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CS 361

Github Exercise:

What is GitHub?

Github is a web-based version of git. It is an online code repository that allows people to upload, download and make contributions to coding projects. It is a version control system, allowing people to download the newest version of a software, make changes, and upload their updates.

When was it created?

Github was launched in April 2008.

Why?

It was created to make securely sharing code easier to do. Before GitHub, people would have to make a user account on Unix machines. With GitHub, using Git and sharing code became more accessible to a wider audience.

By Who?

Github was developed by Tom Preston-Werner, Chris Wanstrath, and PJ Hyett.

What similar platforms exist?

Alternative code sharing and version control services are BitBucket, SourceForge, GitLab, and BeanStalk.

Why would you use such a platform?

There are many reasons someone would want to use a service like GitHub. If multiple people are working on a coding project, GitHub will allow the team to have access to the latest version of their software, and push their updates to make it available to other members of the team. It also allows you to share your software for other people to use.

Git Tutorial :

Press enter to submit commands

> git init

Initialized empty Git repository in /.git/

Success!

$ git status

# 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!

$Ggit 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'

$ 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.git

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!

$ get diff --staged

get: command not found

$ 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 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..33a28d4 master -> master

Success!

Define the following terms in the context of Git (2 lines maximum):

Repository: A repository is where your files are kept

Commit: Git Commit stores our changes to our local repository

Push: Git Push sends the changes to a remote repository like one hosted on github

Branch: A branch is a copy of code made within the repository that developers make to make different changes to

Fork: Forking is something you can do on Github to make a clone of a repository and put it in your account so that you can make your own changes to someone’s project.

Merge: When you take the changes made in one branch, and apply it to another branch.

Clone: When you create a local copy of a git repository

Pull: When you add the changes from a remote repository to your local one

Pull request: Proposed changes to a repository that is suggested by a user, and the repository’s developers choice whether or not to commit the changes.

Commands used for Part 7 :

Forked the courses repository using the fork button on the github page

$ git clone <https://github.com/CruzJeff/courses.git>

Edited Readme.MD to include my name

$ git commit README.md

$ git push

Make pull request to original repository on GitHub.