

Fundamentos de Git I

1. Instala Git en tu sistema operativo. Adjunta una captura de pantalla en la que aparezca el resultado de la ejecución del comando `git --version`.

```
PS C:\Users\Perrosanche\Desktop\S1R1> git --version
git version 2.47.0.windows.1
PS C:\Users\Perrosanche\Desktop\S1R1> █
```

2. Realiza la configuración de Git según lo indicado en el tema (nombre, correo electrónico y editor de preferencia). Adjunta una captura de pantalla con el resultado de la ejecución de los comandos de configuración.

```
PS C:\Users\Perrosanche\Desktop> git config --global user.name "Nour Houch"
PS C:\Users\Perrosanche\Desktop> git config --global user.name
Nour Houch
PS C:\Users\Perrosanche\Desktop> git config --global user.email nour.hiba24@gmail.com
PS C:\Users\Perrosanche\Desktop> git config --global user.email
nour.hiba24@gmail.com
PS C:\Users\Perrosanche\Desktop> git config --global core.editor '.\Visual Studio Code.lnk'
PS C:\Users\Perrosanche\Desktop> git config --global core.editor
.\Visual Studio Code.lnk
PS C:\Users\Perrosanche\Desktop> █
```

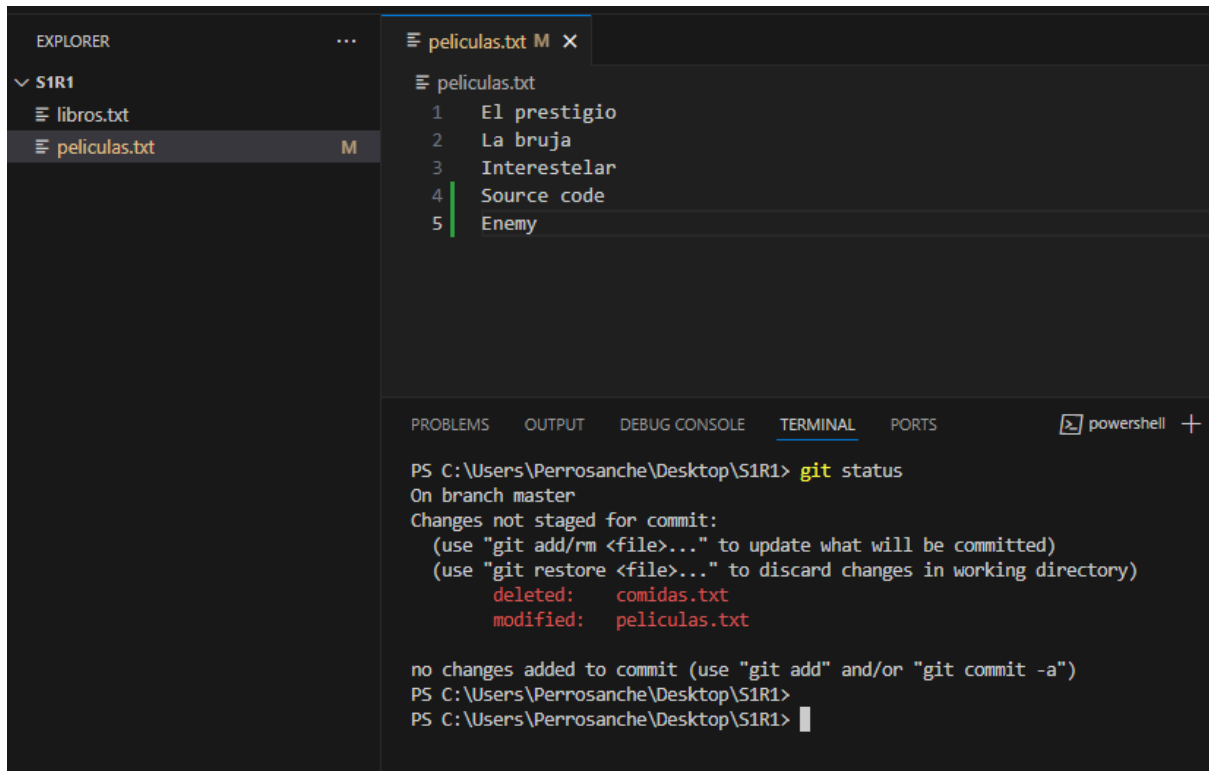
- g) Haz una captura de pantalla del comando `git status`.

```
PS C:\Users\Perrosanche\Desktop\S1R1> git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   libros.txt

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

PS C:\Users\Perrosanche\Desktop\S1R1> █
```

l) Haz una captura de pantalla que muestre los cambios en el directorio de trabajo.

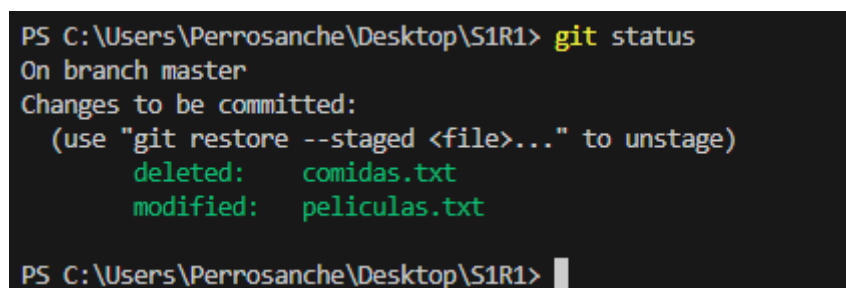


```
EXPLORER
...
S1R1
  libros.txt
  películas.txt M
películas.txt M X
  1 El prestigio
  2 La bruja
  3 Interestelar
  4 Source code
  5 Enemy

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS powershell +
PS C:\Users\Perrosanche\Desktop\S1R1> git status
On branch master
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    deleted:    comidas.txt
    modified:   películas.txt

no changes added to commit (use "git add" and/or "git commit -a")
PS C:\Users\Perrosanche\Desktop\S1R1>
PS C:\Users\Perrosanche\Desktop\S1R1>
```

n) Haz una captura de pantalla del comando git status. Debe indicar que se ha borrado el archivo comidas.txt y que se ha modificado el archivo películas.txt.



```
PS C:\Users\Perrosanche\Desktop\S1R1> git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    deleted:    comidas.txt
    modified:   películas.txt

PS C:\Users\Perrosanche\Desktop\S1R1>
```

q) Haz una captura de pantalla del comando git status. Deben aparecer los archivos datos.bak y output/salida.txt como archivos nuevos (color rojo).

```
PS C:\Users\Perrosanche\Desktop\S1R1> git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    datos.bak
    output/

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\Perrosanche\Desktop\S1R1> █
```

s) Haz una nueva captura de pantalla del comando git status. Ahora no deben aparecer los archivos datos.bak y output/salida.txt como archivos nuevos, sino que en su lugar debe aparecer únicamente el archivo .gitignore.

```
PS C:\Users\Perrosanche\Desktop\S1R1> git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .gitignore

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\Perrosanche\Desktop\S1R1> █
```

u) Haz una captura de pantalla que muestre el histórico de cambios del repositorio.

```
PS C:\Users\Perrosanche\Desktop\S1R1> git log
commit 0bd2f1842c8fe2ca2878114f37fc82a3548caafe (HEAD -> master)
Author: Nour Houch <nour.hiba24@gmail.com>
Date: Sat Oct 12 16:16:08 2024 +0200

    gitignore

commit 839b3d77c93a5ca522280dc470875fede89e000b
Author: Nour Houch <nour.hiba24@gmail.com>
Date: Fri Oct 11 22:51:28 2024 +0200

    Commit4

commit 3f15a5ff604fbc5efbdea43935110f0753a12074
Author: Nour Houch <nour.hiba24@gmail.com>
Date: Fri Oct 11 22:43:18 2024 +0200

    peliculas y comidas

commit 5a3baa64c499532f2672168f18a8685575a1f8d9
Author: Nour Houch <nour.hiba24@gmail.com>
Date: Fri Oct 11 22:04:29 2024 +0200

    libros2
```

Fundamentos de Git II

g) Haz una captura de pantalla del resultado del comando `git log --graph --all`.

```
PS C:\Users\Perrosanche\Desktop\S2R1> git log --graph --all
* commit 2ea02cd6fcbade02698934b06854c5b63db20158 (HEAD -> test)
 | Author: Nour Houch <nour.hiba24@gmail.com>
 | Date: Thu Oct 17 17:12:00 2024 +0200
 |
 |     commit2
 |
 * commit 6379bcab15df4d95eb329933d5597c1a24970adc (master)
 | Author: Nour Houch <nour.hiba24@gmail.com>
 | Date: Thu Oct 17 17:07:28 2024 +0200
 |
 |     commit1
PS C:\Users\Perrosanche\Desktop\S2R1>
```

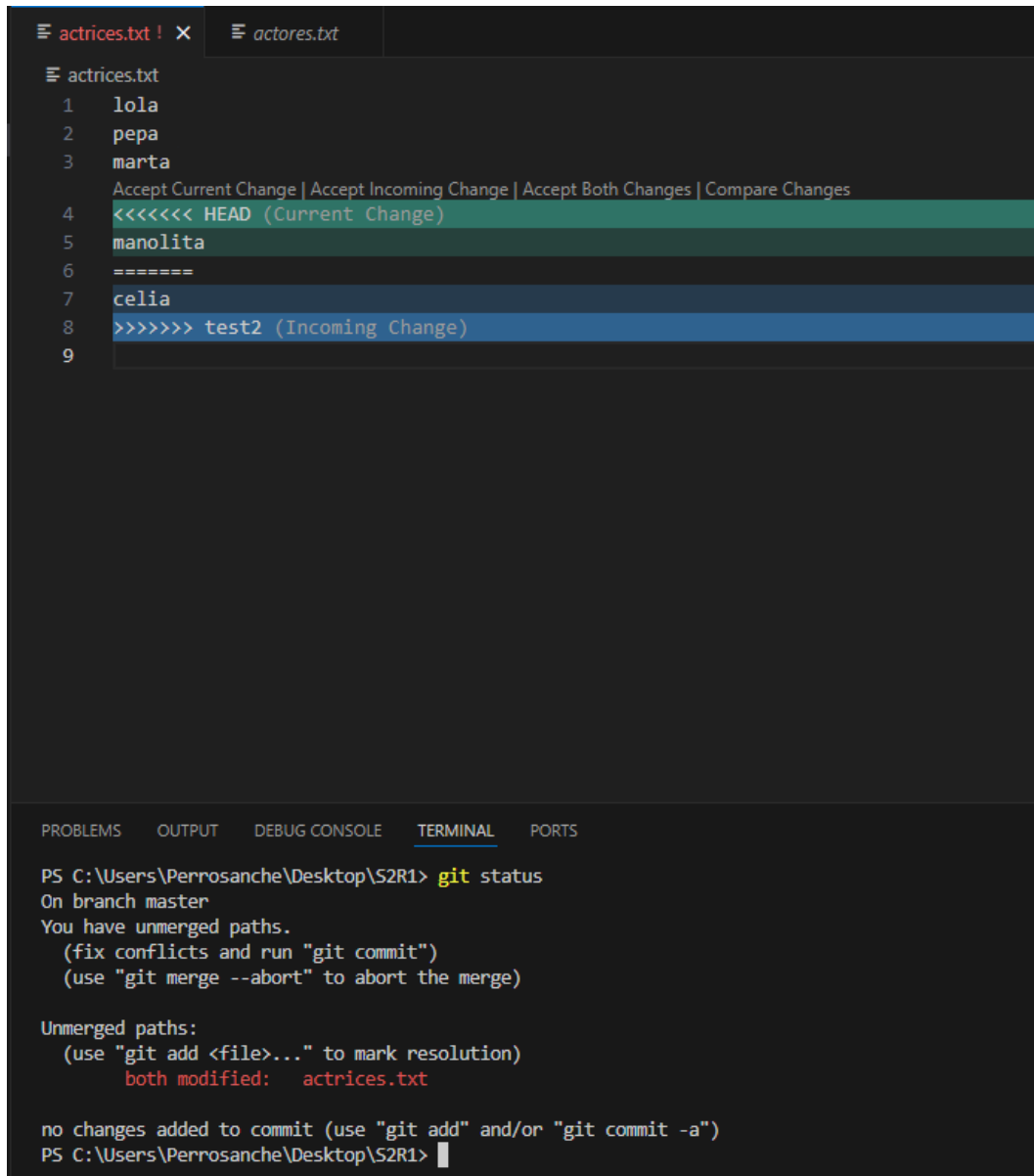
i) Incorpora los cambios de la rama `test` a la rama `master`. Haz una captura de pantalla de los comandos que has utilizado y de su resultado.

```
PS C:\Users\Perrosanche\Desktop\S2R1> git branch
* master
  test
PS C:\Users\Perrosanche\Desktop\S2R1> git merge test
Updating 6379bca..2ea02cd
Fast-forward
 actrices.txt | 3 +++
 1 file changed, 3 insertions(+)
 create mode 100644 actrices.txt
PS C:\Users\Perrosanche\Desktop\S2R1> git log --graph --all
* commit 2ea02cd6fcbade02698934b06854c5b63db20158 (HEAD -> master, test)
 | Author: Nour Houch <nour.hiba24@gmail.com>
 | Date: Thu Oct 17 17:12:00 2024 +0200
 |
 |     commit2
 |
 * commit 6379bcab15df4d95eb329933d5597c1a24970adc
 | Author: Nour Houch <nour.hiba24@gmail.com>
 | Date: Thu Oct 17 17:07:28 2024 +0200
 |
 |     commit1
PS C:\Users\Perrosanche\Desktop\S2R1>
```

n) Haz una captura de pantalla del resultado del comando `git log --graph --all`. Debe haber dos caminos distintos: uno para la rama `master` y otro para la rama `test2`.

```
PS C:\Users\Perrosanche\Desktop\S2R1> git log --graph --all
* commit 07c3953419bb16c048d7f8c5efafdd3e4deec60c (HEAD -> test2)
| Author: Nour Houch <nour.hiba24@gmail.com>
| Date: Thu Oct 17 17:59:06 2024 +0200
|
|     commit4
|
| * commit 009d5ff9a55f2f3ae6268cb95b48907d97eb712e (master)
| / Author: Nour Houch <nour.hiba24@gmail.com>
|   Date: Thu Oct 17 17:57:31 2024 +0200
|
|     commit3
|
| * commit 2ea02cd6fcbade02698934b06854c5b63db20158 (test)
| | Author: Nour Houch <nour.hiba24@gmail.com>
| | Date: Thu Oct 17 17:12:00 2024 +0200
| |
| |     commit2
| |
| * commit 6379bcab15df4d95eb329933d5597c1a24970adc
|   Author: Nour Houch <nour.hiba24@gmail.com>
|   Date: Thu Oct 17 17:07:28 2024 +0200
|
|     commit1
```

- o) Incorpora los cambios de la rama test2 a la rama master. ¿Se produce un conflicto?
De ser así realiza una captura del comando git status.



The image shows a code editor with two tabs: `actrices.txt` (active) and `actores.txt`. The `actrices.txt` file contains the following content:

```
1 lola
2 pepa
3 marta
4 <<<<<< HEAD (Current Change)
5 manolita
6 =====
7 celia
8 >>>>>> test2 (Incoming Change)
```

The terminal window at the bottom shows the output of the `git status` command:

```
PS C:\Users\Perrosanche\Desktop\S2R1> git status
On branch master
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:   actrices.txt

no changes added to commit (use "git add" and/or "git commit -a")
PS C:\Users\Perrosanche\Desktop\S2R1>
```

- q) Haz una captura de pantalla del resultado del comando `git log --graph --all`. Observa que se ha creado un nuevo commit que integra los dos caminos anteriores.

```
*   commit e89c2d965f7f12b729eff2aab0dd291b2ebf1f79 (HEAD -> master)
| \ Merge: 009d5ff 07c3953
|  | Author: Nour Houch <nour.hiba24@gmail.com>
|  | Date:   Thu Oct 17 18:17:16 2024 +0200
|  |
|  |     commit5
|  |
|  | *   commit 07c3953419bb16c048d7f8c5efafdd3e4deec60c (test2)
|  | | Author: Nour Houch <nour.hiba24@gmail.com>
|  | | Date:   Thu Oct 17 17:59:06 2024 +0200
|  | |
|  | |     commit4
|  | |
|  | | *   commit 009d5ff9a55f2f3ae6268cb95b48907d97eb712e
|  | | / Author: Nour Houch <nour.hiba24@gmail.com>
|  | | | Date:   Thu Oct 17 17:57:31 2024 +0200
|  | | |
|  | | |     commit3
|  | | |
|  | | | *   commit 2ea02cd6fcbade02698934b06854c5b63db20158 (test)
|  | | | | Author: Nour Houch <nour.hiba24@gmail.com>
|  | | | | Date:   Thu Oct 17 17:12:00 2024 +0200
|  | | | |
|  | | | | :
|  | | | |
```

- c) Realiza un push al repositorio remoto. Adjunta captura de pantalla del resultado.

```
PS C:\Users\Perrosanche\Desktop\S2R2-remoto> CD ..
PS C:\Users\Perrosanche\Desktop> git clone S2R2-remoto/ S2R2
Cloning into 'S2R2'...
warning: You appear to have cloned an empty repository.
done.
PS C:\Users\Perrosanche\Desktop> 
```


- g) Realiza un push de la rama al repositorio remoto de manera que quede asociada a la rama remota del mismo nombre. Adjunta captura de pantalla del resultado.

```
PS C:\Users\Perrosanche\Desktop\S2R2> git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 251 bytes | 251.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To C:/Users/Perrosanche/Desktop/S2R2-remoto/
 * [new branch]      master -> master
PS C:\Users\Perrosanche\Desktop\S2R2> █
```

-) Muestra el contenido del fichero directores.txt por la pantalla. Comprueba que se muestran los 5 nombres de directores esperados. Adjunta captura de pantalla.

```
PS C:\Users\Perrosanche\Desktop\S2R2> git push -u origin version1
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 433 bytes | 433.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To C:/Users/Perrosanche/Desktop/S2R2-remoto/
 f6a50d1..5032d18  version1 -> version1
branch 'version1' set up to track 'origin/version1'.
PS C:\Users\Perrosanche\Desktop\S2R2> █
```

- f) Sube la rama master actualizada al servidor. Adjunta captura de pantalla del resultado del comando.

```
PS C:\Users\Perrosanche\Desktop\S2R3> cat .\directores.txt
tarantino
martin scorsese
james cameron
spielberg
hitchcock
PS C:\Users\Perrosanche\Desktop\S2R3> █
```

- a) Obtén los cambios que hay en el repositorio remoto sin fusionarlos en la rama local.
Adjunta captura de pantalla del resultado del comando utilizado.

```
PS C:\Users\Perrosanche\Desktop\S2R3> git push
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To C:/Users/Perrosanche/Desktop/.S2R2-remoto\
 8a04e1a..b9baa4b master -> master
PS C:\Users\Perrosanche\Desktop\S2R3> git log --graph --all
* commit b9baa4b1274cd69e5eefb5d5f9d83b1dc117009a (HEAD -> master, origin/version1, origin/master, origin/HEAD, version1)
 | Author: Nour Houch <nour.hiba24@gmail.com>
 | Date:   Fri Oct 18 17:01:05 2024 +0200
 |
 | DEFINITIVAS
```

- b) Actualiza la rama master local con el contenido de la rama master del repositorio remoto. Adjunta captura de pantalla del resultado del comando utilizado.

```
PS C:\Users\Perrosanche\Desktop\S2R2> git fetch
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 5 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (5/5), 548 bytes | 45.00 KiB/s, done.
From C:/Users/Perrosanche/Desktop/S2R2-remoto
  f6a50d1..b9baa4b master      -> origin/master
   5032d18..b9baa4b version1   -> origin/version1
PS C:\Users\Perrosanche\Desktop\S2R2>
```

```
PS C:\Users\Perrosanche\Desktop\S2R2> git pull
Updating f6a50d1..b9baa4b
Fast-forward
PS C:\Users\Perrosanche\Desktop\S2R2> cat .\directores.txt
tarantino
martin scorsese
james cameron
spielberg
hitchcock
PS C:\Users\Perrosanche\Desktop\S2R2>
```

GitHub

Commit discos

```
PS C:\Users\Perrosanche\Desktop\sesion3-practica> git commit -m "3 discos. Close #1"
[master 53aa6fe] 3 discos. Close #1
1 file changed, 1 insertion(+), 1 deletion(-)
PS C:\Users\Perrosanche\Desktop\sesion3-practica> git push
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), 288 bytes | 288.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/NourH2/sesion3-practica.git
51c3473..53aa6fe master -> master
PS C:\Users\Perrosanche\Desktop\sesion3-practica>
```

Commit libros

```
PS C:\Users\Perrosanche\Desktop\sesion3-practica> git commit -m "3 libros. Close #1"
[master 51c3473] 3 libros. Close #1
1 file changed, 3 insertions(+)
PS C:\Users\Perrosanche\Desktop\sesion3-practica> git push
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), 342 bytes | 342.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/NourH2/sesion3-practica.git
74542bd..51c3473 master -> master
PS C:\Users\Perrosanche\Desktop\sesion3-practica>
```

Commit 3 películas

```
PS C:\Users\Perrosanche\Desktop\sesion3-practica> git commit -m "3 películas. Close #2"
[master feb6dbe] 3 películas. Close #2
1 file changed, 1 insertion(+), 1 deletion(-)
PS C:\Users\Perrosanche\Desktop\sesion3-practica> git push
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), 290 bytes | 290.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/NourH2/sesion3-practica.git
4d4a24a..feb6dbe master -> master
PS C:\Users\Perrosanche\Desktop\sesion3-practica>
```