

# git cheat sheet

learn more about git the simple way at [rogerdudler.github.com/git-guide/](https://rogerdudler.github.com/git-guide/)  
cheat sheet created by Nina Jaeschke of [ninagrafik.com](https://ninagrafik.com)

## create & clone

**create new repository** `git init`  
**clone local repository** `git clone /path/to/repository`  
**clone remote repository** `git clone username@host:/path/to/repository`

## add & remove

**add changes to INDEX** `git add <filename>`  
**add all changes to INDEX** `git add *`  
**remove/delete** `git rm <filename>`

## commit & synchronize

**commit changes** `git commit -m "Commit message"`  
**push changes to remote repository** `git push origin master`  
**connect local repository to remote repository** `git remote add origin <server>`  
**update local repository with remote changes** `git pull`

## branches

**create new branch** `git checkout -b <branch>`  
e.g. `git checkout -b feature_x`  
**switch to master branch** `git checkout master`  
**delete branch** `git branch -d <branch>`  
**push branch to remote repository** `git push origin <branch>`

## merge

**merge changes from another branch** `git merge <branch>`  
**view changes between two branches** `git diff <source_branch> <target_branch>`  
e.g. `git diff feature_x feature_y`

## tagging

**create tag** `git tag <tag> <commit ID>`  
e.g. `git tag 1.0.0 1b2e1d63ff`  
**get commit IDs** `git log`

## restore

**replace working copy with latest from HEAD** `git checkout -- <filename>`



### Tip

Want a simple but powerful  
git-client for your mac?  
Try Tower: [www.git-tower.com/](https://www.git-tower.com/)