**Git Commands**

**Init:**

git init

- initializes git in current directory

**Clone:**

git clone <repository URL>

- copies a remote repository and pastes it in your working directory

**Status**

git status

-reports any changes between working directory and remote repository

**Add**

git add <filename>

-adds new version of <filename> to staging area to be committed to remote repository

git add .

-adds everything in directory

git add –A

-adds everything in directory

**Commit**

git commit –m “Title of commit”

-commits staging area with message/title of what changes the commit has

-not yet in remote repository, requires sync

-if u commit without a msg, use esc :wq to cancel and save

**Push**

git push

-pushes anything committed to remote repository

**Pull**

git pull

-pulls anything new from remote repository into working directory

**Check Branch**

git branch

-tells you what branch youre on

**New Branch**

git branch <new branch name (no space)>

-create new branch

**Change Branch**

git checkout <destination branch name>

-create new branch

-can move up tree using **git checkout <branch>^ to get parent commit of branch**

-can move up tree using **git checkout HEAD^ to get parent commit of branch**

**-git checkout HEAD~4** moves up 4 commits

**Branch Forcing**

git branch –f master HEAD~3

-moves (by force) the master branch to 3 parents behind HEAD

**Create new branch and checkout at same time**

git checkout –b <branch name>

**Merge Branch**

git merge <branch you want to merge into current branch>

**Reverting changes in git**

git reset HEAD~1

-undoes previous commit, previous commit no longer exists

git revert HEAD

-creates a new commit that undoes the changes of the previous commit

-use for remote branches shared with others

**Rebase**

git rebase <target branch>

-place current branch at end of target branch