

Used reference :

file:///C:/Users/admin/Desktop/git-cheat-sheet-education.pdf

## STAGE & SNAPSHOT

Working with snapshots and the Git staging area

### **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

Isolating work in branches, changing context, and integrating changes

### **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

## SETUP & INIT

Configuring user information, initializing and cloning repositories

### **git init**

initialize an existing directory as a Git repository

### **git clone [url]**

retrieve an entire repository from a hosted location via URL

### **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 config --global color.ui auto**

set automatic command line coloring for Git for easy reviewing

## INSPECT & COMPARE

Examining logs, diffs and object information

<b>git log</b>
show the commit history for the currently active branch
<b>git log branchB...branchA</b>
show the commits on branchA that are not on branchB
<b>git log --oneline --graph --decorate --all</b>
show the commit history in an illustrative way
<b>git diff branchB...branchA</b>
show the diff of what is in branchA that is not in branchB
<b>git show [SHA]</b>
show any object in Git in human-readable format

## SHARE & UPDATE

Retrieving updates from another repository and updating local repos

<b>git remote add [alias] [url]</b>
add a git URL as an alias
<b>git fetch [alias]</b>
fetch down all the branches from that Git remote
<b>git merge [alias]/[branch]</b>
merge a remote branch into your current branch to bring it up to date
<b>git push [alias] [branch]</b>
Transmit local branch commits to the remote repository branch
<b>git pull</b>
fetch and merge any commits from the tracking remote branch

## REWRITE HISTORY

Rewriting branches, updating commits and clearing history

<b>git rebase [branch]</b>
apply any commits of current branch ahead of specified one
<b>git reset --hard [commit]</b>
clear staging area, rewrite working tree from specified commit