

## 1.-Configuración inicial

```
PS C:\Users\legma> git --version
git version 2.48.1.windows.1
PS C:\Users\legma> git config --global user.name "MariFer Legorreta"
PS C:\Users\legma> git config --global user. email "leg.mafer@gmail.com
>>
```

## 2. Crear un repositorio nuevo

```
>> mkdir git-practica
>> cd git-practica
>> git init
>> |
```

## 3. Primer archivo y primer commit

```
>> echo "#Proyecto de práctica con Git" > README.md
error: key does not contain variable name: user.
PS C:\Users\legma> echo "#Proyecto de práctica con Git" > README.md
PS C:\Users\legma> git add README.md
PS C:\Users\legma> git commit -m "Primer commit: agregar README"
[master (root-commit) 6861fb7] Primer commit: agregar README
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 README.md
```

## 4. Revisar historial y estado

```
PS C:\Users\legma> git status
warning: could not open directory 'Configuración local/': Permission denied
warning: could not open directory 'Cookies/': Permission denied
warning: could not open directory 'Datos de programa/': Permission denied
warning: could not open directory 'Documents/Mi música/': Permission denied
warning: could not open directory 'Documents/Mis imágenes/': Permission denied
warning: could not open directory 'Documents/Mis vídeos/': Permission denied
warning: could not open directory 'Entorno de red/': Permission denied
warning: could not open directory 'Impresoras/': Permission denied
warning: could not open directory 'Menú Inicio/': Permission denied
warning: could not open directory 'Mis documentos/': Permission denied
warning: could not open directory 'Plantillas/': Permission denied
warning: could not open directory 'Reciente/': Permission denied
warning: could not open directory 'SendTo/': Permission denied
On branch master
  Your branch is up-to-date.
```

```
PS C:\Users\legma> git log --oneline --graph
* 6861fb7 (HEAD -> master) Primer commit: agregar README
PS C:\Users\legma>
```

## 5. Crear y modificar archivos

```
PS C:\Users\legma> echo "print ('Hola Git!') > app.py
PS C:\Users\legma> git add app.py
PS C:\Users\legma>
PS C:\Users\legma> git commit -m "Aregar archivo app.py con saludo"
[master 43b308a] Agregar archivo app.py con saludo
 1 file changed, 0 insertions(+), 0 deletions(-)
  create mode 100644 app.py
PS C:\Users\legma> echo "print ('Modificado') >> app.py
```

```
PS C:\Users\legma> git add app.py
PS C:\Users\legma> git commit -m "Modificar app.py para imprimir mensaje nuevo"
[master 9265df1] Modificar app.py para imprimir mensaje nuevo
 1 file changed, 0 insertions(+), 0 deletions(-)
```

## 6. Deshacer cambios

```
PS C:\Users\legma> git checkout -- app.py
PS C:\Users\legma> git reset app .py
fatal: ambiguous argument 'app': unknown revision or path not in the working tree.
Use '--' to separate paths from revisions, like this:
'git <command> [<revision>...] -- [<file>...]'
PS C:\Users\legma> git reset app.py
```

## 7. Crear y cambiar de ramas

```
PS C:\Users\legma> git branch nueva-funcionalidad
PS C:\Users\legma> git heckout nueva-funcionalidad
git: 'heckout' is not a git command. See 'git --help'.

The most similar command is
    checkout
PS C:\Users\legma> git checkout nueva-funcionalidad
Switched to branch 'nueva-funcionalidad'
PS C:\Users\legma> git checkout -b nueva-funcionalidad
fatal: a branch named 'nueva-funcionalidad' already exists
PS C:\Users\legma> echo "print('Nueva funcionalidad') " >> app.py
PS C:\Users\legma> git add app.py
PS C:\Users\legma> git commit -m "Aregar nueva funcionalidad en app.py"
[nueva-funcionalidad 0c0f7d4] Agregar nueva funcionalidad en app.py
 1 file changed, 0 insertions(+), 0 deletions(-)
```

## 8. Fusionar ramas

```
PS C:\Users\legma> git checkout master
Already on 'master'
PS C:\Users\legma> git merge nueva-funcionalidad
Updating 9265df1..0c0f7d4
Fast-forward
  app.py | Bin 88 -> 150 bytes
  1 file changed, 0 insertions(+), 0 deletions(-)
```

## 9. Conectarse con un repositorio remoto

```
PS C:\Users\legma> git remote add origin https://github.com/MariFerLegorreta/git-practicaAppD.git
PS C:\Users\legma> git branch -M main
PS C:\Users\legma> git push -u origin main
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 16 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (12/12), 1.21 KiB | 207.00 KiB/s, done.
Total 12 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/MariFerLegorreta/git-practicaAppD.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
PS C:\Users\legma> git pull origin main
From https://github.com/MariFerLegorreta/git-practicaAppD
 * branch      main      -> FETCH_HEAD
Already up to date.
```

## 10. Actualizar y colaborar

```
PS C:\Users\legma> git pull origin main
From https://github.com/MariFerLegorreta/git-practicaAppD
 * branch      main      -> FETCH_HEAD
Already up to date.
PS C:\Users\legma> git push origin main
Everything up-to-date
PS C:\Users\legma>
```

## Ejercicio Guiado de Git

### 1. Preparar entorno:

```
PS C:\Users\legma> mkdir git-conflictos

Directorio: C:\Users\legma

Mode          LastWriteTime    Length Name
----          -----        ---- -
d-----  17/09/2025  09:47 a. m.          git-conflictos

PS C:\Users\legma> cd git-conflictos
PS C:\Users\legma\git-conflictos>
PS C:\Users\legma\git-conflictos> git init
Initialized empty Git repository in C:/Users/legma/git-conflictos/.git/
PS C:\Users\legma\git-conflictos> echo "print('Hola desde main')" > app.py
PS C:\Users\legma\git-conflictos> git add app.py
PS C:\Users\legma\git-conflictos> git commit -m "Commint inicial con app.py"
[master (root-commit) c9c9b0e] Commint inicial con app.py
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 app.py
```

### 2. Crear y trabajar en feature-a

```
PS C:\Users\legma\git-conflictos> git checkout -b feature-a
Switched to a new branch 'feature-a'
PS C:\Users\legma\git-conflictos> echo "print('Cambio desde feature A')" >> app.py
PS C:\Users\legma\git-conflictos> git add.py
git: 'add.py' is not a git command. See 'git --help'.
PS C:\Users\legma\git-conflictos> git add app.py
PS C:\Users\legma\git-conflictos> git commit -m "Feature A: agregar mensaje en app.py"
[feature-a 5210325] Feature A: agregar mensaje en app.py
 1 file changed, 0 insertions(+), 0 deletions(-)
PS C:\Users\legma\git-conflictos>
```

### 3. Crear y trabajar en feature-b

```
PS C:\Users\legma\git-conflictos> git checkout -b feature-b
Switched to a new branch 'feature-b'
PS C:\Users\legma\git-conflictos> echo "print('Cambio desde feature B')" >> app.py
PS C:\Users\legma\git-conflictos> git add app.py
PS C:\Users\legma\git-conflictos> git commit -m "Feature B: agregar mensaje en app.py"
[feature-b c9822ce] Feature B: agregar mensaje en app.py
 1 file changed, 0 insertions(+), 0 deletions(-)
```

#### 4. Simular conflicto

```
PS C:\Users\legma\git-conflictos> git checkout master
Switched to branch 'master'
PS C:\Users\legma\git-conflictos> git merge feature-a
Updating c9c9b0e..5210325
Fast-forward
  app.py | Bin 54 -> 120 bytes
  1 file changed, 0 insertions(+), 0 deletions(-)
PS C:\Users\legma\git-conflictos> git merge feature-b
warning: Cannot merge binary files: app.py (HEAD vs. feature-b)
Auto-merging app.py
CONFLICT (content): Merge conflict in app.py
Automatic merge failed; fix conflicts and then commit the result.
PS C:\Users\legma\git-conflictos>
```

#### 5. Resolver conflicto

```
print('Hola desde main')
print('Cambio desde feature A y B|')
```

```
PS C:\Users\legma\git-conflictos> git add app.py
PS C:\Users\legma\git-conflictos> git commit -m "Resolver conflicto entre feature A y B"
[master 4c146b3] Resolver conflicto entre feature A y B
PS C:\Users\legma\git-conflictos> |
```

#### 6. Ver historial grafico

```
PS C:\Users\legma\git-conflictos> git log --oneline --graph --all
*   4c146b3 (HEAD -> master) Resolver conflicto entre feature A y B
|\ 
| * c9822ce (feature-b) Feature B: agregar mensaje en app.py
* | 5210325 (feature-a) Feature A: agregar mensaje en app.py
|/
* c9c9b0e Commit initial con app.py
PS C:\Users\legma\git-conflictos> |
```

#### 7. Subir a remoto

```
PS C:\Users\legma\git-conflictos> git remote add origin https://github.com/MariFerLegorreta/conflictos-git.git
PS C:\Users\legma\git-conflictos> git branch -M main
PS C:\Users\legma\git-conflictos>
PS C:\Users\legma\git-conflictos> git push -u origin main
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 16 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (12/12), 1005 bytes | 125.00 KiB/s, done.
Total 12 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (4/4), done.
To https://github.com/MariFerLegorreta/conflictos-git.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
PS C:\Users\legma\git-conflictos>
```