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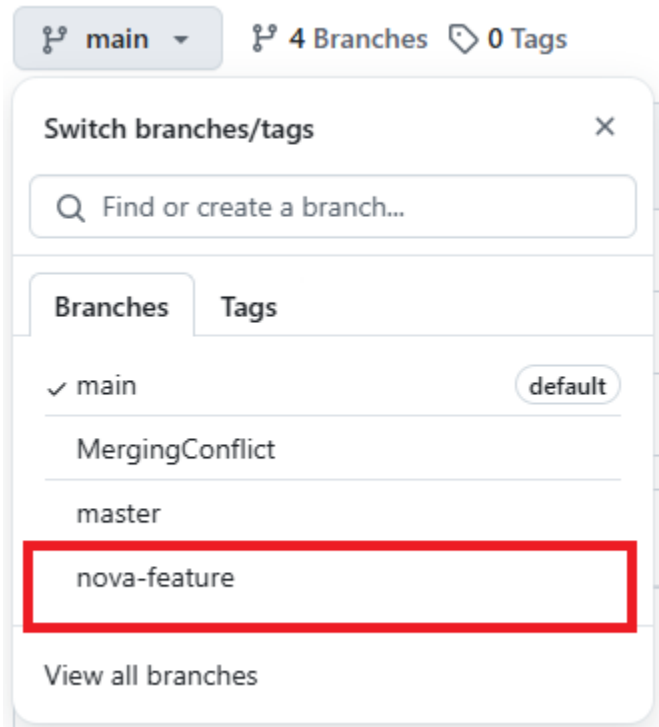
Objetivos

Parte 2: Controle de Versão e Colaboração (opcional)

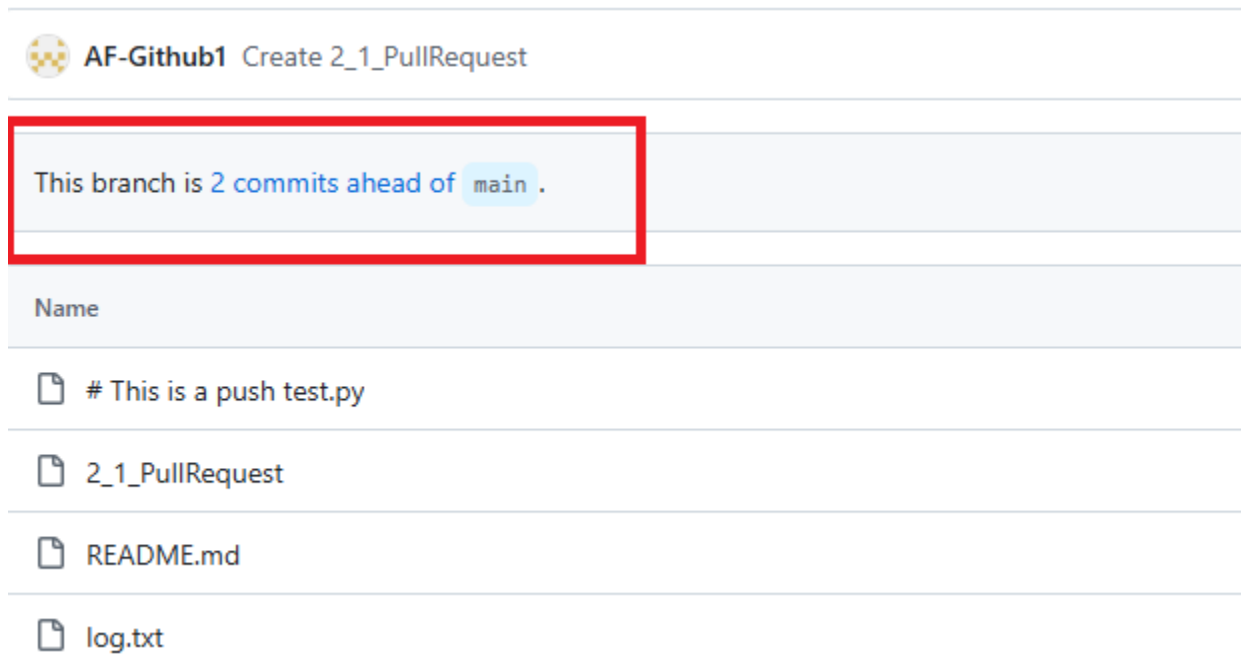
2.1 Criando e mesclando um Pull Request

- Criar um Pull Request no GitHub para mesclar nova-feature em main.
- Aceitar e fazer o merge.

1 - Abrir o branch nova-feature



2- Depois de realizar alguma alteração no branch (Neste caso adicionei o ficheiro 2_1_PullRequest) e fazer commit desta alteração, seleccionar o aviso que indica que o branch está mais avançado que o main branch



AF-Github1 Create 2_1_PullRequest

This branch is 2 commits ahead of main .

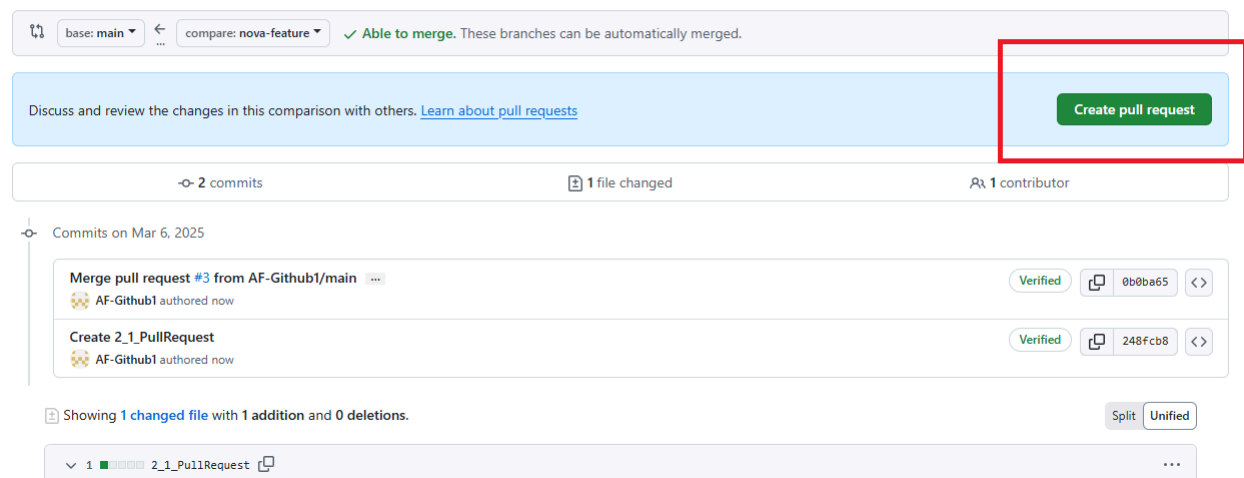
Name

- # This is a push test.py
- 2_1_PullRequest
- README.md
- log.txt

3 - Selecionar a opção de “Create Pull Request”

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#) or [learn more about diff comparisons](#).



base: main ← compare: nova-feature ✓ Able to merge. These branches can be automatically merged.

Discuss and review the changes in this comparison with others. [Learn about pull requests](#)

Create pull request

2 commits 1 file changed 1 contributor

Commits on Mar 6, 2025

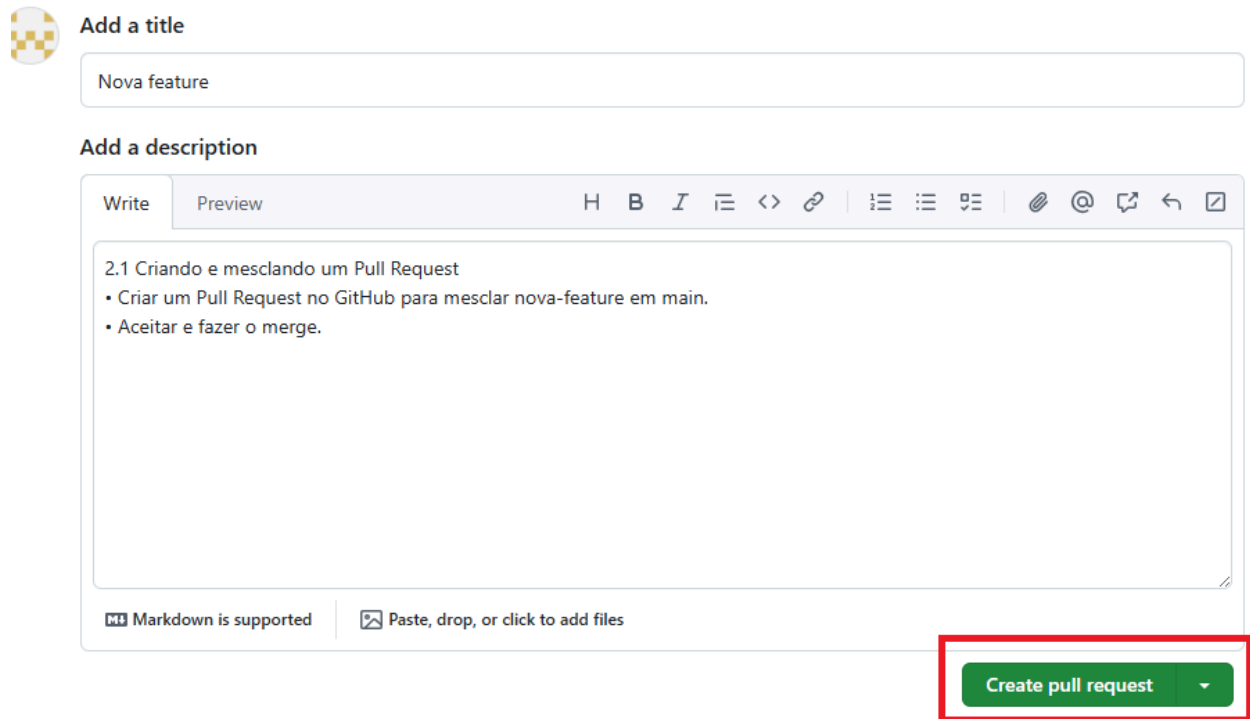
- Merge pull request #3 from AF-Github1/main
AF-Github1 authored now
- Create 2_1_PullRequest
AF-Github1 authored now

Showing 1 changed file with 1 addition and 0 deletions.

Split Unified

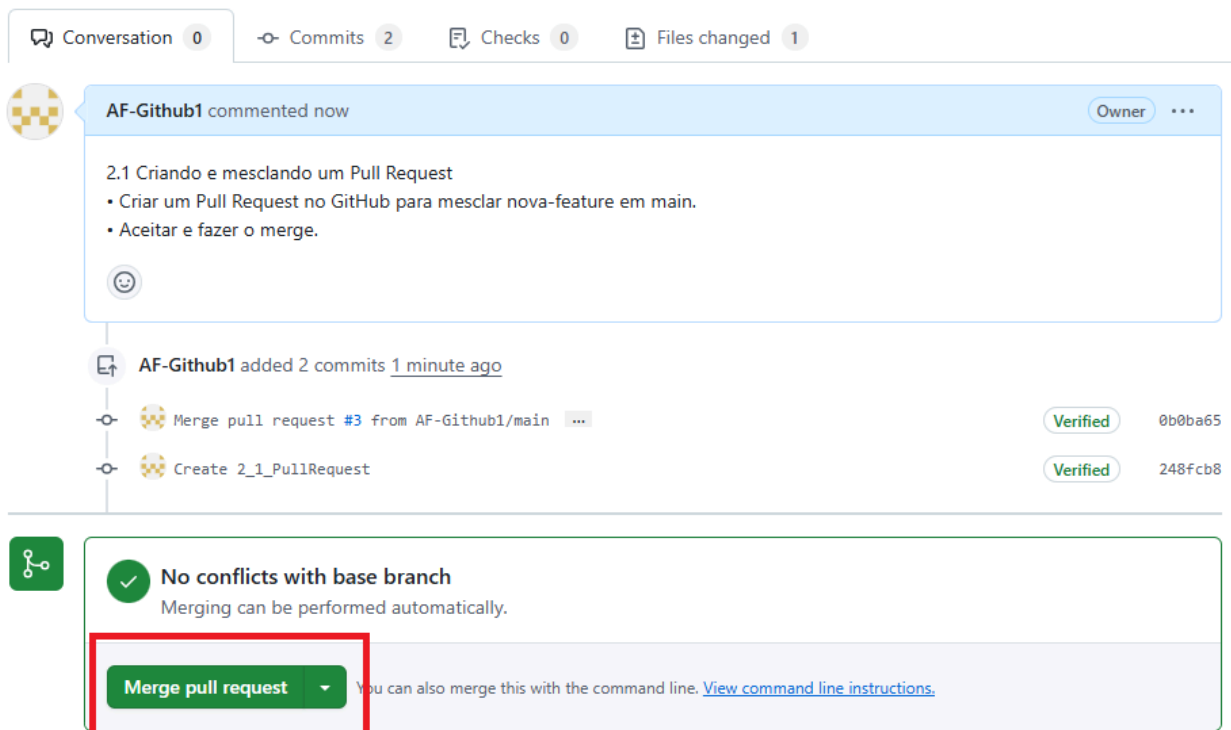
1 2_1_PullRequest

4- Depois de adicionar um título e uma descrição, selecionar **“Create Pull Request”**



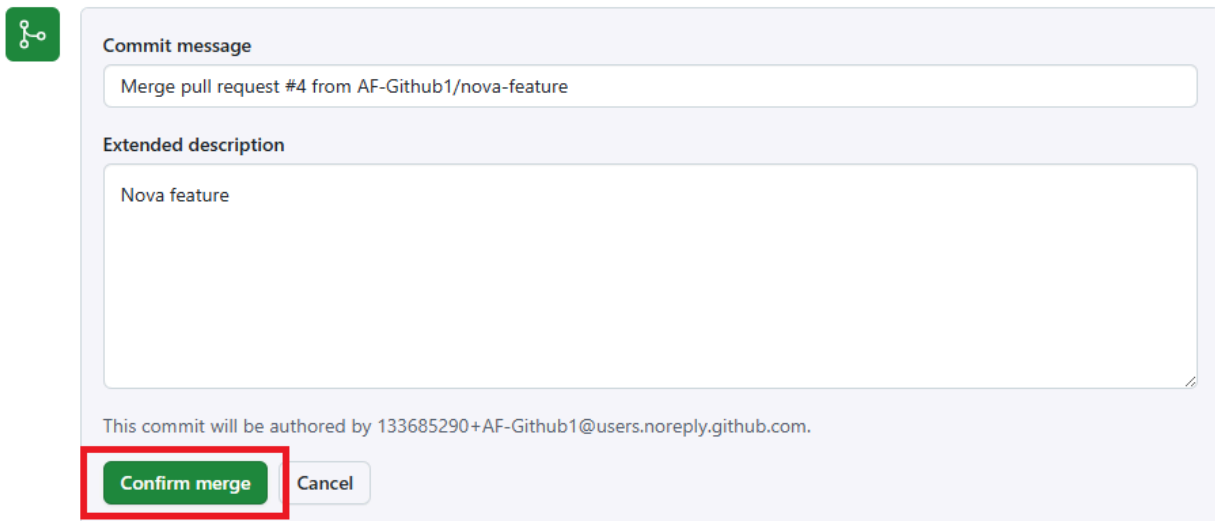
The screenshot shows the GitHub interface for creating a pull request. At the top, there's a section 'Add a title' with a text input field containing 'Nova feature'. Below it is the 'Add a description' section, which has a rich text editor with tabs for 'Write' and 'Preview'. The 'Write' tab is active, showing a title '2.1 Criando e mesclando um Pull Request' and two bullet points: 'Criar um Pull Request no GitHub para mesclar nova-feature em main.' and 'Aceitar e fazer o merge.' Below the editor, there are two checkboxes: 'Markdown is supported' (checked) and 'Paste, drop, or click to add files'. At the bottom right, there is a green button labeled 'Create pull request' with a dropdown arrow, which is highlighted with a red rectangle.

5 - Neste caso não existem conflitos, logo pode-se selecionar **“Merge Pull Request”** imediatamente



The screenshot shows the GitHub pull request page. At the top, there's a navigation bar with tabs: 'Conversation' (0), 'Commits' (2), 'Checks' (0), and 'Files changed' (1). Below the navigation bar, there's a comment from 'AF-Github1' with the same title and description as in the previous screenshot. Below the comment, there's a section 'AF-Github1 added 2 commits 1 minute ago' with two commits: 'Merge pull request #3 from AF-Github1/main' and 'Create 2_1_PullRequest', both marked as 'Verified'. At the bottom, there's a green box with a checkmark icon and the text 'No conflicts with base branch' and 'Merging can be performed automatically.' Below this, there is a green button labeled 'Merge pull request' with a dropdown arrow, which is highlighted with a red rectangle.

6- O ficheiro pedirá para adicionar uma descrição e pedirá para confirmar o merge. Selecionar **“Confirm Merge”** para terminar o processo



Commit message

Merge pull request #4 from AF-Github1/nova-feature

Extended description

Nova feature

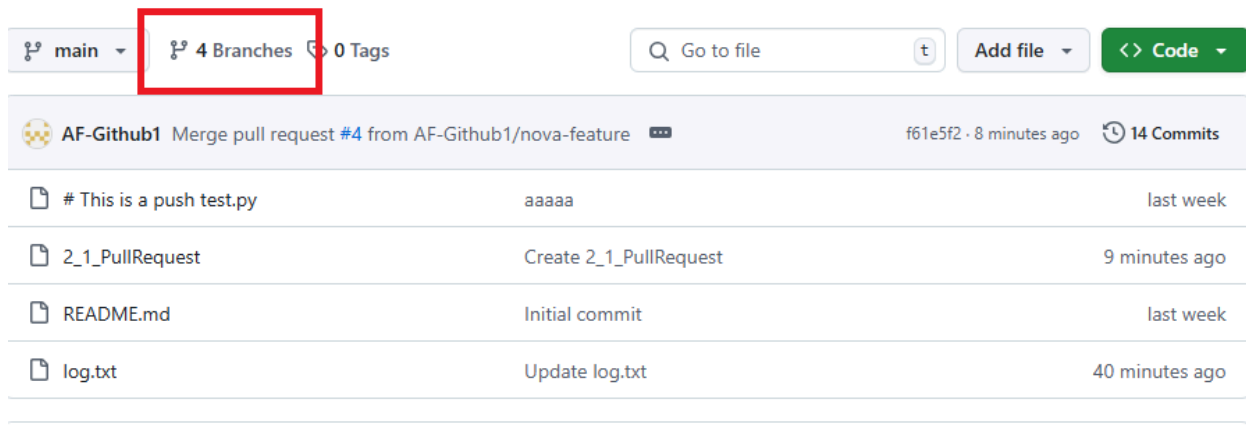
This commit will be authored by 133685290+AF-Github1@users.noreply.github.com.

Confirm merge Cancel

2.2 Resolvendo conflitos de merge

- Criar um novo branch e editar log.txt.
- Fazer o mesmo no main e tentar mesclar.

1 - Seleciono Branches no main branch



main 4 Branches 0 Tags

Go to file t Add file <> Code

AF-Github1 Merge pull request #4 from AF-Github1/nova-feature f61e5f2 · 8 minutes ago 14 Commits

# This is a push test.py	aaaaa	last week
2_1_PullRequest	Create 2_1_PullRequest	9 minutes ago
README.md	Initial commit	last week
log.txt	Update log.txt	40 minutes ago

2 - Crio outro branch manualmente

Branches

New branch

OverviewYoursActiveStaleAll

Q Search branches...

Default


Branch	Updated	Check status	Behind	Ahead	Pull request
main	8 minutes ago			Default	


Your branches

Branch	Updated	Check status	Behind	Ahead	Pull request
nova-feature	9 minutes ago		1	0	#4
MergingConflict	36 minutes ago		3	3	#2

3 - Depois de alterar o log.txt file em ambos o main branch e o novo branch, repete-se o processo de forma a fazer um pull request. Contudo quando se chegar ao ponto de fazer merge, terá ocorrido um conflito.

Selecionar “**Resolve conflicts**”



 This branch has conflicts that must be resolved


Use the [web editor](#) or the command line to resolve conflicts before continuing.

log.txt

Resolve conflicts

Merge pull request

You can also merge this with the command line. [View command line instructions.](#)

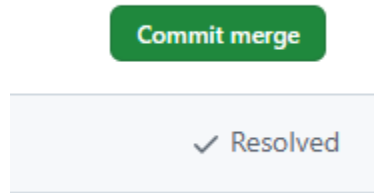


Add a comment

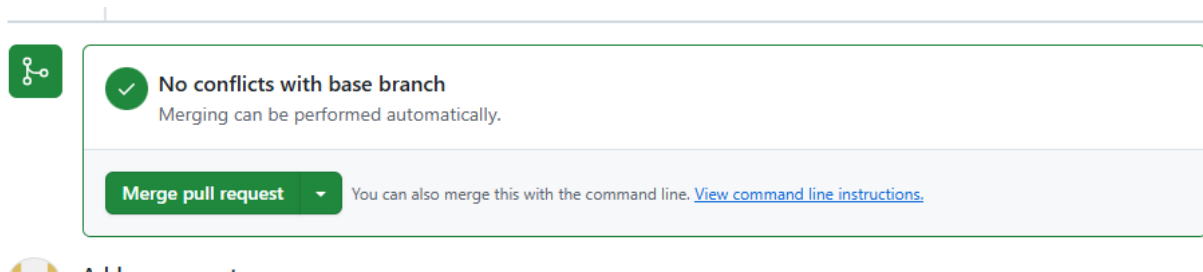
4- A parte a ser alterada no texto estará marcada. Fazer as alterações necessárias e retirar os marcadores <<<<<< ===== e >>>>>> de forma a indicar que será esta a versão final.

```
28
29 <<<<<< 2_2_MergingConflictBranch
30 # Second time doing a change in order to create a merging conflict
31 # This is a main branch log.txt change (2.2 Resolvendo conflitos de merge)
32 # Another message to creat confusion
33 =====
34 # This is a main branch log.txt change (2.2 Resolvendo conflitos de merge)#
35 #####
36 >>>>>> main
37
```

5 - No canto superior direito pressionar **“Commit merge”**



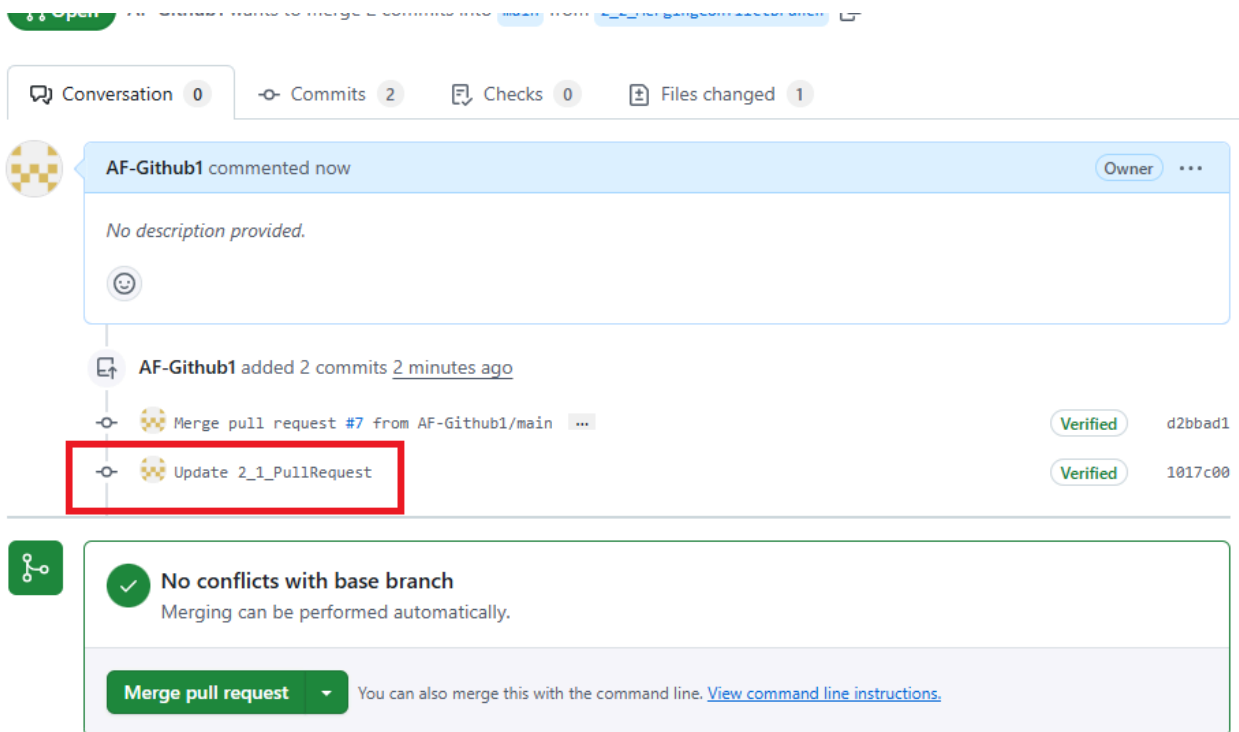
6 - Voltando ao Pull Request, a opção de fazer Merge pull request estará agora disponível, podendo-se assim completar a Pull Request



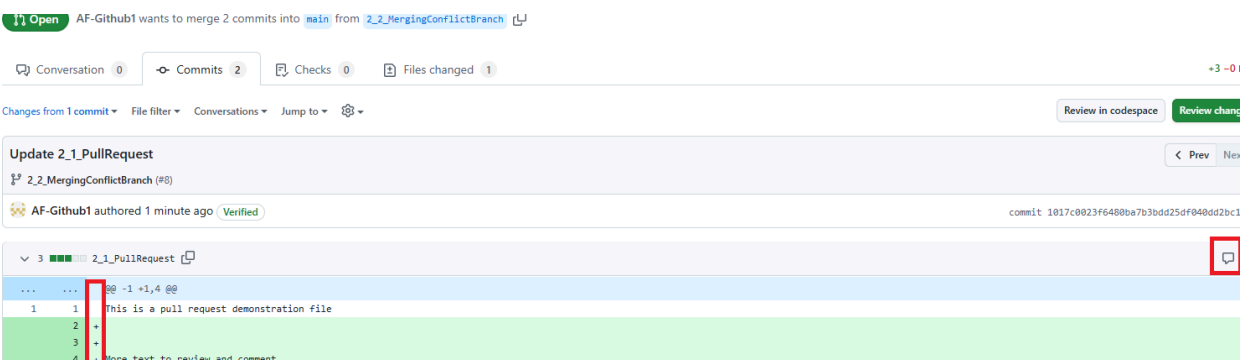
2.3 Fazendo revisão de código no GitHub

- Criar um Pull Request e solicitar um Code Review.
- Comentar uma linha do código e sugerir mudanças

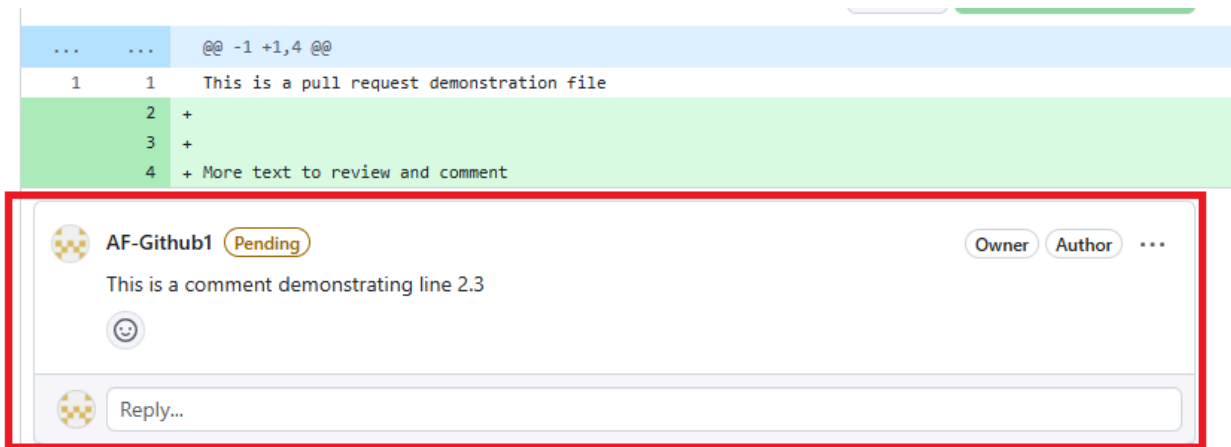
1 - Depois de realizar um pull request eu posso seleccionar um dos ficheiros actualizados



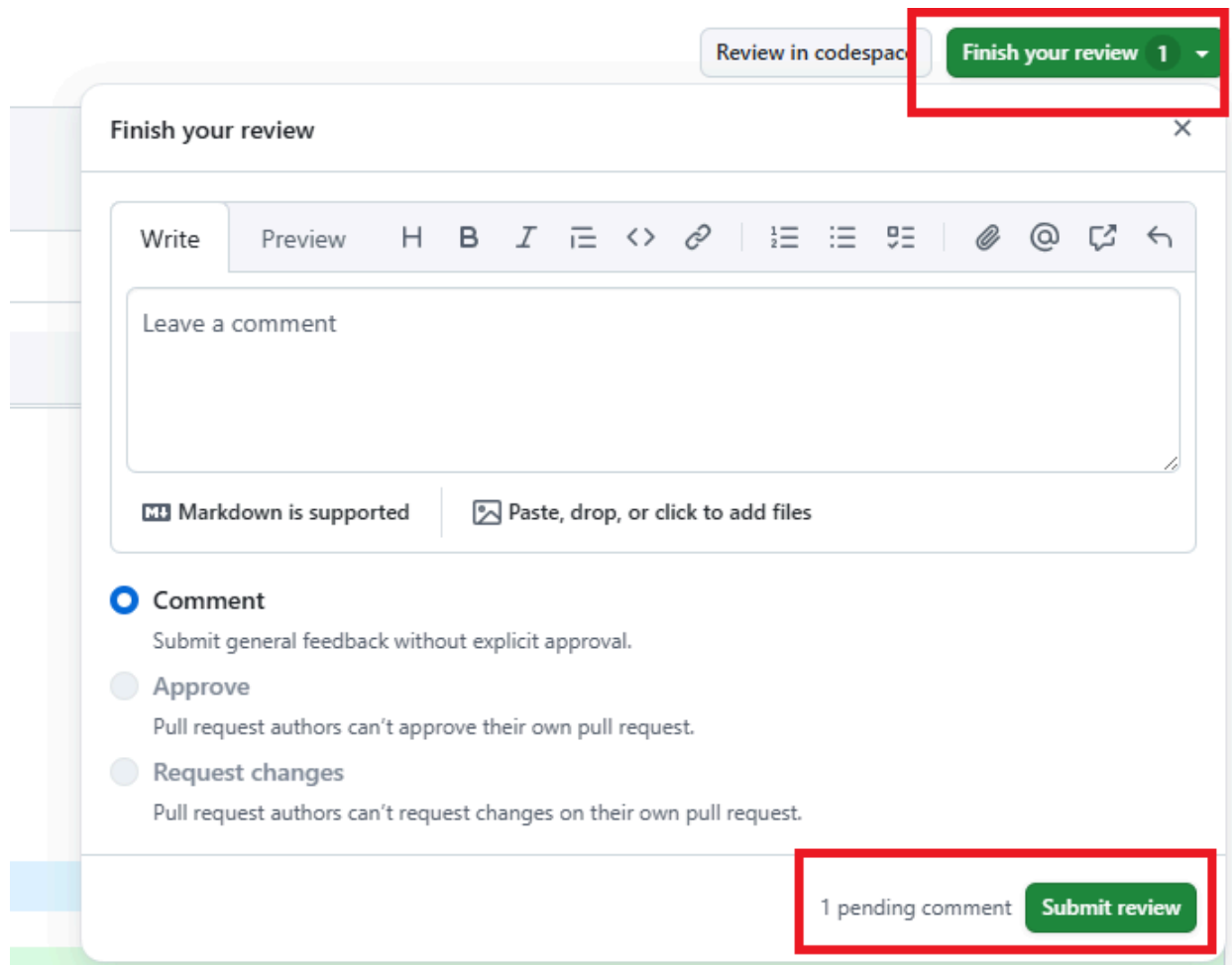
2 - No ficheiro actualizado posso tanto usar o símbolo de comentário como o simbolo de + à frente das linhas no ficheiro de forma a comentar uma linha específica





3 - Exemplo de comentário



4- Para termina a review, no canto superior direito selecionar “**Finish your review**” e depois selecionar “**Submit Review**”




5 - Agora na página do pull request, será também apresentado os comentários feitos em review ao ficheiro.


 AF-Github1 commented now View reviewed changes


2_1_PullRequest

...	...	@@ -1 +1,4 @@
1	1	This is a pull request demonstration file
	2	+
	3	+
	4	+ More text to review and comment


 AF-Github1 now Owner Author ...

This is a comment demonstrating line 2.3



 Reply...

Resolve conversation



✓ No conflicts with base branch

Merging can be performed automatically.

Merge pull request

You can also merge this with the command line [View command line instructions](#)