



Práctica de Git y GitHub

Despliegue de aplicaciones
web

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Parte 1: Configuración Inicial

1. Configurar Git en tu equipo

- `git config --global user.name "Tu Nombre"`
- `git config --global user.email tuemail@example.com`

```
PS C:\Users\pablo> git config --global user.name "Pablo Rodriguez"
PS C:\Users\pablo> git config --global user.email "prm27012@gmail.com"
PS C:\Users\pablo> git config --global --list
core.editor="C:\Users\pablo\AppData\Local\Programs\Microsoft VS Code\Microsoft VS Code\bin\code"
user.name=Pablo Rodriguez
user.email=prm27012@gmail.com
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
PS C:\Users\pablo>
```

2. Crear un nuevo repositorio en GitHub

- Accede a GitHub.
- Haz click en "New Repository".
- Asigna un nombre al repositorio y selecciona la opción "Initialize this repository with a README".




Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Required fields are marked with an asterisk ().*


Owner *

Repository name *

 pablorm27012


 /

repositorioEvelyn


 repositorioEvelyn is available.

Great repository names are short and memorable. Need inspiration? How about [jubilant-octo-tribble](#) ?

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:

☒ Add a README file

This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore


.gitignore template: None


Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a license

License: None

A license tells others what they can and can't do with your code. [Learn more about licenses.](#)

This will set  main as the default branch. Change the default name in your [settings](#).

 You are creating a public repository in your personal account.

Create repository

3. Clonar el repositorio en tu equipo.

- `git clone URL_DEL_REPOSITORIO`
- `cd NOMBRE_DEL_REPOSITORIO`

```
PS C:\Users\pablo> cd .\Desktop\  
PS C:\Users\pablo\Desktop> git clone https://github.com/pablorm27012/repositorioEvelyn.git  
Cloning into 'repositorioEvelyn'...  
remote: Enumerating objects: 3, done.  
remote: Counting objects: 100% (3/3), done.  
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)  
Receiving objects: 100% (3/3), done.  
PS C:\Users\pablo\Desktop> cd .\repositorioEvelyn\  
PS C:\Users\pablo\Desktop\repositorioEvelyn> |
```



Parte 2: Trabajo Individual con Git

1. Crear un archivo de prueba y hacer un commit

- `echo "# Proyecto Web" > index.html`
- `git add index.html`
- `git commit -m "Añadir archivo index.html"`

```
PS C:\Users\pablo\Desktop\repositorioEvelyn> echo "# Proyecto Web">index.html
PS C:\Users\pablo\Desktop\repositorioEvelyn> git add index.html
PS C:\Users\pablo\Desktop\repositorioEvelyn> git commit -m "Añadir archivo index.html"
[main 7107c36] Añadir archivo index.html
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 index.html
PS C:\Users\pablo\Desktop\repositorioEvelyn> |
```

2. Subir cambios al repositorio remoto

- `git push origin main`

```
PS C:\Users\pablo\Desktop\repositorioEvelyn> git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 328 bytes | 328.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/pablorm27012/repositorioEvelyn.git
   8bfb3cc..7107c36  main -> main
PS C:\Users\pablo\Desktop\repositorioEvelyn> |
```

3. Actualizar el repositorio local con los cambios remotos

- `git pull origin main`

```
PS C:\Users\pablo\Desktop\repositorioEvelyn> git pull origin main
From https://github.com/pablorm27012/repositorioEvelyn
 * branch          main          -> FETCH_HEAD
Already up to date.
PS C:\Users\pablo\Desktop\repositorioEvelyn> |
```



Parte 3: Trabajo Colaborativo

1. Crear una nueva rama para una funcionalidad

- `git branch nueva-funcionalidad`
- `git checkout nueva-funcionalidad`

(O también puedes usar: `git checkout -b nueva-funcionalidad`)

```
PS C:\Users\pablo\Desktop\repositorioEvelyn> git branch
* main
PS C:\Users\pablo\Desktop\repositorioEvelyn> git branch nueva-funcionalidad
```

2. Realizar cambios en la nueva rama y hacer commit

- `echo "<h1>Hola mundo</h1>" > index.html`
- `git add index.html`
- `git commit -m "Añadir título en index.html"`

3. Subir la rama al repositorio remoto

```
PS C:\Users\pablo\Desktop\repositorioEvelyn> echo "<h1>Hola Mundi </h1>" > index.html
PS C:\Users\pablo\Desktop\repositorioEvelyn> git add index.html
PS C:\Users\pablo\Desktop\repositorioEvelyn> git commit -m "Añadir título en index.html"
[nueva-funcionalidad 19ec197] Añadir título en index.html
1 file changed, 0 insertions(+), 0 deletions(-)
PS C:\Users\pablo\Desktop\repositorioEvelyn> |
```

- `git push origin nueva-funcionalidad`

```
PS C:\Users\pablo\Desktop\repositorioEvelyn> git push origin nueva-funcionalidad
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 340 bytes | 340.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'nueva-funcionalidad' on GitHub by visiting:
remote:   https://github.com/pablorm27012/repositorioEvelyn/pull/new/nueva-funcionalidad
remote:
To https://github.com/pablorm27012/repositorioEvelyn.git
 * [new branch]      nueva-funcionalidad -> nueva-funcionalidad
```

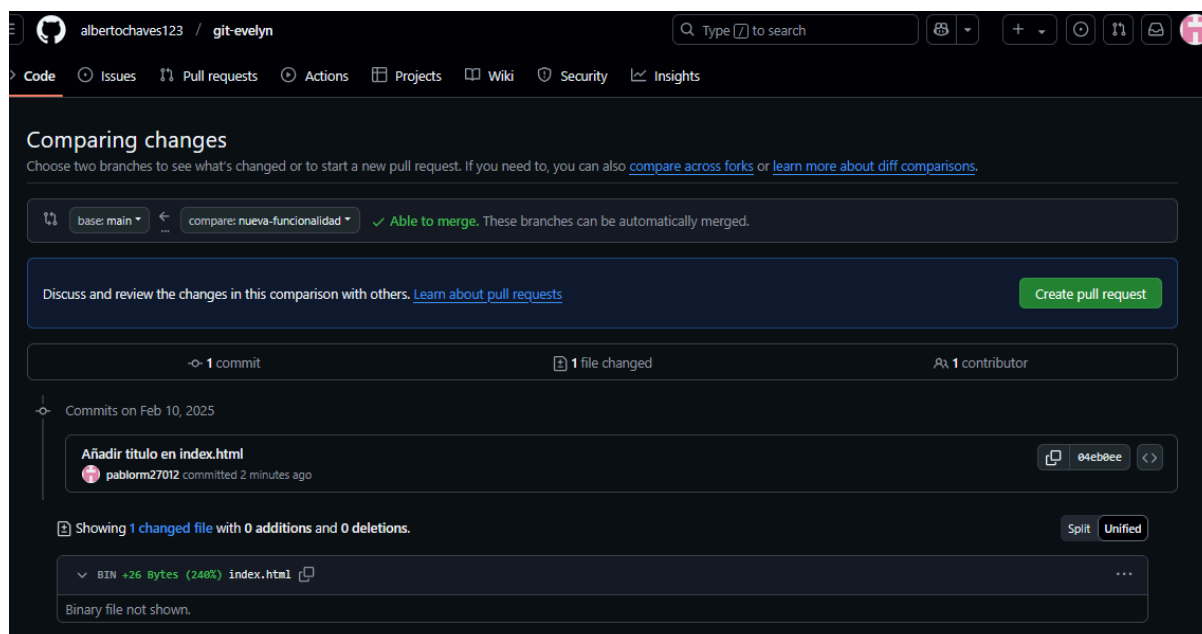


4. Realizar un Pull Request (PR) en GitHub

Un Pull Request (PR) es una solicitud para fusionar los cambios de una rama en otra, generalmente de una rama de desarrollo a main. Es una forma de revisar y discutir cambios antes de fusionarlos.

Pasos para crear un PR:

- Accede al repositorio en GitHub.
- Ir a la pestaña "Pull Requests" y hacer clic en "New Pull Request".
- Seleccionar la rama que contiene los cambios y compararla con main.
- Revisar los cambios antes de enviarlos.
- Escribir una descripción detallada del PR explicando los cambios realizados.
- Hacer clic en "Create Pull Request".
- Esperar revisiones y feedback de los compañeros o del profesor.





Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#). [Learn more about diff comparisons here](#).

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

Add a title

Añadir título en index.html

Add a description

Write Preview

Descripción detallada del PR

Markdown is supported Paste, drop, or click to add files

Create pull request

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

1 commit 1 file changed 1 contributor

Commits on Feb 10, 2025

Añadir título en index.html

pablorm27012 committed 3 minutes ago



Añadir titulo en index.html #1

Open pablorm27012 wants to merge 1 commit into main from nueva-funcionalidad

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

pablorm27012 commented 1 minute ago Collaborator

Descripcion detallada del PR

Añadir titulo en index.html 04eb0ee

✓ This branch has no conflicts with the base branch
Merging can be performed automatically.
Merge pull request You can also open this in GitHub Desktop or view command line instructions.

Try the new merge experience

Add a comment

Write Preview H B I

Add your comment here...

Markdown is supported Paste, drop, or click to add files

Close pull request Comment

Remember, contributions to this repository should follow our GitHub Community Guidelines.

Reviewers
No reviews
Still in progress? Convert to draft

Assignees
No one—assign yourself

Labels
None yet

Projects
None yet

Milestone
No milestone

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

Notifications Customize
Unsubscribe
You're receiving notifications because you authored the thread.

5. Revisar y fusionar cambios

- Otro compañero revisa el PR y lo aprueba.
- Si todo está correcto, se fusiona con la rama main.
- Si hay sugerencias o cambios requeridos, deben realizarse antes de la aprobación.
- Una vez aprobado, hacer clic en "Merge Pull Request" y eliminar la rama necesaria.

Añadir titulo en index.html #1


Merged albertochaves123 merged 1 commit into main from nueva-funcionalidad now

Conversation 0


Commits 1


Checks 0


Files changed 1


 pablorm27012 commented 2 minutes ago Collaborator

Descripcion detallada del PR





 Añadir titulo en index.html 04eb0ee

 albertochaves123 merged commit 0413ac3 into main now Revert











 Pull request successfully merged and closed

You're all set—the nueva-funcionalidad branch can be safely deleted. Delete branch



 Try the new merge experience

 Add a comment

Write Preview

H B I          


Add your comment here...


 Markdown is supported  Paste, drop, or click to add files


Comment


albertochaves123 / git-evelyn

Q Type ↵ to search


 ▾


 ▾








<> Code


 Issues


 Pull requests


 Actions

 Projects


 Wiki

 Security


 Insights

 git-evelyn


Public

 Watch


1 ▾


 Fork


0 ▾

 Star


0 ▾

 main ▾


 1 Branch


 0 Tags

Q Go to file





Add file ▾

 Code ▾

 albertochaves123 Merge pull request #1 from albertochaves123/nueva-funcionalidad


0413ac3 · 1 minute ago

 4 Commits

 README.md


Initial commit


4 days ago

 index.html

Añadir título en index.html

7 minutes ago


 README





git-evelyn


About


No description, website, or topics provided.

 Readme

 Activity

 0 stars

 1 watching

 0 forks

Report repository

Releases

No releases published

[Create a new release](#)

Packages



6. Actualizar la rama local con los cambios aprobados

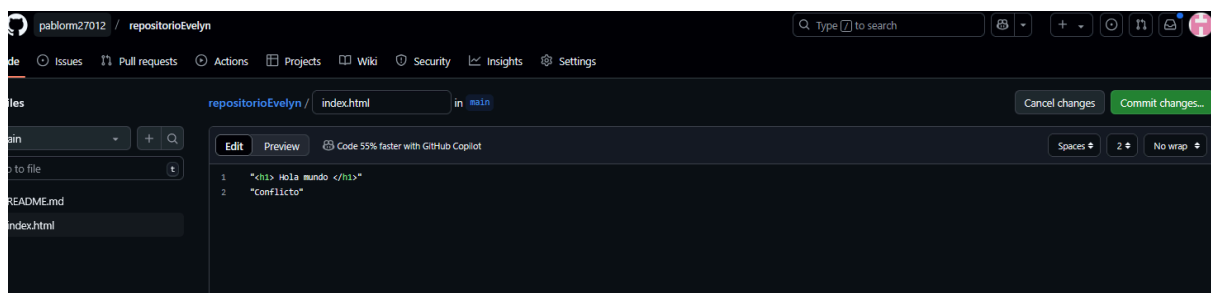
- git checkout main
- git pull origin main

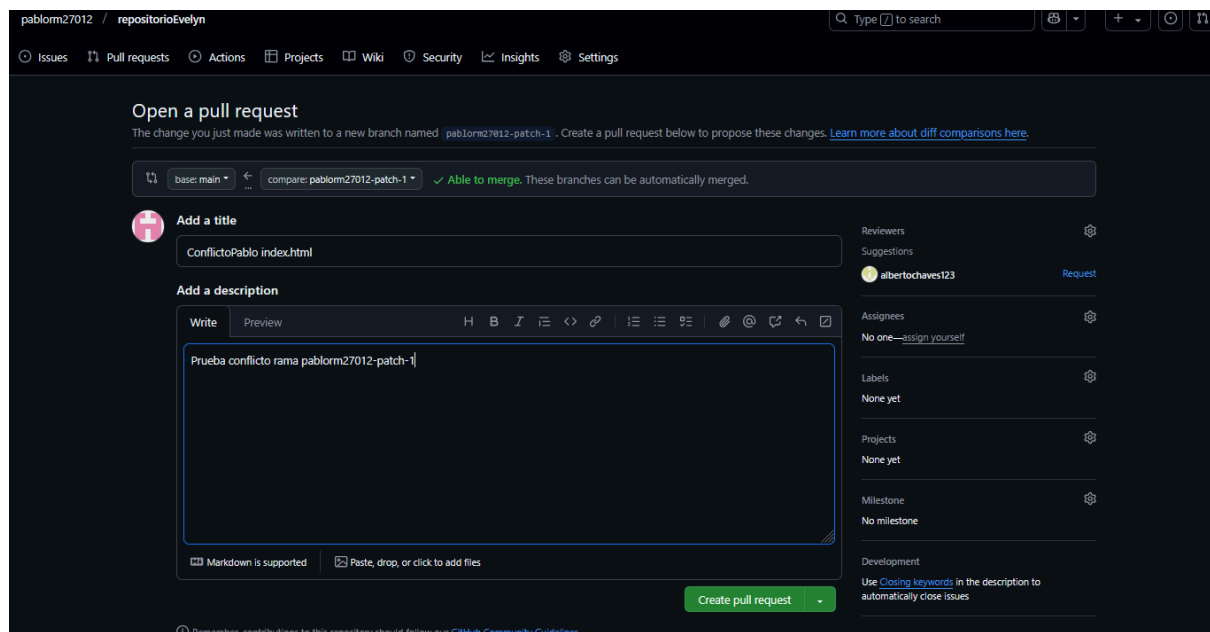
```
PS C:\Users\pablo\Desktop\git-evelyn> git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
PS C:\Users\pablo\Desktop\git-evelyn> git branch
* main
  nueva-funcionalidad
PS C:\Users\pablo\Desktop\git-evelyn> git pull origin main
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (1/1), 927 bytes | 463.00 KiB/s, done.
From https://github.com/albertochaves123/git-evelyn
 * branch                main          -> FETCH_HEAD
    6f8ccfa..0413ac3      main          -> origin/main
Updating 6f8ccfa..0413ac3
Fast-forward
 index.html | Bin 18 -> 44 bytes
 1 file changed, 0 insertions(+), 0 deletions(-)
PS C:\Users\pablo\Desktop\git-evelyn> git branch
* main
  nueva-funcionalidad
PS C:\Users\pablo\Desktop\git-evelyn> |
```

Parte 4: Resolución de Conflictos

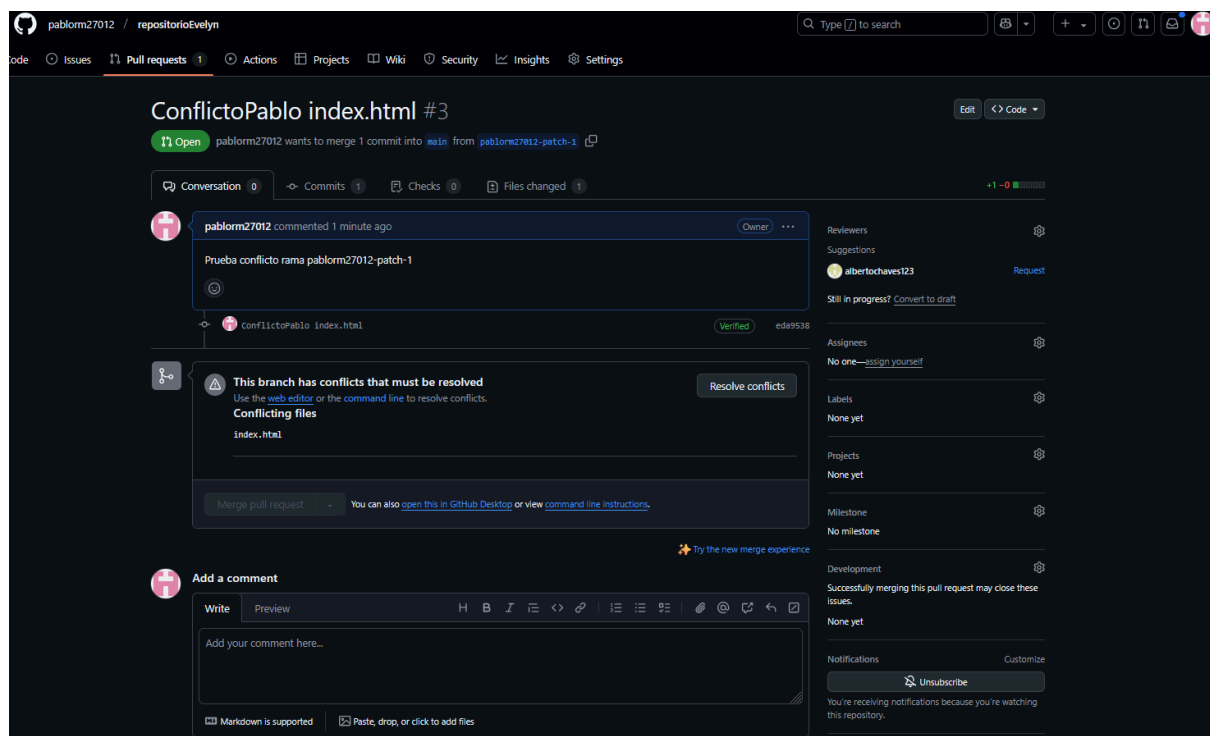
1. Generar un conflicto (de forma intencionada)

- Dos alumnos editan la misma línea de index.html en diferentes ramas y hacen commits.





- Ambos intentan fusionar sus ramas con main.



2. Resolver el conflicto

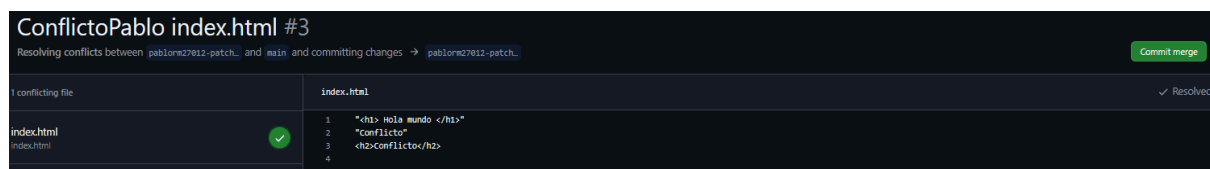
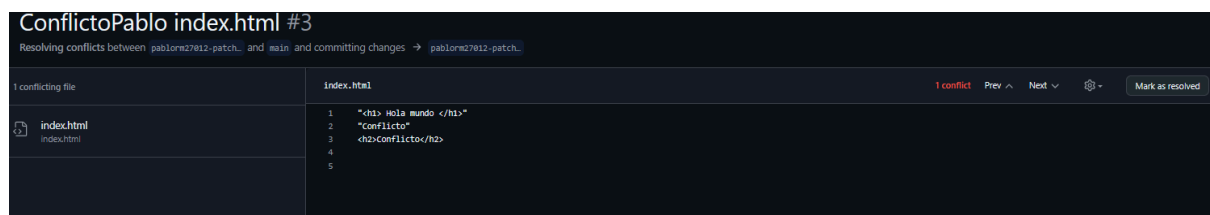
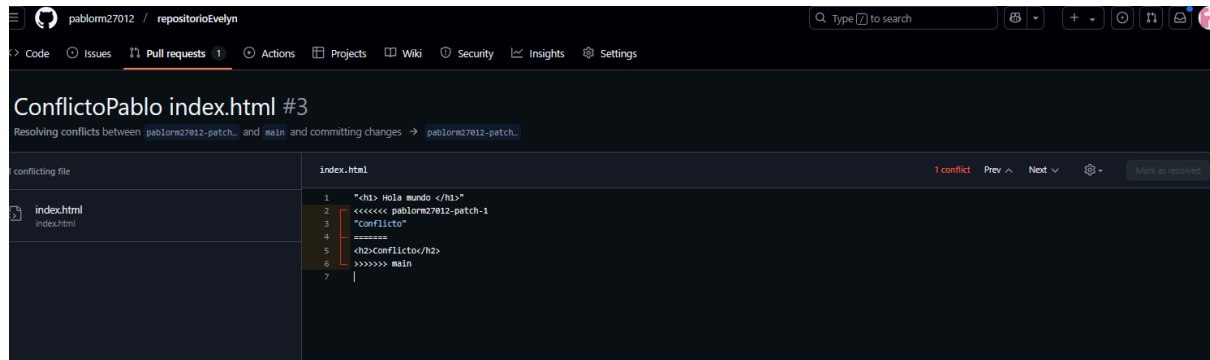
- Git avisará del conflicto.
- Edita manualmente el archivo afectado, manteniendo los cambios correctos.
- Una vez resuelto, hacer:



git add index.html

git commit -m "Resolver conflicto en index.html"

git push origin main





Parte 5: Entrega Final

1. Cada equipo debe tener un repositorio con al menos:

- Un README.md documentado.
- Un historial de commits bien estructurado.
- Uso de ramas y Pull Requests.
- Al menos un conflicto resuelto correctamente.

2. Enviar el enlace del repositorio a la plataforma de entrega.



Evaluación

- **Creación y clonación del repositorio: 20%**
- **Uso correcto de commits y ramas: 30%**
- **Trabajo colaborativo y Pull Requests: 30%**
- **Resolución de conflictos y estructura del repo: 20%**

