



**UNIVERSIDAD  
CATÓLICA  
DE CÓRDOBA**  
JESUITAS

**INGENIERÍA DE SOFTWARE 3  
TRABAJO PRÁCTICO N°1**

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- Se creo una carpeta llamado **Ing\_3**, se crea un archivo de texto **README.md** y se inicia un repositorio local con **git init**.

```

~ ➤ mkdir Ing_3
~ ➤ cd Ing_3
~/Ing_3 ➤ echo Readme.md
Readme.md
~/Ing_3 ➤ nano Readme.md
~/Ing_3 ➤ git init

```

- Se usa **git status** para saber que archivos fueron modificados y luego se hace **git add {archive\_names}** para pasarlos al nivel de staging. Por último se hace **git commit -m "comment"** con el cual se agregan los cambios al repositorio.

```

~/Ing_3 git P master ? ➤ git status
On branch master

No commits yet

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

nothing added to commit but untracked files present (use "git add" to track)
~/Ing_3 git P master ? ➤ git add Readme.md
~/Ing_3 git P master + ➤ git commit -m "Add Readme.md"

```

- Se hace **git push** para subir los commits locales a un repositorio remoto.

```

~/Ing_3 git P develo ➤ git push
fatal: The current branch develop has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin develop

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.
~/Ing_3 git P develo ➤ git push --set-upstream origin develop
Enter passphrase for key '/home/angelo/.ssh/id_ed25519':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 264 bytes | 264.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'develop' on GitHub by visiting:
remote:   https://github.com/AngeloMenel98/Ing_3/pull/new/develop
remote:
To github.com:AngeloMenel98/Ing_3.git
 * [new branch]      develop -> develop
branch 'develop' set up to track 'origin/develop'.

```

- Con **git branch** se crea una rama aparte de la rama main. Esto nos permite trabajar en el repositorio paralelo a la rama principal. **git checkout** nos permite pasarnos a la rama creada.

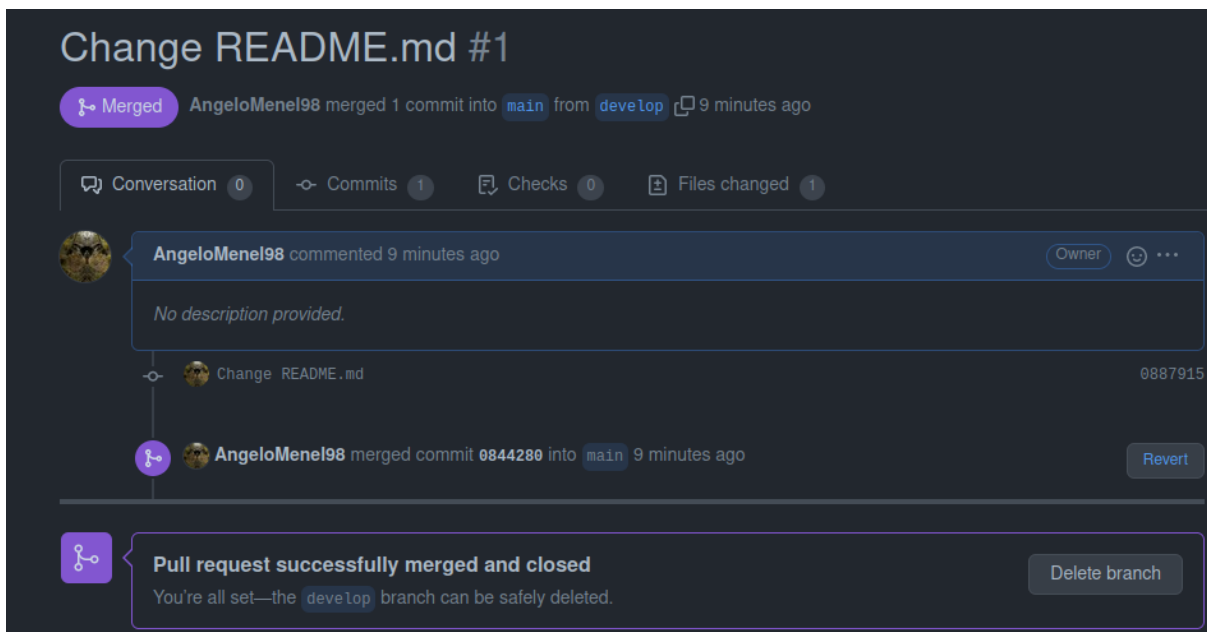
```

~/Ing_3 git P maste git remote add origin git@github.com:AngeloMenel98/Ing_3.git
git branch -M main
git push -u origin main
Enter passphrase for key '/home/angelo/.ssh/id_ed25519':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 218 bytes | 218.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:AngeloMenel98/Ing_3.git
* [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
~/Ing_3 git P mai git branch develop
~/Ing_3 git P mai git checkout develop
Switched to branch 'develop'
~/Ing_3 git P develo nano README.md
~/Ing_3 git P develop ! git status
On branch develop
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:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
~/Ing_3 git P develop ! git add README.md

```

- **git merge** se utiliza para unificar los commits de una rama a otra. Un pull request sirve para sugerir un merge a la rama main pudiendo otras personas que trabajan en el mismo repositorio ver los commits a mergear y aprobarlo o no al PR.



- **git clone** nos permite clonar todo un repositorio remoto para traerlo localmente.

```

~ ➤ git clone git@github.com:AngeloMenel98/Ing_3.git IngB_3
Cloning into 'IngB_3'...
Enter passphrase for key '/home/angelo/.ssh/id_ed25519':
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 7 (delta 0), reused 6 (delta 0), pack-reused 0
Receiving objects: 100% (7/7), done.
~ ➤ cd Ing_3
~/Ing_3 🐱 📁 main ➤ nano Readme.md
~/Ing_3 🐱 📁 main ! ➤ git add Readme.md
~/Ing_3 🐱 📁 main + ➤ git commit -m "Add new line to README"
[main 2d66247] Add new line to README
1 file changed, 1 insertion(+)
~/Ing_3 🐱 📁 main ? ➤ git push
Enter passphrase for key '/home/angelo/.ssh/id_ed25519':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 293 bytes | 293.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:AngeloMenel98/Ing_3.git
  0844280..2d66247  main -> main
~/Ing_3 🐱 📁 main ➤ cd ..
~ ➤ cd IngB_3
~/IngB_3 🐱 📁 main ➤ nano Readme.md
~/IngB_3 🐱 📁 main ! ➤ git add Readme.md
~/IngB_3 🐱 📁 main + ➤ git commit -m "Add new line to README"

```

- Puede ocurrir que si hay un conflicto de mergeo, git nos avisa que hay un archivo que no se puede pushear porque hay dos versiones del archivo que tiene cosas que tu archivo localmente no lo tiene.

```

~/IngB_3 🐱 📁 main ! ➤ git add Readme.md
~/IngB_3 🐱 📁 main + ➤ git commit -m "Add new line to README"
[main 6de7122] Add new line to README
1 file changed, 1 insertion(+)
~/IngB_3 🐱 📁 main ? ➤ git push
Enter passphrase for key '/home/angelo/.ssh/id_ed25519':
To github.com:AngeloMenel98/Ing_3.git
! [rejected]        main -> main (fetch first)
error: failed to push some refs to 'github.com:AngeloMenel98/Ing_3.git'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

```

- Se puede usar programas como P4Vmerge para poder ver las diferentes versiones del mismo archivo y corregir los problemas que tiene. Es decir, poder elegir las líneas de código correctas.

