

Git Commands Cheat Sheet

A practical quick reference for common Git tasks and safer undo options.

Start a project

COMMAND	WHAT IT DOES
git init	Create a new local repository
git clone URL	Copy a remote repository
git status	Show changed and untracked files

Save changes

COMMAND	WHAT IT DOES
git add FILE	Stage a specific file
git add .	Stage changes in the current directory
git commit -m "Message"	Create a commit
git diff	Inspect unstaged changes
git diff --staged	Inspect staged changes

Branches

COMMAND	WHAT IT DOES
git branch	List local branches
git switch -c NAME	Create and switch to a branch
git switch NAME	Switch branches
git merge NAME	Merge a branch into the current branch

Remote workflows

COMMAND	WHAT IT DOES
git remote -v	Show remote URLs
git pull	Fetch and integrate upstream changes
git push	Send local commits to the configured remote
git log --oneline --graph	View compact commit history

Undo carefully

COMMAND	WHAT IT DOES
git restore FILE	Discard unstaged changes to a file
git restore --staged FILE	Unstage a file but keep its edits
git revert COMMIT	Create a new commit that reverses a commit

Safety note: Commands such as `git reset --hard` and `git clean -fd` can permanently discard work. Check `git status` and back up important changes before destructive operations.