

Commits

| | |
|-------------------------|------------------------------------|
| git commit -m "-msg" | Commit staged with message |
| git commit -a -m "-msg" | Stage and commit all tracked files |
| git log | Commit history |
| git diff | Show unstaged changes |
| git diff --staged | Show staged changes |

Branches

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|------------------------|---------------------------------|
| git branch | List branches |
| git branch <name> | Create new branch |
| git checkout <branch> | Switch to branch <branch> |
| git merge <branch> | Merge <branch> into current one |
| git branch -d <branch> | Delete branch <branch> |

Terminology

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|--------------|--|
| Staging Area | Where files go before commit (git add) |
| Commit | Snapshot of staged changes |
| Branch | A separate line of development |
| Merge | Combines changes of two branches |
| Remote | A copy of repo hosted elsewhere |
| Clone | Local clone of remote repo |
| Pull | Download and merge remote changes |
| Push | Upload your commit to remote |

Tracking File

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|-----------------------------|---------------------------------------|
| git add <file> | Stage a file for commit |
| git add . | Stage all files |
| git restore --staged <file> | Unstage a file |
| git reset <file> | Unstage but keep working changes |
| git rm <file> | Delete tracked file and stage removal |

Fixing mistakes

| | |
|---------------------------|---|
| git restore <file> | Revert file to last committed state |
| git reset --soft HEAD~<n> | Undo last n commit, keep changes staged |
| git reset --hard HEAD~<n> | Undo last commit and discard changes |
| git stash | Temporarily save uncommitted changes |
| git stash pop | Re-apply stashed changes |
| git reflog | See all recent HEAD changes |

Remote

| | |
|-----------------------------|---|
| git remote -v | List remotes |
| git remote add origin <url> | Add a remote named "origin" |
| git push -u origin <branch> | Push and set upstream branch |
| git push | Push commits to remote |
| git pull | Fetch and merge from remote |
| git fetch | Download latest changes without merging |

