

Git Cheat Sheet – Quick Reference

This cheat sheet is designed as a quick reference for the most common Git commands. Git is a version control system that helps track changes in code and collaborate with others.

## Setup

* git config --global user.name "Your Name"

 Set your Git username.

* git config --global user.email "you@example.com"

 Set your Git email.

* git --version

 Check your installed Git version.

## Starting a Repository

* git init

 Create a new local repository.

* git clone <url>

 Download (clone) a repository from GitHub or elsewhere.

## Making Changes

* git status

 Check the status of your files (changed, staged, etc.).

* git add <file>

 Stage a specific file for commit.

* git add .

 Stage all changed files.

* git commit -m "Message"

 Save your changes with a descriptive message.

## Working with History

* git log

 Show a history of commits.

* git diff

 See what has changed before staging.

* git diff --staged

 See what changes are staged for commit.

## Branches

* git branch

 List branches in your repo.

* git branch <name>

 Create a new branch.

* git checkout <name>

 Switch to another branch.

* git merge <name>

 Merge a branch into your current branch.

## Updating from Remote

* git pull

 Download and merge changes from the remote repository.

* git push

 Upload your commits to the remote repository (e.g., GitHub).

## Undoing / Fixing

* git checkout -- <file>

 Discard changes in a file (before staging).

* git reset HEAD <file>

 Unstage a file but keep changes.

* git revert <commit>

 Undo a specific commit safely.