

## The Essentials — When working with git on your own or with others.

git status	To remind you of where you left off. See a summary of local changes, remote commits, and untracked files.
git diff	To see the specific local changes to tracked files. Use --name-only to see changed filenames.
git add	To stage changes to your tracked and untracked files. Use -u, -a, and . strategically.
git commit	To create a new commit with changes previously added. Use -m and add a meaningful commit message.
git push	To send changes to your configured remote repository, most commonly GitLab or GitHub.

## Basic Flow — Daily usage of git, including flags

git init git status git add --all git status git commit -m "meaningful initial commit message" git show	cd to your local project that you want to start versioning with git. You only have to run git init the first time to set up the directory for version tracking.
git diff git commit -a -m "Another commit message. -a performs the add step for you" git status git log --graph --pretty=oneline --abbrev-commit	And you begin to hack on your local files, then commit at regular intervals
git log --graph --pretty=oneline --abbrev-commit git reset --soft HEAD~3 git diff --cached git commit -a -m "Better commit message for last 3 commits"	After a while, you have 3 commits that would be more meaningful as a single commit
git status git diff --cached git add -u git commit -m "Another commit message. -u adds updates, including deleted files" git status git log --graph --pretty=oneline --abbrev-commit git push origin master	Lastly, you delete some unneeded files in the current directory

## Basic Branching — Branches represent a series of commits.

git branch --all	list all local and remote branches
git checkout <branch>	change to an existing branch
git checkout -b <branch> master	make a branch based off of master and check it out
git checkout master && git merge <branch>	merge branch changes onto master

## Important Flags — These are my personal favorites for keeping everything organized.

git reset HEAD --	get back to the last known commit and unstage others
git add -u	add only the updated, previously-committed files
git log --graph --pretty=oneline --abbrev-commit	for a pretty branch history. Create a shell or git alias for easy access, such as git lg

## Working with a Remote Repository — Once you get into the flow, you'll frequently contribute back to larger projects, and possibly managing forks of forks. Here are some tips for doing so.

git fetch --all	downloads all commits, files, and references to branches on all remote repositories so you can then git checkout or pull what you want to work on.
git pull --rebase <remote> <branch>	Merge all commits since your last common commit from the remote branch without creating a merge commit
git stash	Use this as needed to save uncommitted changes so you can git stash pop them onto a different branch.
git stash pop	bring it back
git add [-A or . or --<filename>]	Be intentional about what files you add to your commits, especially if you want to open a request to merge them into an upstream project.
git commit -m "commit message"	Most projects have a format they prefer for commit messages. Look at CONTRIBUTING.md files in the project or review previous commits to get an idea of their format.
git push origin <branch>	Push your current branch to your remote titled "origin" and branch named <branch>
git checkout -b <new_branch>	A shortcut for git branch <branch> && git checkout branch. It's great for when you want to experiment with an idea and have a new branch to try it out on that can later be merged or deleted.
git checkout master && git pull --rebase	Great to get to the most recent commit for a project you only infrequently follow.
git reset --hard origin/master	For when you inevitably get lost in all the git-fu and need to get to a known state. WARNING: this erases all changes, even commits, since the last commit pushed to the remote origin on branch master.
git push origin master	For when you inevitably do something right! Send your changes up to your remote titled origin on branch master.