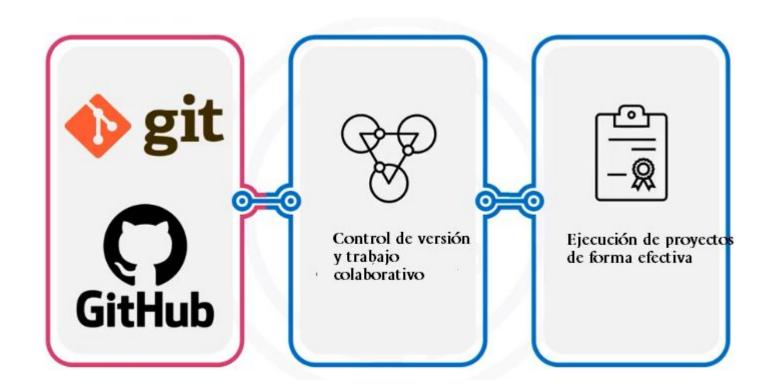
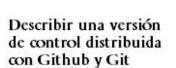
Introducción a git y github

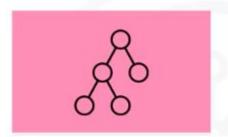
Victoria Landaberry 2025











Crear repositorios

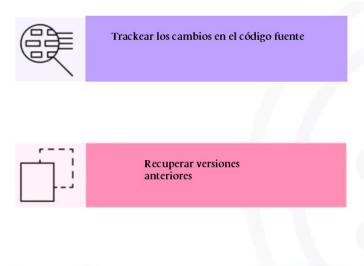


Compartir e integrar cambios en un proyecto



Construir un porfolio en Github

Control de versión

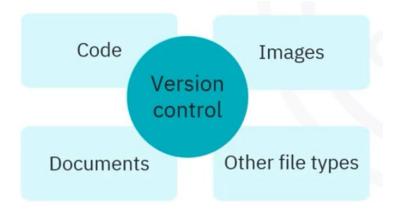




☐ 0 Open ✓ 39 Closed	Author +	Label +	Projects +	Milestones +	Reviews -	Assignee +	Sort •
[ImgBot] Optimize images #57 by imgbot_bot_was closed 13 days ago	Review required						
□ Lipdate kubernetes screenshots #55 by djalova was merged 13 days ago - Approved							□2
b update sample images url ✓ #54 by mmcelaney was merged on Feb 7 • Approved							□ 1
[ImgBot] Optimize images #52 by imgbot bot was closed on Apr 26, 3	2019 • Review required						
Add demo app badge to README ✓ #51 by ajbozarth was merged on Mar 20, 2019 - Review required					4	i	
Added support for head call for server up checks #50 by ajbozarth was merged on Mar 13, 2019 • Review required					20		
▶ Update links in README ✓ #49 by dolph was merged on Jan 21, 2019 • Approved							□ 1
Update links in README #48 by dolph was merged on Jan 7, 2019 • J	pproved						
standardize python virtualenv instructions #47 by stevemar was closed on Oct 4, 2019 - Approved							₽з
	[ImgBot] Optimize images #57 by imgbot: bot: was closed 13 days ago Update kubernetes screenshots #55 by djalova was merged 13 days ago - Ag update sample images url ✓ #54 by mmcelaney was merged on Feb 7 - A [ImgBot] Optimize images ✓ #52 by imgbot: bot: was closed on Apr 26, 3 Add demo app badge to README #51 by ajbozarth was merged on Mar 20, 20 Added support for head call for s #50 by ajbozarth was merged on Mar 13, 20 Update links in README ✓ #49 by dolph was merged on Jan 21, 2019 - A Update links in README ✓ #48 by dolph was merged on Jan 7, 2019 - A standardize python virtualenv ins	[ImgBot] Optimize images #57 by imgbot: bot: was closed 13 days ago - Review required Update kubernetes screenshots #55 by dialova was merged 13 days ago - Approved update sample images url ✓ #54 by mmcelaney was merged on Feb 7 - Approved [ImgBot] Optimize images ✓ #52 by imgbot: bot: was closed on Apr 26, 2019 - Review required Add demo app badge to README ✓ #51 by ajbotarth was merged on Mar 20, 2019 - Review required Added support for head call for server up checks ✓ #50 by ajbotarth was merged on Mar 13, 2019 - Review required Update links in README ✓ #49 by dolph was merged on Jan 21, 2019 - Approved Update links in README ✓ #48 by dolph was merged on Jan 7, 2019 - Approved standardize python virtualenv instructions ✓	ImgBot Optimize images	ImgBot Optimize images	In [ImgBot] Optimize images #57 by imgbot bot was closed 13 days ago - Review required	In [ImgBot] Optimize images #57 by imgbot bot was closed 13 days ago - Review required	In [ImgBot] Optimize images #57 by imgbot: bot: was closed 13 days ago - Review required

Git y Github

- 1. Git es un software gratuito y open source
- 2. Es un sistema de control de versiones distribuido (DVCS, por sus siglas en inglés). Esto significa que cualquier usuario en cualquier parte del mundo puede tener una copia completa del historial de un proyecto en su computadora local.



Git and GitHub

permite crear **ramas** (*branches*) separadas para desarrollar nuevas características (*features*) de un proyecto sin afectar la rama principal (generalmente main o master).



términos básicos



SSH protocol: Method to secure remote login



Repository: Contains project folders



Fork: Copy of a repository



Pull request: To request for review and approval



Working directory: Contains files and subdirectories



Commit: Snapshot of the project's current state



Branch: Separate line of development



Merge: Combines changes from one branch to another



Clone: Local copy of the remote Git repository

crear una cuenta en github

https://github.com



Sign up to GitHub

Email*

Email

Password*

Password

Password should be at least 15 characters OR at least 8 characters including a number and a lowercase letter.

Username*

Username

Username may only contain alphanumeric characters or single hyphens, and cannot begin or end with a hyphen.

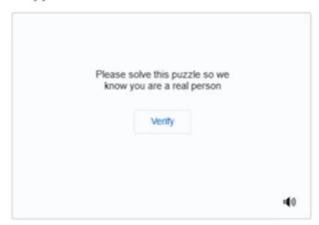
Continue >

By creating an account, you agree to the <u>Terms of Service</u>. For more information about GitHub's privacy practices, see the <u>GitHub Privacy Statement</u>. We'll occasionally send you account-related emails.

Join GitHub

Create your account

Verify your account



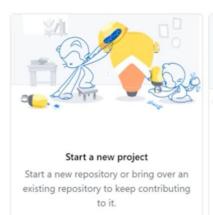
Email preferences

Send me occasional product updates, announcements, and offers.

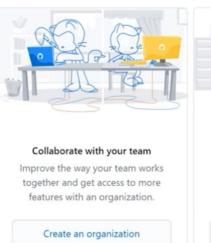
Join a free plan

What do you want to do first?

Every developer needs to configure their environment, so let's get your GitHub experience optimized for you.





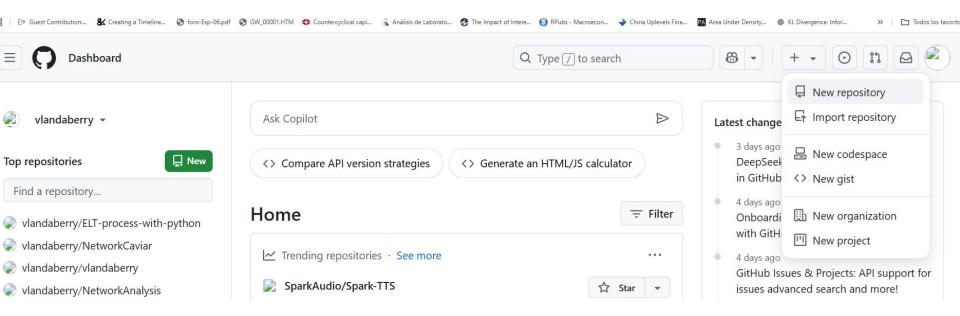




- You can choose an action
- Or skip this for now

Skip this for now >

Crear un nuevo repositorio



Create a new repository

A repository contains all project files, including the revision history. Already have a project	ject repository elsewhere?
Import a repository.	

Required fields are marked with an asterisk (*). Owner * Repository name * 📄 vlandaberry 🔻 Great repository names are short and memorable. Need inspiration? How about congenial-octo-train? 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:

Add a README file

This is where you can write a long description for your project. Learn more about READMEs,



Initialize this repository with:



This is where you can write a long description for your project. Learn more about READMEs.

Add .gitignore

.gitignore template: None 💌

Choose which files not to track from a list of templates. Learn more about ignoring files.

Choose a license

License: GNU General Public License v3.0 ▼

A license tells others what they can and can't do with your code. Learn more about licenses.

This will set **P** main as the default branch. Change the default name in your <u>settings</u>.

(i) You are creating a private repository in your personal account.

Paso a paso: Creación de un nuevo repositorio en GitHub

Ilngresar a GitHub y hacer clic en el botón + en la esquina superior derecha, luego seleccionar "New repository".

2 Elegir un nombre para el repositorio. Debe ser único y descriptivo.

Agregar una descripción (opcional) que explique el propósito del repositorio.

4 Seleccionar la visibilidad:

- Público: Cualquier persona puede ver el repositorio.
- Privado: Solo las personas con permisos podrán acceder.

5 Opciones iniciales:

- ✓ Add a README file: Crea un archivo README .md con información básica sobre el proyecto.
 ✓ Add .gitignore: Permite seleccionar una plantilla de .gitignore para excluir archivos específicos desde el inicio.
 ✓ Choose a license: Permite elegir una licencia de código abierto como MIT, GPL, etc.

6 Hacer clic en "Create repository" para finalizar la configuración.

Ahora, el repositorio estará listo para ser clonado o trabajado directamente desde GitHub. 🚀

Pestañas en GitHub

☐ Code

- Es la pestaña principal donde se visualiza el código fuente del repositorio.
- Se pueden explorar archivos, ver ramas (*branches*), y clonar el repositorio.
- Permite añadir nuevos archivos y realizar modificaciones.

2 Issues 🐛

- Aquí se gestionan los reportes de problemas o solicitudes de mejora en el proyecto.
- Permite etiquetar (*labels*), asignar responsables y establecer prioridades.

3 Pull Requests (PRs) 🔄

- Se usa para fusionar cambios desde una rama a otra, generalmente hacia main.
- Permite la revisión de código antes de que los cambios sean aceptados.
- Se pueden asignar revisores y discutir modificaciones..

4 Actions

- Permite automatizar flujos de trabajo, como pruebas continuas, despliegues o compilaciones.
- Basado en *GitHub Actions*, se pueden crear scripts para tareas repetitivas.

- Es un espacio para organizar el trabajo con tableros.
- Se pueden crear tareas, moverlas entre columnas y gestionar el desarrollo ágilmente.

6 Security ₩

- Muestra vulnerabilidades detectadas en las dependencias del repositorio.
- Se pueden habilitar escaneos de seguridad para evitar código inseguro.

🗍 Insights 📊

• Proporciona estadísticas sobre la actividad del repositorio, como contribuciones, gráficos de commits y redes de colaboradores.

🔞 Settings 🌞

• Configuración del repositorio, incluyendo visibilidad (público/privado), permisos, ramas protegidas.

9 Wiki (cuando el repositorio es público)

- Permite documentar el proyecto con páginas estructuradas.
- Útil para crear guías, manuales o documentación técnica.

Ejemplo

- 1. En el siguiente ejemplo veremos cómo crear un repositorio
- 2. Como editar el readme
- 3. Como crear un código
- 4. Cómo subir un archivo
- 5. Cómo realizar el commit de los cambios
- 6. Qué debemos compartir para que otros encuentren el repositorio