### **GitHub Commands**

•Set-up and Initialization:

### git init

initialize an existing directory as a Git repository

### git clone [url]

retrieve an entire repository from a hosted location via URL

#### •Stage & Snapshot:

### git status

show modified files in working directory, staged for your next commit

### git add [file]

add a file as it looks now to your next commit (stage)

## git reset [file]

unstage a file while retaining the changes in working directory

#### git diff

diff of what is changed but not staged

### git diff --staged

diff of what is staged but not yet committed

# git commit -m "[descriptive message]"

commit your staged content as a new commit snapshot

#### •Branch & Merge:

#### git branch

list your branches. a \* will appear next to the currently active branch

### git branch [branch-name]

create a new branch at the current commit

#### git checkout

switch to another branch and check it out into your working directory

### git merge [branch]

merge the specified branch's history into the current one

#### git log

show all commits in the current branch's history

#### •Inspect & Compare:

### git log

show the commit history for the currently active branch

## git log branchB..branchA

show the commits on branchA that are not on branchB

## git log --follow [file]

show the commits that changed file, even across renames

# git diff branchB...branchA

show the diff of what is in branchA that is not in branchB

# git show [SHA]

show any object in Git in human-readable format

#### •Tracking Path Changes:

# git rm [file]

delete the file from project and stage the removal for commit

### git mv [existing-path] [new-path]

change an existing file path and stage the move

show all commit logs with indication of any paths that moved

#### •Share & Update:

### git remote add [alias] [url]

add a git URL as an alias

## git fetch [alias]

fetch down all the branches from that Git remote

# git merge [alias]/[branch]

merge a remote branch into your current branch to bring it up to date

## git push [alias] [branch]

Transmit local branch commits to the remote repository branch

# git pull

fetch and merge any commits from the tracking remote branch

•Temporary Commits:

## git stash

Save modified and staged changes

## git stash list

list stack-order of stashed file changes

# git stash pop

write working from top of stash stack

# git stash drop

discard the changes from top of stash stack