

## Git Note Sheet

### Configure Tooling

\$ git config --global user.name "[Name]"	Sets name you want attached
\$ git config --global user.email "[email address]"	Sets email you want attached
\$ git config --global color.ui auto	Enables colorizations of command line input

### Make Changes

\$ git status	Lists all new or modified files to be committed
\$ git diff	Shows file differences not yet staged
\$ git add [file]	Snapshots the file in preparation for versioning
\$ git diff --staged	Shows file differences between staging and the last file version
\$ git reset [file]	Unstages the file, but preserve its contents
\$ git commit -m "[descriptive message]"	Records file snapshots permanently in version history

### Refactor Filenames

\$ git rm [file]	Deletes the file from the working directory and stages the deletion
\$ git rm --cached [file]	Removes the file from version control but preserves the file locally
\$ git mv [file-original] [file-renamed]	Changes the file name and prepares it for commit

### Suppress Tracking

*.log build/ temp-*	A text file named .gitignore suppresses accidental versioning of files and paths matching the specified patterns
\$ git ls-files --other --ignored --exclude-standard	Lists all ignored files in this project

### Save Fragments

\$ git stash	Temporarily stores all modified tracked files
\$ git stash pop	Restores the most recently stashed files
\$ git stash list	Lists all stashed changesets
\$ git stash drop	Discards the most recently stashed changeset

### Create Repositories

\$ git init [project-name]	Creates new local repository with specified name
\$ git clone [url]	Downloads a project and its entire version history

### Group Changes

\$ git branch	Lists all local branches in the current repository
\$ git branch [branch-name]	Creates a new branch
\$ git checkout [branch-name]	Switches to the specified branch and updates the working directory
\$ git merge [branch]	Combines the specified branch's history into the current branch
\$ git branch -d [branch-name]	Deletes the specified branch

### Review History

\$ git log	Lists versions history for the current branch
\$ git log --follow [file]	Lists version history for a file, including renames
\$ git diff [first-branch]...[second-branch]	Shows content differences between two branches
\$ git show [commit]	Outputs metadata and content changes of the specified commit

### Redo Commands

\$ git reset [commit]	Undoes all commits after [commit], preserving changes locally
\$ git reset --hard [commit]	Discards all history and changes back to the specified commit

### Working with multiple files

\$ git fetch [bookmark]	Downloads all history from the repository bookmark
\$ git merge [bookmark]/[branch]	Combines bookmark's branch into current local branch
\$ git push [alias] [branch]	Uploads all local branch commits to GitHub
\$ git pull	Downloads bookmark history and incorporates changes