

# Git - Github



UNITAT  
D'ESTADÍSTICA I  
BIOINFORMÀTICA

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# Git-Github

- **Git** : Eina de control de versions.
- **GitHub.com** : pàgina web que es connecta als repositoris per a tenir-los en línia i interactuar amb ells.
- **GitHub Desktop** : aplicació que es pot instal·lar en Windows per ajudar a sincronitzar el codi local amb GitHub.com.

# Definicions

- **Repositori**  $\iff$  **Projecte**. On tindrem...
  - Carpets, arxius, dades, etc.
  - README: Descripció del projecte
- **Branques**: Ens permet treballar en diferents versions d'un repositori alhora
- **Organitzacions de treball**


# Creem nou compte


`https://github.com`


**GitHub** [Explore](#) [Features](#) [Enterprise](#) [Pricing](#) [Sign up](#) [Sign in](#)

## Join GitHub

The best way to design, build, and ship software.

 **Step 1:**  
Set up a personal account

 **Step 2:**  
Choose your plan

 **Step 3:**  
Go to your dashboard

### Create your personal account

**Username**

This will be your username — you can enter your organization's username next.

**Email Address**

You will occasionally receive account related emails. We promise not to share your email with anyone.

**Password**

Use at least one lowercase letter, one numeral, and seven characters.

By clicking on "Create an account" below, you are agreeing to the [Terms of Service](#) and the [Privacy Policy](#).

[Create an account](#)

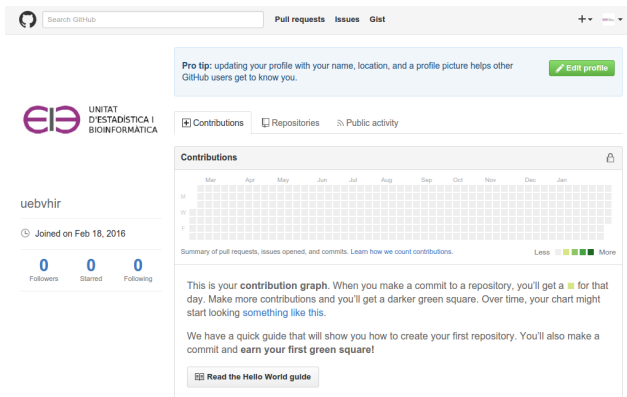
### You'll love GitHub

**Unlimited** collaborators  
**Unlimited** public repositories

- ✓ Great communication
- ✓ Friction-less development
- ✓ Open source community

# Compte UEB

`https://github.com/uebvhir`



uebvhir

Joined on Feb 18, 2016

0 Followers 0 Starred 0 Following

**Contributions**

Summary of pull requests, issues opened, and commits. [Learn how we count contributions.](#)


Lees ■ ■ ■ ■ More

This is your **contribution graph**. When you make a commit to a repository, you'll get a ■ for that day. Make more contributions and you'll get a darker green square. Over time, your chart might start looking [something like this](#).


We have a quick guide that will show you how to create your first repository. You'll also make a commit and **earn your first green square!**

[Read the Hello World guide](#)

# Creem repositori



[Pull requests](#) [Issues](#) [Gist](#)

  
Create new...

---


## Create a new repository

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


---

**Owner**

**Repository name**

 uebvhlr


 / 


exempleSeminari 

Great repository names are short and memorable. Need inspiration? How about **friendly-funicular**.

**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

## Linux

- **Software necessari:**

```
sudo apt-get update  
sudo apt-get install git
```

- **Software opcional:**

```
sudo add-apt-repository ppa:rabbitvcs/ppa  
sudo apt-get install rabbitvcs-cli rabbitvcs-core  
rabbitvcs-gedit rabbitvcs-nautilus3
```

## Windows

- **Necessari:** Instalem Git  
(<https://git-for-windows.github.io/>)
- **Opcional:** Instalem Github  
(<https://desktop.github.com/>)

Obrim Git CMD



# Configuració Git

- Configurar nom i correu

```
git config --global user.name 'Nom'
```

```
git config --global user.email 'Correu'
```

- Comprovem dades

```
git config --list
```

# Clonem repositori a l'ordinador

- Ens posem al directori on volem que es cloni el repositori
- Clonem

```
git clone https://github.com/uebvhir/exempleSeminari.git  
cd exempleSeminari
```

- Podem afegir arxius des de:
  - 1 Local
  - 2 Github

## Nous arxius local

- Creem o copiem arxius a la carpeta exempleSeminari
- Actualitzem canvis fets en local a github

```
git add . (afegeix tots els arxius nous)
      -u (fitxers que han canviat de nom o eliminats)
      -A (fa totes dues coses)
git commit -m "missatge de canvis"
git push -u origin master
```

# Nous arxius github

- Creem o copiem arxius a la carpeta exempleSeminari des de github
- Actualitzem canvis fets a github en local

```
git add -A
```

```
git commit -m "missatge de canvis"
```

```
git pull --rebase origin master
```

# Repositori local - github

- Creem repositori local

```
mkdir nomRepo
```

```
cd nomRepo
```

```
git init
```

```
git remote add origin
```

```
https://github.com/UsuariGithub/nomRepo.git
```

- Afegim arxius
- Creem repositori amb el mateix nom que el local
- Sincronitzem

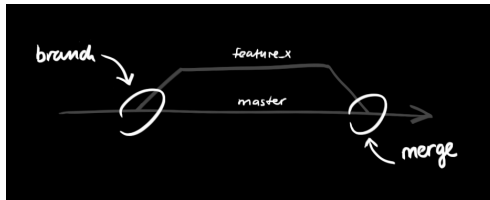
```
git add -A
```

```
git commit -m "nou repositori afegit"
```


```
git push -u origin master
```

# Branques

- Afegir branca `git checkout -b brancaMiriam`
- ELIMINAR branca `git branch -d brancaMiriam`
- Veure en quina branca estem `git branch`
- Actualitzar branca al github `git push origin brancaMiriam`
- Canviar de branca `git checkout master`



# Organitzacions



Signed in as uebvhr

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**Organizations**

Organizations New org

You are not a member of any organizations.

Transform account

[Turn uebvhr into an organization](#)

## Altres comandes

- Colors especials per a la consola `git config color.ui true`
- Agregar arxius de forma interactiva `git add -i`
- Canvis des de l'últim commit `git status`
- Fixar proxy `git config --global http.proxy  
http://conf_www.ir.vhebron.net:8081`
- Desfer un git init `rm -rf .git`
- Veure canvis en els diferents commits `git diff origin/master`



- **Rstudio - Git - Github:**

<http://www.r-bloggers.com/rstudio-and-github/>

- **Tutorial online:**

<https://try.github.io/levels/1/challenges/1>

- **Pro Git:** <https://git-scm.com/book/es/v1>