

PRIMER EJERCICIO

A1 - CONFIGURAR GIT

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro
$ git config --global user.name "Alejandro"

Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro
$ git config --global user.mail "aleduarte@gmail.com"
```

A2 – INICIALIZAR REPOSITORIO GIT

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro
$ git init
Initialized empty Git repository in C:/Users/Usuario/Documents/git_Alejandro/.git/

Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
```

A3 – PASARLO AL AREA DE STAGE

A4 – VER EL ESTADO DEL REPOSITORIO

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git add PrimerFichero.txt
warning: in the working copy of 'PrimerFichero.txt', LF will be replaced by CRLF the next time Git touches it

Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   PrimerFichero.txt
```

A5 – CREAR LA PRIMERA VERSION. MENSAJE: “VERSION1”

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git commit -m "version 1"
[master (root-commit) 68f022d] version 1
1 file changed, 2 insertions(+)
 create mode 100644 PrimerFichero.txt
```

A6 – BORRAR SegundoFichero.txt DESDE GIT

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ rm SegundoFichero.txt

Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ dir
PrimerFichero.txt  TercerFichero.txt
```

A7 – CREAR LAS SEGUNDA VERSION DEL PROYECTO. MENSAJE “Version 2”

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git status
On branch master
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:   PrimerFichero.txt

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

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

Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git add PrimerFichero.txt
warning: in the working copy of 'PrimerFichero.txt', LF will be replaced by CRLF the ne
xt time Git touches it

Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   PrimerFichero.txt

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

Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git add TercerFichero.txt

Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   PrimerFichero.txt
        new file:   TercerFichero.txt

Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git commit -m "version 2"
[master b971623] version 2
 2 files changed, 1 insertion(+)
 create mode 100644 TercerFichero.txt
```

Tambien se podría haber hecho en una única sentencia el add y commit con:

- `git commit -am "Version2"`

A8 – VER LAS VERSIONES DE LAS QUE DISPONGO

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git show
commit b971623574875275a0fe5cc80bf14341c176c2b9 (HEAD -> master)
Author: Alejandro <aleduarte@gmail.com>
Date:   Wed May 29 12:09:40 2024 +0200

    version 2

diff --git a/PrimerFichero.txt b/PrimerFichero.txt
index 75b6197..1213851 100644
--- a/PrimerFichero.txt
+++ b/PrimerFichero.txt
@@ -1,2 +1,3 @@
 Alejandro Duarte
 aleduarte@gmail.com
+preparando version 2
diff --git a/TercerFichero.txt b/TercerFichero.txt
new file mode 100644
index 0000000..e69de29
```

A10 – QUITAR LOS CAMBIOS EN “tercerFichero.txt” DE LA ZONA DE INTERCAMBIO TEMPORAL, PERO MANTENERLOS EN EL DIRECTORIO DE TRABAJO

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git reset
Unstaged changes after reset:
M   TercerFichero.txt

Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git status
On branch master
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:   TercerFichero.txt

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

A11 – MOSTRAR LOS ULTIMOS CAMBIOS DEL REPOSITORIO

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git log
commit b971623574875275a0fe5cc80bf14341c176c2b9 (HEAD -> master)
Author: Alejandro <aleduarte@gmail.com>
Date:   Wed May 29 12:09:40 2024 +0200

    version 2

commit 68f022d5040b075838794319bd135e112d6cf37c
Author: Alejandro <aleduarte@gmail.com>
Date:   Wed May 29 12:03:47 2024 +0200

    version 1
```

A12 - DESHACER LOS CAMBIOS REALIZADOS EN EL FICHER “tercerFichero.txt” PARA VOLVER A LA VERSION ANTERIOR DEL FICHERO.

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git checkout -- TercerFichero.txt
```

A13 – MOSTRAR LOS CAMBIOS CON RESPECTO A LA ULTIMA VERSION GUARDADA DEL REPOSITORIO

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git diff
warning: in the working copy of 'PrimerFichero.txt', LF will be replaced by CRLF the ne
xt time Git touches it
diff --git a/PrimerFichero.txt b/PrimerFichero.txt
index 1213851..d5a890f 100644
--- a/PrimerFichero.txt
+++ b/PrimerFichero.txt
@@ -1,3 +1,4 @@
Alejandro Duarte
aleduarte@gmail.com
preparando version 2
+preparando para versión 3
```

A14 – MOSTRAR LAS DIFERENCIAS ENTRE LA ULTIMA VERSION Y DOS VERSIONES ANTERIORES

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git diff HEAD~2..HEAD
diff --git a/PrimerFichero.txt b/PrimerFichero.txt
index 75b6197..d5a890f 100644
--- a/PrimerFichero.txt
+++ b/PrimerFichero.txt
@@ -1,2 +1,4 @@
Alejandro Duarte
aleduarte@gmail.com
+preparando version 2
+preparando para versión 3
diff --git a/TercerFichero.txt b/TercerFichero.txt
new file mode 100644
index 0000000..e69de29
```

A15 – CAMBIAR EL MENSAJE DEL ULTIMO COMMIT POR “Añadido fecha”

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git commit --amend -m "Añadido fecha."
[master f70b81c] Añadido fecha.
Date: Wed May 29 12:32:04 2024 +0200
1 file changed, 1 insertion(+)
```

A16 – RECUPERAR LA PRIMERA VERSION DEL PROYECTO

2.- RAMAS

2.1 – CREAR UNA NUEVA RAMA LLAMADA RamaDos

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git branch RamaDos
```

2.2 – MOSTRAR LAS RAMAS DEL REPOSITORIO

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git branch -av
  RamaDos f70b81c Añadido fecha.
* master  f70b81c Añadido fecha.
```

2.3 – CAMBIARSE A LA RAMA RamaDos

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git checkout RamaDos
Switched to branch 'RamaDos'

Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (RamaDos)
$
```

2.4 – CREAR UN FICHERO LLAMADO “ficheroRamaDos.txt”. Dotarlo de contenido

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (RamaDos)
$ cat > ficheroRamaDos.txt
Espero poder pasar a segundo.

Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (RamaDos)
$ dir
PrimerFichero.txt  TercerFichero.txt  ficheroRamaDos.txt
```

2.5 – FUSIONAR ESTA RAMA SOBRE LA MASTER

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (RamaDos)
$ git add ficheroRamaDos.txt
warning: in the working copy of 'ficheroRamaDos.txt', LF will be replaced by CRLF the next time Git touches it

Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (RamaDos)
$ git status
On branch RamaDos
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   ficheroRamaDos.txt

Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (RamaDos)
$ git commit -m "Creacion de fichero en RamaDos"
[RamaDos 3c82c11] Creacion de fichero en RamaDos
 1 file changed, 1 insertion(+)
 create mode 100644 ficheroRamaDos.txt

Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (RamaDos)
$ git checkout master
Switched to branch 'master'

Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git merge RamaDos
Updating f70b81c..3c82c11
Fast-forward
 ficheroRamaDos.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 ficheroRamaDos.txt
```

2.6 – ELIMINAR LA RAMA RamaDos

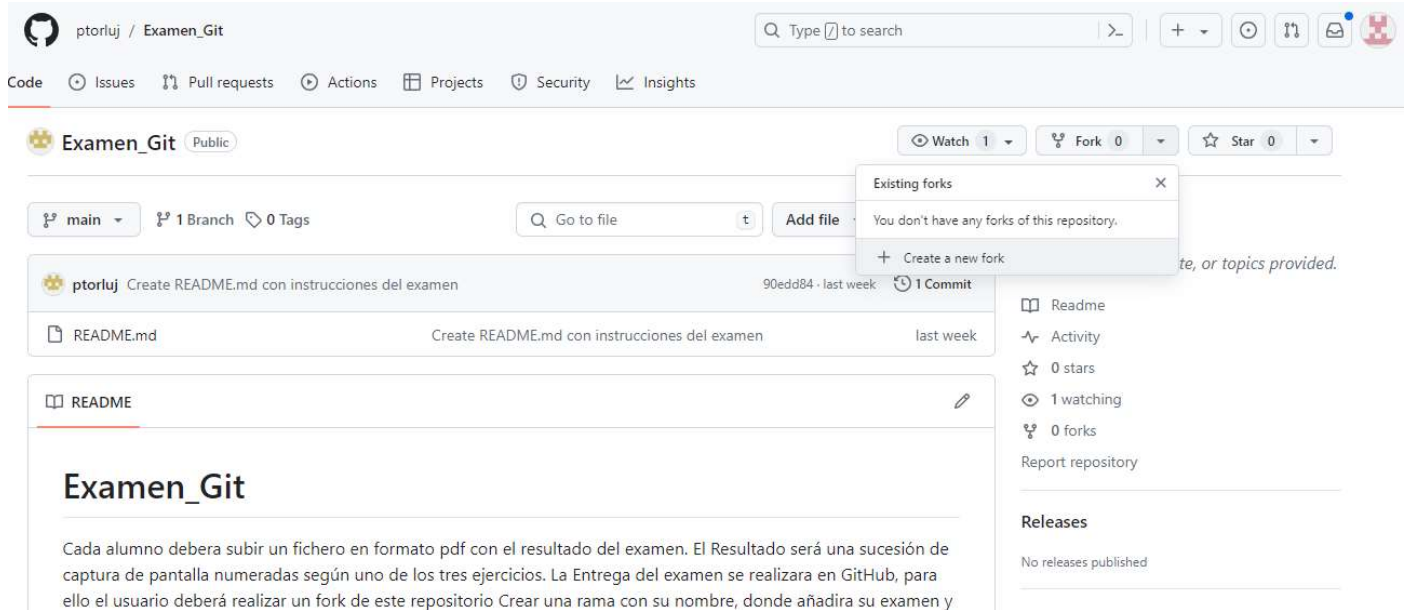
```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git branch -d RamaDos
Deleted branch RamaDos (was 3c82c11).
```

3.- CONECTAR CON GITHUB Y TRAERSE A LOCAL EL SIGUIENTE PROYECTO

3.1 – CONECTAR EL REPOSITORIO LOCAL CON EL REPOSITORIO REMOTO CON EL NOMBRE “Arduino”

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git remote add Arduino https://github.com/arduino/Arduino.git
```

3.2 – CREAR UN “FORK” DEL REPOSITORIO REMOTO



The screenshot shows the GitHub repository page for 'ptorluj / Examen_Git'. The repository is public and has 1 branch and 0 tags. The README file is visible, titled 'Examen_Git', with a description of the exam process. The sidebar on the right shows navigation links for Readme, Activity, Stars, Watching, Forks, and Releases. A 'Fork' button is located in the top right corner, and a dropdown menu is open, showing 'Create a new fork' as an option.

Create a new fork

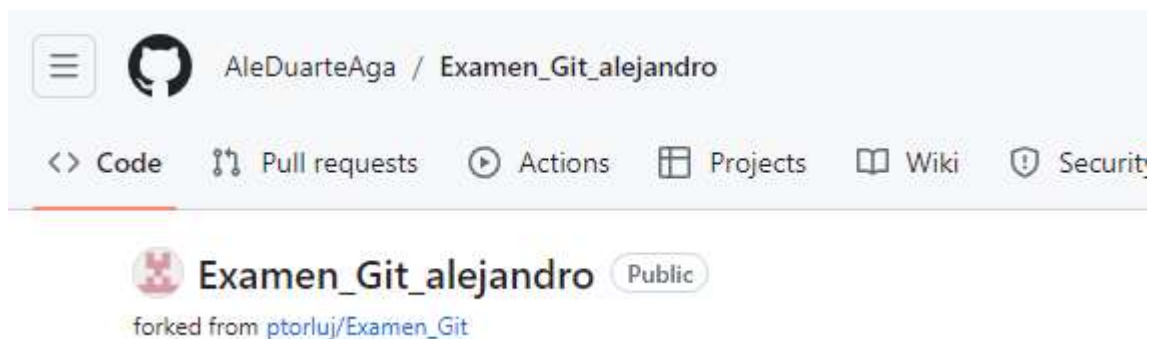
A *fork* is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project.

Required fields are marked with an asterisk (*).

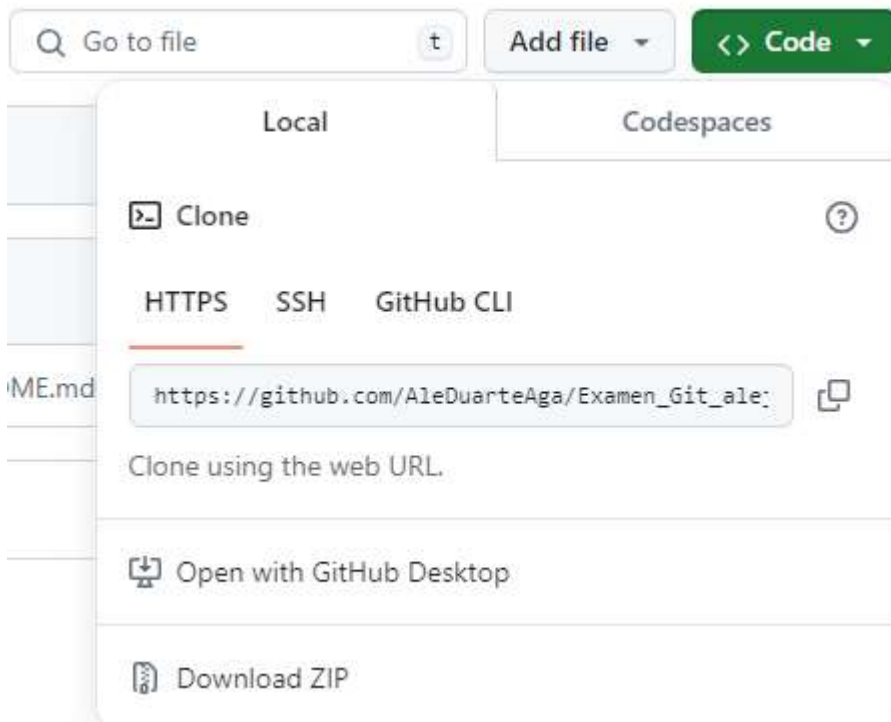
Owner * / Repository name *

AleDuarteAga / Examen_Git_alejandro

✓ Examen_Git_alejandro is available.



The screenshot shows the GitHub repository page for 'AleDuarteAga / Examen_Git_alejandro'. The repository is public and was forked from 'ptorluj/Examen_Git'. The page shows the repository details, including the README and a sidebar with navigation links for Code, Pull requests, Actions, Projects, Wiki, and Security.



```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git remote add ExamenGit https://github.com/AleDuarteAga/Examen_Git_alejandro.git
```

3.3 - MOSTRAR TODOS LOS REPOSITORIO REMOTOS CONFIGURADOS

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git remote -v
Arduino https://github.com/arduino/Arduino.git (fetch)
Arduino https://github.com/arduino/Arduino.git (push)
ExamenGit https://github.com/AleDuarteAga/Examen_Git_alejandro.git (fetch)
ExamenGit https://github.com/AleDuarteAga/Examen_Git_alejandro.git (push)
```

3.4 – CLONAR EL REPOSITORIO REMOTO “ExamenGit” en el local.

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git clone https://github.com/AleDuarteAga/Examen_Git_alejandro.git
Cloning into 'Examen_Git_alejandro'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
```

3.5 – CREAR UNA NUEVA RAMA CON TU NOMBRE Y CAMBIA A ELLA

```
Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (master)
$ git checkout -b alejandro
Switched to a new branch 'alejandro'

Usuario@Z2-20-004 MINGW64 ~/Documents/git_Alejandro (alejandro)
```