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 *   Repository name *
AlejandroSobral ▾ / GitBasicTutorial
                      ✓ GitBasicTutorial is available.

Great repository names are short and memorable. Need inspiration? How about *urban-system* ?
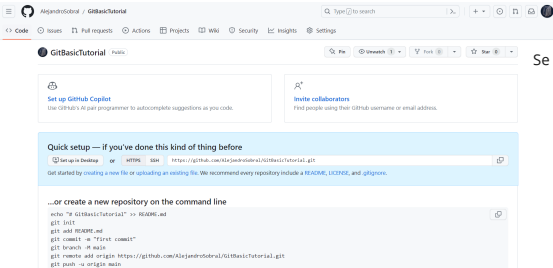
Description (optional)

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.

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GitBasicTutorial Public

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🖥 **Set up GitHub Copilot**
Use GitHub's AI pair programmer to autocomplete suggestions as you code.

👤 **Invite collaborators**
Find people using their GitHub username or email address.

Quick setup — if you've done this kind of thing before
🖥 Set up in Desktop   or   HTTPS SSH   https://github.com/AlejandroSobral/GitBasicTutorial.git
Get started by creating a new file or uploading an existing file. We recommend every repository include a README, LICENSE, and .gitignore.

...or create a new repository on the command line
```
echo "# GitBasicTutorial" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/AlejandroSobral/GitBasicTutorial.git
git push -u origin main
```

Se obtiene un repo vacío.

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.

Obtengo esto!

Ahora creamos un branch llamado "First Branch"
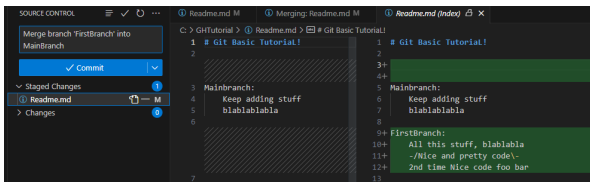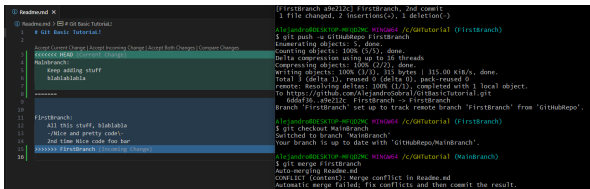

Pero si usamos "checkout", podemos ver la versión de cada rama.

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


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

Alejandro@DESKTOP-MFIQDZMC MINGW64 /c/GHTutorial (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-MFIQDZMC MINGW64 /c/GHTutorial (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 1), 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:

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
```