

# Git Cheat Sheet

## ■ *Basic Git Workflow*

**git init:** Initialize a new Git repository  
**git add .:** Add all changes to the staging area  
**git status:** Check current Git status  
**git commit -m "msg":** Commit staged changes with a message  
**git push origin branchname:** Push commits to remote branch

## ■ *Branching*

**git checkout -b branchname:** Create and switch to a new branch  
**git checkout branchname:** Switch to an existing branch  
**git branch:** List all branches  
**git branch -d branchname:** Delete a local branch safely  
**git branch -D branchname:** Force delete a local branch  
**git merge branchname:** Merge another branch into the current one

## ■ *Stashing Changes*

**git stash:** Stash uncommitted changes  
**git stash pop:** Apply last stashed changes and remove from stash  
**git stash list:** List all stashed changes  
**git stash apply stash@{n}:** Apply a specific stash

## ■ *Restoring & Undoing*

**git restore filename:** Discard changes in working directory  
**git restore --staged filename:** Unstage a file  
**git reset:** Unstage all changes  
**git reset --hard:** Discard all changes and reset (destructive)

## ■ *Remote Repositories*

**git remote -v:** View remote URLs  
**git remote add origin :** Add a remote repository  
**git clone :** Clone a remote repository  
**git pull origin branchname:** Fetch and merge changes from remote

## ■ *Log & History*

**git log:** Show commit history  
**git log --oneline:** Compact one-line commit history  
**git diff:** Show unstaged changes  
**git diff --staged:** Show staged changes

## ■ *Advanced Git (Bonus)*

**git rebase branchname:** Reapply commits on top of another base tip  
**git cherry-pick commit\_id:** Apply specific commit from another branch

**git revert commit\_id:** Undo a commit by creating a new commit  
**git tag v1.0:** Create a version/release tag  
**git config:** View or set Git configuration values  
**git blame filename:** Show who last modified each line of a file  
**git reflog:** View history of branch updates  
**git clean -fd:** Remove untracked files and directories