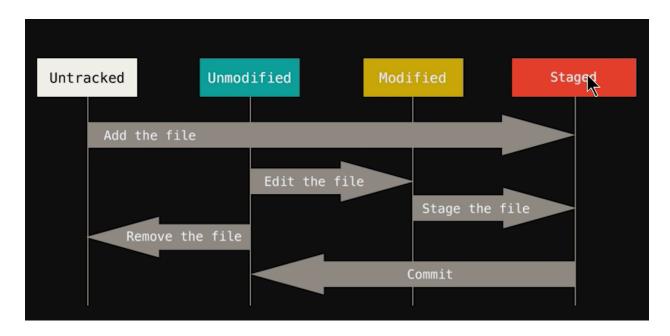
Git revision & basics



- Git init
 - To create a blank git local repository
 - It creates .git folder internally which is hidden it is responsible for tracking all the changes made to the git repository
- Git add .
 - Git add stages the file and it stars to keep track of it
- Git commit
 - Git commit commits the file to the git repository and is ready to be pushed and takes a snapshot.
- Git checkout
 - o Sync files with last commit
 - o Specify filename after checkout or -f for all files
 - Switch branch as well
- Git branch
 - o Create branch specify file name
- Git merge
 - Merge from the parent branch with the child branch
- Git checkout -b
 - o Create a new branch and switch at the same time.

NSTALLATION & GUIS

With platform specific installers for Git, GitHub also provides the ease of staying up-to-date with the latest releases of the command line tool while providing a graphical user interface for day-to-day interaction, review, and repository synchronization.

https://mac.github.com
For Linux and Solaris platforms, the latest release is available on the official Git web site.
Git for All Platforms
http://git-scm.com
SETUP
Configuring user information used across all local repositories
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

GitHub for Windows

GitHub for Mac

https://windows.github.com

diff of what is changed but not staged
git diffstaged
diff of what is staged but not yet committed
git commit -m "[descriptive message]"
commit your staged content as a new commit snapshot
git configglobal user.name "[firstname lastname]"
set a name that is identifiable for credit when review version history
git configglobal user.email "[valid-email]"
set an email address that will be associated with each history marker
git configglobal color.ui auto
set automatic command line coloring for Git for easy

reviewing

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

show all commits in the current branch's history

SETUP & INIT

git log

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
INSPECT & COMPARE
Examining logs, diffs and object information
SHARE & UPDATE
Retrieving updates from another repository and updating local repos
git log
show the commit history for the currently active branch
git log branchBbranchA
show the commits on branchA that are not on branchB
git logfollow [file]

show the commits that changed file, even across renames
git diff branchBbranchA
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
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
TRACKING PATH CHANGES
Versioning file removes and path changes
REWRITE HISTORY
Rewriting branches, updating commits and clearing history
TEMPORARY COMMITS
Temporarily store modified, tracked files in order to change branches
git rebase [branch]
apply any commits of current branch ahead of specified one
git resethard [commit]

clear staging area, rewrite working tree from specified commit

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
git logstat -M
show all commit logs with indication of any paths that moved
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