**GIT**

Git is a version control system. What is a version control system? These are software tools that help manage changes to source code. Git is very useful if you want to collaborate with other developers.

Repositories: A Git repositories contains all of the project files.

GitHub is a hosting site for software development where you can host your Git projects in the cloud.

**Commands**

You can either type by hand the commands in the terminal or use a GUI (graphical user interface).

**Most common commands**

Git init: Turns a directory into an empty git repository.

Git add: adds files in the staging area for git.

Git commit: Records the changes made to the files to a local repository.

Git status: returns the current state of the repository.

Git config: Is used to assign settings.

Git branch: To know what branch the local repository is on, add or delete a new branch.

Git checkout: Used to switch branches.

Git merge: Merges branches together.

Git stash: Temporarily stashes changes made to the working copy so you can also work on something else and re apply them later.

**How to start using git?**

To make a new git project first obviouslyyy you have to open git bash.

Next step is to configure git; you have to put your name and you email.

Git config - -global user.name “Florencia”

Git config - -global user.email “fa.lisicki@gmail.com”

Well, if you want to go to your pc user in git you have to write in the console

$ pwd

/c/user/flor

$ cd desktop

$ cd proyecto/

If you did what’s shown above you have to previously have made a folder named proyecto in your desktop.

If you put “$ ls” the console will show you the files inside the folder.

Ok now you have to initiate a new repository.

Git init

How can I have files in my depository that are not in the repository? With git ignore!, example:

Touch secret.txt

Now we have to use git.ignore and inside we put secret.text inside and done! You have your secret file ☺

Now that you have open the repository if you want to see the file you have you will need to write this:

Git status

If you want to add a file:

Git add app.js

In this example app.js is the name of the file you are adding.

**Commit**

Is a version of the project and has a reference to all the files and folders that are part of it.

Working directory: Directory = folder. Here you can add, edit and delete projects in the project.

Staging area: Here you can have a draft of your project. You can add or remove files so is easier to choose what to include in your next commit.

Commit story: Is where the commits is stored after being made.

**Branch**

A branch is a pointer to a commit. The default name for a branch is “master”.

**Tags**

Git has two types of tags: lightweight and annotated. The first one just like branches doesn’t change. Annotated tags on the other hand are stored as full objects in the git database.

**Hooks**

Hooks are scripts that run automatically when certain events occur in a git repository. Hooks are only executed in response to actions that happen in the repository they reside, they can reside in either local or server side repositories.

**Sources:**

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