

Universidad de Costa Rica

Facultad de Ingeniería

Escuela de Ingeniería Eléctrica

Laboratorio de GIT

Curso:

IE-0117 Programación Bajo
Plataformas Abiertas

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Figura 1.

Haciendo un fork al repositorio personal.

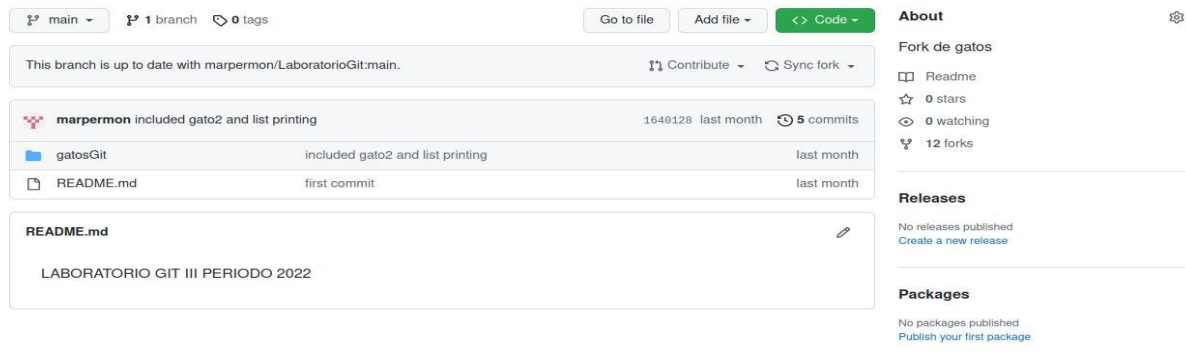


Figura 2.

Clonación del repositorio y creación de una nueva rama.

```
vcorella@ie0117:~/PROGRA/repositorios$ git clone git@github.com:VCORELLA/LaboratorioGit.git
Cloning into 'LaboratorioGit'...
The authenticity of host 'github.com (140.82.114.4)' can't be established.
ECDSA key fingerprint is SHA256:p2QAMXNIC1TJYWeIOtrVc98/R1BUFWu3/LiyKgUfQM.
Are you sure you want to continue connecting (yes/no/[fingerprint])? Y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added 'github.com,140.82.114.4' (ECDSA) to the list of known hosts.
remote: Enumerating objects: 19, done.
remote: Counting objects: 100% (19/19), done.
remote: Compressing objects: 100% (14/14), done.
remote: Total 19 (delta 2), reused 19 (delta 2), pack-reused 0
Receiving objects: 100% (19/19), done.
Resolving deltas: 100% (2/2), done.
vcorella@ie0117:~/PROGRA/repositorios$ ls
LaboratorioGit
vcorella@ie0117:~/PROGRA/repositorios$ cd LaboratorioGit/
vcorella@ie0117:~/PROGRA/repositorios/LaboratorioGit$ ls
gatosGit  README.md
vcorella@ie0117:~/PROGRA/repositorios/LaboratorioGit$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
vcorella@ie0117:~/PROGRA/repositorios/LaboratorioGit$ git checkout -b feature
Switched to a new branch 'feature'
vcorella@ie0117:~/PROGRA/repositorios/LaboratorioGit$ git status
On branch feature
nothing to commit, working tree clean
```

Figura 3.

Agregando un nuevo objeto de nombre gato3.

```
vcorella@ie0117:~/PROGRA/repositorios/LaboratorioGit$ git commit -m "Se esta agregando un nuevo objeto al codigo llamado gato3, de nombre Ruby, de color blanco y 1 año de edad"
[feature 6e28549] Se esta agregando un nuevo objeto al codigo llamado gato3, de nombre Ruby, de color blanco y 1 año de edad
1 file changed, 6 insertions(+)
vcorella@ie0117:~/PROGRA/repositorios/LaboratorioGit$ git status
On branch feature
nothing to commit, working tree clean
```

Figura 4.

Añadiendo commits y push.

```
vcorella@te0117:~/PROGRA/repositorios/LaboratorioGit$ git add .
vcorella@te0117:~/PROGRA/repositorios/LaboratorioGit$ git commit -m "Se esta cambiando el nombre del objeto gato1, de Sussy a Mabel"
[feature 5e69b12] Se esta cambiando el nombre del objeto gato1, de Sussy a Mabel
 1 file changed, 1 insertion(+), 1 deletion(-)
vcorella@te0117:~/PROGRA/repositorios/LaboratorioGit$ git status
On branch feature
nothing to commit, working tree clean
vcorella@te0117:~/PROGRA/repositorios/LaboratorioGit$ git push origin feature
Warning: Permanently added the ECDSA host key for IP address '140.82.114.3' to the list of known hosts.
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Compressing objects: 100% (8/8), done.
Writing objects: 100% (8/8), 931 bytes | 116.00 KiB/s, done.
Total 8 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
remote:
remote: Create a pull request for 'feature' on GitHub by visiting:
remote:   https://github.com/VCORELLA/LaboratorioGit/pull/new/feature
remote:
To github.com:VCORELLA/LaboratorioGit.git
 * [new branch]      feature -> feature
```

Figura 5.

Realizando un merge de la rama de feature a la rama de main y resolución de conflictos.

```
vcorella@te0117:~/PROGRA/repositorios/LaboratorioGit$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

All conflicts fixed but you are still merging.
  (use "git commit" to conclude merge)

Changes to be committed:
  modified:   gatosGit/gatos.py

vcorella@te0117:~/PROGRA/repositorios/LaboratorioGit$ git add .
vcorella@te0117:~/PROGRA/repositorios/LaboratorioGit$ git commit -m "Se esta realizando un merge de la rama feautre a la rana main, y ademas se resuelven los conflictos causados por el nombre del objeto gato1"
[main b81fe5d] se esta realizando un merge de la rana feautre a la rana main, y ademas se resuelven los conflictos causados por el nombre del objeto gato1
vcorella@te0117:~/PROGRA/repositorios/LaboratorioGit$ git status
On branch main
Your branch is ahead of 'origin/main' by 4 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

Figura 6.

Conflictos generados al correr un merge.

```
vcorella@te0117:~/PROGRA/repositorios/LaboratorioGit$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
vcorella@te0117:~/PROGRA/repositorios/LaboratorioGit$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
vcorella@te0117:~/PROGRA/repositorios/LaboratorioGit$ git add .
vcorella@te0117:~/PROGRA/repositorios/LaboratorioGit$ git commit -m "En la rama principal main, se esta cambiando el nombre del objeto1, de Sussy a Siri"
[main 282ed76] En la rama principal main, se esta cambiando el nombre del objeto1, de Sussy a Siri
 1 file changed, 1 insertion(+), 1 deletion(-)
vcorella@te0117:~/PROGRA/repositorios/LaboratorioGit$ man git
vcorella@te0117:~/PROGRA/repositorios/LaboratorioGit$ git checkout feature
Switched to branch 'feature'
vcorella@te0117:~/PROGRA/repositorios/LaboratorioGit$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)
vcorella@te0117:~/PROGRA/repositorios/LaboratorioGit$ git merge feature
Auto-merging gatosGit/gatos.py
CONFLICT (content): Merge conflict in gatosGit/gatos.py
Automatic merge failed; fix conflicts and then commit the result.
```

Figura 7.

Despliegue de información sobre los commits.

```
vcorella@ie0117:~/PROGRA/repositorios/LaboratorioGit$ git log --oneline --graph
* 5e69b12 (HEAD -> feature, origin/feature) Se esta cambiando el nombre del objeto gato1, de Sussy a Mabel
* 6e28549 Se esta agregando un nuevo objeto al codigo llamado gato3, de nombre Ruby, de color blanco y 1 año de edad
* 1640128 (origin/main, origin/HEAD) included gato2 and list printing
* c2b877a corrected mistakes
* d02a6d2 included gato1
* 7ab0adc included functions file
* a13fd08 first commit
```

Figura 8.

Funcionamiento de --graph dentro de git log.

```
--graph
Draw a text-based graphical representation of the commit history on the left hand side of the output. This may cause extra lines to be printed in between commits, in order for the graph history to be drawn properly. Cannot be combined with --no-walk.
```

Figura 9.

Funcionamiento de oneline dentro git log.

```
If the commit is a merge, and if the pretty-format is not oneline, email or raw, an additional line is inserted before the Author: line. This line begins with "Merge: " and the hashes of ancestral commits are printed, separated by spaces. Note that the listed commits may not necessarily be the list of the direct parent commits if you have limited your view of history: for example, if you are only interested in changes related to a certain directory or file.

There are several built-in formats, and you can define additional formats by setting a pretty.<name> config option to either another format name, or a format: string, as described below (see git-config(1)). Here are the details of the built-in formats:

• oneline
```

Figura 10.

Desarrollo de oneline para git log.

```
• oneline

<hash> <title line>

This is designed to be as compact as possible.
```

Figura 11.

Ejecutando el archivo gatos.py en la terminal.

```
vcorella@ie0117:~/PROGRA/repositorios/LaboratorioGit/gatosGit$ python3 gatos.py
Siri, 4 annos, color: negro
Pelusa, 3 annos, color: cafe
Ruby, 1 annos, color: Blanco
```

Figura 12.

Commit al repositorio junto con un archivo pdf.

```
vcorella@ie0117:~/PROGRA/repositorios/LaboratorioGit/gatosGit$ git add ../commit_punto10.pdf
vcorella@ie0117:~/PROGRA/repositorios/LaboratorioGit/gatosGit$ git commit -m "Se esta agregando un archivo pdf que contiene las imagenes solicitadas"
[main 4f177fa] Se esta agregando un archivo pdf que contiene las imagenes solicitadas
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 commit_punto10.pdf
```

Figura 13.

Realizando un push al main del repositorio remoto.

```
vcorella@ie0117:~/PROGRA/repositorios/LaboratorioGit/gatosGit$ git push origin main
Warning: Permanently added the ECDSA host key for IP address '140.82.113.3' to the list of known hosts.
Enumerating objects: 22, done.
Counting objects: 100% (22/22), done.
Compressing objects: 100% (16/16), done.
Writing objects: 100% (16/16), 273.72 KiB | 5.37 MiB/s, done.
Total 16 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To github.com:VCORELLA/LaboratorioGit.git
1640128..4f177fa  main -> main
```