**What is GitHub?**

It is a web hosting service and software development management, using the Git version control software.

**When was it created?**

GitHub was launched on April 10th 2008. Development began October 19th 2007.

**Why?**

Because the open source contributor traditional system causes each download project sources and then propose amendments to the project team, GitHub based on the principle of the fork (branch) by default any person « forking » the project with the same name as the original.

**By who?**

By Chris Wanstrath, PJ Hyett et Tom Preston-Werner.

**What similar platforms exist?**

Similar platforms that exist are: Gitlab and Gogs

**Why would you use such a platform?**

I would like to use this platform because, it noted that as a developer, it's often very difficult to get help and even work as a team. Then this tool, GitHub provides developers who use it a way to be more effective in collaborative work and also allows them to be more efficient in their projects. With these more than 10 Mega users, GitHub is clearly one of the best tools in this domain. And so the choice is justified.

**Git Exercises**

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| Press enter to submit commands  **> git init**  Initialized empty Git repository in /.git/  Success!  **$ git**  # On branch master # # Initial commit # nothing to commit (create/copy files and use "git add" to track)  Success!  **$ git status**  # On branch master # # Initial commit # # Untracked files: # (use "git add <file>..." to include in what will be committed) # # octocat.txt nothing added to commit but untracked files present (use "git add" to track)  Success!  **$ git add octocat.txt**  Nice job, you've added octocat.txt to the Staging Area  **$ git status**  # On branch master # # Initial commit # # Changes to be committed: # (use "git rm --cached <file>..." to unstage) # # new file: octocat.txt #  Success!  **$ git commit -m "Add cute octocat story"**  [master (root-commit) 20b5ccd] Add cute octocat story 1 file changed, 1 insertion(+) create mode 100644 octocat.txt  Success!  **$ git add '\*.txt'**  Success!  **$ git status**  # On branch master # Changes to be committed: # (use "git reset HEAD <file>..." to unstage) # # new file: blue\_octocat.txt # new file: octofamily/baby\_octocat.txt # new file: octofamily/momma\_octocat.txt # new file: red\_octocat.txt #  Did not use git commit  **$ git commit -m 'Add all the octocat txt files'**  [master 3852b4d] Add all the octocat txt files 4 files changed, 4 insertions(+) create mode 100644 blue\_octocat.txt create mode 100644 octofamily/baby\_octocat.txt create mode 100644 octofamily/momma\_octocat.txt create mode 100644 red\_octocat.txt  Success!  **$ git log**  commit 3852b4db1634463d0bb4d267edb7b3f9cd02ace1 Author: Try Git <try\_git@github.com> Date: Sat Oct 10 08:30:00 2020 -0500  Add all the octocat txt files  commit b652edfd888cd3d5e7fcb857d0dabc5a0fcb5e28 Author: Try Git <try\_git@github.com> Date: Sat Oct 10 08:30:00 2020 -0500  Added cute octocat story  Success!  **$ git remote add origin** [**https://github.com/try-git/try\_git.git4**](https://github.com/try-git/try_git.git4)  Success!  **$ git push -u origin master**  Branch master set up to track remote branch master from origin.  Success!  **$ git pull origin master**  Updating 3852b4d..3e70b0f Fast-forward yellow\_octocat.txt | 1 + 1 file changed, 1 insertion(+) create mode 100644 yellow\_octocat.txt  Success!  **$ git diff HEAD**  diff --git a/octocat.txt b/octocat.txt index 7d8d808..e725ef6 100644 --- a/octocat.txt +++ b/octocat.txt  @@ -1 +1 @@  -A Tale of Two Octocats  + [mA Tale of Two Octocats and an Octodog  Success!  **$ git add octofamily/octodog.txt**  Success!  **$ git diff –staged**  diff --git a/octofamily/octodog.txt b/octofamily/octodog.txt new file mode 100644 index 0000000..cfbc74a --- /dev/null +++ b/octofamily/octodog.txt  @@ -0,0 +1 @@  + [mwoof  Success!  **$ git reset octofamily/octodog.txt**  Success!  **$ git checkout -- octocat.txt**  Success!  **$ git branch clean\_up**  Success!  **$ git checkout clean\_up**  Switched to branch 'clean\_up'  Success!  **$ git rm '\*.txt'**  rm 'blue\_octocat.txt' rm 'octocat.txt' rm 'octofamily/baby\_octocat.txt' rm 'octofamily/momma\_octocat.txt' rm 'red\_octocat.txt'  Success!  **$ git status**  # On branch clean\_up # Changes to be committed: # (use "git reset HEAD <file>..." to unstage) # # deleted: blue\_octocat.txt # deleted: octocat.txt # deleted: octofamily/baby\_octocat.txt # deleted: octofamily/momma\_octocat.txt # deleted: red\_octocat.txt # # Untracked files: # (use "git add <file>..." to include in what will be committed) # # octofamily/  Did not use git commit  **$ git commit -m "Remove all the cats"**  [clean\_up 63540fe] Remove all the cats 5 files changed, 5 deletions(-) delete mode 100644 blue\_octocat.txt delete mode 100644 octocat.txt delete mode 100644 octofamily/baby\_octocat.txt delete mode 100644 octofamily/momma\_octocat.txt delete mode 100644 red\_octocat.txt  Success!  **$ git checkout master**  Switched to branch 'master'  Success!  **$ git merge clean\_up**  Updating 3852b4d..ec6888b Fast-forward blue\_octocat.txt | 1 - octocat.txt | 1 - octofamily/baby\_octocat.txt | 1 - octofamily/momma\_octocat.txt | 1 - red\_octocat.txt | 1 - 5 files changed, 5 deletions(-) delete mode 100644 blue\_octocat.txt delete mode 100644 octocat.txt delete mode 100644 octofamily/baby\_octocat.txt delete mode 100644 octofamily/momma\_octocat.txt delete mode 100644 red\_octocat.txt  Success!  **$ git branch -d clean\_up**  Deleted branch clean\_up (was ec6888b).  Success!  **$ git push**  To https://github.com/try-git/try\_git.git 3e70b0f..0108231 master -> master  Success!  **>** |

* **Repository**

It is the container of our project on GitHub.

* **Commit**

It’s a possibility to ‘screemshot’ our work ‘a part of the main project’ on Git that give us a ‘checkpoint’ on our work.

* **Push**

It’s a way to make visible our local work on GitHub.

* **Branch**

It is a part of the main project (branch master)

* **Fork**

It is a new software created from the source code of an existing software

* **Merge**

It’s a way to add all modifications of our local file (local work) to the branch master

* **Pull**

When we do a local work, pull is a possibility to work on last update version of our repository

* **Pull request**

It’s a request to update our local work.