

# Versionado de Software Git Remoto

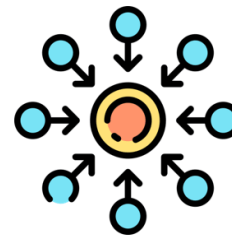
Tecnología de la Información en las Organizaciones

2024

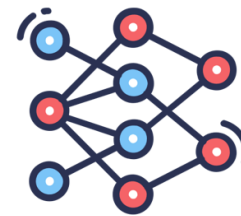
# Repaso

## Sistema de Control de Versiones

- ▶ Registrar cambios realizados en archivos.
- ▶ Volver a versiones anteriores.
- ▶ Visualizar qué se modificó en el tiempo.
- ▶ Identificar quién realizó qué cambios.
- ▶ Tipos
  - ▶ Locales (administración propia, DB)
  - ▶ Centralizados (SVN, Perforce, etc.)
  - ▶ Distribuidos (Git, Mercurial, etc.)



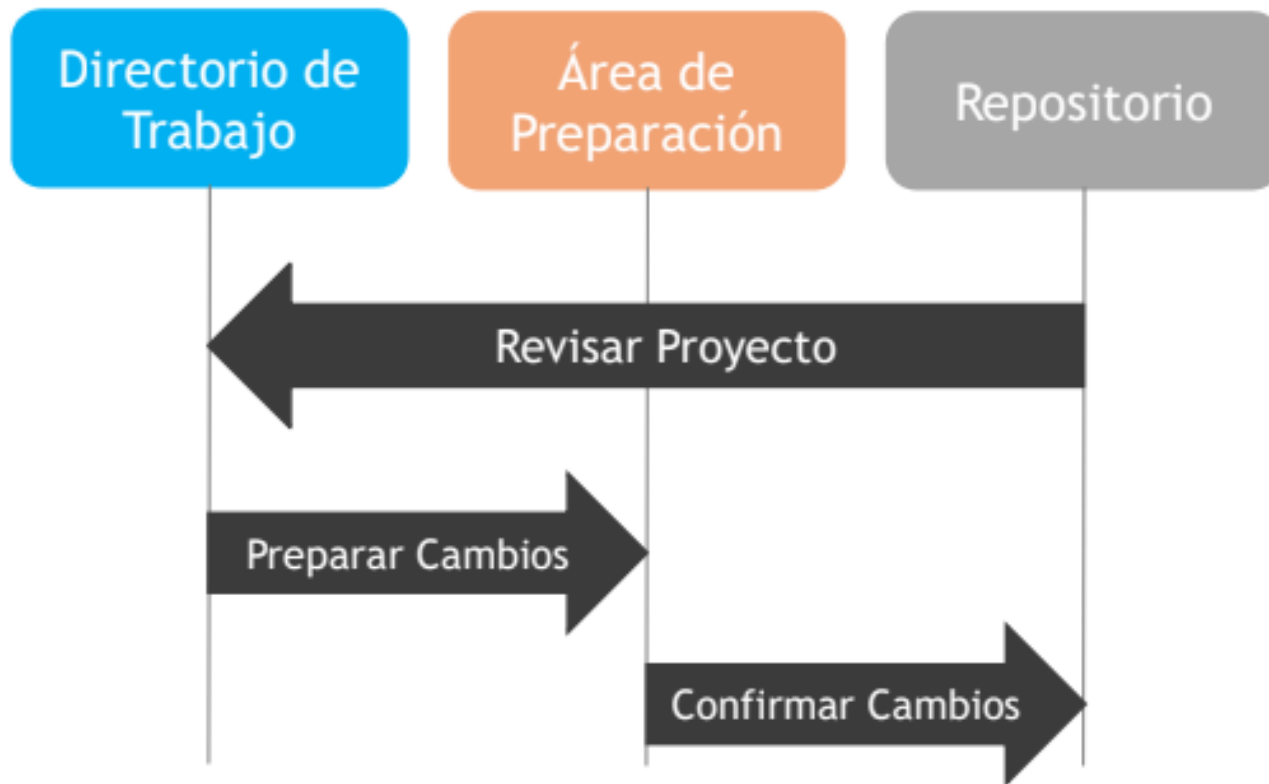
Centralized



Distributed

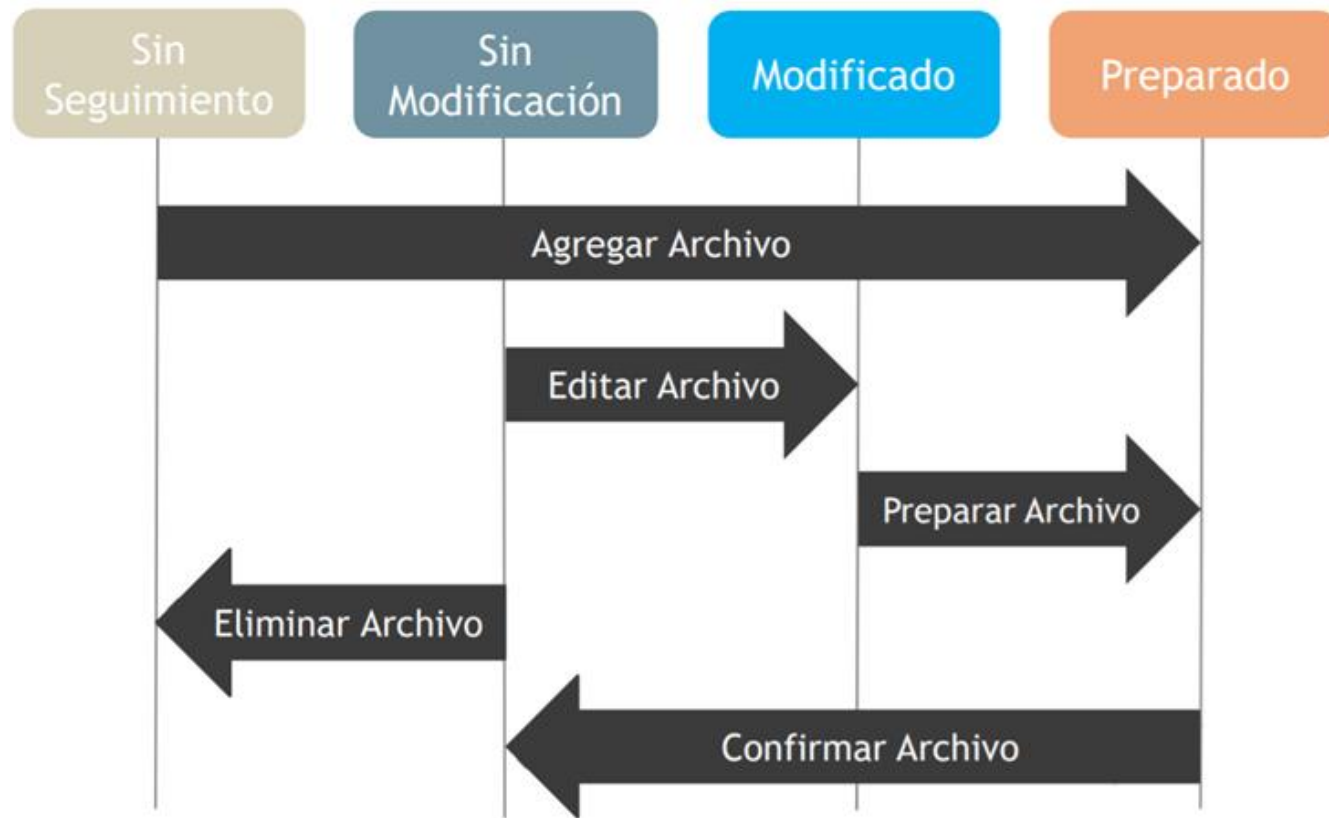
# Repaso

## Flujo de Trabajo en Git



# Repaso

## Ciclo de vida de los archivos



# Repaso Comandos

- ▶ Revisar Estado de Archivos
  - ▶ `git status`
- ▶ Agregar archivos a seguimiento o a staged area (área de preparación)
  - ▶ `git add [filename]`
  - ▶ `git add .`
- ▶ Confirmar cambios
  - ▶ `git commit -m "mensaje"`
- ▶ Ver Historial de Confirmaciones
  - ▶ `git log`

# Objetivos

- ▶ Aprender a trabajar con repositorios remotos en Git
  - ▶ Clonar repositorios remotos (git clone)
  - ▶ Iniciar un repositorio local (git init) y enviarlo al remoto (git push)
  - ▶ Actualizar un repositorio local con lo que hay en el remoto (git pull)
  - ▶ Agregar repositorios remotos (git remote add)

# Repositorios Remotos

Los repositorios remotos son versiones del proyecto que están hospedadas en Internet o en cualquier otra red.

- ¿Por qué tener varios repositorios remotos?

# Repositorios Remotos

Los repositorios remotos son versiones del proyecto que están hospedadas en Internet o en cualquier otra red.

- ▶ ¿Por qué tener varios repositorios remotos?
  - ▶ Backup
  - ▶ Versiones estables accesibles por terceros
  - ▶ Repositorios de test

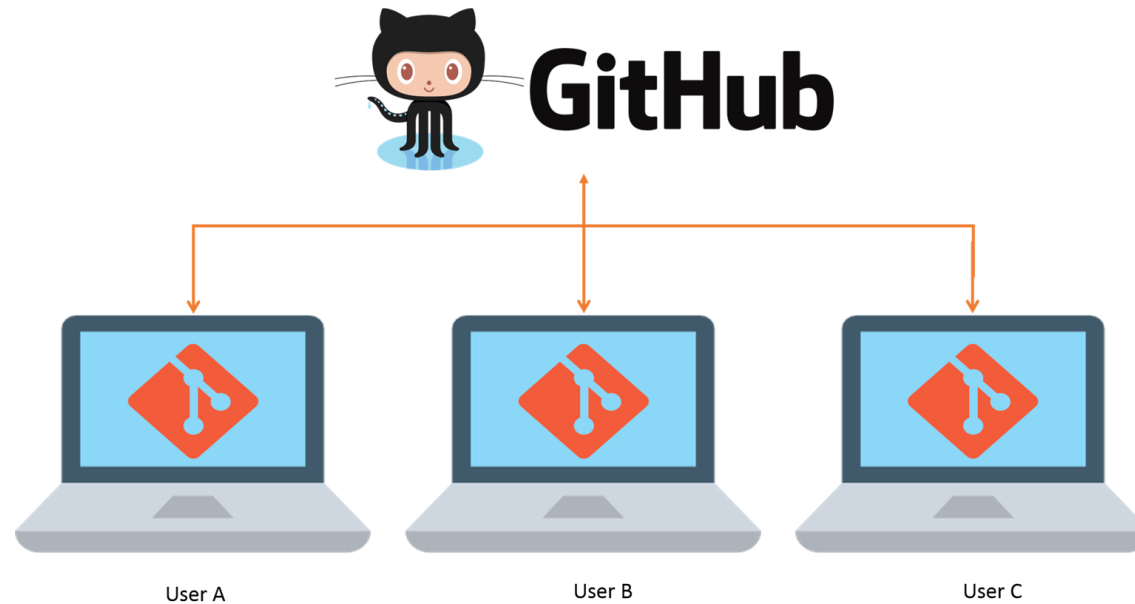


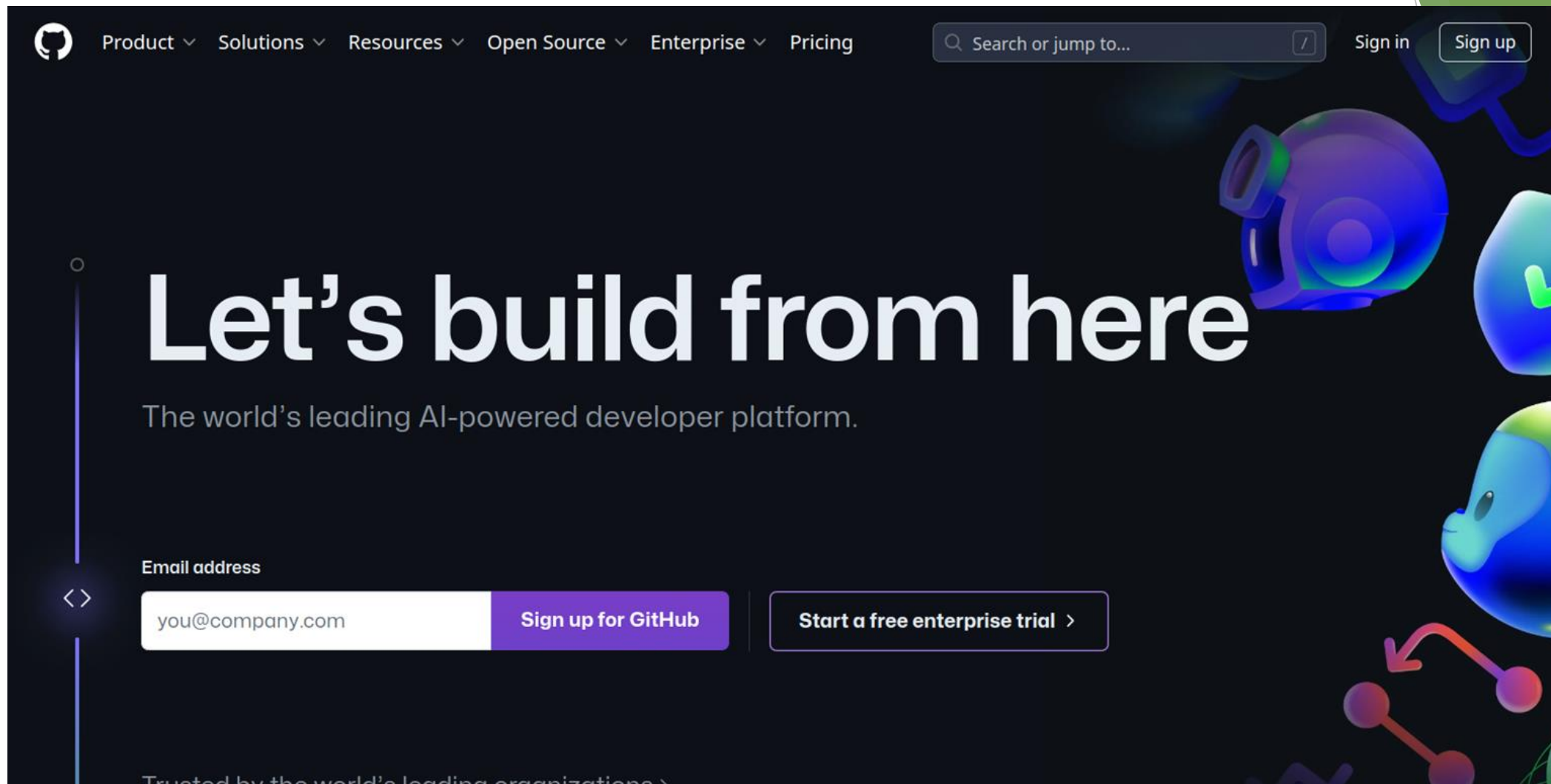


**GitHub**

- ▶ GitHub es uno de los servidores git más famosos y utilizados del mundo.
- ▶ En él se encuentran muchos de los proyectos de software libre que existen.

# GitHub - Repositorios remotos



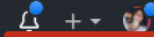


<https://github.com/signup>

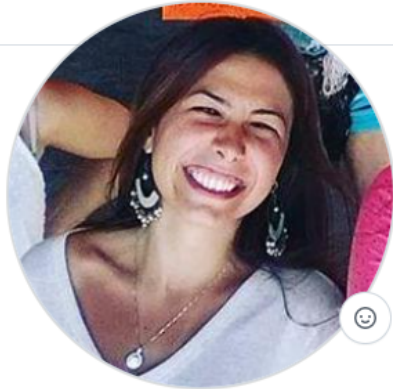


Search or jump to...

[Pull requests](#) [Issues](#) [Marketplace](#) [Explore](#)



- New repository
- Import repository
- New gist
- New organization
- New project



**Florencia**

FlorenciaRodriguez

[Edit profile](#)

1 follower · 1 following · 3

[rodrig.florencia@gmail.com](mailto:rodrig.florencia@gmail.com)

[Overview](#) [Repositories](#) 20 [Projects](#) [Packages](#)

### Popular repositories

[FaceDetector](#)

Java 1 1

[opencv](#)

Forked from opencv/opencv

Open Source Computer Vision Library

C++

[eyeLike](#)

Forked from trishume/eyeLike

A webcam based pupil tracking implementation.

C++

[eyeLOG](#)

Java

[tensorflow](#)

Forked from tensorflow/tensorflow

Computation using data flow graphs for scalable machine learning

C++

[twitter-text](#)

Forked from twitter/twitter-text

Twitter Text Libraries


JavaScript

Activar Windows  
Ve a Configuración para activar Windows.

## Create a new repository

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

Owner \*



 FlorenciaRodriguez ▾

Repository name \*

/ tio-ejemplo-2021 ✓

Great repository names are short and unique. **tio-ejemplo-2021 is available.** How about [animated-giggle?](#)

Description (optional)

- ☒  **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:

Skip this step if you're importing an existing repository.

- ☐ **Add a README file**  
This is where you can write a long description for your project. [Learn more.](#)
- ☐ **Add .gitignore**  
Choose which files not to track from a list of templates. [Learn more.](#)
- ☐ **Choose a license**  
A license tells others what they can and can't do with your code. [Learn more.](#)

Create repository

## Quick setup — if you've done this kind of thing before

 Set up in Desktop

or

HTTPS

SSH



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 "# tio-ejemplo-2021" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/FlorenciaRodriguez/tio-ejemplo-2021.git
git push -u origin main
```



## ...or push an existing repository from the command line

```
git remote add origin https://github.com/FlorenciaRodriguez/tio-ejemplo-2021.git
git branch -M main
git push -u origin main
```



## ...or import code from another repository

You can initialize this repository with code from a [Subversion](#), [Mercurial](#), or [TFS](#) project.

[Import code](#)

Activar Windows  
Ve a Configuración

- ▶ Una vez creado el repositorio remoto tenemos dos opciones:
  - ▶ Subir las confirmaciones registradas en nuestro repositorio local
  - ▶ Clonar el repositorio remoto y comenzar a trabajar localmente desde este punto

# Configurar Repositorio Remoto

- ▶ Comando `git remote`
  - ▶ Nos permite administrar y configurar nuestros repositorios remotos.
  - ▶ `git remote` nos mostrará los repositorios remotos que tenemos configurados en nuestro repositorio actual.
- ▶ Si queremos subir nuestras confirmaciones al repositorio remoto primero debemos configurarlo
  - ▶ `git remote add origin https://github.com/user/repo.git`
  - ▶ *origin* será el nombre que utilizaremos de aquí en adelante para referirnos a dicho repositorio remoto.
  - ▶ *origin* es el nombre que Git le da por defecto al repositorio remoto del que clonamos.
  - ▶ `git remote -v` nos listará los nombres de los repositorios remotos y sus enlaces.

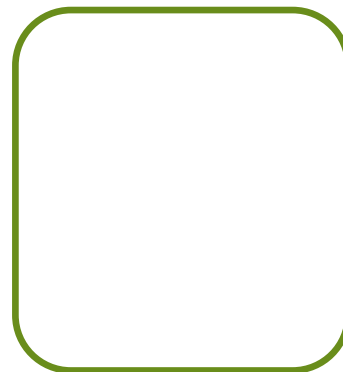
**Git Remote add**

Local



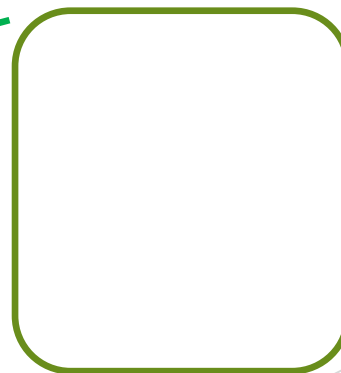
Remoto  
(github)

origin



Otro repositorio remoto

remoto2





# Git Remote

Pull requests Actions Projects Wiki Security Insights Settings

## Quick setup — if you've done this kind of thing before

Set up in Desktop or **HTTPS** SSH

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

```
echo "# t" > README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/FlorenciaRodriguez/tio-ejemplo-2021.git
git push -u origin main
```

...or push to an existing repository

```
git remote add origin https://github.com/FlorenciaRodriguez/tio-ejemplo-2021.git
git branch -M main
git push -u origin main
```

...or import from another VCS

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

Import code

```
MINGW64:/c:/Users/Usuario/Documents/ws-git-tio/tio-ejemplo1
Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo1 (master)
$ git remote
$ git remote add origin https://github.com/FlorenciaRodriguez/tio-ejemplo-2021.git
$ git remote
origin
$ |
```

Con git remote vemos en qué remote estamos trabajando

Activar Windows Defender  
Ve a Configuración de Windows Defender

# Configurar rama local con rama remota

## Alternativas

- ▶ Subiendo las confirmaciones
  - ▶ `git push -u origin main`
  - ▶ `git push --set-upstream origin main`
- ▶ Sin subir las confirmaciones
  - ▶ `git branch -u origin/main`
  - ▶ `git branch --set-upstream-to=origin/main`

# Git Branch

MINGW64:/c/Users/Florencia/Documents/ws-git-tio/ejemplo1-remoto

Florencia@DESKTOP-J9EJ4NL MINGW64 ~/Documents/ws-git-tio/ejemplo1-remoto (master)

```
$ git remote  
origin
```

Florencia@DESKTOP-J9EJ4NL MINGW64 ~/Documents/ws-git-tio/ejemplo1-remoto (master)

```
$ git branch  
* master
```

Florencia@DESKTOP-J9EJ4NL MINGW64 ~/Documents/ws-git-tio/ejemplo1-remoto (master)

```
$
```

# Git Push

```
MINGW64:/c/Users/Usuario/Documents/ws-git-tio/tio-ejemplo1


Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo1 (master)
$ git remote
origin

Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo1 (master)
$ git branch -v
* master a7e7a1a Cambiamos nombre de archivo

Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo1 (master)
$ git branch -M main




Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo1 (main)
$ git push -u origin main
Enumerating objects: 15, done.
Counting objects: 100% (15/15), done.
Delta compression using up to 4 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (15/15), 1.39 KiB | 129.00 KiB/s, done.
Total 15 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/FlorenciaRodriguez/tio-ejemplo-2021.git
 * [new branch]      main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.


Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo1 (main)
$ |
```



Search or jump to...

[Pull requests](#)[Issues](#)[Marketplace](#)[Explore](#)



 [FlorenceRodriguez](#) / [tio-ejemplo-2021](#)

Unwatch

1

Star0

Fork0

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

main


1 branch

0 tags

Go to file



Add file

Code

 [FlorenceRodriguez](#) Cambiamos nombre de archivo 

a7e7a1a 6 days ago

6 commits

 ejemplo.txt	Agregue una linea a ejemplo y cree un nuevo archivo	6 days ago
 ejemplo2.txt	Cambiamos nombre de archivo	6 days ago

Help people interested in this repository understand your project by adding a README.

Add a README

About

No description, website, or topics provided.

Releases

No releases published  
[Create a new release](#)

Packages

Activar Windows

No packages published para activar Windows.  
[Publish your first package](#)

# Git Branch

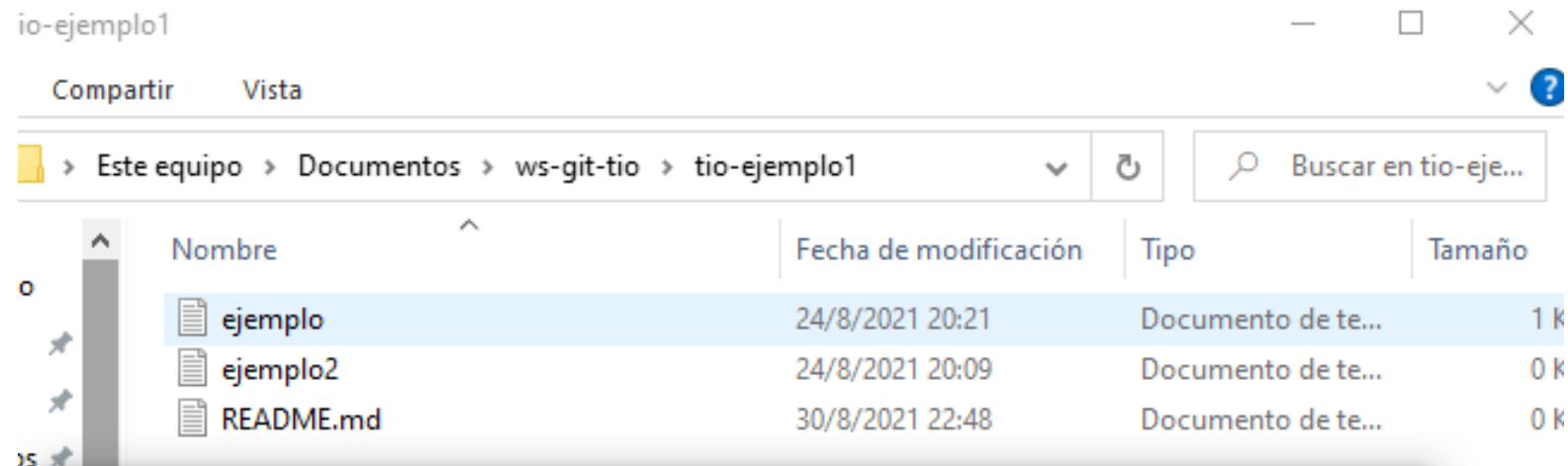
```
MINGW64:/c/Users/Usuario/Documents/ws-git-tio/tio-ejemplo1
Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo1 (master)
$ git remote
origin

Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo1 (master)
$ git branch -v
* master a7e7a1a Cambiamos nombre de archivo

Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo1 (master)
$ git branch -M main

Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo1 (main)
$ git push -u origin main
Enumerating objects: 15, done.
Counting objects: 100% (15/15), done.
Delta compression using up to 4 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (15/15), 1.39 KiB | 129.00 KiB/s, done.
Total 15 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/FlorenciaRodriguez/tio-ejemplo-2021.git
 * [new branch]      main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.

Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo1 (main)
$ git branch -vv
* main a7e7a1a [origin/main] Cambiamos nombre de archivo
```



```
MINGW64:/c/Users/Usuario/Documents/ws-git-tio/tio-ejemplo1
Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo1 (main)
$ git add .
Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo1 (main)
$ git commit -m "añadido Readme"
[main 2ec2af8] añadido Readme
2 files changed, 1 insertion(+), 3 deletions(-)
create mode 100644 README.md.txt
Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo1 (main)
$
```

main 1 branch 0 tags

Go to file

Add file

Code



FlorenciaRodriguez añadido Readme

2ec2af8 1 minute ago 7 commits



README.md.txt

añadido Readme

1 minute ago



ejemplo.txt

1 minute ago



ejemplo2.txt

6 days ago

Help people interested in

Add a README

```
MINGW64:/c:/Users/Usuario/Documents/ws-git-tio/tio-ejemplo1
Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo1 (main)
$ git add .

Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo1 (main)
$ git commit -m "añadido Readme"
[main 2ec2af8] añadido Readme
2 files changed, 1 insertion(+), 3 deletions(-)
create mode 100644 README.md.txt

Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo1 (main)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 316 bytes | 105.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/FlorenciaRodriguez/tio-ejemplo-2021.git
a7e7a1a..2ec2af8 main -> main

Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo1 (main)
$ |
```



# Git Clone

The image shows a GitHub repository page for 'FloresRodriguez / tio-ejemplo-2' and a Windows File Explorer window. The File Explorer window is open to the 'ws-git-tio' directory, showing two subdirectories: 'tio-ejemplo1' and 'tio-ejemplo2'. A terminal window is overlaid on the File Explorer, showing the command to clone the repository and the output.

**GitHub Repository Page:**

- Repository: FloresRodriguez / tio-ejemplo-2
- Branches: main (1 branch)
- Tags: 0 tags
- Files: Ejemplo, README.md

**Windows File Explorer:**

- Path: Este equipo > Documentos > ws-git-tio
- Contents: tio-ejemplo1, tio-ejemplo2

**Terminal Output:**

```
Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio
$ git clone https://github.com/FloresRodriguez/tio-ejemplo-2
Cloning into 'tio-ejemplo-2'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (6/6), done.
```

# Creación de un repositorio remoto

The screenshot shows the GitHub interface for a repository named 'tio-ejemplo-2021' by user 'FloenciaRodriguez'. The repository has 1 branch (main), 0 tags, 1 commit, 0 stars, and 0 forks. The 'About' section is empty, and the 'Releases' section shows no published releases. The file list includes 'ejemplo.txt' and 'ejemplo2.txt', both committed 6 days ago. A blue banner at the bottom encourages adding a README.

Search or jump to... Pull requests Issues Marketplace Explore

FloenciaRodriguez / tio-ejemplo-2021 Unwatch 1 Star 0 Fork 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags Go to file Add file Code

FloenciaRodriguez Cambiamos nombre de archivo a7e7a1a 6 days ago 6 commits

ejemplo.txt	Agregue una linea a ejemplo y cree un nuevo archivo	6 days ago
ejemplo2.txt	Cambiamos nombre de archivo	6 days ago

Help people interested in this repository understand your project by adding a README. Add a README

About No description, website, or topics provided.

Releases No releases published Create a new release

tio

Compartir

Vista

Este equipo > Documentos > ws-git-tio

Buscar en ws-git-tio

Nombre	Fecha de modificación	Tipo	Tamaño
tio-ejemplo1	30/8/2021 22:48	Carpeta de archivos	
tio-ejemplo-2	30/8/2021 23:07	Carpeta de archivos	

MINGW64:/c/Users/Usuario/Documents/ws-git-tio/tio-ejemplo-2


```
Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio
$ git clone https://github.com/FlorenciaRodriguez/tio-ejemplo-2
Cloning into 'tio-ejemplo-2'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (6/6), done.

Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio
$ cd tio-ejemplo-2




Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo-2 (main)
$ |
```


# Ejercicio


- ▶ Modificamos el archivo Readme
- ▶ Lo agregamos a la staging area
- ▶ Confirmamos los cambios
- ▶ Consultamos estado




[Pull requests](#) [Issues](#) [Marketplace](#) [Explore](#)


  

 [FlorenciaRodriguez / tio-ejemplo-2](#)


 Unwatch


1


 Star 0


 Fork 0


[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#)

 main


 1 branch

 0 tags

 [FlorenciaRodriguez](#) Actualizacion de Readme

 Ejemplo

Create Ejemplo

 README.md

Actualizacion de Readme

README.md

# tio-ejemplo-2

modificamos

base, or topics

No packages published  
[Publish your first package](#)

MINGW64/c/Users/Usuario/Documents/ws-git-tio/tio-ejemplo-2

```
Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo-2 (main)
$ git add .

Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo-2 (main)
$ git commit -m "Actualizacion de Readme"
[main 9b6defc] Actualizacion de Readme
1 file changed, 2 insertions(+), 1 deletion(-)

Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo-2 (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

nothing to commit, working tree clean

Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo-2 (main)
$ git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 322 bytes | 107.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/FlorenciaRodriguez/tio-ejemplo-2
 f9459bd..9b6defc main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.

Usuario@DESKTOP-01SS4U8 MINGW64 ~/Documents/ws-git-tio/tio-ejemplo-2 (main)
```

# Git Pull

ejemplo1-remoto

Archivo Inicio Compartir Vista

Anclar al Acceso rápido Copiar Pegar Cortar Copiar ruta de acceso Pegar acceso directo Portapapeles

Mover a Copiar a Eliminar Cambiar nombre Organizar

Nueva carpeta Nuevo elemento Fácil acceso Nuevo

Propiedades Abrir Modificar Historial Abrir

Seleccionar todo No seleccionar nada Invertir selección Seleccionar

← → ↕ ↑ > Este equipo > Documentos > ws-git-tio > ejemplo1-remoto

Nombre	Fecha de modificación	Tipo	Tamaño
texto A	18/4/2020 22:16	Documento de texto	0 KB

Acceso rápido Documentos Descargas Imágenes ApowerREC clase1-tio Escritorio ws-git-tio OneDrive Este equipo Red

```
MINGW64:/c:/Users/Florencia/Documents/ws-git-tio/ejemplo1-remoto
Florencia@DESKTOP-J9EJ4NL MINGW64 ~/Documents/ws-git-tio/ejemplo1-remoto (master)
$ git pull
Already up to date.

Florencia@DESKTOP-J9EJ4NL MINGW64 ~/Documents/ws-git-tio/ejemplo1-remoto (master)
$
```

# Agregar colaboradores

github.com/FlorenciaRodriguez/ejemplo3-remoto/settings/access

FlorenciaRodriguez / ejemplo3-remoto

Unwatch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Actions Projects 0 Wiki Security Insights Settings

Options

Manage access

Branches

Webhooks

Notifications

Integrations

Deploy keys

Secrets

Actions

Moderation

Interaction limits

### Who has access

**Public repository** 2

The repository is public and visible to anyone.

[Manage](#)

**Direct access** 1


0 collaborators have access to this repository. Only you can contribute to this repository.

### Manage access

You haven't invited any collaborators yet

[Invite a collaborator](#) 3

# Colaboradores

 **lucaslovecio / tio-ejemplo1**

Unwatch 3

★ Star 0

Fork 0

Options

**Collaborators**



Branches

Webhooks & services

Deploy keys

**Collaborators**

Push access to the repository

	jdottori	×
	sebaserritella	×

Search by username, full name or email address

Add collaborator

<>

!

🔗

📖

🔊

📊

**⚙️**



# Conflictos

```
Isistan@DESKTOP-MO0JN8K MINGW64 ~/Desktop/testingnotemptyproject (main)
$ git push origin main
To https://github.com/diegogalonso/testingnotemptyproject.git
 ! [rejected]        main -> main (fetch first)
error: failed to push some refs to 'https://github.com/diegogalonso/testingnotemptyproject.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.
```

- ▶ ¿Qué sucede si alguien ha realizado cambios antes que nosotros?
- ▶ ¿Qué deberíamos hacer?

# Git Pull

```
Isistan@DESKTOP-MO0JN8K MINGW64 ~/Desktop/testingnotemptyproject (main)
$ git pull origin main
From https://github.com/diegogalonso/testingnotemptyproject
 * branch          main          -> FETCH_HEAD
Auto-merging README.md
CONFLICT (content): Merge conflict in README.md
Automatic merge failed; fix conflicts and then commit the result.
```

```
1  # testingnotemptyproject
2  __UPDATED__
3  <<<<<< HEAD
4  __UPDATEDNEWUPDATE__
5  =====
6  __UPDATED2__
7  >>>>>> 050948ab7ffe8a0e43a60dabce52473f039cd2a5
8
```

Nuestros  
cambios

Cambios de  
un colaborador

```
Isistan@DESKTOP-MO0JN8K MINGW64 ~/Desktop/testingnotemptyproject (main|MERGING)
$ git status
On branch main
Your branch and 'origin/main' have diverged,
and have 1 and 1 different commits each, respectively.
(use "git pull" to merge the remote branch into yours)

You have unmerged paths.
(fix conflicts and run "git commit")
(use "git merge --abort" to abort the merge)

Unmerged paths:
(use "git add <file>..." to mark resolution)
    both modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
```

```
1  # testingnotemptyproject
2  __UPDATED__
3
4  __UPDATEDNEWUPDATE__
5
6  __UPDATED2__
```

Conservamos  
ambos archivos

```
Isistan@DESKTOP-MO0JN8K MINGW64 ~/Desktop/testingnotemptyproject (main|MERGING)
$ git add README.md

Isistan@DESKTOP-MO0JN8K MINGW64 ~/Desktop/testingnotemptyproject (main|MERGING)
$ git status
On branch main
Your branch and 'origin/main' have diverged,
and have 1 and 1 different commits each, respectively.
  (use "git pull" to merge the remote branch into yours)

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

Changes to be committed:
  modified:   README.md

Isistan@DESKTOP-MO0JN8K MINGW64 ~/Desktop/testingnotemptyproject (main|MERGING)
$ git commit -m 'solved conflicts of readme updates'
[main d8c064a] solved conflicts of readme updates
```

- Confirmamos la resolución de los conflictos con un nuevo *commit*.

```
Isistan@DESKTOP-M00JN8K MINGW64 ~/Desktop/testingnotemptyproject (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

- Ahora estamos adelantados por dos *commits*

```
isistan@DESKTOP-M00JN8K MINGW64 ~/Desktop/testingnotemptyproject (main)
$ git log
commit d8c064a0b127d50d39d72f3373d15ee03449e5cf (HEAD -> main)
Merge: 09dd6cb 050948a
Author: diegogalonso <diegogalonso1709@gmail.com>
Date: Wed Apr 14 15:32:37 2021 -0300

    solved conflicts of readme updates

commit 09dd6cbb7f861cce03dc11e45240215fdb7bdf9b
Author: diegogalonso <diegogalonso1709@gmail.com>
Date: Wed Apr 14 15:26:03 2021 -0300

    change on readme

commit 050948ab7ffe8a0e43a60dabce52473f039cd2a5 (origin/main, origin/HEAD)
Author: Colaborador X <mail x>
Date:

    updated readme 2

commit 6ca839ac7a96df73c300c9c05d18058cef5a2403
Author: diegogalonso <diegogalonso1709@gmail.com>
Date: Wed Apr 14 15:16:18 2021 -0300

    update readme

commit 819fb0710811f0527b0867c558b638aea823ca0f
Author: Diego <diegogalonso1709@gmail.com>
Date: Wed Apr 14 15:12:18 2021 -0300

    Initial commit
```



```
Isistan@DESKTOP-M00JN8K MINGW64 ~/Desktop/testingnotemptyproject (main)
$ git push origin main
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 4 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 589 bytes | 294.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/diegogalonso/testingnotemptyproject.git
   050948a..d8c064a  main -> main
```

- Finalmente, estando actualizados con el repositorio remoto y habiendo resuelto los respectivos conflictos podemos subir los nuevos cambios al repositorio.

# Comandos

- ▶ Ver repositorios remotos configurados
  - ▶ `git remote`
- ▶ Añadir repositorio remoto
  - ▶ `git remote add [nombre] [url]`
- ▶ Clonar repositorio remoto
  - ▶ `git clone [url]`
- ▶ Remover repositorio remoto
  - ▶ `git remote rm [nombre]`
- ▶ Ver ramas existentes en el repositorio
  - ▶ `git branch`
- ▶ Subir confirmaciones a repositorio remoto
  - ▶ `git push [nombre-remoto] [rama]`
- ▶ Actualizar de repositorio remoto
  - ▶ `git pull [nombre-remoto] [rama]`



# Bibliografía

<https://git-scm.com/book/es/v2>

**Leer:**

2.5 - 2.6 Fundamentos de Git

**Para practicar:**

[https://learngitbranching.js.org/?locale=es\\_AR](https://learngitbranching.js.org/?locale=es_AR)