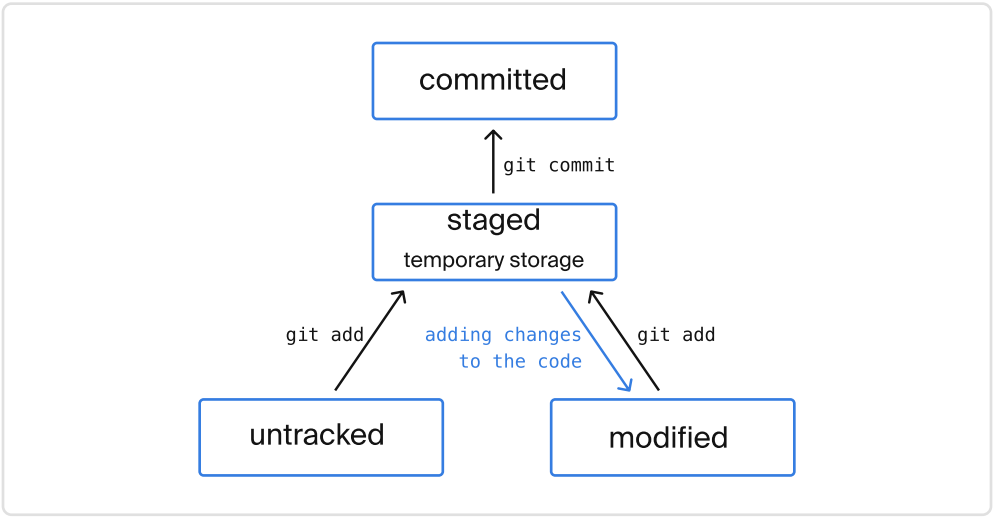


Terminology and Notes

- Hash – a unique identifier associated with each commit
- HEAD – refers to the commit that is currently checked out
- HEAD~1 – refers to the commit prior to HEAD
- Working tree – this is where you make changes before staging them
- Staging area – a list of all changes that have been staged with `git add`
- Git stores commit history in a hidden `.git` folder located in a project's root directory
- To track an empty directory, add a file called `.gitkeep` to that folder



`git log` and `git diff`

<code>git log</code>	Provides a list of all commits with info, including the hash and message
<code>git log --oneline</code>	Provides a condensed list of commits
<code>git diff</code>	Shows changes made to files that haven't been staged yet
<code>git diff --staged</code>	Shows changes made to files that have been staged
<code>git diff hash-1 hash-2</code>	Compares changes made between the indicated commits

Changing the commit history

<code>git commit --amend</code>	Updates the most recent commit
<code>git reset HEAD</code>	Resets all staged files to most recent commit
<code>git reset HEAD~1</code>	Removes most recent commit from commit history

- By default, `git reset` keeps all changes in the working tree
- To remove all changes from the working tree, use the `--hard` flag