Git Commands Cheat Sheet

Git Configuration -

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

git config --global user.email "your.email@example.com" - Set Git email

git config --list - View Git configuration

Initializing & Cloning -

git init - Initialize a new Git repository

git clone <repo_url> - Clone an existing repository

Staging & Committing -

git status - Check the status of working directory

git add <filename> - Stage a specific file

git add . - Stage all changed files

git commit -m "message" - Commit staged changes

Branching & Merging -

git branch - List all branches

git branch <branch-name> - Create a new branch

git checkout <branch-name> - Switch to a branch

git switch <branch-name> - Newer alternative for checkout

git checkout -b <branch-name> - Create and switch to a new branch

git merge <branch-name> - Merge a branch into current branch

git branch -d <branch-name> - Delete a local branch

git push origin --delete <branch-name> - Delete a remote branch

Remote Repositories -

git remote -v - View remote repositories

git remote add origin <repo_url> - Link remote repository

git push origin <branch-name> - Push changes to remote repo

git pull origin <branch-name> - Fetch and merge changes from remote

git fetch origin - Fetch latest changes without merging

Undoing Changes -

git checkout -- <filename> - Undo changes in working directory

git reset <filename> - Unstage a file

git reset --soft HEAD~1 - Undo last commit (keep changes)

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

Viewing History -

git log - View commit history

git log --oneline --graph --all - Compact commit history

git diff - View unstaged changes

Stashing Changes -

git stash - Stash uncommitted changes

git stash list - List stashes

git stash apply - Apply latest stash

git stash pop - Apply and remove stash

Tagging -

git tag <tag-name> - Create a tag

git tag - List all tags

git push origin <tag-name> - Push a tag to remote

Deleting Files & Branches -

git rm <filename> - Delete a file from repo

git commit -m "delete file" - Commit the deletion

git push origin main - Push changes

Rebasing & Cherry-Picking -

git rebase <branch-name> - Reapply commits from another branch

git cherry-pick <commit-hash> - Apply specific commit to current branch

Submodules -

git submodule add <repo_url> - Add a submodule

git submodule update --init --recursive - Update submodules