

Branching, Merging, and Fetching

<code>git branch [-v] [--merged --no-merged]</code>	Lists all the alive branches
<code>git branch <branch> <remote></code>	Creates a new branch
<code>git branch -d <branch></code>	Deletes a branch
<code>git checkout <branch></code>	Switches to a branch
<code>git checkout -b <branch></code>	Creates and switches to a new branch
<code>git merge <branch></code>	Merges the checked-out branch with the <branch> one
<code>git fetch [<remote> --all]</code>	Updates the local info about the remote branch data
<code>git push [-u] <remote> <branch>[:<remote_branch>]</code>	Pushed the branch to the remote server
<code>git pull <remote></code>	Fetches and pulls a remote branch
<code>git rebase <remote></code>	From last common ancestor, applies remote, then local changes

Git Status Checks

<code>git status [-s]</code>	Checks the status of local repo
<code>git check --diff</code>	Checks for trailing whitespaces
<code>git diff [--cached]</code>	Shows staged and unstaged changes
<code>git log [-p] [-n] [--grep [-pretty] [-Sfoo]]</code>	Shows the repo history

Undoing Things

<code>git commit --amend</code>	Undoes the last commit
<code>git reset HEAD <file></code>	Unstages the changes to a file or directory
<code>git checkout --<file></code>	Undoes the changes to a file or directory

Tagging

<code>git tag [-l]</code>	Lists all tags
<code>git tag -a <tag> [-m <msg>]</code>	Creates a <tag> tag
<code>git push <origin> [<tag> --tags]</code>	Shares the tag
<code>git checkout -b <branch> <tag></code>	Tag checkout

Terms

Tracking branch: Local branch that has a direct relationship to a remote branch

Refspec

Patch

Get latest from Git branch

```
git fetch origin/<branch>
git rebase origin/<branch>
git merge origin/<branch>
```

Add file to .gitignore

```
git rm --cached <file>
echo '<file>' .gitignore
git commit -m "Added <file> to .gitignore"
```

Removes file from git, keeping them in the hard drive

Tagging Later

```
git log --pretty=online
git tag -a <tag> <tag>
<commit_hash>
```

Common aliases

```
git config --global alias.co checkout
git config --global alias.br branch
git config --global alias.ci commit
git config --global alias.st status
git config --global alias.unstage 'reset HEAD --'
git config --global alias.last 'log -1 HEAD'
```



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