

# 01 - Ejercicio de Git - Forty - local y remoto

1. Trabajo en local

2. Trabajo en remoto

## 1. Trabajo en local

**1. Inicializa un nuevo repositorio Git en una carpeta llamada "forty" y agrega los archivos proporcionados en el aula virtual.**

```
git init
git add .
git commit -m "Añaddimos archivos"
```

```
danic@Dani MINGW64 ~/Desktop/Repositorios/forty
$ git init
Initialized empty Git repository in C:/Users/danic/Desktop/Repositorios/forty/.git/
danic@Dani MINGW64 ~/Desktop/Repositorios/forty (master)
$
```

**2. Renombra la rama master a main.**

```
git branch -m main
```

```
danic@Dani MINGW64 ~/Desktop/Repositorios/forty (master)
$ git branch -m main
danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$
```

3. Haz que los ficheros README.txt , LICENSE.txt y passwords.txt sean ignorados por el control de versione.

```
.gitignore X
C: > Users > danic > Desktop > Repositorios > forty > .gitignore
1 README.txt
2 LICENSE.txt
3 passwords.txt
```

```
danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git status
On branch main

No commits yet

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)

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git add .

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git commit -m "ñ"
[main (root-commit) ca4fab7] ñ
1 file changed, 3 insertions(+)
create mode 100644 .gitignore
```

4. Crea el archivo passwords.txt . Comprueba que el control de versiones lo ignora.

```
passwords.txt
README.txt
.gitignore

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git status
On branch main
nothing to commit, working tree clean

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ |
```

5. Crea una rama llamada "feature-content" . Muévete a esa rama. Cambia, en la línea 3477, el font-size por 1.5em en el archivo main.css . Confirma cambios y haz commit. Muestra los logs de la forma más gráfica posible.

```
git checkout -b feature-content
git add .
git commit -m "Cambio en main.css"
```

```

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git checkout -b feature-content
Switched to a new branch 'feature-content'
danic@Dani MINGW64 ~/Desktop/Repositorios/forty (feature-content)

```

```

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (feature-content)
$ git status
On branch feature-content
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:   assets/css/main.css

no changes added to commit (use "git add" and/or "git commit -a")

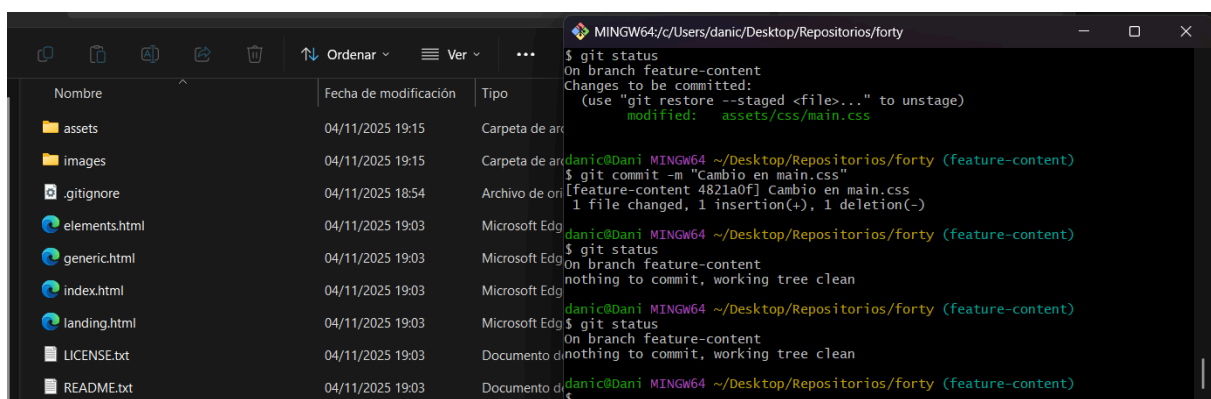
danic@Dani MINGW64 ~/Desktop/Repositorios/forty (feature-content)
$ git add .
warning: in the working copy of 'assets/css/main.css', LF will be replaced by CR
LF the next time Git touches it

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (feature-content)
$ git status
On branch feature-content
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   assets/css/main.css

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (feature-content)
$ git commit -m "Cambio en main.css"
[feature-content 4821a0f] Cambio en main.css
1 file changed, 1 insertion(+), 1 deletion(-)

```

**6. Elimina el archivo "passwords.txt" en la carpeta forty . Verifica el estado del repositorio. ¿Hay cambios pendientes?**



The screenshot shows a file explorer window on the left and a terminal window on the right. The file explorer displays the contents of the 'forty' directory, including 'assets', 'images', '.gitignore', and several HTML files. The terminal window shows the output of 'git status' and 'git commit' commands, indicating that the 'passwords.txt' file has been removed and the changes have been committed.

No se ve porque esta ignorado por el .gitignore

**7. Crea un nuevo archivo llamado " about.html ", partiendo del archivogeneric.html y agrégalo al repositorio, haz un nuevo commit.**

```

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (feature-content)
$ git status
On branch feature-content
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    about.html

nothing added to commit but untracked files present (use "git add" to track)
g
danic@Dani MINGW64 ~/Desktop/Repositorios/forty (feature-content)
$ git add .

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (feature-content)
$ git commit -m "añado el archivo about.html"
[feature-content 6cdf788] añado el archivo about.html
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 about.html

```

## 8. Cambia a la rama main. Examina los logs del repositorio de forma gráfica.

```

git checkout main
git log --oneline --graph --decorate --all

```

```

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (feature-content)
$ git checkout main
Switched to branch 'main'

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git log --oneline --graph --decorate --all
* 6cdf788 (feature-content) añado el archivo about.html
* 4821a0f Cambio en main.css
* 334ddd6 (HEAD -> main) elimino el cache
* a91eb45 añado el gitignore
* b7a3f33 Añado archivos

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$

```

## 9. Modifica algo en el archivo generic.html , comprueba que hay cambios, y realiza otro commit. Examina los logs del repositorio de forma gráfica.

```

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git status
On branch main
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:   generic.html

no changes added to commit (use "git add" and/or "git commit -a")

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git add .

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git commit -m "cambio generic"
[main 8500ad6] cambio generic
1 file changed, 1 insertion(+), 1 deletion(-)

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git log --oneline --graph --decorate --all
* 8500ad6 (HEAD -> main) cambio generic
| * 6cdf788 (feature-content) añado el archivo about.html
| * 4821a0f Cambio en main.css
|/
* 334ddd6 elimino el cache
* a91eb45 añado el gitignore
* b7a3f33 Añado archivos

```

**10. Modifica algo en el fichero elements.html . Confirma los cambios, pero no hagas commit.**

```

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git status
On branch main
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:   elements.html

no changes added to commit (use "git add" and/or "git commit -a")

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)

```

**11. Mira las diferencias de elements.html . Los cambios no nos gustan, deshaz los cambios de elements.html . Comprueba que no hay cambios pendientes.**

```

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git status
On branch main
nothing to commit, working tree clean

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)

```

## 12. Muestra las diferencias entre dos ramas.

```
git diff main..feature-content
```

```

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git status
On branch main
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:   generic.html

diff --git a/about.html b/about.html
new file mode 100644
index 0000000..e69de29
diff --git a/assets/css/main.css b/assets/css/main.css
index b1a33da..efab7a6 100644
--- a/assets/css/main.css
+++ b/assets/css/main.css
@@ -3474,7 +3474,7 @@ input, select, textarea {
        }

        #banner > .inner .content p {
-               font-size: 0.7em;
+               font-size: 1.5em;
                font-weight: 600;
                letter-spacing: 0.25em;
                text-transform: uppercase;

diff --git a/about.html b/about.html
new file mode 100644
index 0000000..e69de29
diff --git a/assets/css/main.css b/assets/css/main.css
index b1a33da..efab7a6 100644
--- a/assets/css/main.css
+++ b/assets/css/main.css
@@ -3474,7 +3474,7 @@ input, select, textarea {
        }

        #banner > .inner .content p {
-               font-size: 0.7em;
+               font-size: 1.5em;
                font-weight: 600;
                letter-spacing: 0.25em;
                text-transform: uppercase;

diff --git a/generic.html b/generic.html
index acdf955..c8fd926 100644

```

## 13. Fusiona la rama "feature-content" con la rama principal (main). Muestra los logs del repositorio de una forma gráfica y completa.

```
git merge feature-content
```

```
Merge made by the 'ort' strategy.
about.html | 0
assets/css/main.css | 2 +-
2 files changed, 1 insertion(+), 1 deletion(-)
create mode 100644 about.html
```

**14. Crea una nueva rama llamada " hotfix " y en ella, corrige un error crítico en el archivo " index.html ". (Por ejemplo, añade el enlace a la nueva página about.html).**

```
danic@Dani MINGW64 ~/Desktop/Repositorios/forty (hotfix)
$ git status
On branch hotfix
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:   index.html

no changes added to commit (use "git add" and/or "git commit -a")

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (hotfix)
$ git add .

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (hotfix)
$ git commit -m "arreglado el problema"
[hotfix f010a8e] arreglado el problema
1 file changed, 1 insertion(+), 1 deletion(-)
```

**15. Fusiona la rama "hotfix" con la rama principal y verifica el historial de commits de forma que se vean todas las ramas gráficamente. ¿Borrarías la rama hotfix ? ¿En qué caso? ¿Cómo?**

```
git merge hotfix
```

```

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git merge hotfix
Updating 2a82ce3..f010a8e
Fast-forward
 index.html | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$

```

**16. Muestra el historial de cambios limitado a los últimos 3 commits.**

```
git log -3
```

**17. Etiqueta el commit actual como "v1.0" y muestra las etiquetas existentes.**

```

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git log -3
commit f010a8e10dab27d9cd3cd05bf39414170b565efc (HEAD -> main, hotfix)
Author: Daniel <danielm53@educastur.es>
Date:   Wed Nov 5 00:47:56 2025 +0100

    arreglado el problema

commit 2a82ce3e677a1b95c8cdf1adda324836a8171ccb
Merge: 8500ad6 6cdf788
Author: Daniel <danielm53@educastur.es>
Date:   Tue Nov 4 22:59:47 2025 +0100

    Merge branch 'feature-content'

commit 8500ad6b1223d61c00adfafefd30095d763f9dd9
Author: Daniel <danielm53@educastur.es>
Date:   Tue Nov 4 19:39:04 2025 +0100

    cambio generic

```

## 2. Trabajo en remoto

**1. Sube al remoto los ficheros de tu repositorio local.**

```
git remote add origin https://github.com/DanielDM115/forty.git
git push origin main
```

```
danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git remote add origin https://github.com/DanielDM115/forty.git

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git remote add origin https://github.com/DanielDM115/forty.git
error: remote origin already exists.

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git push origin main
Enumerating objects: 109, done.
Counting objects: 100% (109/109), done.
Delta compression using up to 16 threads
Compressing objects: 100% (107/107), done.
Writing objects: 100% (109/109), 2.13 MiB | 1.60 MiB/s, done.
Total 109 (delta 12), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (12/12), done.
To https://github.com/DanielDM115/forty.git
 * [new branch]      main -> main

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$
```

**2. En local, crea una rama 'feature-head'. Cambia el título en la sección head de index.html , borra los comentarios del head , o previos, también. Confirma y sube los cambios al remoto.**

```
git add .
git commit -m "Cambio el header"
git push origin feature-header
```

```

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (feature-head)
$ git add .

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (feature-head)
$ git commit -m "Cambio el header"
[feature-head 417cce2] Cambio el header
1 file changed, 1 insertion(+), 6 deletions(-)

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (feature-head)
$ git push origin main
Everything up-to-date

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (feature-head)
$ git push orgin feature-head

```

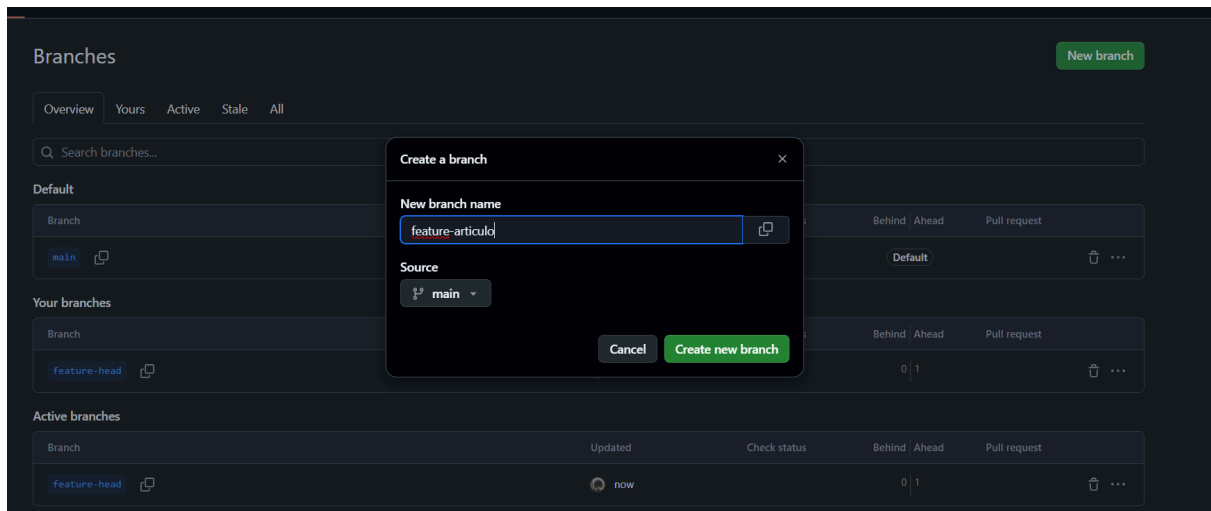
```

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (feature-head)
$ git push origin feature-head
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 302 bytes | 302.00 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.
remote:
remote: Create a pull request for 'feature-head' on GitHub by visiting:
remote:   https://github.com/DanielDM115/forty/pull/new/feature-head
remote:
To https://github.com/DanielDM115/forty.git
 * [new branch]      feature-head -> feature-head

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (feature-head)
$ |

```

**3. En remoto, crea una rama 'feature-articulo'. Duplica la página generic , nómbrala como articulo.html, y añade como contenido un artículo sobre Git. Confirma los cambios y realiza un commit. Muestra los commits del repositorio tal como se ven en GitHub.**



```
* [new branch]      feature-head -> feature-head
danic@Dani MINGW64 ~/Desktop/Repositorios/forty (feature-head)
$ git pull origin feature-articulo
From https://github.com/DanielDM115/forty
 * branch                feature-articulo -> FETCH_HEAD
 * [new branch]          feature-articulo -> origin/feature-articulo
Already up to date.
```

**4. En el repositorio local examina los cambios. Actualiza el repositorio con el remoto. Fusiona en 'main' las dos ramas 'feature'. Crea la etiqueta 'v2.0'. Muestra los logs, commits, etiquetas y ramas actuales, en local y en remoto.**

```
danic@Dani MINGW64 ~/Desktop/Repositorios/forty (feature-head)
$ git checkout main
Switched to branch 'main'

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git merge feature-head
Updating f010a8e..417cce2
Fast-forward
 index.html | 7 +-----
 1 file changed, 1 insertion(+), 6 deletions(-)

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git merge feature-articulo
```

**5. Muestra los logs de forma que se vean las ramas en tu copia local.**

```

commit 417cce289dc6fa916e123a403c95c0ea2d71442e (HEAD -> main, origin/feature-head, feature-head)
Author: Daniel <danielm53@educastur.es>
Date:   Wed Nov 5 01:03:21 2025 +0100

    Cambio el header

commit f010a8e10dab27d9cd3cd05bf39414170b565efc (origin/main, origin/feature-articulo, hotfix, feature-articulo)
Author: Daniel <danielm53@educastur.es>
Date:   Wed Nov 5 00:47:56 2025 +0100

    arreglado el problema

commit 2a82ce3e677a1b95c8cdf1adda324836a8171ccb
Merge: 8500ad6 6cdf788
Author: Daniel <danielm53@educastur.es>
Date:   Tue Nov 4 22:59:47 2025 +0100

    Merge branch 'feature-content'

commit 8500ad6b1223d61c00adfafefd30095d763f9dd9
Author: Daniel <danielm53@educastur.es>
Date:   Tue Nov 4 19:39:04 2025 +0100

    cambio generic

commit 6cdf78823b1261c7dffec24d5db7a796d1578f74 (feature-content)
Author: Daniel <danielm53@educastur.es>
Date:   Tue Nov 4 19:34:53 2025 +0100

    añadido el archivo about.html

commit 4821a0f78fd79a03e68827ff4153e7316c0d164d
Author: Daniel <danielm53@educastur.es>
Date:   Tue Nov 4 19:26:01 2025 +0100

    Cambio en main.css

commit 334ddd66568b0d965a30c7702b08755a675b9a98
Author: Daniel <danielm53@educastur.es>
Date:   Tue Nov 4 19:21:19 2025 +0100

    elimino el cache

commit a91eb450f5ebd3d409a5be11976564e09498b926
Author: Daniel <danielm53@educastur.es>
Date:   Tue Nov 4 19:20:13 2025 +0100

    añadido el gitignore

commit b7a3f33d89879081468ecdaa1f66e4a754bdacbb
Author: Daniel <danielm53@educastur.es>
Date:   Tue Nov 4 19:16:06 2025 +0100

    Añado archivos

```

**6. Sube los cambios al remoto borrando la rama nueva , si es necesario. Comprueba primero con un comando en local, las ramas que hay en el repositorio remoto.**

```

danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git branch -r
  origin/feature-articulo
  origin/feature-head
  origin/main

```

**7. Muestra en local los cambios en el archivo index.html entre la versión actual y la anterior.**

```
git diff HEAD~1 index.html
```

```
danic@Dani MINGW64 ~/Desktop/Repositorios/forty (main)
$ git diff HEAD~1 index.html
diff --git a/index.html b/index.html
index 7d514b6..8d90026 100644
--- a/index.html
+++ b/index.html
@@ -1,12 +1,7 @@
<!DOCTYPE HTML>
- <!--
-     Forty by HTML5 UP
-     html5up.net | @ajlkn
-     Free for personal and commercial use under the CCA 3.0 license (html5up.
net/license)
--->
<html>
  <head>
-    <title>Forty by HTML5 UP</title>
+    <title>Forty</title>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale
=1, user-scalable=no" />
    <link rel="stylesheet" href="assets/css/main.css" />
```