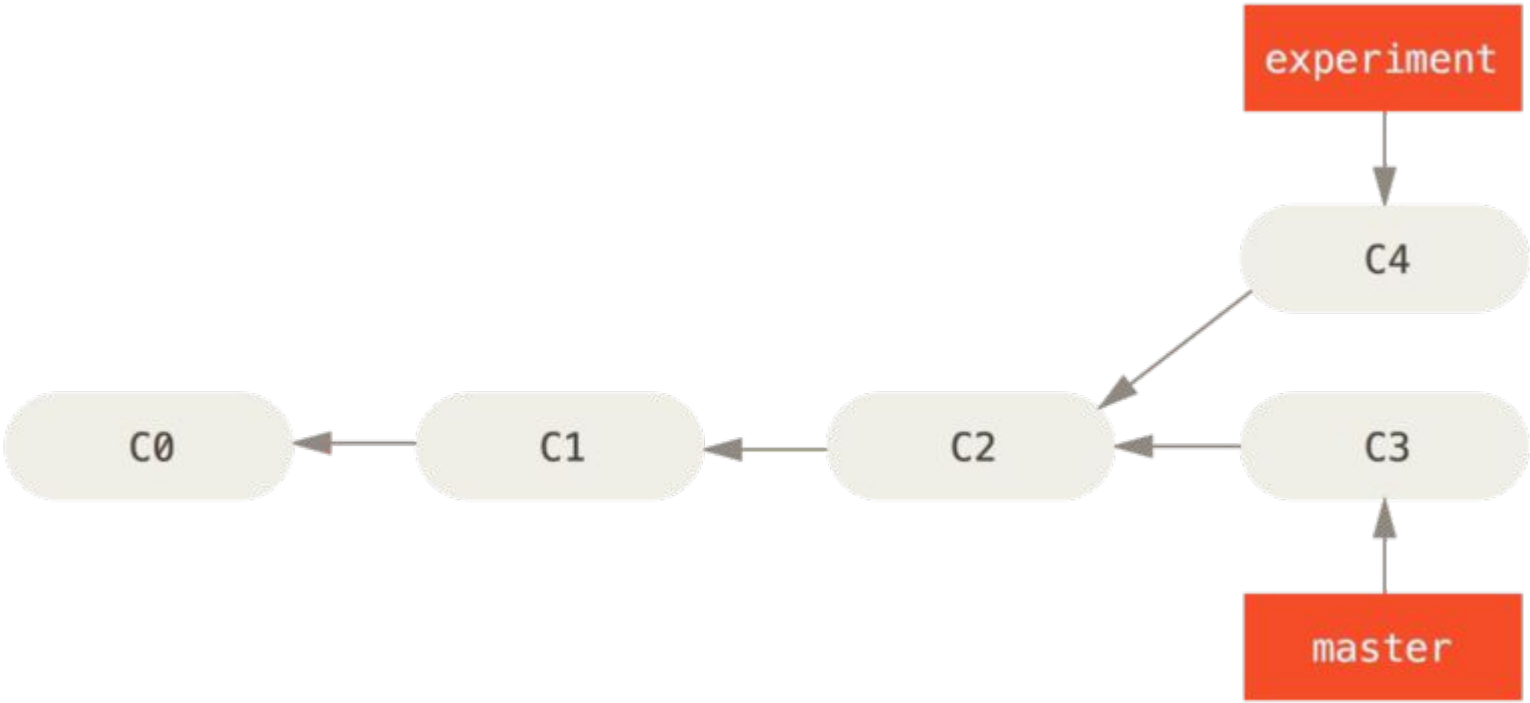
Minha mesclagem já está no remoto?



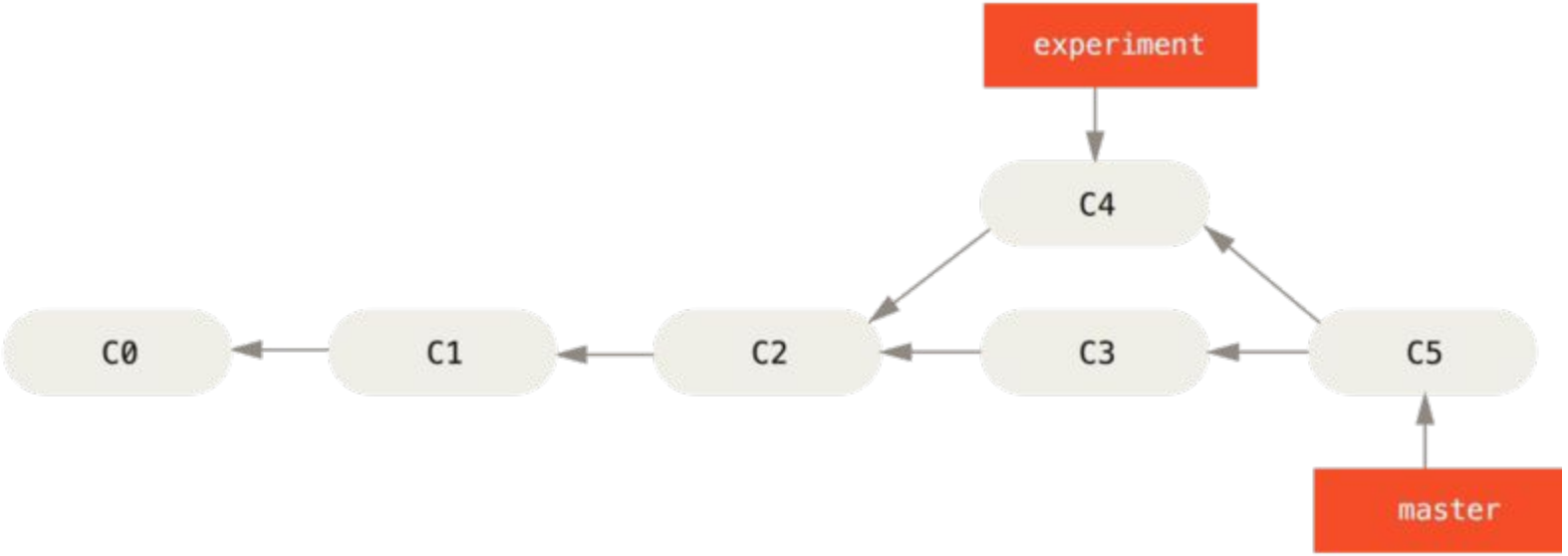

aulaRemo
awdren@MacBook-Air-de-Awdren aulaRemover % git status
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
(use "git push" to publish your local commits)
nothing to commit, working tree clean
awdren@MacBook-Air-de-Awdren aulaRemover %

```
awdren@MacBook-Air-de-Awdren aulaRemover % git log --graph
* commit 49dfc57965dfa90b76f6c69fad04d842aa1828d1 (HEAD -> main, origin/main, origin/develop, origin/HEAD, develop)
| Author: awdren.fontao <awdren.fontao@ufms.br>
| Date:   Mon May 22 10:02:55 2023 -0400
|
|     fix: Adicionada uma nova linha de comentário para ajudar na compressão da arquitetura
|
* commit 37a9a64ce0858b674a2b74394472dcbdfd3b9cc7
| Author: awdren.fontao <awdren.fontao@ufms.br>
| Date:   Mon May 22 09:59:16 2023 -0400
|
|     fix: Atualizando mensagem de comentário para estar aderente ao contexto do exercício
|
* commit a541795d9467deed4e388430670ec34e53e8c448
| Author: awdren.fontao <awdren.fontao@ufms.br>
```

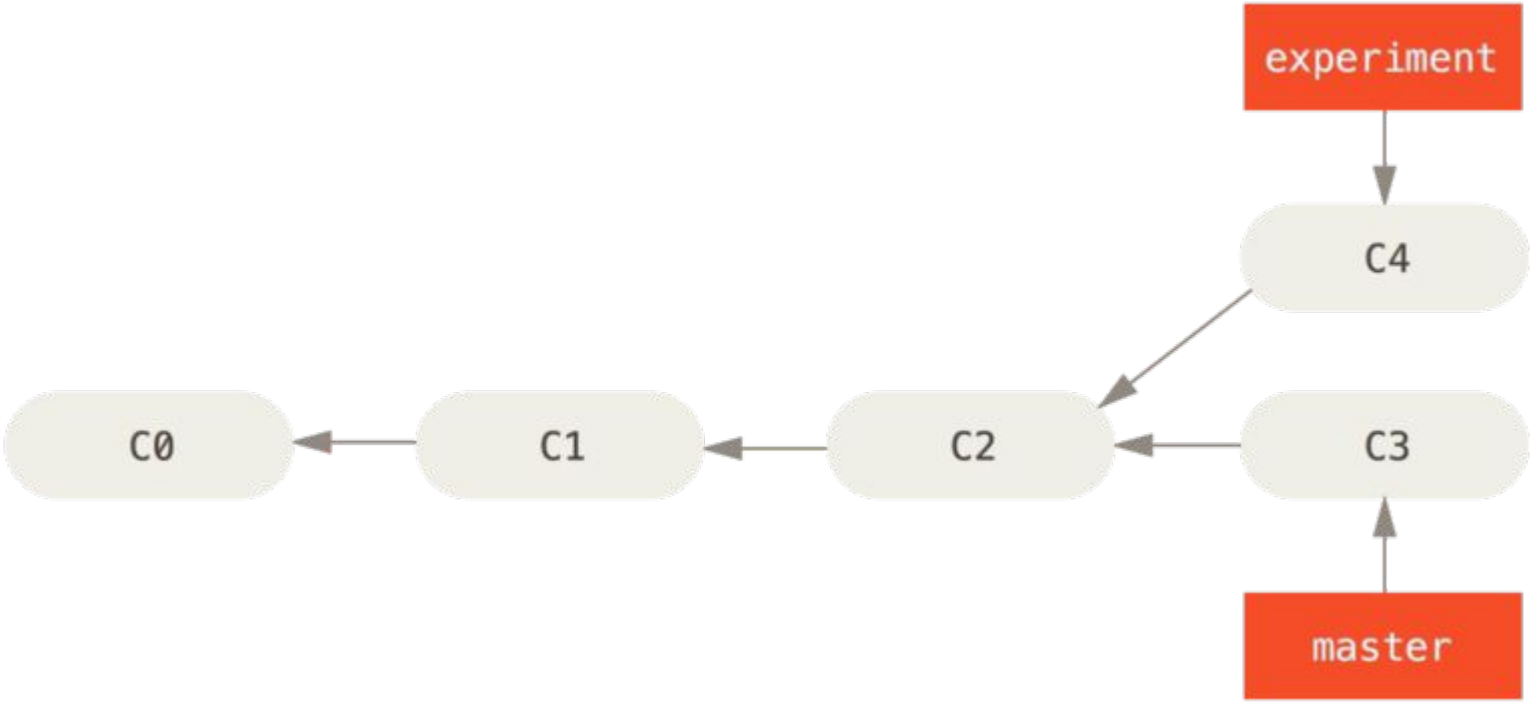
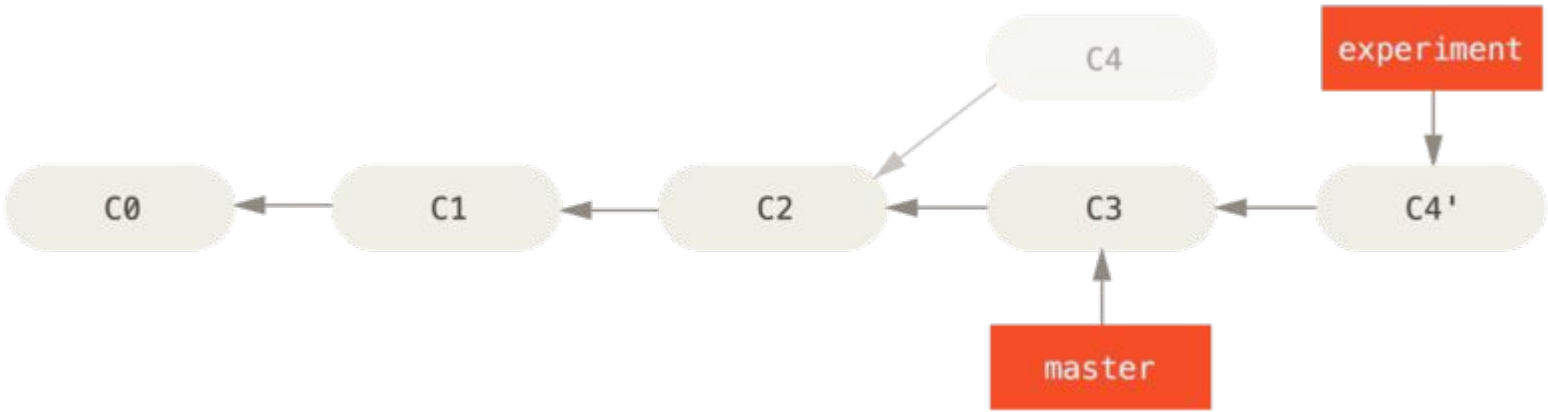
Merge e Rebase



Resultado do merge, com um commit adicional



E o rebase



```
$ git checkout experiment
$ git rebase master
First, rewinding head to replay your work on top of it...
Applying: added staged command
```