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CS 361

**3.**

GitHub is a tool for working on programming projects. It was created in 2008 by Tom Preston-Werner, Chris Wanstrath and PJ Hyett.[[1]](#footnote-1) Another tool I have used that is similar to GitHub is BitBucket. The purpose of these tools is to allow multiple people to collaborate on a single programming project at once. Each person can make their own changes on a separate copy of the project. The team can then combine the changes of each person and fix any conflicts.

**4.**

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!

$ git commit

The '-m' option is required for this course

Did not specify a message

$ git commit -m "ooglebla"

[master (root-commit) 47e74b7] ooglebla  
1 file changed, 1 insertion(+)  
create mode 100644 octocat.txt

Success!

$ git add "\*\_octocat.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 "Asosoli"

[master 9458c15] Asosoli  
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 origin master

To https://github.com/try-git/try\_git.git  
\* [new branch] master -> master

Did not pass the "-u" option

$ git push -u origin master

Branch master set up to track remote branch master from origin.

Success!

$ git stash

No local changes to save

Did not use git pull

$ 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!

$ ls

blue\_octocat.txt  
octocat.txt  
octofamily/  
red\_octocat.txt

Use git checkout to revert the changes to 'octocat.txt'

$ 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 'octofamily/baby\_octocat.txt'  
rm 'octofamily/momma\_octocat.txt'  
rm 'red\_octocat.txt'

Success!

$ echo For some reason octocat.txt got removed even though the regular expression did not include it

For some reason octocat.txt got removed even though the regular expression did not include it

Did not use git commit

$ git commit -m "Oglish"

[clean\_up 861351e] Oglish  
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 rm -r octofamily

rm 'octofamily/.gitkeep'

Use 'git push' to push your repository to your remote

$ git push origin master

To https://github.com/try-git/try\_git.git  
3e70b0f..adf3eac master -> master

Success!

> git status

# On branch master  
nothing to commit (working directory clean)

**5.**

Repository: A place where the files of a project are stored.

Commit: You save your changes to the repository you are working on.

Push: You send the changes you committed to a different repository.

Branch: A section of a repository that has its own copy of the files. Multiple people can make changes to a side branch before it is merged with the master branch.

Fork: You send a copy of someone else’s repository to your account.

Merge: You take the changes made to a branch and make those changes in the master branch. It can also mean if you accept someone’s pull request.

Clone: You download a copy of a repository.

Pull: You take the changes committed in another repository and make those changes in your own repository.

Pull Request: A request that someone else apply to their repository the changes you made in yours.

7. To add my name to the list, I forked the repository and edited the file. Then I sent a pull request for the change to be made in the paceuniversity repository.

1. “GitHub.” *Wikipedia*, 5 September 2017. Accessed 9 September 2017. Web. [↑](#footnote-ref-1)