Cheatsheet / Git&GitHub

git config --global user.name "firstname lastname"
set a name that is identifiable for credit when review version history.

git config --global user.email "valid-email"
set an email address that will be associated with each history marker.

git init
initialize an existing directory as a Git repository.

git clone [url]
retrieve an entire repository from a hosted location via URL.

git status
show modified files in working directory, staged for the next commit.

git add [file-name]
add a file as it looks now to your next commit (stage).

git reset [file-name]
unstage a file while retaining the changes in working directory.

git reset [commit-hash]
reset a specific commit.

git reset --hard [commit]
clear staging area, rewrite working tree from specified commit

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.

git branch
list all the branches. a * will appear next to the currently active branch.

git branch [branch-name]
create a new branch at the current commit.

git branch -M [branch-name]
rename the current branch.

git branch -d [branch-name]
delete a branch

git checkout [branch-name]
switch to another branch and check it out into the working directory.

git checkout -b [new-branch-name]
create a new branch and checkout.

git merge [branch-name]
merge the specified branch's history into the current one.

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 remote add [alias] [url]

add a git URL as an alias

git remote -v

verify remote

git fetch [alias]

fetch down all the branches from that Git remote.

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