

# 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)

*Red color indicates commands that you will very likely use, in order to submit the case study!*

## create & clone

create new repository	<code>git init</code>
clone local repository	<code>git clone /path/to/repository</code>
clone remote repository	<code>git clone username@host:/path/to/repository</code>

## add & remove

add changes to INDEX	<code>git add &lt;filename&gt;</code>
add all changes to INDEX	<code>git add *</code>
remove/delete	<code>git rm &lt;filename&gt;</code>

## commit & synchronize

commit changes	<code>git commit -m "Commit message"</code>
push changes to remote repository	<code>git push origin master</code>
connect local repository to remote repository	<code>git remote add origin &lt;server&gt;</code>
update local repository with remote changes	<code>git pull</code>

## branches

create new branch	<code>git checkout -b &lt;branch&gt;</code> <i>e.g. git checkout -b feature_x</i>
switch to master branch	<code>git checkout master</code>
delete branch	<code>git branch -d &lt;branch&gt;</code>
push branch to remote repository	<code>git push origin &lt;branch&gt;</code>

## merge

merge changes from another branch	<code>git merge &lt;branch&gt;</code>
view changes between two branches	<code>git diff &lt;source_branch&gt; &lt;target_branch&gt;</code> <i>e.g. git diff feature_x feature_y</i>

## tagging

create tag	<code>git tag &lt;tag&gt; &lt;commit ID&gt;</code> <i>e.g. git tag 1.0.0 1b2e1d63ff</i>
get commit IDs	<code>git log</code>

## restore

replace working copy with latest from HEAD	<code>git checkout -- &lt;filename&gt;</code>
--	---

### Tip

Want a simple but powerful  
git-client for your mac?

Try Tower: [www.git-tower.com/](https://www.git-tower.com/)

