

GITHUB

Christian Camilo Urcuqui López, MSc



PRESENTACIÓN

Christian Camilo Urcuqui López

Ing. Sistemas, Magister en Informática y Telecomunicaciones

Big Data Professional

Big Data Scientist

Deep Learning Specialization

Grupo de investigación i2t

Líder de investigación y desarrollo

Ciberseguridad y ciencia de datos

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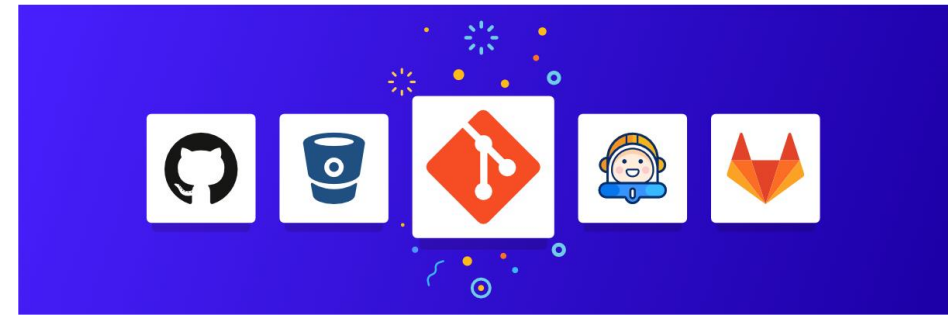
COMPETENCIAS

Utilizar GitHub para el control de versiones de proyectos de software.



GIT

- Git es un software de control de versiones, permite llevar el registro de los cambios en archivos de computadora y coordinar el trabajo que realizan varias personas sobre archivos compartidos.
- De este software podemos encontrar varias adaptaciones y funcionalidades adicionales, por ejemplo:
 - GitHub
 - GitLab
 - Bitbucket
 - SourceForge



GITHUB

Es una plataforma para desarrollo colaborativo de software, permite alojar proyectos utilizando un sistema de control de versión Git.

Actualmente, permite crear proyectos tanto públicos (software libre) y privados.

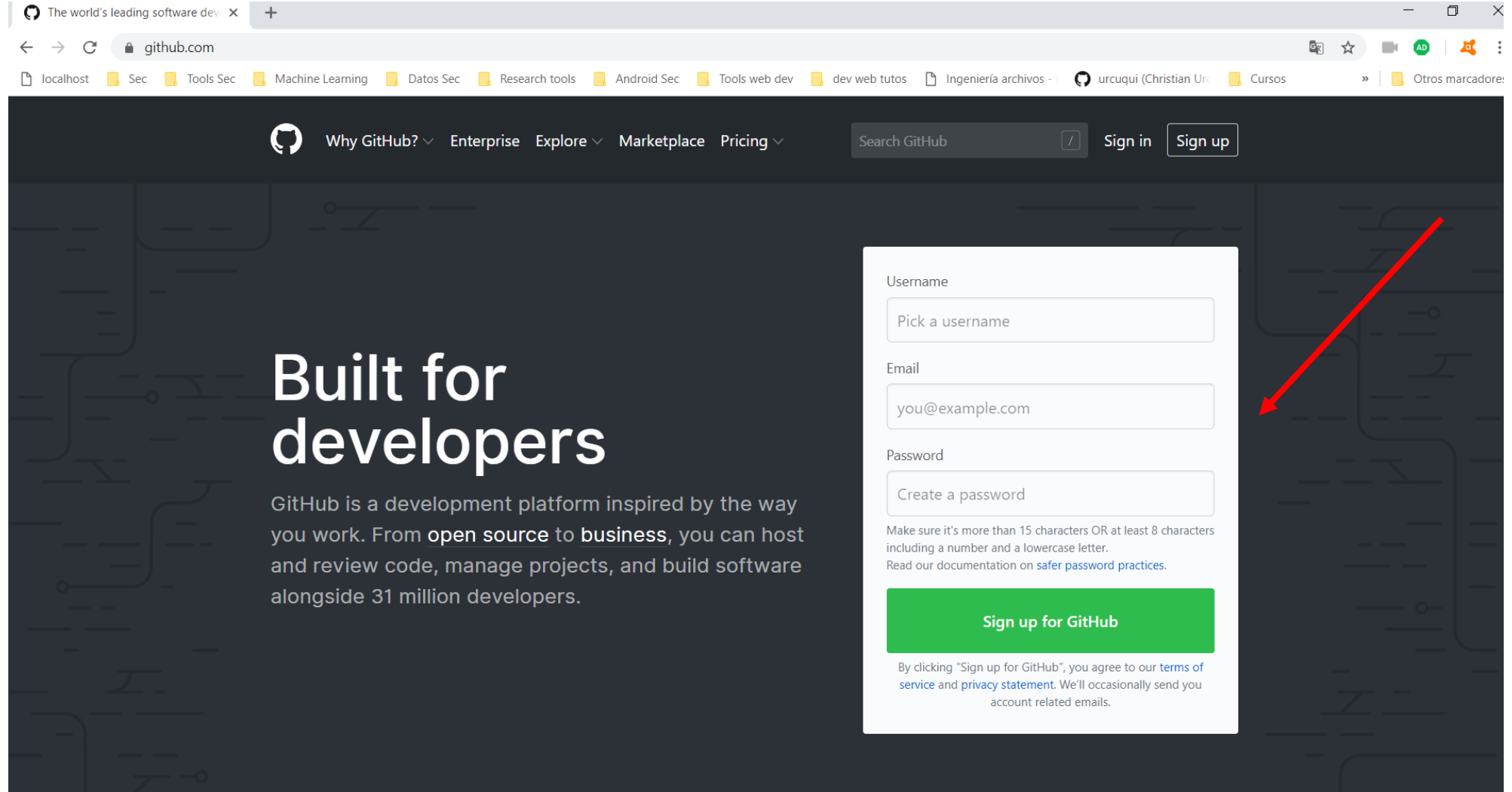
Cuenta con una aplicación de escritorio.

<http://github.com>



The screenshot shows the GitHub profile of Christian Urcuqui. At the top, there's a navigation bar with "Explore" and tabs for "Overview", "Repositories" (46), "Stars" (78), "Followers" (47), and "Following" (33). The profile picture shows a man with arms raised. Below the photo is the name "Christian Urcuqui" and the username "urcuqui". A "PRO" badge is visible. The bio states: "System engineer, MSc, and Researcher. My research topics are: Data Science, Artificial Intelligence, and Computer Security". Contact information includes "Universidad Icesi", email "ulcamilo@gmail.com", and website "urcuqui.github.com". An "Edit" button is present. The "Pinned repositories" section shows four projects: "WhiteHat" (Python, 22 stars, 8 forks), "Apache-Spark" (Python), "Data-Science" (Jupyter Notebook, 1 fork), and "GetHTMLAndroid" (Java). Below this is a "370 contributions in the last year" section with a heatmap showing activity from January to December. The heatmap has columns for months and rows for days of the week (Mon, Wed, Fri). A legend at the bottom right of the heatmap shows a color scale from "Less" (light green) to "More" (dark green). At the bottom, there's a "Contribution activity" section with a "Jump to" dropdown set to "2019" and a "2018" button.

CREAR UNA CUENTA DE GITHUB



The screenshot shows the GitHub homepage with the sign-up form on the right. A red arrow points to the email input field. The form contains the following fields and text:

Username

Email


Password


Make sure it's more than 15 characters OR at least 8 characters including a number and a lowercase letter.
Read our documentation on [safer password practices](#).

[Sign up for GitHub](#)

By clicking "Sign up for GitHub", you agree to our [terms of service](#) and [privacy statement](#). We'll occasionally send you account related emails.

CREAR UN REPOSITORIO

 Pull requests Issues Marketplace Explore



Christian Urcuqui
urcuqui

★ PRO

System engineer, MSc, and Researcher. My research topics are: Data Science, Artificial Intelligence, and Computer Security

👤 Universidad Icesi
✉ ulcamilo@gmail.com
🔗 urcuqui.github.com

Overview **Repositories 46** Stars 79 Followers 47 Following 33

Find a repository... Type: All Language: All **New**

Ciencia-de-datos-ICESI ★ Star
Repositorio de la Universidad Icesi para las clases de ciencia de datos de pregrado y posgrado 🎓 🤖
🟠 Jupyter Notebook ★ 3 🍴 3 Updated 3 hours ago

WhiteHat ★ Star
Information about my experiences in ethical hacking 🦴
security whitehat python hacker research researcher machine-learning
🟢 Python ★ 22 🍴 8 Updated 13 hours ago

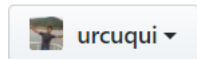
Data-Science ★ Star
My projects about applications of data science to solve problems 🧠

CREAR UN REPOSITORIO

Create a new repository

A repository contains all the files for your project, including the revision history.

Owner



Repository name

Great repository names are short and memorable. Need inspiration? How about **ideal-couscous**.

Description (optional)



Public

Anyone can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.



Initialize this repository with a README

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: None ▾

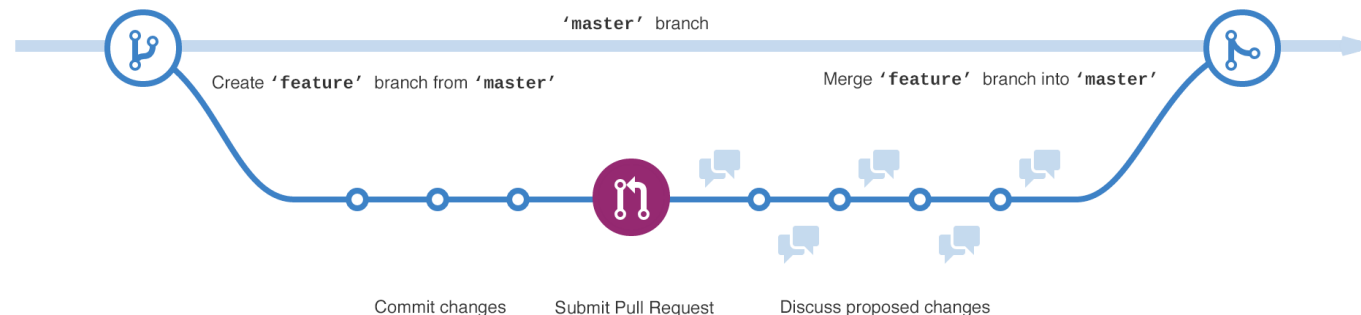
Add a license: None ▾



Create repository

CREAR UNA RAMA DE TRABAJO - BRANCH

- Un proyecto puede estar integrado por varios equipos de trabajo con la finalidad de abarcar objetivos o funcionalidades por separado.
- El hecho de trabajar sobre el proyecto raíz podría ocasionar la generación de conflictos en los archivos, es decir, dos o más personas alterando un mismo documento.
- Un camino para ejecutar pruebas o añadir funcionalidades sin alterar la raíz del proyecto es hacer copias de este en un instante de tiempo – conocidas como ramas o branch.



prueba

Edit

[Manage topics](#)

🕒 1 commit

🔗 1 branch

🏷 0 releases

👤 1 contributor

Branch: master ▾

New pull request

Create new file

Upload files

Find file

Clone or download ▾

Switch branches/tags



rama1

Branches

Tags

🔗 Create branch: rama1
from 'master'

Latest commit 19f78ea just now

Initial commit

just now

hello_world

prueba

AGREGAR ELEMENTOS DESDE LA WEB

urcuqui / Ciencia-de-datos-ICESI

Unwatch 3 Star 3 Fork 3

Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

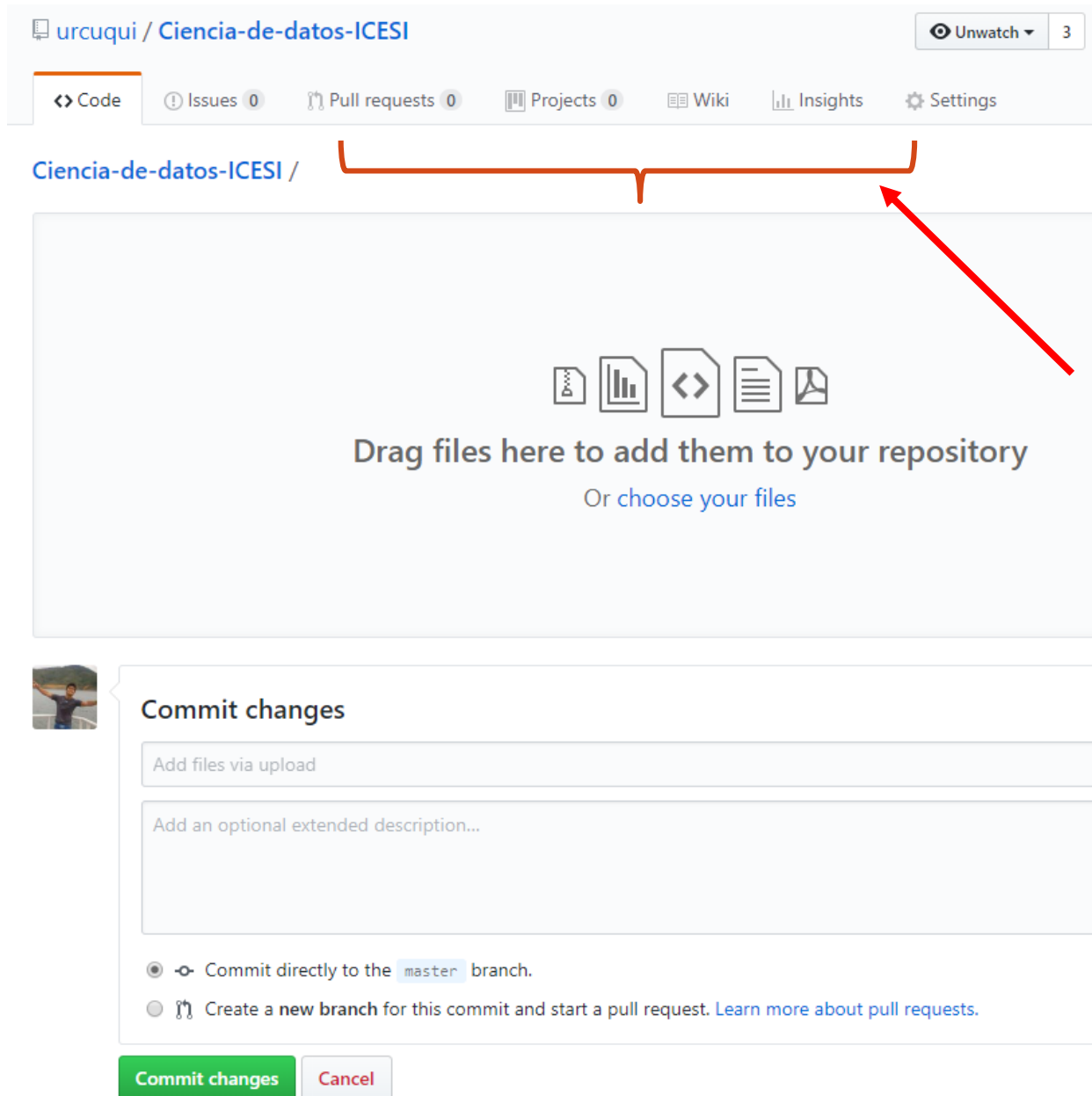
Repositorio de la Universidad Icesi para las clases de ciencia de datos de pregrado y posgrado Edit

Manage topics

40 commits 1 branch 0 releases 2 contributors

Branch: master New pull request Create new file Upload files Find file Clone or download

urcuqui updated Latest commit 15a9b20 4 hours ago



- **Issues:** problemas reportados en algún archivo del repositorio
- **Pull requests:** solicitudes de cambios al repositorio por externos
- **Projects:** proyectos asociados al repositorio
- **Wiki:** blog del repositorio
- **Insights:** reportes sobre el repositorio
- **Settings:** configuraciones

FLUJO DE TRABAJO

urcuqui / hello_world Unwatch 1

[Code](#) [Issues 0](#) [Pull requests 0](#) [Projects 0](#) [Wiki](#) [Insights](#) [Settings](#)

hello_world /

Drag files here to add them to your repository
Or [choose your files](#)

Commit changes

Add files via upload

Add an optional extended description...

☒ Commit directly to the **main** branch.

☐ Create a new branch for this commit and start a pull request. [Learn more about pull requests.](#)

[Commit changes](#) [Cancel](#)

Commit: permite registrar los cambios del repositorio local sin actualizar los archivos alojados en GitHub

urcuqui / hello_world

Unwatch

1

Star

0

Fork

0

Code

Issues 0

Pull requests 0

Projects 0

Wiki

Insights

Settings

prueba

Edit

Manage topics

2 commits

2 branches

0 releases

1 contributor

Your recently pushed branches:

rama1 (less than a minute ago)

Compare & pull request

Branch: rama1

New pull request

Create new file

Upload files

Find file

Clone or download

This branch is 1 commit ahead of master

Pull request

Compare

urcuqui mi primer archivo

Latest commit e94293a 7 minutes ago

README.md	Initial commit	12 minutes ago
archivo_prueba.txt	mi primer archivo	7 minutes ago

README.md

hello_world

prueba

FLUJO DE TRABAJO

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base: master ← compare: rama1 ✓ Able to merge. These branches can be automatically merged.

mi primer archivo

Write

Preview

hello

Attach files by dragging & dropping, selecting them, or pasting from the clipboard.

Styling with Markdown is supported

Create pull request

Reviewers

No reviews

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

No milestone

1 commit

1 file changed

0 commit comments

1 contributor

Commits on Jan 08, 2019

urcuqui

mi primer archivo

Verified e94293a

Showing 1 changed file with 1 addition and 0 deletions.

Unified Split

1 archivo_prueba.txt

Copy path View file

... @@ -0,0 +1 @@

1 + hello world github

Pull request: nos permitirá transferir los cambios registrados desde el commit hasta la raíz (master) del repositorio

FLUJO DE TRABAJO

mi primer archivo #1

Open urcuqui wants to merge 1 commit into master from ramal

Conversation 0 Commits 1 Checks 0 Files changed 1 +1 -0

urcuqui commented a minute ago
hello from the pull request

mi primer archivo ... Verified e94293a

Add more commits by pushing to the ramal branch on urcuqui/hello_world.

Continuous integration has not been set up
Several apps are available to automatically catch bugs and enforce style.

✓ This branch has no conflicts with the base branch
Merging can be performed automatically.

Merge pull request You can also open this in GitHub Desktop or view command line instructions.

Write Preview AA B i “ < > @ Lock conversation

Leave a comment

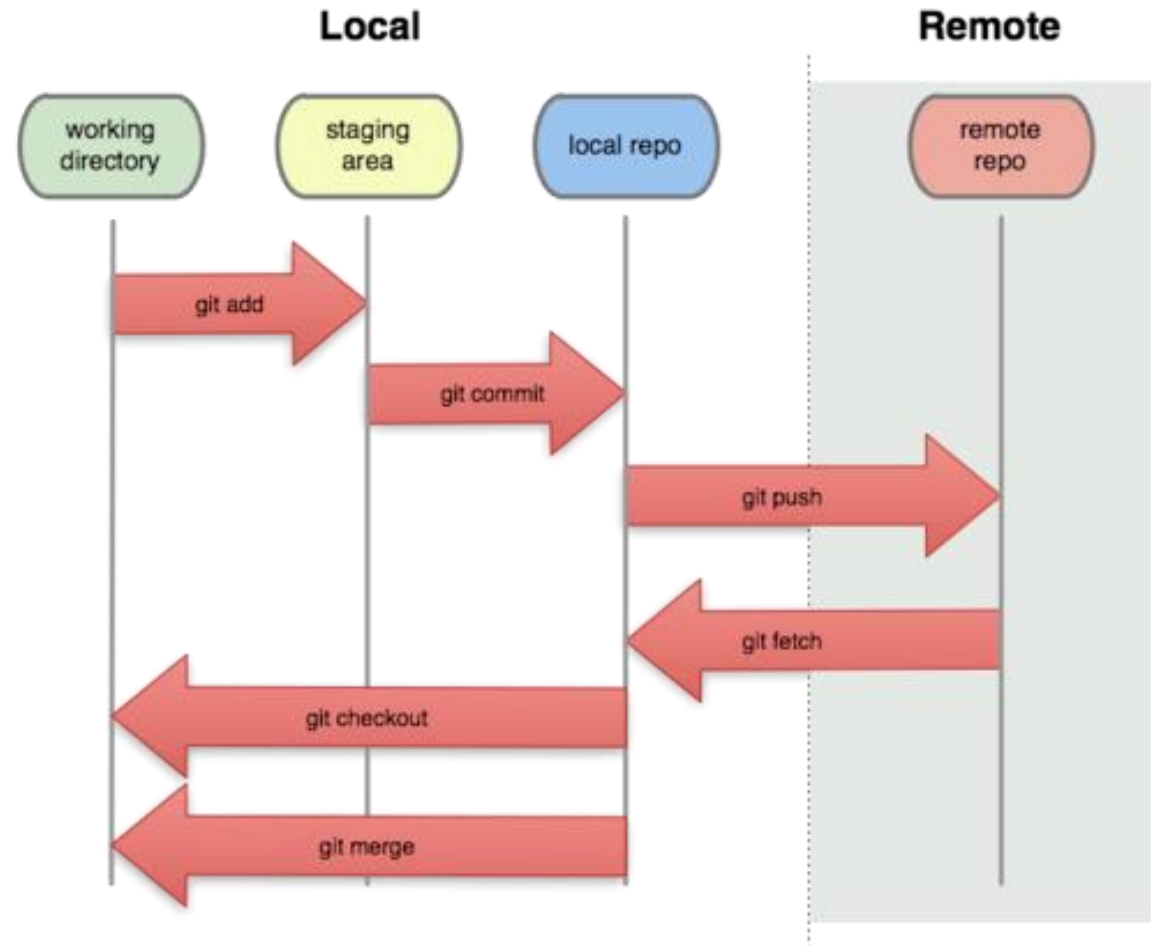
Attach files by dragging & dropping, selecting them, or pasting from the clipboard.

Styling with Markdown is supported

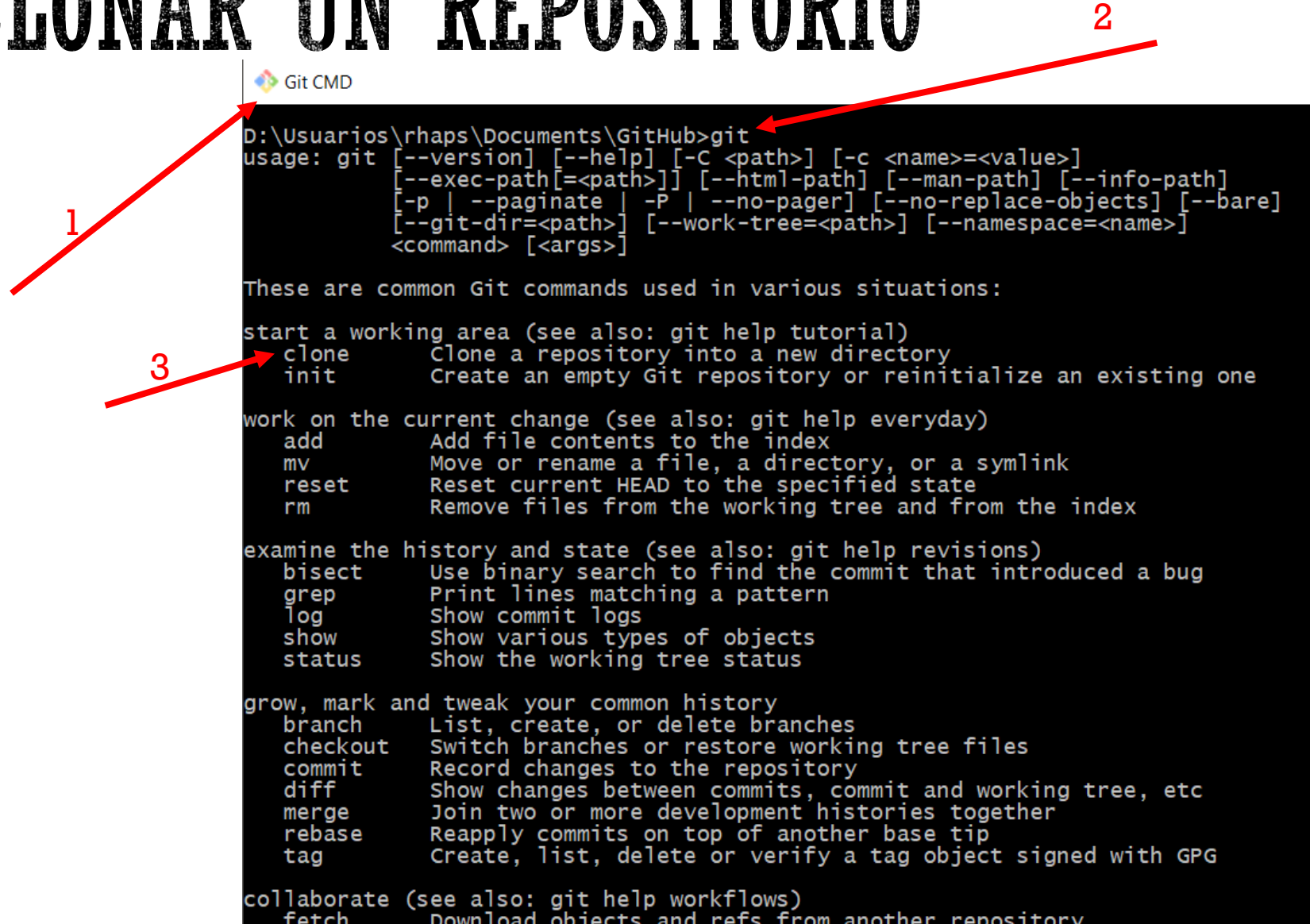
Close pull request Comment

Integración continua, para este caso no se presentan conflictos en los cambios realizados desde la rama hacia la raíz, ahora podemos integrar los cambios para que cualquier persona que tenga acceso al repositorio pueda obtenerlos (Merge pull request)

FLUJO DE TRABAJO



CLONAR UN REPOSITORIO



The screenshot shows a terminal window titled 'Git CMD' with the following content:

```
D:\Usuarios\rhaps\Documents\GitHub>git
usage: git [--version] [--help] [-C <path>] [-c <name>=<value>]
        [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
        [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
        [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
        <command> [<args>]

These are common Git commands used in various situations:

start a working area (see also: git help tutorial)
  clone      Clone a repository into a new directory
  init       Create an empty Git repository or reinitialize an existing one

work on the current change (see also: git help everyday)
  add        Add file contents to the index
  mv         Move or rename a file, a directory, or a symlink
  reset      Reset current HEAD to the specified state
  rm         Remove files from the working tree and from the index

examine the history and state (see also: git help revisions)
  bisect     Use binary search to find the commit that introduced a bug
  grep       Print lines matching a pattern
  log        Show commit logs
  show       Show various types of objects
  status     Show the working tree status

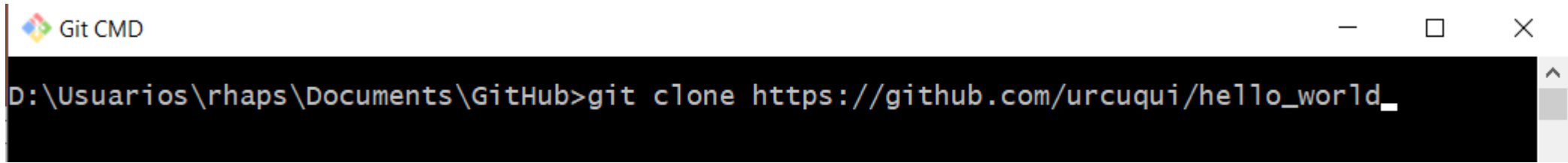
grow, mark and tweak your common history
  branch     List, create, or delete branches
  checkout   Switch branches or restore working tree files
  commit     Record changes to the repository
  diff       Show changes between commits, commit and working tree, etc
  merge      Join two or more development histories together
  rebase     Reapply commits on top of another base tip
  tag        Create, list, delete or verify a tag object signed with GPG

collaborate (see also: git help workflows)
  fetch      Download objects and refs from another repository
```

Red arrows are present in the image:

- Arrow 1 points to the 'clone' command in the 'start a working area' section.
- Arrow 2 points to the 'git' command in the terminal prompt.
- Arrow 3 points to the 'init' command in the 'start a working area' section.

CLONAR UN REPOSITORIO

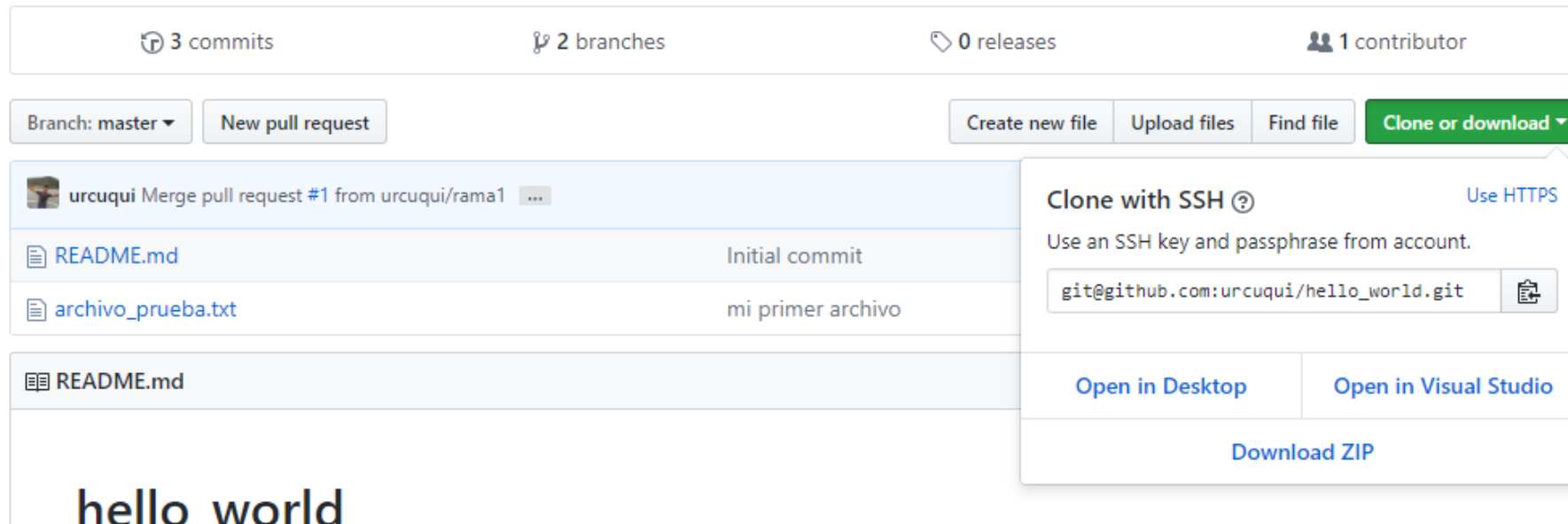


```
Git CMD
D:\Usuarios\rhaps\Documents\GitHub>git clone https://github.com/urcuqui/hello_world_
```

Luego git les solicitara las credenciales de acceso para la descarga de los archivos

Una vez finalizado el proceso, tendremos un entorno de trabajo local enlazado con el remoto

DESCARGA DESDE LA WEB



The screenshot shows a GitHub repository interface. At the top, it displays repository statistics: 3 commits, 2 branches, 0 releases, and 1 contributor. Below this, there are buttons for 'Branch: master', 'New pull request', 'Create new file', 'Upload files', 'Find file', and a green 'Clone or download' button. A red arrow points to the 'Clone or download' button, which has a dropdown menu open. The dropdown menu contains the following options:

- Clone with SSH** (with a help icon) and a link to [Use HTTPS](#). Below this is the instruction 'Use an SSH key and passphrase from account.' and a text input field containing the SSH URL: `git@github.com:urcuqui/hello_world.git` with a copy icon.
- [Open in Desktop](#)
- [Open in Visual Studio](#)
- [Download ZIP](#)

The repository content area shows a merge pull request #1 from urcuqui/rama1. Below this, there is a file list with two files: `README.md` (Initial commit) and `archivo_prueba.txt` (mi primer archivo). The `README.md` file is selected, and its content is displayed as 'hello world'.

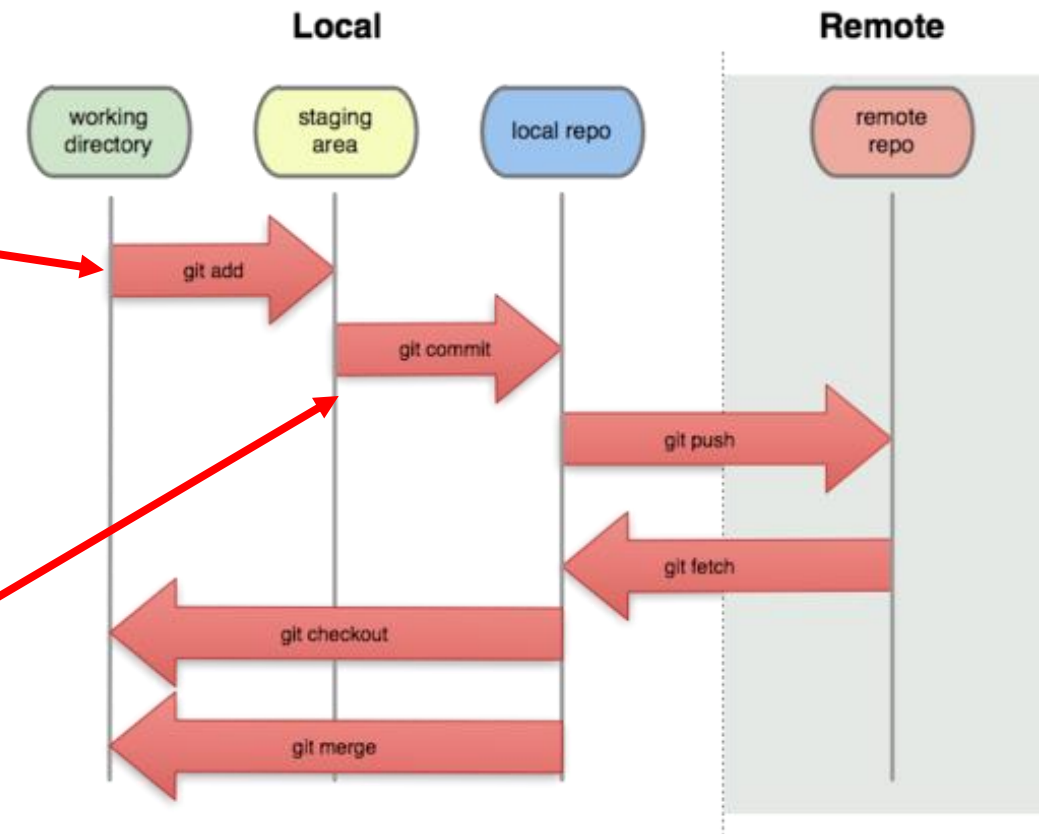
AGREGAR ARCHIVOS DESDE COMANDOS

- Creemos un nuevo archivo y escribamos el siguiente comando para registrarlo

```
Git CMD
D:\Usuarios\rhaps\Documents\GitHub\hello_world>git add archivo_local.txt_
```

- Procederemos a guardar los cambios realizados en el archivo en el repositorio local

```
Git CMD
D:\Usuarios\rhaps\Documents\GitHub\hello_world>git commit archivo_local.txt
[master 446929c] updated
1 file changed, 3 insertions(+)
create mode 100644 archivo_local.txt
D:\Usuarios\rhaps\Documents\GitHub\hello_world>
```



AGREGAR ARCHIVOS DESDE COMANDOS

- Creemos un nuevo archivo y escribamos el siguiente comando para registrarlo

```
D:\Usuarios\rhaps\Documents\GitHub\hello_world>git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 340 bytes | 340.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/urcuqui/hello_world
e86ee24..446929c master -> master
```

urcuqui / hello_world

Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

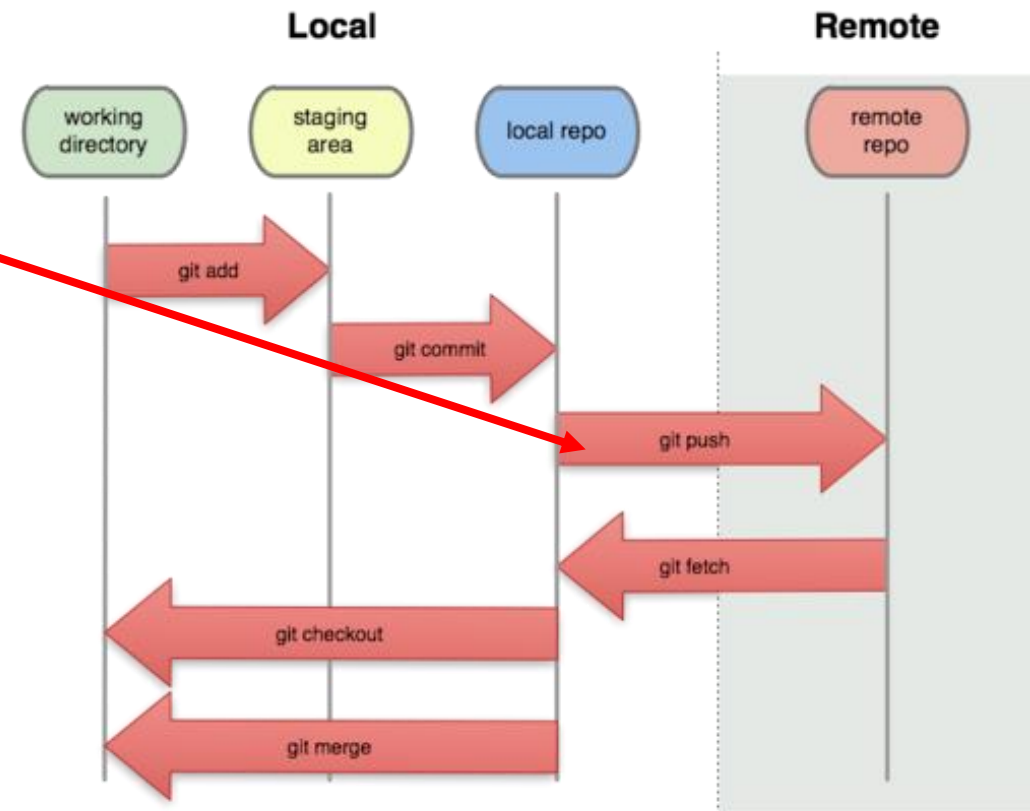
prueba Edit

Manage topics

4 commits 2 branches 0 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

urcuqui updated	Latest commit 446929c 8 minutes ago
README.md	Initial commit 19 hours ago
archivo_local.txt	updated 8 minutes ago
archivo_prueba.txt	mi primer archivo 19 hours ago



ELIMINAR UN REPOSITORIO

urcuqui / [hello_world](#)

Unwatch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

Options

[Collaborators](#)

[Branches](#)

[Webhooks](#)

[Integrations & services](#)

[Deploy keys](#)

Moderation

[Interaction limits](#)

Settings

Repository name

hello_world

Rename

Features

☒ Wikis

GitHub Wikis is a simple way to let others contribute content. Any GitHub user can create and edit pages to use for documentation, examples, support, or anything you wish.

☒ Restrict editing to collaborators only

Public wikis will still be readable by everyone.

☒ Issues

Issues integrate lightweight task tracking into your repository. Keep projects on track with issue labels and milestones, and reference them in commit messages.

Get organized with issue templates

Give contributors issue templates that help you cut through the noise and help them push your project forward.

Set up templates

☒ Projects

Project boards on GitHub help you organize and prioritize your work. You can create project boards for specific feature work, comprehensive roadmaps, or even release checklists.

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Source

GitHub Pages is currently disabled. Select a source below to enable GitHub Pages for this repository. [Learn more.](#)

None ▾

Save

Theme Chooser

Select a theme to publish your site with a Jekyll theme using the master branch. [Learn more.](#)

Choose a theme

Danger Zone

Make this repository private

Hide this repository from the public.

Make private

Transfer ownership

Transfer this repository to another user or to an organization where you have the ability to create repositories.

Transfer

Archive this repository

Mark this repository as archived and read-only.

Archive this repository

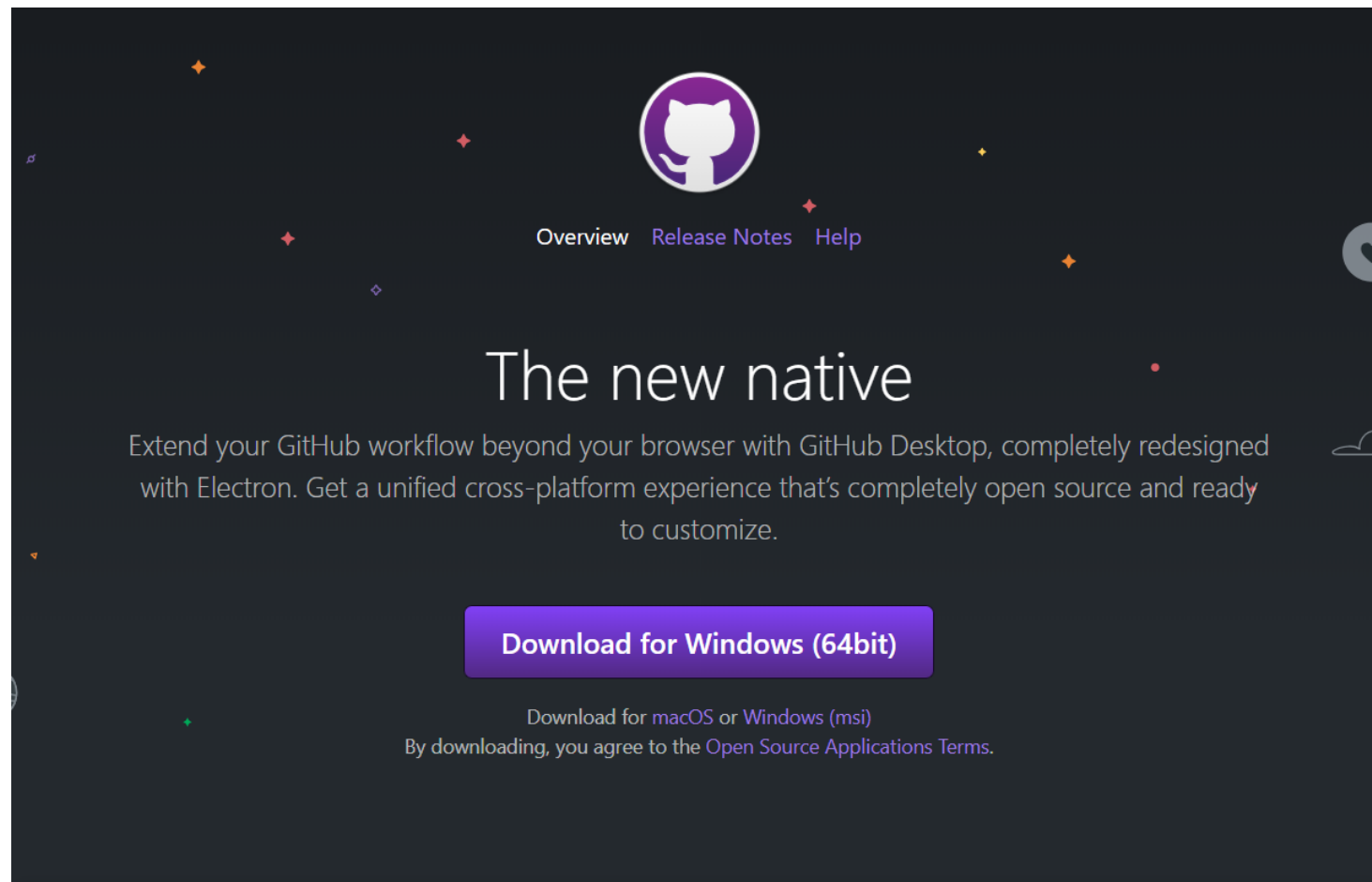
Delete this repository

Once you delete a repository, there is no going back. Please be certain.

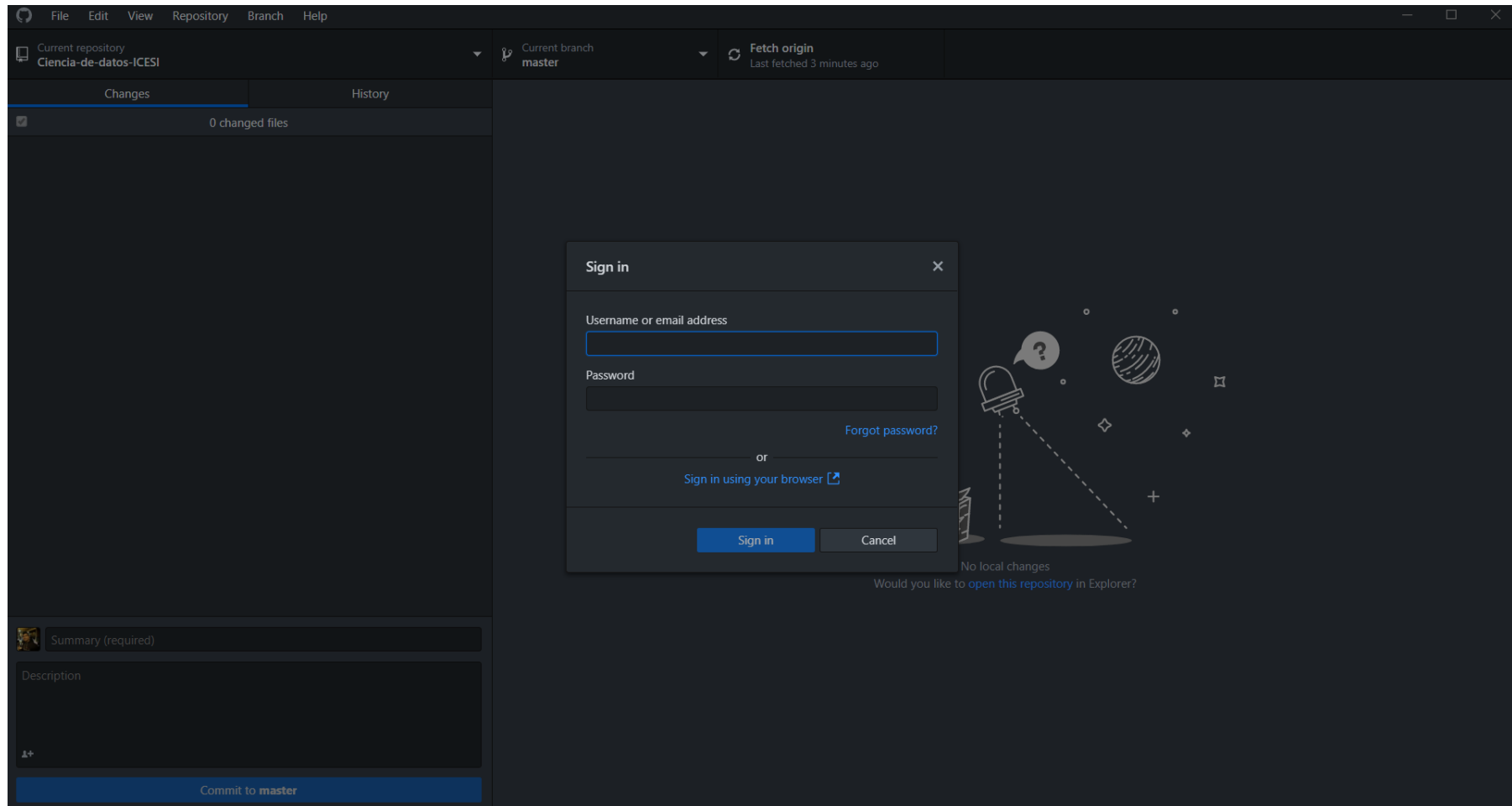
Delete this repository

APLICACIÓN DE ESCRITORIO

<https://desktop.github.com/>

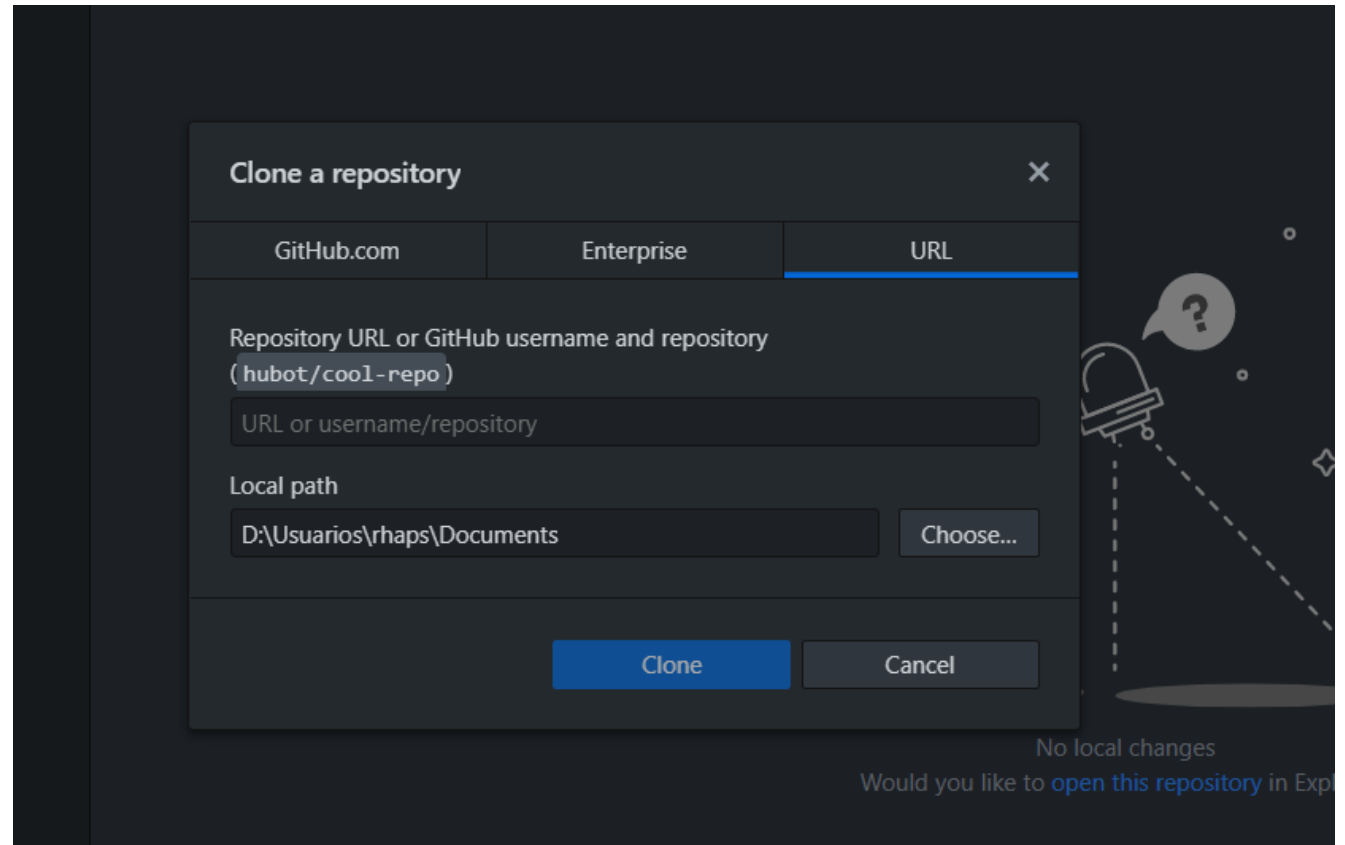


INGRESAR CON LA CUENTA CREADA

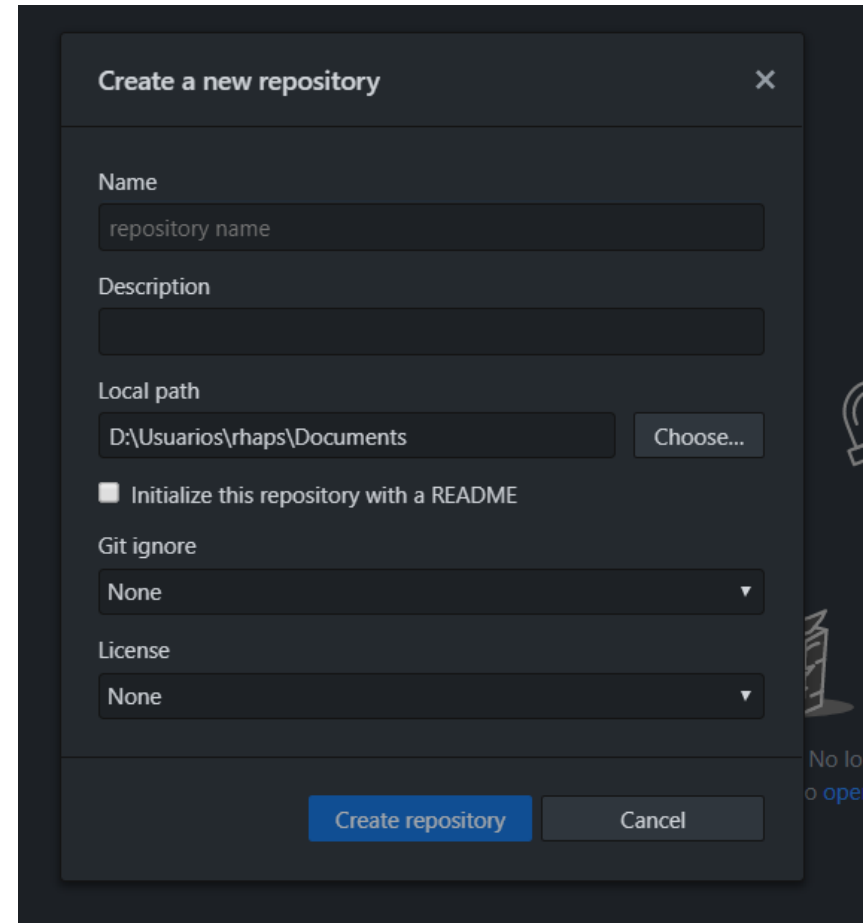
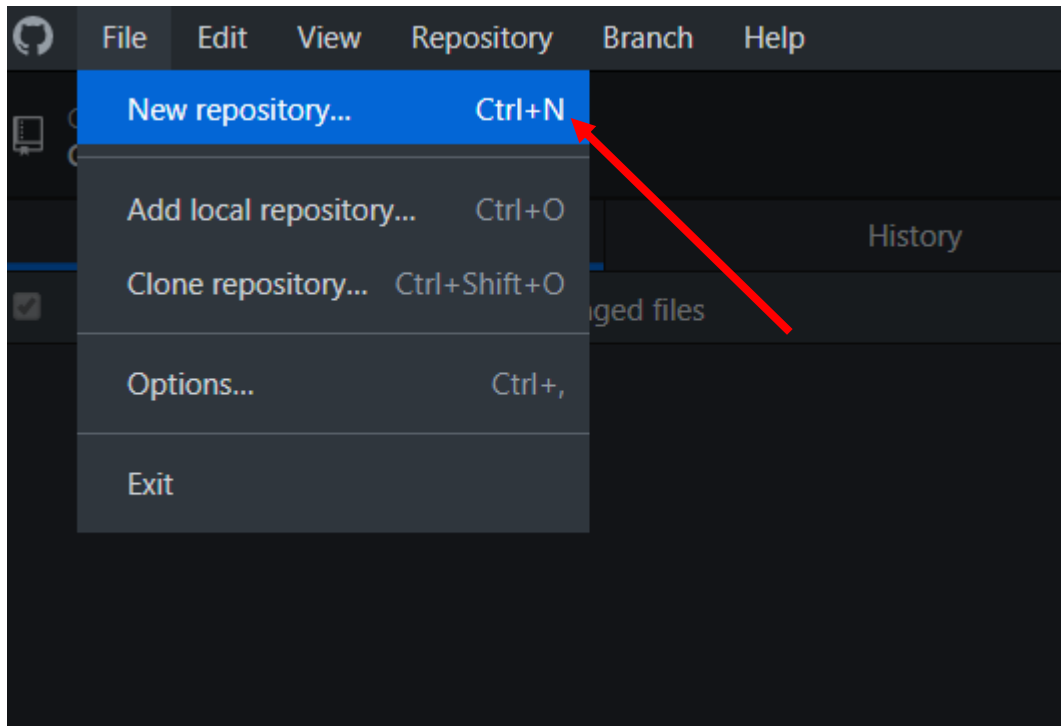


CLONAR UN REPOSITORIO

<https://github.com/urcuqui/Ciencia-de-datos-ICESI>



CREAR UN REPOSITORIO



CLONAR UN REPOSITORIO

