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Principles of Programming Languages

GitHub Exercise

* Repository
  + Repository is a folder where all the code is contained. This folder also contains all the historical logs regarding the changes, commits made to the repository. All this information is stored in a hidden folder inside the Repository called “.git”
* Commit
  + Commit is used to save the changes made to the Repository.
* Push
  + Push is used to bring the remote location in sync with the local changes. For example, you “push” changes made locally to github.com
* Branch
  + A branch is a codebase of a repository that can be developed independently from each other. For instance, you can have a staging branch, dev branch and testing branch for the same repository. This allows you to isolate code for different purposes. It is also possible to merge branches together
* Fork
  + Forking a repo is like copying/cloning a repository. Forks cannot be merged into the repo they were cloned from. The changes, however, can be made in sync with the original by submitting a pull request.
* Merge
  + Merge is used to incorporate changes from one branch to the another. It can also merge changes from a commit-id.
* Clone
  + Clone creates a copy of the code on your local computer.
* Pull
  + Git pull fetches the repo and merges it with the local copy. Meaning the remote is updated with the local
* Pull request
  + Pull requests are reviewed by the original author and decided whether to merge it or not.

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 octoca

t.txt

fatal: pathspec 'octoca' did not match any files

Did not add octocat.txt

$ 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 commit -m 'Add all the octocat txt file

s'

Unmatched double quote: "git commit -m 'Add all the octocat txt file"

$ 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