

Git Tutorial

backlog + **git**
by nulab

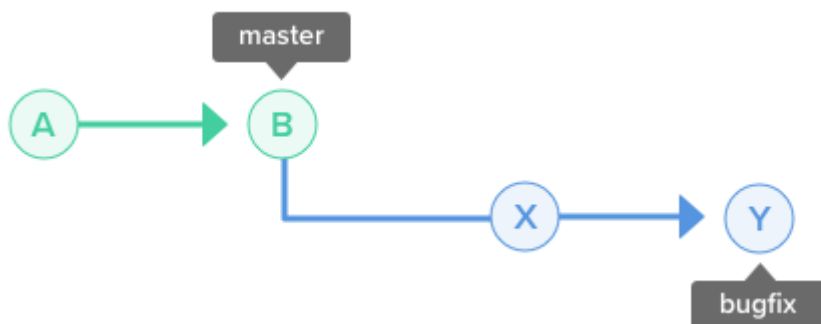
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Merge branch

You can integrate several branches by using the **git merge** command.

Consider the situation below. There are two branches: a "bugfix" branch with a few commits coming off the "master" branch.



In this case, merging "bugfix" back into "master" is not much of an issue. That's because the state of "master" has not changed since "bugfix" was created. Git will merge this by moving the "master" position to the latest position of "bugfix". This merge is called a "fast-forward".

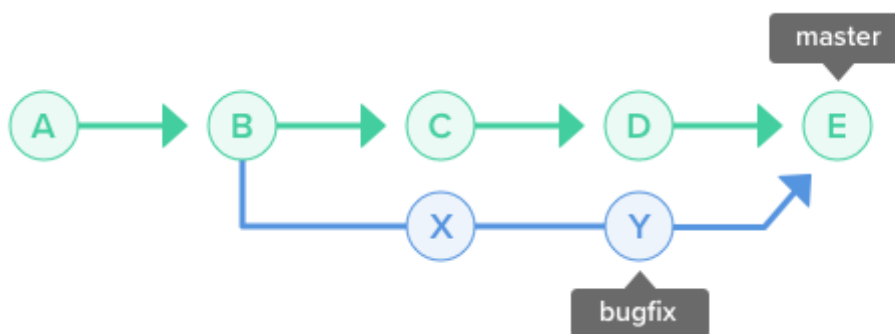


In the example below, however, "master" has been updated several times since "bugfix" was branched out. The changes from "bugfix" and "master"

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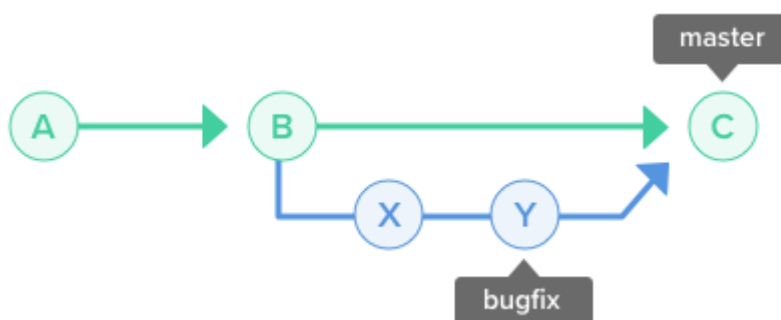


For this sort of merge, a "merge commit" will be created and the "master" position will be updated to the newly created merge commit.



NOTE

Even when a fast-forward merge is possible, you could still explicitly force it to merge without a fast-forward merge.



As shown above, a non fast-forward merge leaves the "bugfix" branch as it is. This leaves you with a clearer picture of the feature/topic branch "bugfix". You can easily find where the feature/topic branch starts or ends and also track the changes that are made to the feature/topic branch.

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