

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 "Añadimos 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.



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")

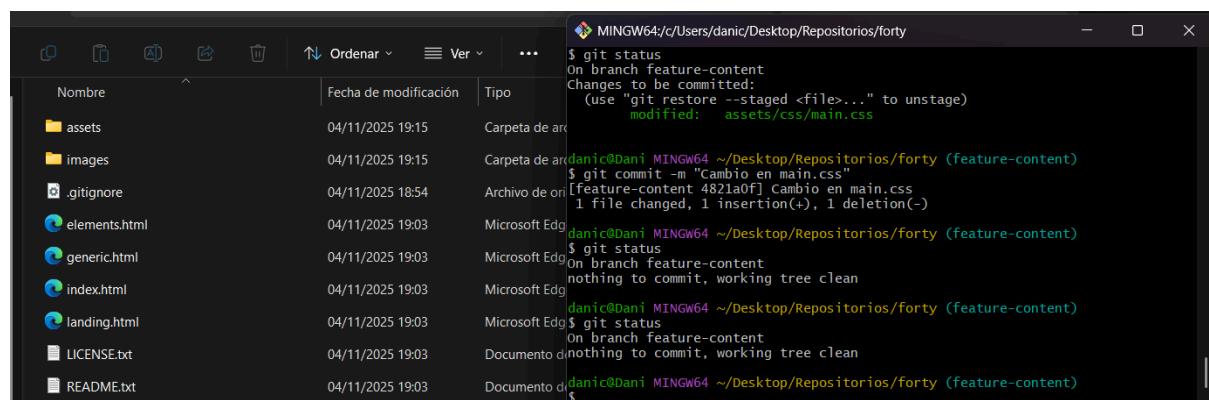
danic@Dani MINGW64 ~/Desktop/Repositorios/forty (feature-content)
$ git add .
warning: in the working copy of 'assets/css/main.css', LF will be replaced by CR
LF the next time Git touches it

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?



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 <danielsm53@educastur.es>
Date:   Wed Nov 5 00:47:56 2025 +0100

    arregladdo el problema

commit 2a82ce3e677a1b95c8cdf1adda324836a8171ccb
Merge: 8500ad6 6cdf788
Author: Daniel <danielsm53@educastur.es>
Date:   Tue Nov 4 22:59:47 2025 +0100

    Merge branch 'feature-content'

commit 8500ad6b1223d61c00adfafef30095d763f9dd9
Author: Daniel <danielsm53@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 origin 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 <danieldm53@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 <danieldm53@educastur.es>
Date:   Wed Nov 5 00:47:56 2025 +0100

    arregladdo el problema

commit 2a82ce3e677a1b95c8cdf1adda324836a8171ccb
Merge: 8500ad6 6cdf788
Author: Daniel <danieldm53@educastur.es>
Date:   Tue Nov 4 22:59:47 2025 +0100

    Merge branch 'feature-content'

commit 8500ad6b1223d61c00adfafebd30095d763f9dd9
Author: Daniel <danieldm53@educastur.es>
Date:   Tue Nov 4 19:39:04 2025 +0100

    cambio generic

commit 6cdf78823b1261c7dfec24d5db7a796d1578f74 (feature-content)
Author: Daniel <danieldm53@educastur.es>
Date:   Tue Nov 4 19:34:53 2025 +0100

    añado el archivo about.html

commit 4821a0f78fd79a03e68827ff4153e7316c0d164d
Author: Daniel <danieldm53@educastur.es>
Date:   Tue Nov 4 19:26:01 2025 +0100

    Cambio en main.css

commit 334ddd66568b0d965a30c7702b08755a675b9a98
Author: Daniel <danieldm53@educastur.es>
Date:   Tue Nov 4 19:21:19 2025 +0100

    elimino el cache

commit a91eb450f5ebd3d409a5be11976564e09498b926
Author: Daniel <danieldm53@educastur.es>
Date:   Tue Nov 4 19:20:13 2025 +0100

    añado el gitignore

commit b7a3f33d89879081468ecdaa1f66e4a754bdacbb
Author: Daniel <danieldm53@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" />
```