

What is GIT fast forward?

Sometimes Git does a fast forward when you merge a branch that is ahead of your checked-out branch. Git simplifies things by moving the pointer forward because there is no divergent work to merge together.

Describe the process of a merge conflict.

A merge conflict occurs when a developer merges a branch into another branch, and the branches contain different data on the same code lines. Git will ask you to walk through the files that contain the conflicts. Then you will be presented with a choice of which line you will want to keep, the existing one, the incoming one, or both if you want to fix the line manually and contain data from both branches. After all the conflicts have been resolved, you will have to run the `git merge --continue` command, and then enter a message that describes what has been fixed in the merge conflict, after that you will have to push the resolved conflict to the remote repository.

How do you see which branch you are on?

In git bash you can tell by looking at the text inside the parenthesis at the end of the line above where you enter the commands, after the text that displays the working directory you are in.

E.G. `c/users/project (master)`

Briefly describe a pull-request.

A pull request lets you tell others about the changes that you have pushed to a GitHub repository. Other users can then review the set of changes, discuss or even push follow-up commits if necessary.