

GIT

Setup	
git config --global user.name "First Last"	User Name
git config --global user.email "email"	Email address
git config --global color.ui auto	Command line coloring
git config --list git config -l	List info about git configuration
git config --global credential.helper cache	Store credentials in cache

Stage and Snapshot	
git status	Display status of working dir
git add <file>	Add a file to staging area
git add .	Add all files to staging area
git reset <file>	Revert file to state in HEAD
git diff <file>	Changes between working and staging
git diff --staged <file>	Changes between staging and repository
git checkout -- <file>	Discard changes in working dir
git commit -m <message>	Create a commit from staging

Storing	
git stash	Put current changes into stash
git stash pop	Apply stored stash and clear stash
git stash drop	Delete a specific stash from stashes
git stash list	List stack order stashed
git stash drop	Discard the changes from top of stack

Tracking files	
git rm	Delete file from project and stage removal
git mv <path> <new_path>	Move file and stage the move

Init	
git init	Initialize existing directory as git repository
git clone <url> <dir>	Clone repo url in given directory
git clone --recurse-submodules <url>	Clone repo including submodules

Branch	
git branch	List all your branches
git branch <branchname>	Create new branch at current commit
git checkout <branchname>	Switch to other branch
git checkout -b <branchname>	Create and checkout to new branch
git checkout -	Go back to previous branch
git branch --list	List existing branches
git branch -d <branchname>	Delete local branch
git branch -D <branchname>	Delete local branch forcefully
git branch -a --merged	List merge branches
git merge <branchname>	Merge branchname into current branch
git push origin --delete :<branchname>	Delete remote branch

Log	
git log	List version history in current branch
git log -<limit>	Limit number of commits
git log --oneline	Condense each commit to single line
git log -p	Display full diff of each commit
git log --stat	Files altered and relative number of lines changes
git log -- <file>	Only display commits that have file
git log --graph --decorate	Graph of commits with branches or tags
git log <branchB>..<branchA>	Show commits on branchA not on B
git log --follow <file>	List version history for file
git log --stat -M	Show logs with any paths that moved

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Share and Update	
git remote add <alias> <url>	Add git url as an alias
git fetch <alias>	Fetch all branches from that git remote
git merge <alias>	Merge remote branch into current branch
git push <alias> <branch>	Transmit local changes to remote
git pull	Fetch and merge any commits from remote

Changes	
git diff HEAD	Between working and last commit
git diff --cached	Between staged and last commit
git diff <branchB>...<branchA>	Show diff in branchA which is not in B
git show <commit>	Metadata and content changes
git show-ref HEAD -s	Get current hash

Help	
git help status	Help on status
git help config	Help on config
git help branch	Help on branch

Redo	
git reset <commit>	Undoes all commits after preserving local changes
git reset <file>	Remove file from staging
git reset --hard <commit>	Discards all histroy and changes back to commit
git rebase <branch>	Apply any commits of current ahead of specified branch
git revert <commit>	Create a new commit that undoes all the changes
git clean -n	Shows which files be removed from dir
git clean -f	Executes the clean

Tagging	
git tag	List all tags
git tag <name> <commit>	Create a tag with name for the commit
git tag -d <name>	Remove a tag from local
git push --tags	Push tags

CherryPick	
git cherry-pick <commit>	Brings changes in commit in current
git cherry-pick --edit	Add commit message in cherry pick