

# git cheat sheet

## create & clone

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

## add & remove

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

## commit & synchronize

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

## branches

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

## merge

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

## tagging

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

## restore

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

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

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

