GITHUB

WHAT IS GITHUB?

- It’s an **online** **hosting service for git repositories**

- Github repos can be:
  - Public
  - Private

GITHUB: REASONS TO HAVE AN ACCOUNT

- Backup your git repositories
- Collaborate with other developers
- Create open source projects
- Expose your coding capabilities to hiring managers

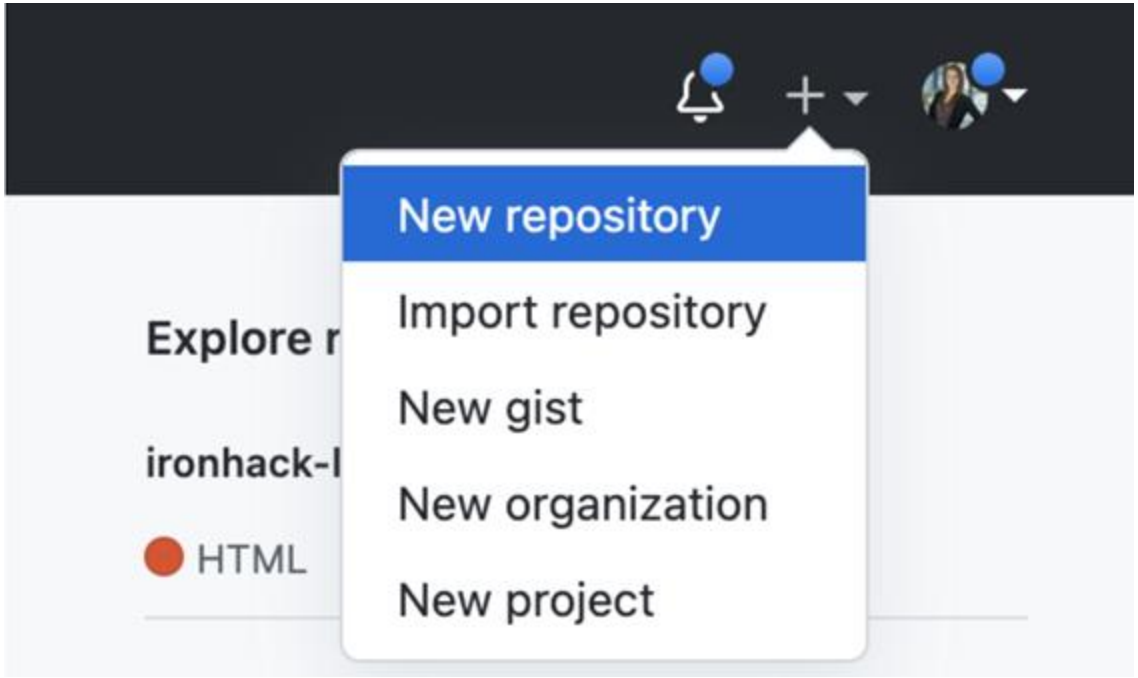
GITHUB: CREATING AN ACCOUNT

- In order to create a GitHub account, you must go to: https://github.com/ and create an account.

- Now you can create as many “repos” on GitHub as you want. **However, they have nothing to do with your “local git repos” in your computer unless you “link” each other.**

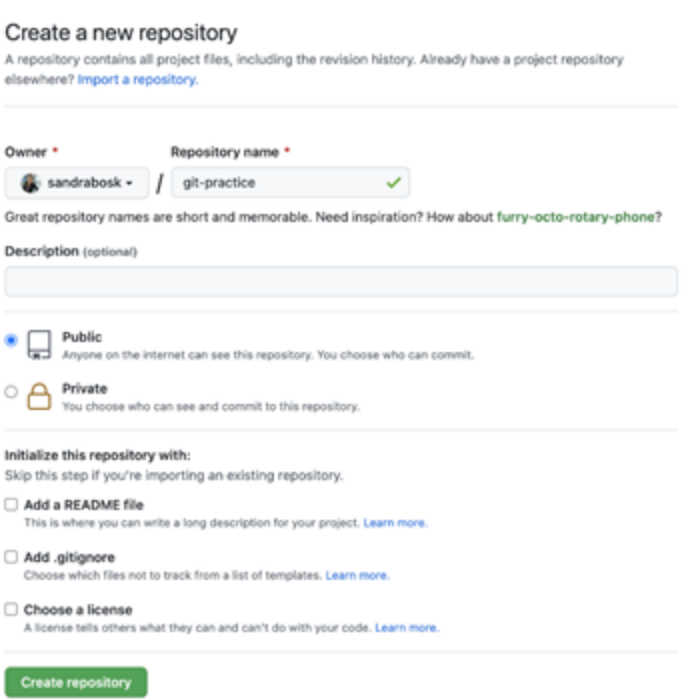
GITHUB: CREATING A REPOSITORY

- In order to create a GitHub repository, go to your GitHub account and, on the “+” sign click on “New repository”



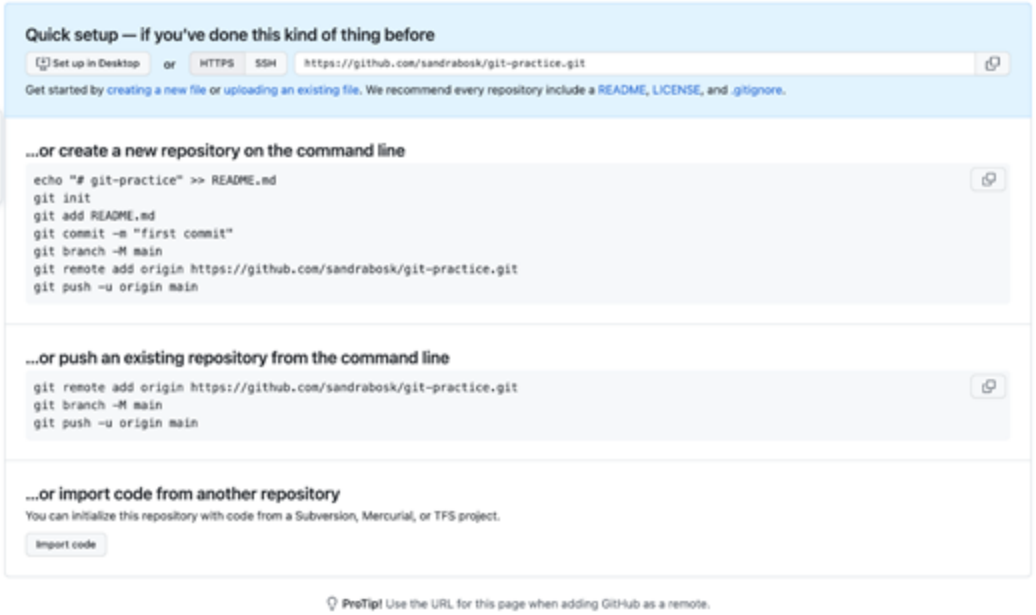
GITHUB: CREATING A REPOSITORY

- Afterwards, you will be presented with the screen shown on the right.
- Then, you will have to:
  - Give a name to the repository
  - Set the visibility
  - Leave everything else as defaut and click on “Create repository”



GITHUB: CREATING A REPOSITORY

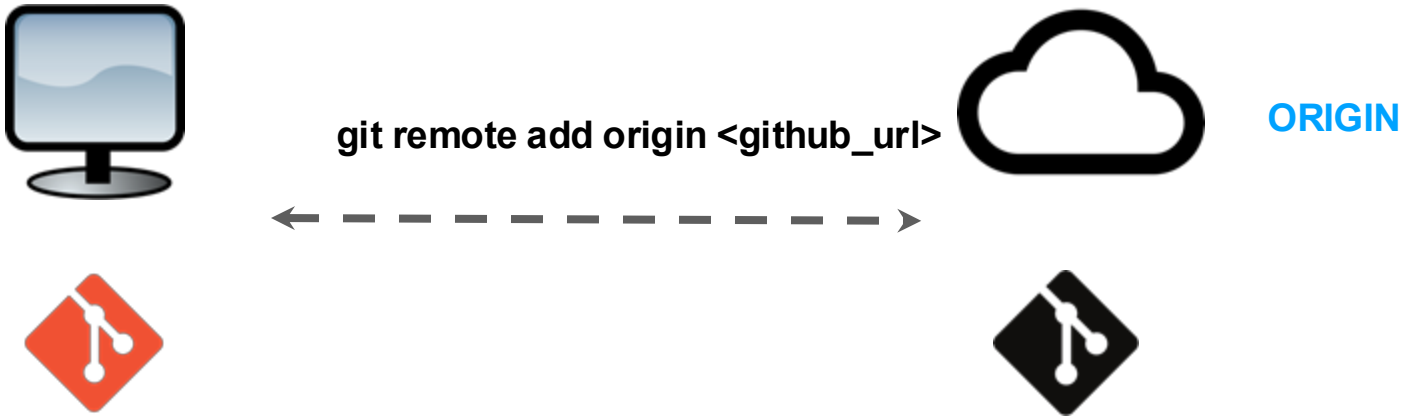
- Next, you will be presented with an screen like this one



LINKING A LOCAL REPO AND A GITHUB REPO

- **GitHub repos and local repos can’t see each other**, unless we link them.Here is how to do it.

```
git remote -v                  # to check the remote
git remote add origin <github_url>  # link is the link to the repo on GitHub
git remote -v                  # to check if it is added properly
```

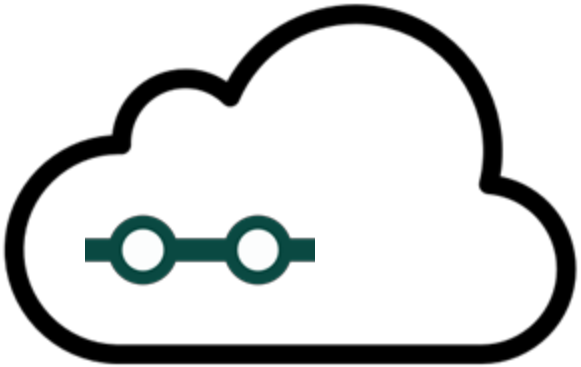


UPLOADING COMMITS TO GITHUB REPOS: PUSH

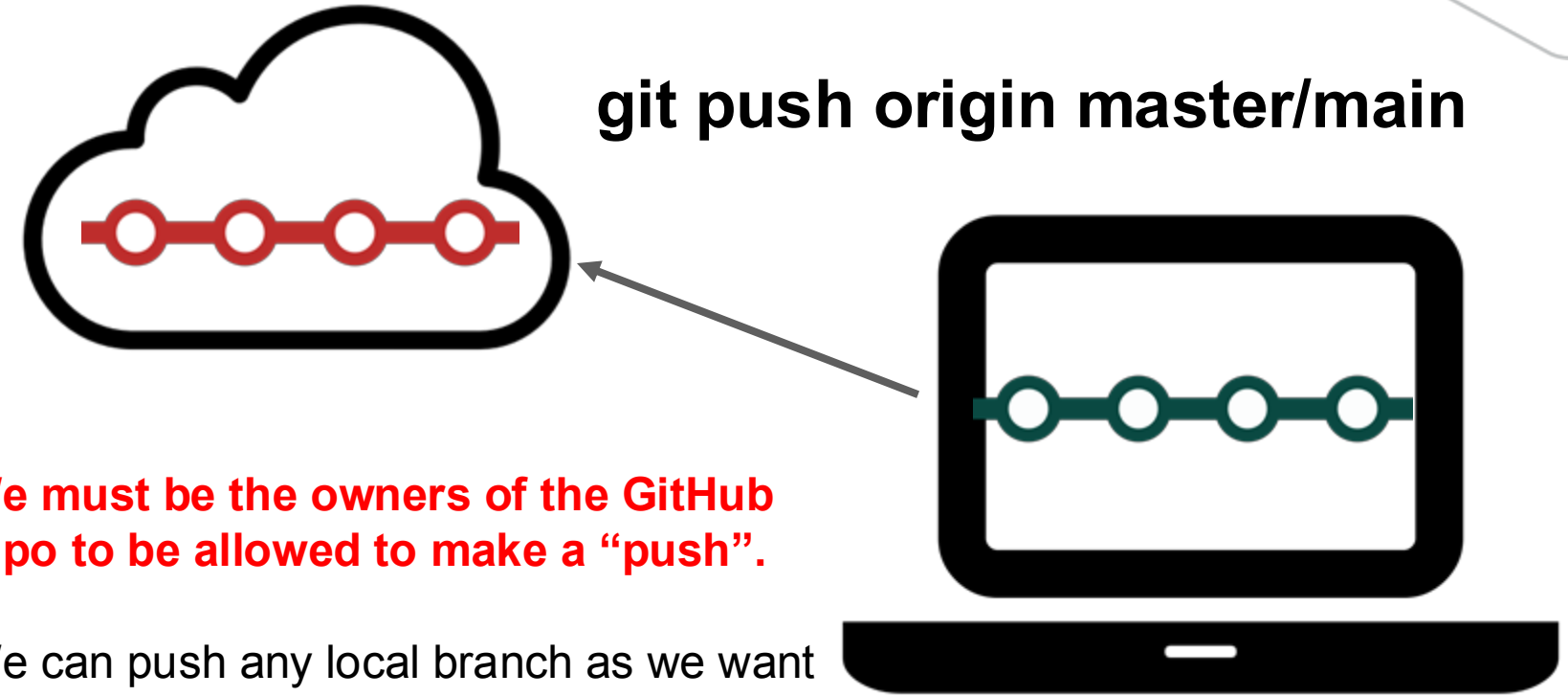
 - push

SOME CONSIDERATIONS ABOUT GITHUB AND GIT REPOS

- Even though a local git repo and a GitHub repository can be linked, the files in both repositories **are not automatically synchronized**.
- The synchronization has be be done manually using **push**



UPLOADING LOCAL COMMITS TO GITHUB: PUSH



We must be the owners of the GitHub repo to be allowed to make a “push”.

We can push any local branch as we want as long as we are the owners of the GitHub repo.

PUSHING COMMITS

Caveat!!!
The first time that you do a “push”, the computer will ask for your GitHub username and the password.

However, when it says “password” it means the Personal Access Token (PAT) that you generated during the prework!!!!

(for security reasons you will not see the Personal Access Token or anything when you type it for security reasons). Copy and paste it on the terminal and press intro.

DOWNLOADING COMMITS FROM OUR GITHUB REPO: PULL

- **pull** :

GIT PULL COMMAND

- The command to download commits from a GitHub repository is: **pull.**
- This command downloads any additional remote changes to our remote repository and integrates the changes in our folder.
- **The changes ARE applied onto our local files**.