Cheatography

Git Cheat Sheet

by shribee (shribee) via cheatography.com/79125/cs/21438/

Initialize

git init	Initialize repository
git remote add <origin/alternate name> <repo url>	Link local repo with <repo URL>
git push -u origin master	Push committed changes (-u and track branch with remote)

Commit

git add .	Adds all modified and new (untracked) files in the current directory and all subdirectories to the staging area
git commit -m <commit message>	Locally commit
git checkout .	Revert changes to local copy
git reset	Revert changes made to the index (i.e., that you have added). **Warning this will reset all of your unpushed commits to master!**
git revert <commit 1> <commit 2>	Revert a change that you have committed
git clean -f	Remove untracked files (e.g., new files, generated files)
git clean -fd	Remove untracked directories
git-stash	Stash the changes away in a working directory
git diff <branch 1> <branch 2>	Compare two branches
git diff <branch 1> <branch 2> --name-only	Compare two branches, file names only
git diff <branch>	Compare <branch> with current branch
git rm <file> --cached	Remove file from remote, while retaining local copy

Branching, Merging

git checkout -b <branch> master	Create <branch> from master
git push -u origin <branch>	Push <branch>
git merge <branch>	Merge <branch> into current branch
git branch -d <branch>	Delete local branch if it is merged, if not -D to force delete

Branching, Merging (cont)

git push <remote_name> --delete <branch>	Delete remote branch
git branch <branch>	Create branch <branch>
git branch [-a]	List branches, -a including remote, * indicates current branch
git rebase <branch>	Rebase from <branch> into current branch, i.e. take <branch> and then apply current branch's commits onto it to create linear history
git branch -m <old> <new> git push origin :<old> <new> git push origin -u <new>	1. Rename your local branch 2. Delete the <old> remote branch and push the <new> local branch 3. Reset the upstream branch for the <new> local branch
git diff --name-status <b1>..<b2>	Show diffs (filenames only) between two branches
git diff --name-status master	Show diffs (filenames only) between master and current branch

Admin, Trouble-shooting

git log [-p] [-n]	Shows commit history, last n, -p differences
git remote set-url origin <new url>	Change remote url
git remote -v	List remote information
git config --global credential.helper cache git config --global credential.helper 'cache --timeout=3600'	Set git to use the credential memory cache set the cache to timeout after 1 hour (setting is in seconds)
git config [--global] user.name "FIRST_NAME LAST_NAME"	Set (global/repo) username for commits
git config [--global] user.email "MY_NAME@example.com"	Set (global/repo) email for commits

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