Cheatography

Git Cheat Sheet

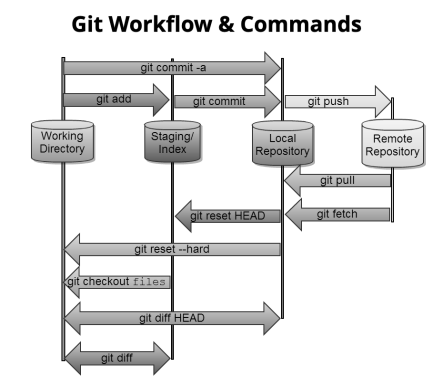
by datamansam via cheatography.com/139410/cs/32023/

Git Status

Displays the state of the working directory and the staging area

Files in the working directory:	listed under "Changes not staged for commit"	Files in the staging area:	Listed under "Changes to be committed"	Files in the local repo:	Nothing to commit (working directory clean)

Git Diagram



Working Directory <-> Staging

Working Directory -> git add -> Staging
Working Directory <- git checkout/merge <- Staging
Working Directory <- git diff -> Staging

Making changes

Add file to stage	git add fileName
Add all files to stage	git add .
Add changes in specific file	git add -p <file>

Evaluate changes

diff of what is changed but not staged	git diff --

Branches

Reverting changes

Unstage a file while retaining the changes in working directory	git reset fileName
diff of what is staged but not yet commited	git diff --staged

Start Project

Create Project	git init directoryName
Download remote repo	git cline ulrName

local <-> remote

local -> git push -> remote
local <- git pull/fetch <- remote

Remote to local

Git fetch	Bring down all branches from Git remote
Git pull	Fetch and merge commits from remote branch

Local to remote

git push	Transmit local branch commits to the remote repository branch

Checking the Status of a Git Repo

List all branches	git branch
Add a branch	git branch NameOf-NewBranch
Switch to specified branch in working directory	git checkout -- BranchName
Join specified [from name] branch into your current branch (the one you are on currently)	git merge --fromName
show all commits in the current branch's history	git log

Staging <-> Local Repo
Staging -> git commit -> Local Repo
Staging <- git reset <- Local Repo
Staging <- git diff --staged -> Local Repo
Staging <- git checkout HEAD filename <- Local Repo
(git checkout HEAD filename command rolls back all changes that have been made to filename since the last commit)

Committing to remote	
Move all staged files to git remote repo	git commit -m 'message'
Move all staged files to git remote repo	git commit -am 'message'

Git status:
Helps - show the user the files they would commit by running git commit and the files they could commit by running git add before running git commit
Git diff filename:
Displays the differences between the working directory and the staging area in one specific file
git diff hello.txt
Git log:
Shows all the commit logs for a project -
A 40-character code, called a SHA, that uniquely identifies the commit.
The commit author
The date and time of the commit
The commit message

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