

Git Commands Cheat Sheet

The everyday commands for saving, branching and sharing code, checked against the official Git documentation.

Start a project

`git init`**Create a repository**

Turns the current folder into a new, empty Git repository.

`git clone <url>`**Copy a repository**

Downloads a repository and its full history into a new folder.

`git config --global
user.name "Your Name"`**Set your name**

Records who made each commit. Set user.email the same way.

Save your changes

`git status`**Check status**

Shows your branch and which files are changed, staged or untracked.

`git add <file>`**Stage a file**

Adds the file's current content to the next commit.

`git commit -m "Message"`**Commit**

Saves everything staged as a snapshot with a short message.

`git diff`**See unstaged edits**

Shows changes you have made but not yet staged.

Work on branches

`git branch`**List branches**

Lists local branches and marks the current one with *.

`git switch -c <branch>`**Create and switch**

Makes a new branch and moves onto it in one step.

`git switch <branch>`**Switch branch**

Moves you onto an existing branch.

`git merge <branch>`**Merge a branch**

Brings another branch's changes into your current branch.

Share with a remote

`git fetch`**Fetch**

Downloads new commits from the remote without changing your files.

`git pull`**Pull**

Fetches, then updates your current branch with the remote's changes.

`git push -u origin main`**Push**

Uploads your main branch to origin and links the two, so later a plain git push works.

Look back and undo

`git log --oneline`**Short history**

Lists commits one per line with a short ID and message.

`git restore -S <file>`**Unstage a file**

Takes the file out of the next commit. Your edits stay in the file.

`git restore <file>`**Discard edits**

Resets a file to its last staged or committed state. This cannot be undone.

Make git status a habit

Run git status before you add, commit or switch branches. It tells you exactly what Git is about to do, and often suggests the next command.