

# Tutorial básico de Git en GitHub.

## Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?  
[Import a repository.](#)

Required fields are marked with an asterisk (\*).

Owner \*  
AlejandroSobral / Repository name \*  
GitBasicTutorial  
GitBasicTutorial is available.

Great repository names are short and memorable. Need inspiration? How about [urban-system](#) ?

Description (optional)

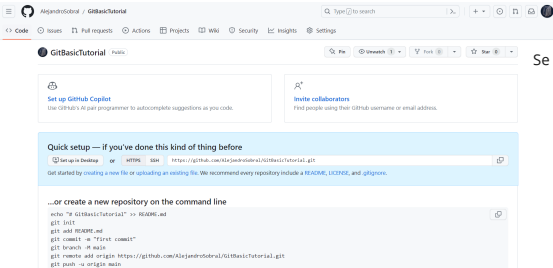
A repo to understand the useful commands that Git provides.

☒ Public  
Anyone on the internet can see this repository. You choose who can commit.  
☐ Private  
You choose who can see and commit to this repository.

Initialize this repository with:

☐ Add a README file  
This is where you can write a long description for your project. [Learn more about READMEs.](#)

Creamos un repo en cualquier proveedor de Git. En este caso, GitHub.  
Particularmente, sin README.



Se obtiene un repo vacío.

```
Alejandro@DESKTOP-MFQD2MC MINGW64 /c/GHTutorial
$ echo "# Git Basic Tutorial!" >> Readme.md

Alejandro@DESKTOP-MFQD2MC MINGW64 /c/GHTutorial
$ git init
Initialized empty Git repository in C:/GHTutorial/.git/

Alejandro@DESKTOP-MFQD2MC MINGW64 /c/GHTutorial (master)
$ git add Readme.md
warning: LF will be replaced by CRLF in Readme.md.
The file will have its original line endings in your working directory

Alejandro@DESKTOP-MFQD2MC MINGW64 /c/GHTutorial (master)
$ git commit -m "MainBranch - First Commit"
[master (root-commit) 6222736] MainBranch - First Commit
1 file changed, 1 insertion(+)
create mode 100644 Readme.md

Alejandro@DESKTOP-MFQD2MC MINGW64 /c/GHTutorial (master)
$ git branch -m MainBranch

Alejandro@DESKTOP-MFQD2MC MINGW64 /c/GHTutorial (MainBranch)
$ git remote add GitHubRepo https://github.com/AlejandroSobral/GitBasicTutorial.git

Alejandro@DESKTOP-MFQD2MC MINGW64 /c/GHTutorial (MainBranch)
$ git push -u GitHubRepo MainBranch
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 256 bytes | 256.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/AlejandroSobral/GitBasicTutorial.git
 * [new branch]      MainBranch -> MainBranch
Branch 'MainBranch' set up to track remote branch 'MainBranch' from 'GitHubRepo'.
```

Creo un archivo local

Creo un repo LOCAL

Agrego Readme.md al repo LOCAL

Creo un Commit en el repo LOCAL

Creo una branch, llamado "MainBranch"


Conecto mi repo LOCAL con un repo en GITHUB. (Remoto)


Pusheo la MainBranch al Repo Remoto.


Nótese que no existe "origin" ni "main", ya que esos nombres son por defaults, y fueron renombrados. El "origin" es el repositorio remoto, llamado GitHubRepo en este caso.

La única branch que existe fue llamada "MainBranch". Puede tener cualquier nombre y es totalmente equivalente a cualquier otra rama.

 GitBasicTutorial Public **Obtengo esto!**


 MainBranch ▾

 1 branch

 0 tags

Go to file

Add file ▾

 Code ▾

AlejandroSobral MainBranch - First Commit 6222736 1 minute ago 1 commit

Readme.md MainBranch - First Commit 1 minute ago

Readme.md

# Git Basic Tutorial!

## Ahora creamos un branch llamado "First Branch"

```
① Readme.md > # Git Basic Tutorial!
1 # Git Basic Tutorial!
2
3
4
5 FirstBranch:
6 All this stuff, blablabla
7 -/Nice and pretty code\-
```

```
Alejandro@DESKTOP-MFQDZNC MINGW64 /c/GHTutorial (MainBranch)
$ git branch FirstBranch

Alejandro@DESKTOP-MFQDZNC MINGW64 /c/GHTutorial (MainBranch)
$ git checkout FirstBranch
Switched to branch 'FirstBranch'

Alejandro@DESKTOP-MFQDZNC MINGW64 /c/GHTutorial (FirstBranch)
$ git add Readme.md
warning: LF will be replaced by CRLF in Readme.md.
The file will have its original line endings in your working directory

Alejandro@DESKTOP-MFQDZNC MINGW64 /c/GHTutorial (FirstBranch)
$ git commit -m "FirstBranch, add stuff"
[FirstBranch 6ddaf36] FirstBranch, add stuff
1 file changed, 6 insertions(+)

Alejandro@DESKTOP-MFQDZNC MINGW64 /c/GHTutorial (FirstBranch)
$ git push -u GitHubRepo FirstBranch
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 348 bytes | 348.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'FirstBranch' on GitHub by visiting:
remote: https://github.com/AlejandroSobral/GitBasicTutorial/pull/new/FirstBranch
remote:
To https://github.com/AlejandroSobral/GitBasicTutorial.git
 * [new branch] FirstBranch -> FirstBranch
Branch 'FirstBranch' set up to track remote branch 'FirstBranch' from 'GitHubRepo'.
```

```
① Readme.md X MINGW64/c/GHTutorial
① Readme.md > # Git Basic Tutorial!
1 # Git Basic Tutorial!
2
3
4
5 FirstBranch:
6 All this stuff, blablabla
7 -/Nice and pretty code\-
```

```
Alejandro@DESKTOP-MFQDZNC MINGW64 /c/GHTutorial (FirstBranch)
$ git checkout MainBranch
Switched to branch 'MainBranch'
Your branch is up to date with 'GitHubRepo/MainBranch'.

Alejandro@DESKTOP-MFQDZNC MINGW64 /c/GHTutorial (MainBranch)
$ git checkout FirstBranch
Switched to branch 'FirstBranch'
Your branch is up to date with 'GitHubRepo/FirstBranch'.

Alejandro@DESKTOP-MFQDZNC MINGW64 /c/GHTutorial (FirstBranch)
$
```

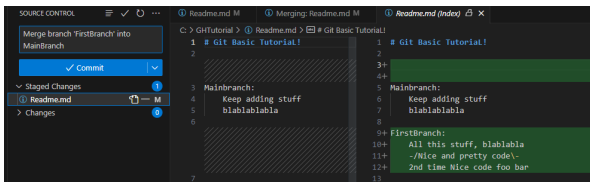
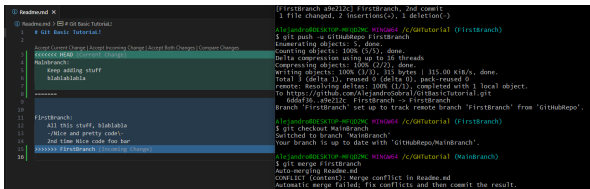
Pero si usamos "checkout", podemos ver la versión de cada rama.

# Cuando sea el momento, se vuelve al main y se hace un merge:

```
Alejandro@DESKTOP-MF0D2MC MINGW64 /c/GitTutorial (FirstBranch)
$ git checkout MainBranch
Switched to branch 'MainBranch'
Your branch is up to date with 'GitHubRepo/MainBranch'.

Alejandro@DESKTOP-MF0D2MC MINGW64 /c/GitTutorial (MainBranch)
$ git merge FirstBranch
Auto-merging Readme.md
CONFLICT (content): Merge conflict in Readme.md
Automatic merge failed; fix conflicts and then commit the result.

Alejandro@DESKTOP-MF0D2MC MINGW64 /c/GitTutorial (MainBranch)
$ git push -u GitHubRepo MainBranch
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 425 bytes | 425.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/AlejandroSobral/GitBasicTutorial.git
 f600e27..68ad2b3 MainBranch -> MainBranch
Branch 'MainBranch' set up to track remote branch 'MainBranch' from 'GitHubRepo'.
```



## Se obtiene:

GitBasicTutorial

Public

Pin

Unwatch

MainBranch

2 branches

0 tags

Go to file

Add file

Code

Your MainBranch branch isn't protected

Protect this branch from force pushing or deletion, or require status checks before merging. [Learn more](#)

Protect this branch

AlejandroSobral Merge branch 'FirstBranch' into MainBranch

68ad2b3 1 minute ago

6 commits

Readme.md

Merge branch 'FirstBranch' into MainBranch

1 minute ago

Readme.md

## Git Basic Tutorial!

MainBranch: Keep adding stuff blablabla

FirstBranch: All this stuff, blablabla ~Nice and pretty code- 2nd time Nice code foo bar

Y usando el comando de log y --graph se puede ver la historia con interfaz gráfica:

```
Alejandro@DESKTOP-MFQD2MC MINGW64 /c/GHTutorial (MainBranch)
$ git log --graph
*   commit 68ad2b3bd51a9452180d4f371db2c69b2dccbc71 (HEAD -> MainBranch, GitHubRepo/MainBranch)
    Merge: f600e27 a9e212c
    Author: Ale Sobral 147.886-2 <asobral@frba.utn.edu.ar>
    Date:   Sat Jul 8 14:37:10 2023 -0300

    Merge branch 'FirstBranch' into MainBranch

*   commit a9e212c9b55e33047e1aae4748890f6ea0d7488b (GitHubRepo/FirstBranch, FirstBranch)
    Author: Ale Sobral 147.886-2 <asobral@frba.utn.edu.ar>
    Date:   Sat Jul 8 14:34:12 2023 -0300

    FirstBranch, 2nd commit

*   commit 6ddaf361688f85d45f9c93c68c56450ae58c4740
    Author: Ale Sobral 147.886-2 <asobral@frba.utn.edu.ar>
    Date:   Sat Jul 8 14:31:26 2023 -0300

    FirstBranch, add stuff

*   commit f600e27558ba54950ee040372ff4e415cf3f4676
    Author: Ale Sobral 147.886-2 <asobral@frba.utn.edu.ar>
    Date:   Sat Jul 8 14:33:09 2023 -0300

    MainBranch, add stuff, 2nd time

*   commit 41fb600756091ef0f7a4463ca9a38408bf46694e
    Author: Ale Sobral 147.886-2 <asobral@frba.utn.edu.ar>
    Date:   Sat Jul 8 14:32:50 2023 -0300

    MainBranch, add stuff

*   commit 622273652571c6e2c962497cc88e27125343098e
    Author: Ale Sobral 147.886-2 <asobral@frba.utn.edu.ar>
    Date:   Sat Jul 8 14:28:20 2023 -0300

    MainBranch - First Commit
```