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***|*** ***Git Concepts and Applications|***

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# **Git Concepts and Applications**

## **What is git?**

Git is a version control software.

## **What is GitHub?**

Github is a platform, which is responsible for the storage of projects, making use of the git version control system

## **What is a repository?**

A repository in git is the space where the files of our projects are stored where the different versions that were uploaded to the repository are located

## **What is a git flow?**

Git flow is an alternative type of git model which allows us to create function branches and main branches.

## **Local/ stagging/ remote areas**

### **Local:**

Is the area where the git file is stored on our computer.

### **Stagging**

It is the file which indicates the next index of our workflow.

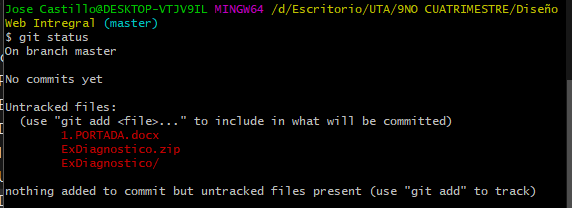
### **Remote areas**

this is the configuration that allows us to work with hosted projects

on external or remote servers

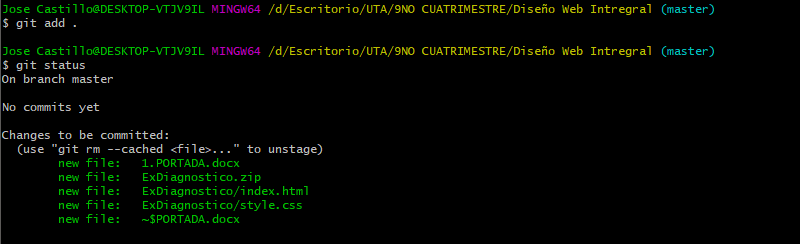
## **Status**

git status gives us the status of the directory in which we are working, that is, it shows us all the changes that have been prepared



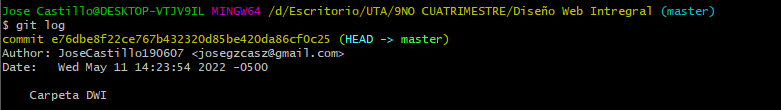
## **Add**

the git add command saves the changes previously prepared, the git status command helps us to visualize these changes



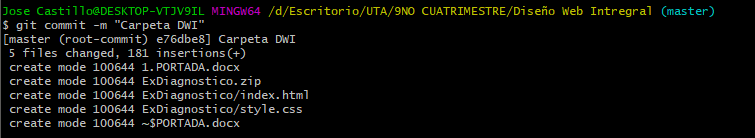
## **Log**

git log helps us find a specific version of the project within the repository history



## **Commit**

This command takes a snapshot of a snapshot, it serves to confirm said snapshot of the directory in the environment



## **Pull**

this command helps us download content from another remote repository and update it to our local repository

## **Push**

in this command on the contrary, it is used to send the content of our local repository to a remote repository

## **Pull request**

The pull requests command helps us contribute to a group or open-source project, such as coding, designing, writing, organizing, etc.

## **Merge**

this command merges all existing branches and merges them into one main branch

## **Branch**

this command allows us to create a new branch, either independent of the main branch

## **Rebase**

this command specializes in integrating changes from one branch to another by merging base change