

# Git Commands Cheat Sheet

## Setup & Configuration

Command	Syntax	Example
Set username	git config --global user.name "Your Name"	git config --global user.name "Abhirat Bawane"
Set email	git config --global user.email "your@email.com"	git config --global user.email "abhirat@example.com"
Show config	git config --list	git config --list

## Start a Repository

Command	Syntax	Example
Initialize new repo	git init	git init
Clone repo	git clone <url>	git clone https://github.com/user/repo.git

## Basic Snapshotting

Command	Syntax	Example
Check status	git status	git status
Stage file	git add <file>	git add index.html
Stage all files	git add .	git add .
Commit changes	git commit -m "message"	git commit -m "Initial commit"
Add & commit tracked files	git commit -am "message"	git commit -am "Fix bug"

## Branching & Merging

Command	Syntax	Example
List branches	git branch	git branch
Create branch	git branch <name>	git branch feature-login
Switch branch	git checkout <branch>	git checkout main
New switch command	git switch <branch>	git switch develop
Merge branch	git merge <branch>	git merge feature-login
Delete branch	git branch -d <branch>	git branch -d feature-login

## Remote Repositories

Command	Syntax	Example
Show remotes	git remote -v	git remote -v

Add remote	git remote add origin <url>	git remote add origin https://github.com/user/repo.git
Push first time	git push -u origin main	git push -u origin main
Push changes	git push	git push
Pull changes	git pull	git pull
Fetch changes	git fetch	git fetch

## Undoing Changes

Command	Syntax	Example
Discard file changes	git checkout -- <file>	git checkout -- index.html
Restore file (new)	git restore <file>	git restore index.html
Unstage file	git reset HEAD <file>	git reset HEAD index.html
Reset everything	git reset --hard	git reset --hard
Revert commit	git revert <commit>	git revert a1b2c3d

## Viewing History

Command	Syntax	Example
Commit history	git log	git log
One-line history	git log --oneline	git log --oneline
Show unstaged changes	git diff	git diff
Show staged changes	git diff --staged	git diff --staged

## Stashing

Command	Syntax	Example
Stash changes	git stash	git stash
List stashes	git stash list	git stash list
Apply last stash	git stash apply	git stash apply
Drop stash	git stash drop	git stash drop

## Tagging

Command	Syntax	Example
List tags	git tag	git tag
Create tag	git tag v1.0	git tag v1.0
Push tag	git push origin v1.0	git push origin v1.0