



Git + GitHub

Camila Márquez Carrasco

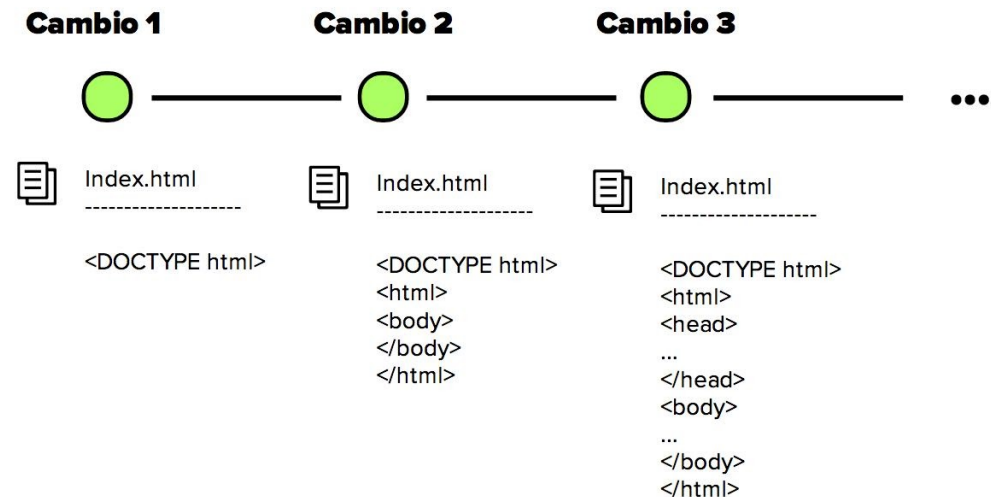


¿Qué es Git?

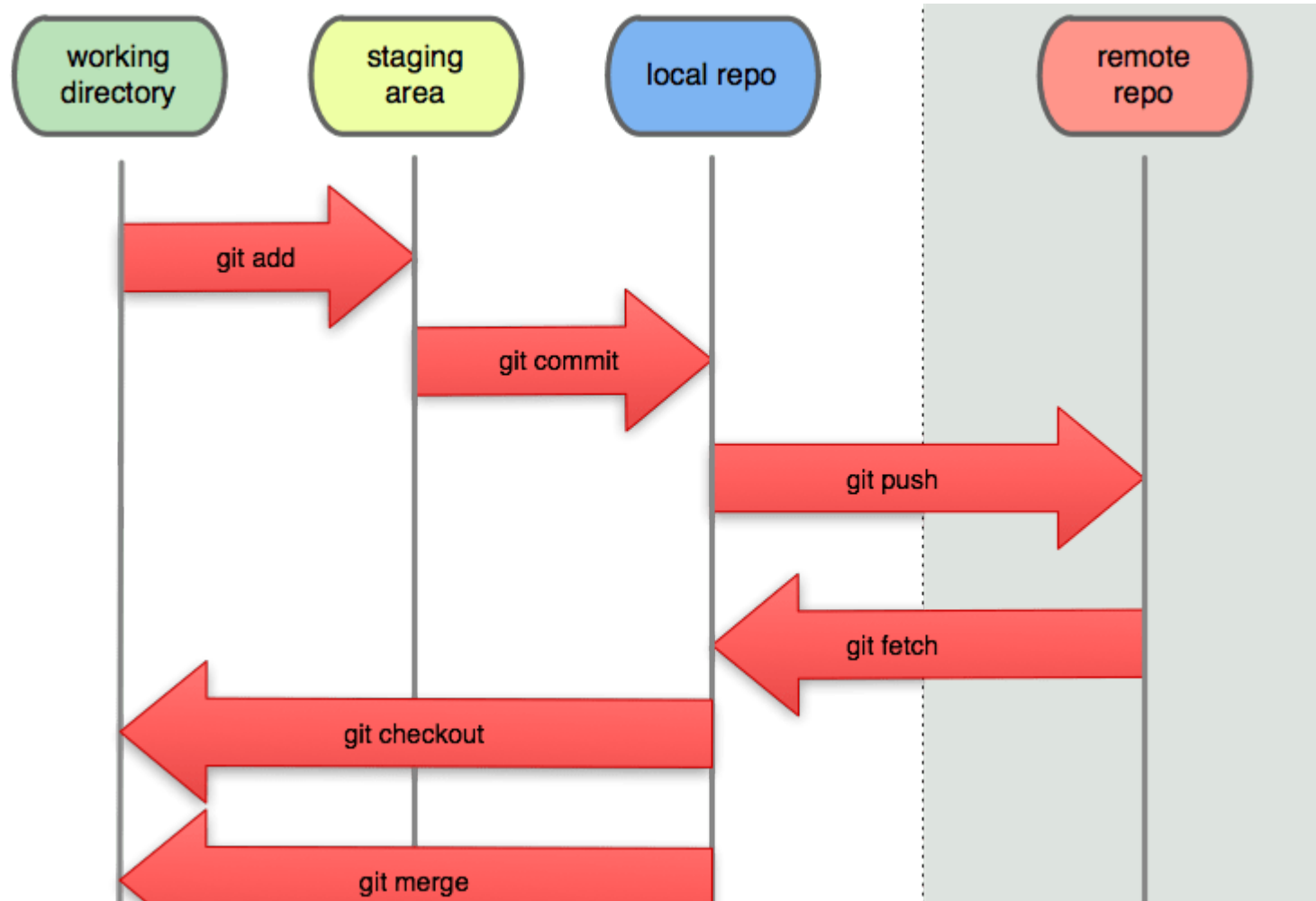


Git es un sistema de control de versiones distribuido de código abierto desarrollado por Linus Torvalds, el creador de Linux.

El control de versiones distribuido permite a los desarrolladores descargar un software, realizar cambios y subir la versión **que** han modificado.



¿Qué es Git?



Conceptos Clave

Git

GitHub

Repositorio Local

Repositorio Remoto

Terminal/Consola de Comandos

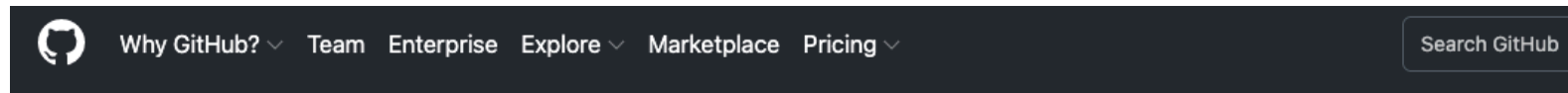
Comando

Rama



Comenzando en GitHub

- Crear una cuenta en: <https://github.com/>



Join GitHub Create your account

Username *

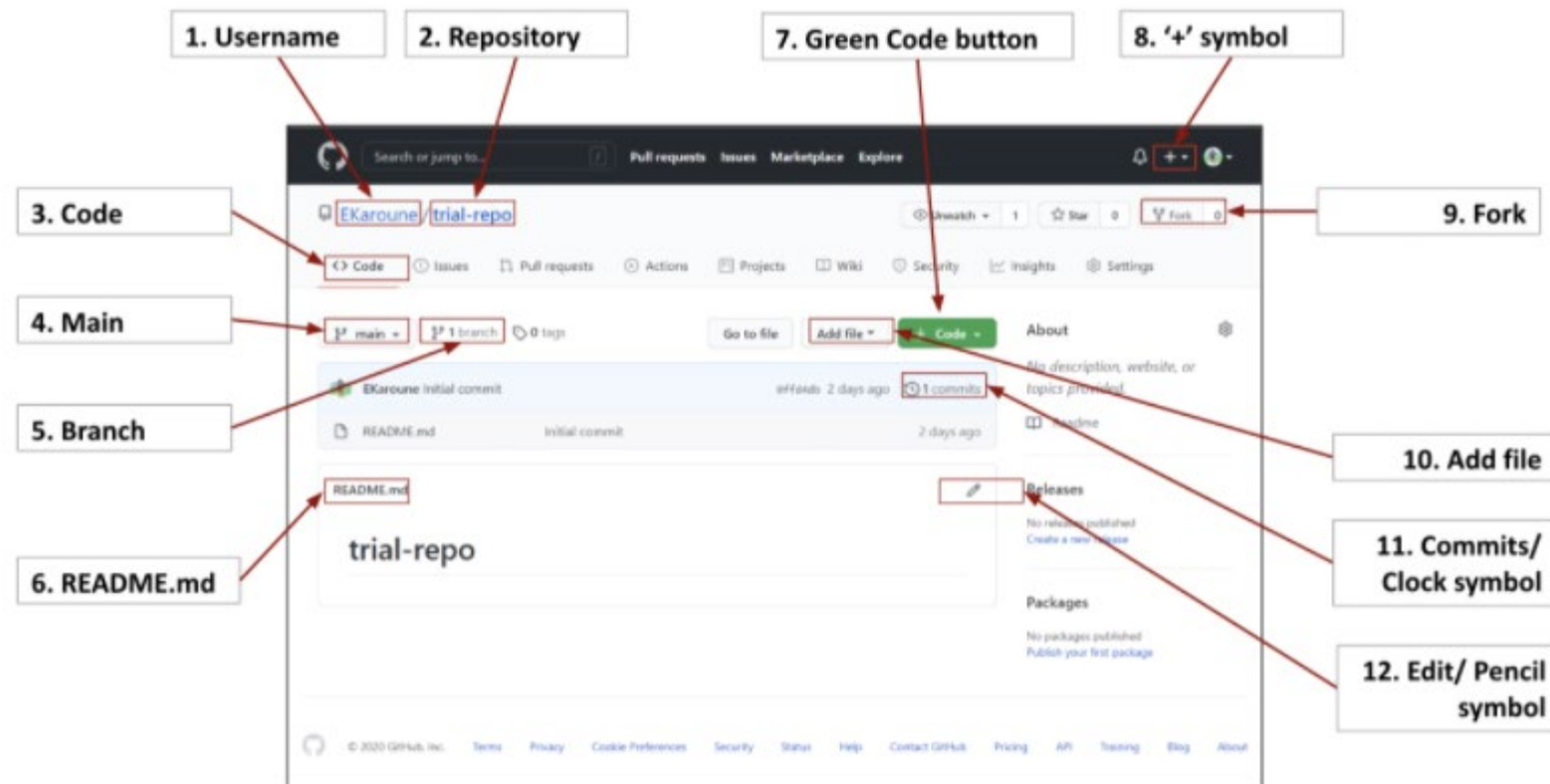
Email address *

Password *

Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)

Comenzando en GitHub

- Crear una cuenta en: <https://github.com/>



Comenzando en GitHub

➤ Consola de comandos

Windows	Mac
cd	cd
	~ Atajo al directorio Home
cd ..	cd ..
dir	ls

Comenzando en GitHub

Instalación Git:

Windows	Mac	Linux
http://git-scm.com/download/win	http://git-scm.com/download/mac	<code>apt-get install git</code>
<code>git --version</code>	<code>git --version</code>	<code>git --version</code>

```
$ git config --global user.name "Your name here"
$ git config --global user.email "your_email@example.com"
```


Comenzando en GitHub

Túnel SSH: Se requiere un par de llaves RSA publica/privada

```
$ ssh-keygen -t rsa -C "your_email@example.com"
```

Mac

```
$ pbcopy < ~/.ssh/id_rsa.pub
```

Comenzando en GitHub

Túnel SSH: GitHub Set Up

En GitHub ir a Account Settings
Click SSH Keys a la izquierda
Click Add SSH Key a la derecha
Añade un label y pega la llave pública en la textbox

The screenshot shows the GitHub 'Account settings' page for the user 'bellyster'. On the left sidebar, the 'SSH and GPG keys' option is highlighted with a red rectangle. The main content area is titled 'SSH keys' and includes a 'New SSH key' button. Below this, a message states: 'This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.' A single SSH key is listed with the label 'Kali Machine', the public key 'SHA256:zsMPPhkKOGy/KfuC/LCV4oAshk9n0SPs6wIgvDDR5zw', and the text 'Added on Jun 18, 2021' and 'Last used within the last 3 months — Read/write'. A 'Delete' button is next to the key. Below the key list, there is a link to 'generating SSH keys' and a link to 'common SSH problems'. The 'GPG keys' section below shows 'There are no GPG keys associated with your account.' and a link to 'generate a GPG key and add it to your account'. The 'Vigilant mode' section has an unchecked checkbox for 'Flag unsigned commits as unverified' and a link to 'Learn about vigilant mode.'

bellyster
Your personal account [Switch to another account](#)


[Go to your personal profile](#)

Account settings
Profile
Account
Appearance
Accessibility
Account security
Billing & plans
Security log
Security & analysis
Sponsorship log
Emails
Notifications
Scheduled reminders
SSH and GPG keys
Repositories
Packages

SSH keys

[New SSH key](#)

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

**Kali Machine**
SHA256:zsMPPhkKOGy/KfuC/LCV4oAshk9n0SPs6wIgvDDR5zw
Added on Jun 18, 2021
Last used within the last 3 months — Read/write
[Delete](#)

[Check out our guide to generating SSH keys](#) or troubleshoot [common SSH problems](#).

GPG keys

[New GPG key](#)

There are no GPG keys associated with your account.

[Learn how to generate a GPG key and add it to your account](#).

Vigilant mode

☐ **Flag unsigned commits as unverified**
This will include any commit attributed to your account but not signed with your GPG or S/MIME key. Note that this will include your existing unsigned commits.

[Learn about vigilant mode](#).

Comenzando en GitHub

Túnel SSH: GitHub Set Up

En GitHub ir a Account Settings

Click SSH Keys a la izquierda

Click Add SSH Key a la derecha

Añade un label y pega la llave pública en la textbox

SSH keys / Add new

Title

KeyLocal

Key

```
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQDKxCqj2IOvG6jBQz61GESo8oKtKglXejvNc+O8UdjX+YNeY
1OeZNZ8onJuxxqyo87yLVyfgVz4jAO3TBkgAdxKwNWHPynJFVDQn+AKZfB5dh3uZjktDuMyj9af7CZVF
MdDb5KcZbFFBNLZWICw+TOXYzfqYxJhFc4TbPVerEcV0ItYCSyHisgX7En8ykgKkFyRoezOjvS0kfFa042T
OoogtC9OwR+SvtUHG/EEfZYkt5LATvTUGdysgz7qs1m2hgPmXkepr4gOzD7vMQzrJb25MYUq9ppOC
MMhxTSUaFrJG6PRPieRnfzbE9gz3PXvtMriroDROhMoggW3K6odBDEV camila.marquez@usach.cl
```

Add SSH key

Comenzando en GitHub

Verificar Conexión:

```
C:\Users\56950>ssh -T git@github.com  
Hi bellyster! You've successfully authenticated, but GitHub does not provide shell access.
```


Subir nuestro proyecto a GitHub

Ir a GitHub y crear un repositorio vacío:

Type ▾


Language ▾

Sort ▾


 New

Create a new repository

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



Owner *
 bellyster ▾

/

Repository name *
nombre 

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

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

Subir nuestro proyecto a GitHub

Subir nuestro proyecto: Ejecutar en la ruta de su carpeta de proyecto!

```
git init  
git add .  
git commit -m "un mensaje"
```

```
git remote add origin https://github.com/bellyster/ProyectoWeb.git  
git branch -M main  
git push -u origin main
```

Subir nuestro proyecto a GitHub

Hacer Commit de cambios a GitHub:

```
git status
git stash
git pull
git stash pop
git add .
git status
git commit -m "mensaje"
git push
```