Complete Git Command Cheat Sheet

Basic Git Setup

Set username: git config --global user.name "Your Name"

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

Check config: git config --list

Initialize and Clone

Start a new repo: git init

Clone a repo: git clone <repo-url>

Staging and Committing

Stage file: git add <file>

Stage all files: git add .

Commit staged files: git commit -m "message"

Branching

Create new branch: git branch <branch-name>

Switch to branch: git checkout <branch-name>

Create + switch branch: git checkout -b <branch-name>

List branches: git branch

Delete branch: git branch -d <branch-name>

Merging & Rebasing

Merge branch: git merge <branch-name>

Abort merge (before commit): git merge --abort

Rebase branch: git rebase <branch-name>

Abort rebase: git rebase --abort

Push & Pull

Push changes: git push

Push to specific branch: git push origin <branch>

Pull changes: git pull

Set upstream: git push -u origin <branch>

Viewing History & Status

Check status: git status

View log: git log

Short log: git log --oneline

Show diff: git diff

Stash & Restore

Stash changes: git stash

List stashes: git stash list

Apply last stash: git stash apply

Apply and drop stash: git stash pop

Tagging

Create tag: git tag <tag-name>

Push tags: git push origin --tags

Undo Git Commands

Undo git add: git reset HEAD <file>

Unstage all files: git reset

Undo commit (keep staged): git reset --soft HEAD~1

Undo commit (keep changes): git reset --mixed HEAD~1

Undo commit (discard changes): git reset --hard HEAD~1

Undo pushed commit: git reset --hard HEAD~1 && git push origin <branch> --force

Revert commit (safe): git revert <commit-hash>

Restore file before staging: git restore <file>

Old restore command: git checkout -- <file>

Remove tracked file: git rm --cached <file>

Undo merge (before commit): git merge --abort

Undo merge (after commit): git reset --hard HEAD~1