# Git

[**https://git-scm.com/book/en/v2/Git-Branching-Basic-Branching-and-Merging**](https://git-scm.com/book/en/v2/Git-Branching-Basic-Branching-and-Merging)

[**cherry-picking**](http://stackoverflow.com/questions/9339429/what-does-cherry-picking-a-commit-with-git-mean) **command**

Cherry picking in git means to choose a commit from one branch and apply it onto another.

This is in contrast with other ways such as merge and rebase which normally applies many commits onto a another branch.

1. Make sure you are on the branch you want apply the commit to.

**git checkout master**

1. Execute the following:

**git cherry-pick <commit-hash>**

where hash is a commit hash from other branch.

# [Merge local master branch with remote master branch in Git](http://stackoverflow.com/questions/18116198/merge-local-master-branch-with-remote-master-branch-in-git)

## **Case 1: remote/master has everything that local master has**

If remote/master contains all of the commits that the local master contains, simply do a git pull:

git checkout master

git pull remote master

You can check if the local master has commits that remote/master doesn't by using the following:

git fetch remote

git log --oneline --graph remote/master..master

That will show you all commits that are contained in master but not in remote/master. If you don't see any output, that means remote/master has everything that the local master has.

## **Case 2: local master has commits that remote/master doesn't have**

If the local master contains commits that remote/master doesn't contain, you'll have to figure out how you want to handle that. Do you want to keep them and merge them with remote/master, or do you simply want to throw them away?

### **Case 2a: merge/rebase local master commits into remote/master**

If you want to keep them, you can either merge or rebase the local master with remote/master:

git checkout master

git fetch <remote>

# Merge remote/master

git merge remote/master

# Or rebase local commits on top instead

git rebase remote/master

# Push the results

git push remote master

### **Case 2b: throw away local master commits**

If you don't want to keep the local commits, then just do a hard reset of the local master to the same point as the remote/master:

git checkout master

git fetch remote

git reset --hard remote/master