Session 3.3

Git For Version Control System

Git & GitHub For Collaboration

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Git & GitHub For Collaboration

- Synchronization
- Make a pull request
- Using branches
- Git workflow

Session 3

Git For Version Control System

Synchronization & Pull Request

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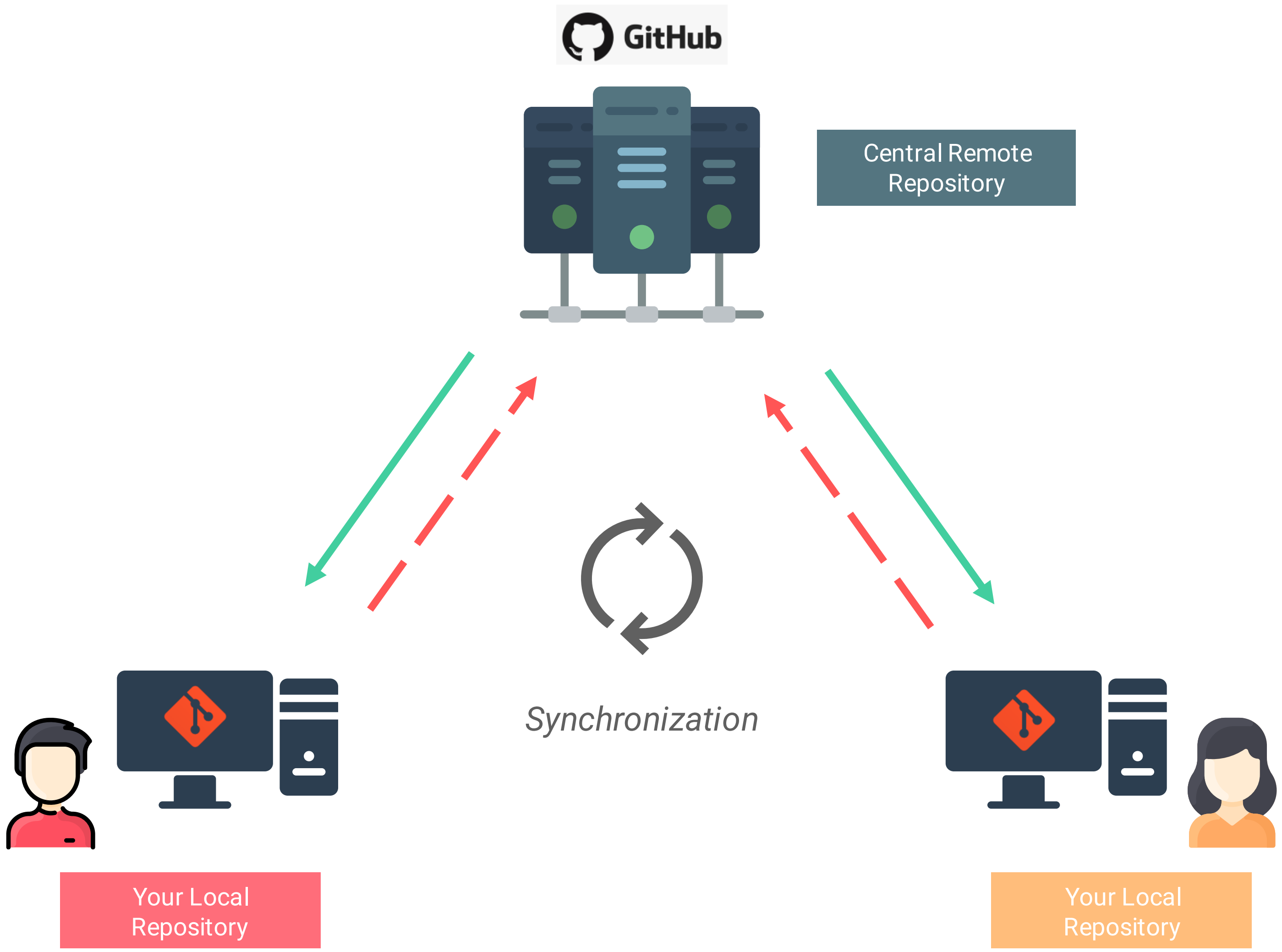


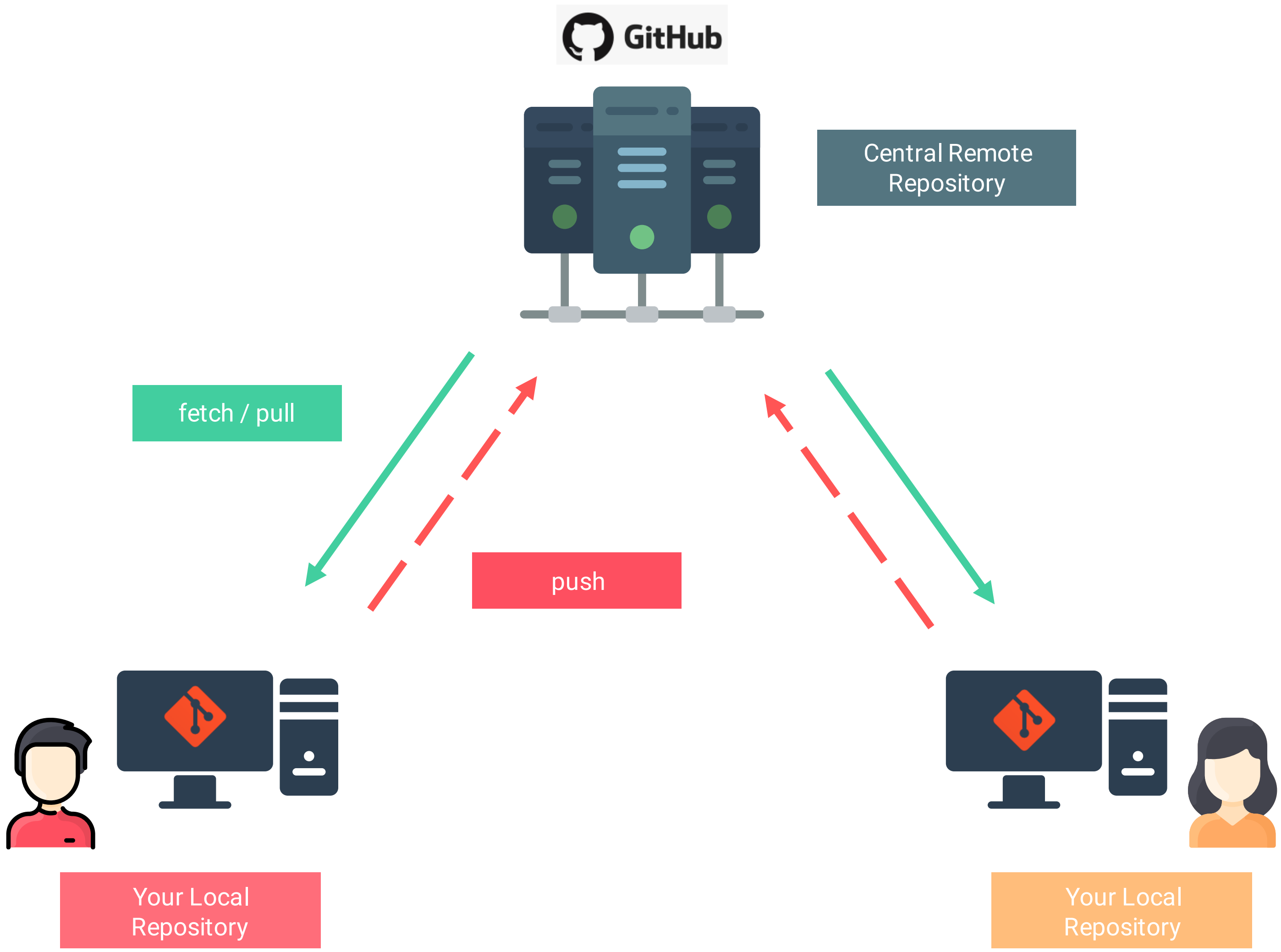
GitHub

Central Remote Repository

Synchronization

Your Local Repository

Your Local Repository



Central Remote Repository

fetch / pull

push

Your Local Repository

Your Local Repository

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Using Branches

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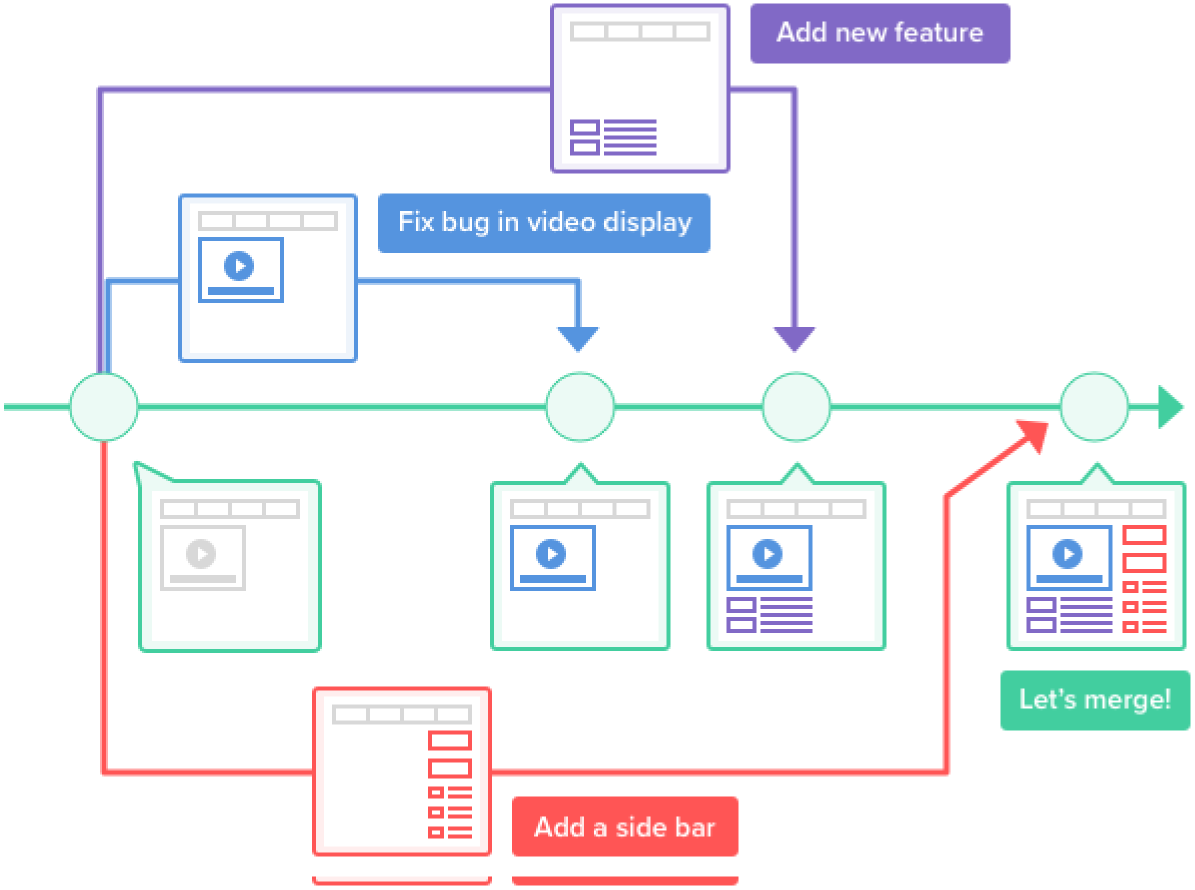
Git Branch

A branch represents an independent line of development.



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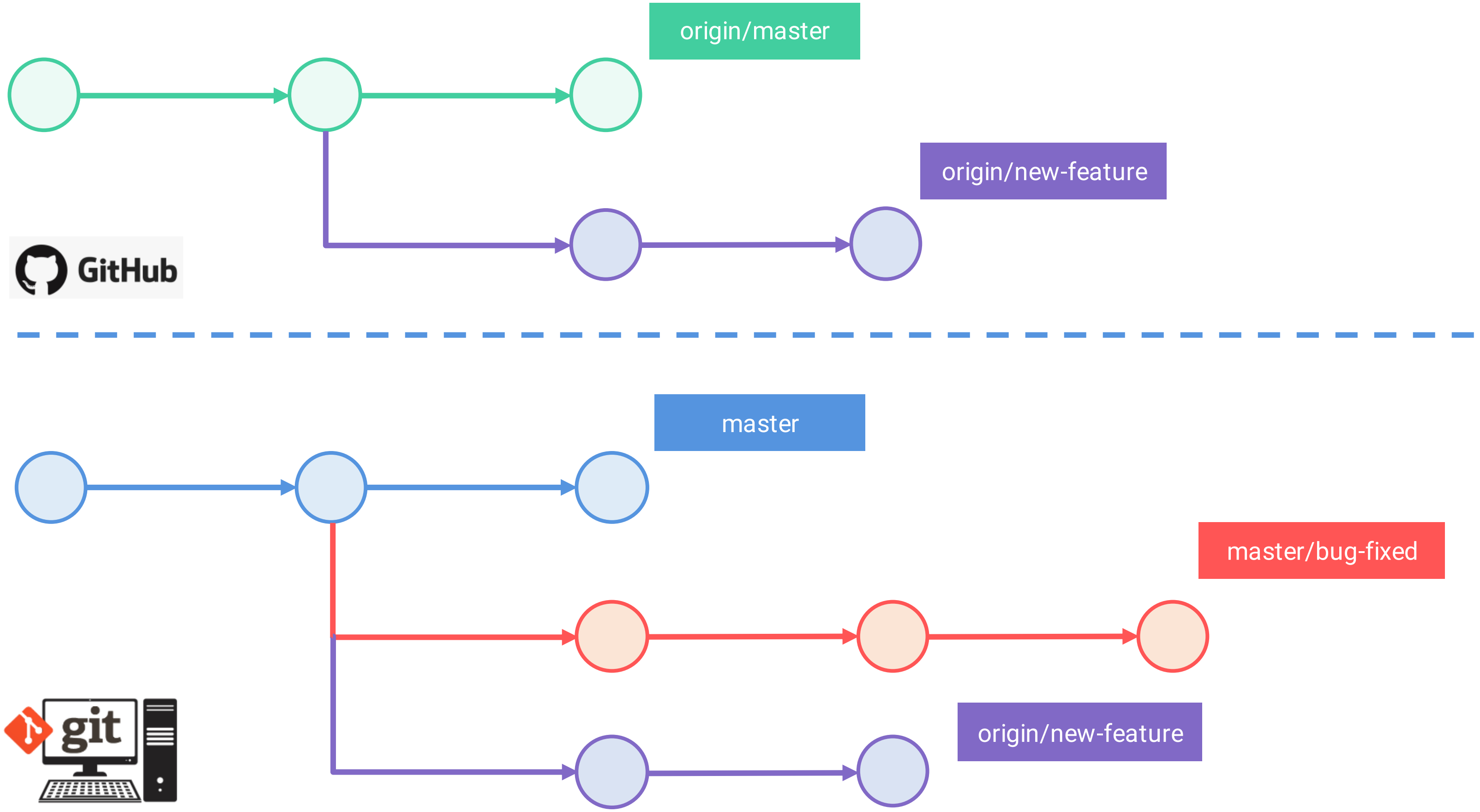
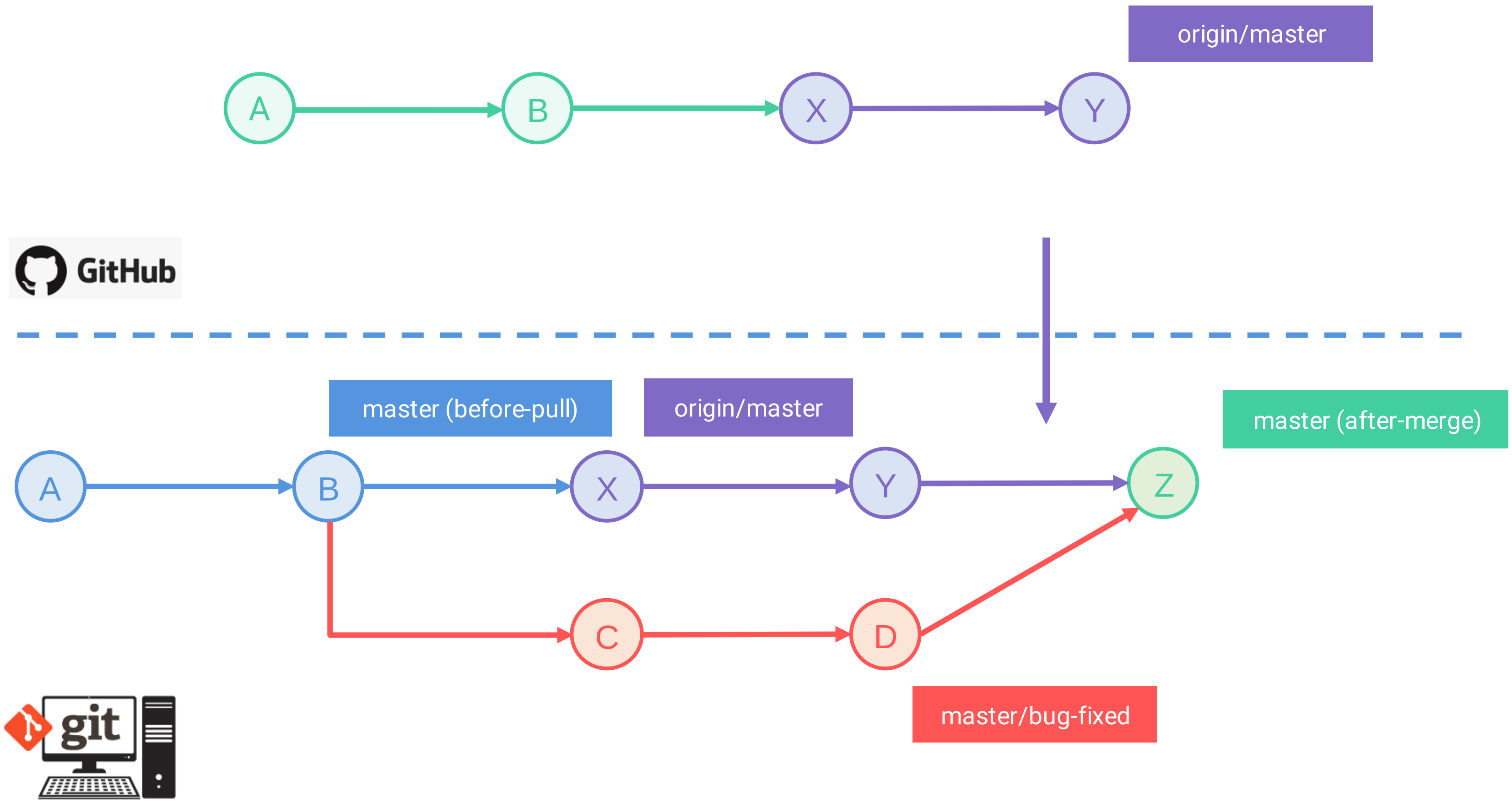
Remote Branch

Although Git is local on your computer, you can also have remote copies of a repository.



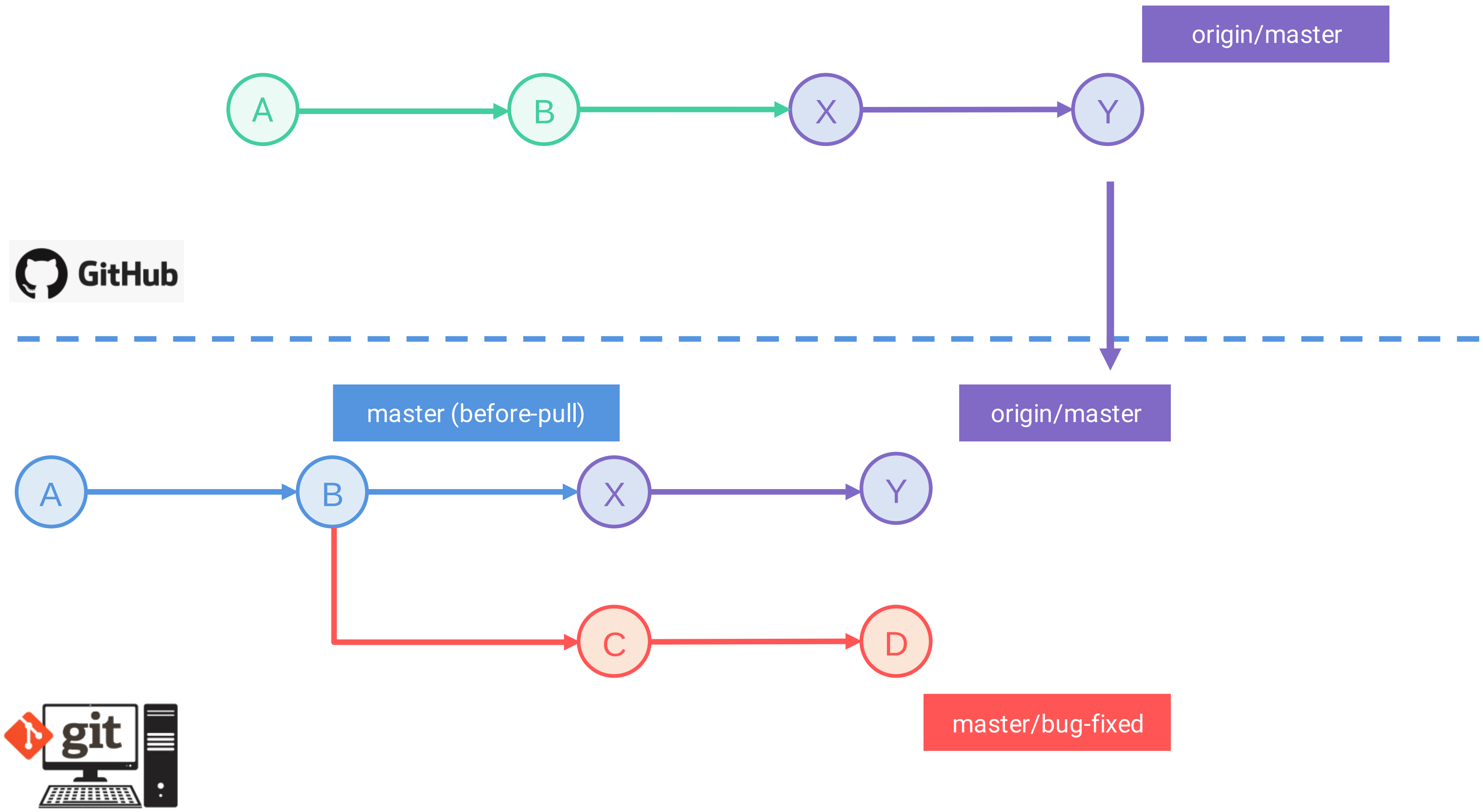
Pull Remote Branch

You can apply the latest changes from a remote repository to your local repository using the **git pull** command.



Fetch Remote Branch

Fetch will download the changes from remote that do not yet exist on your local branch.



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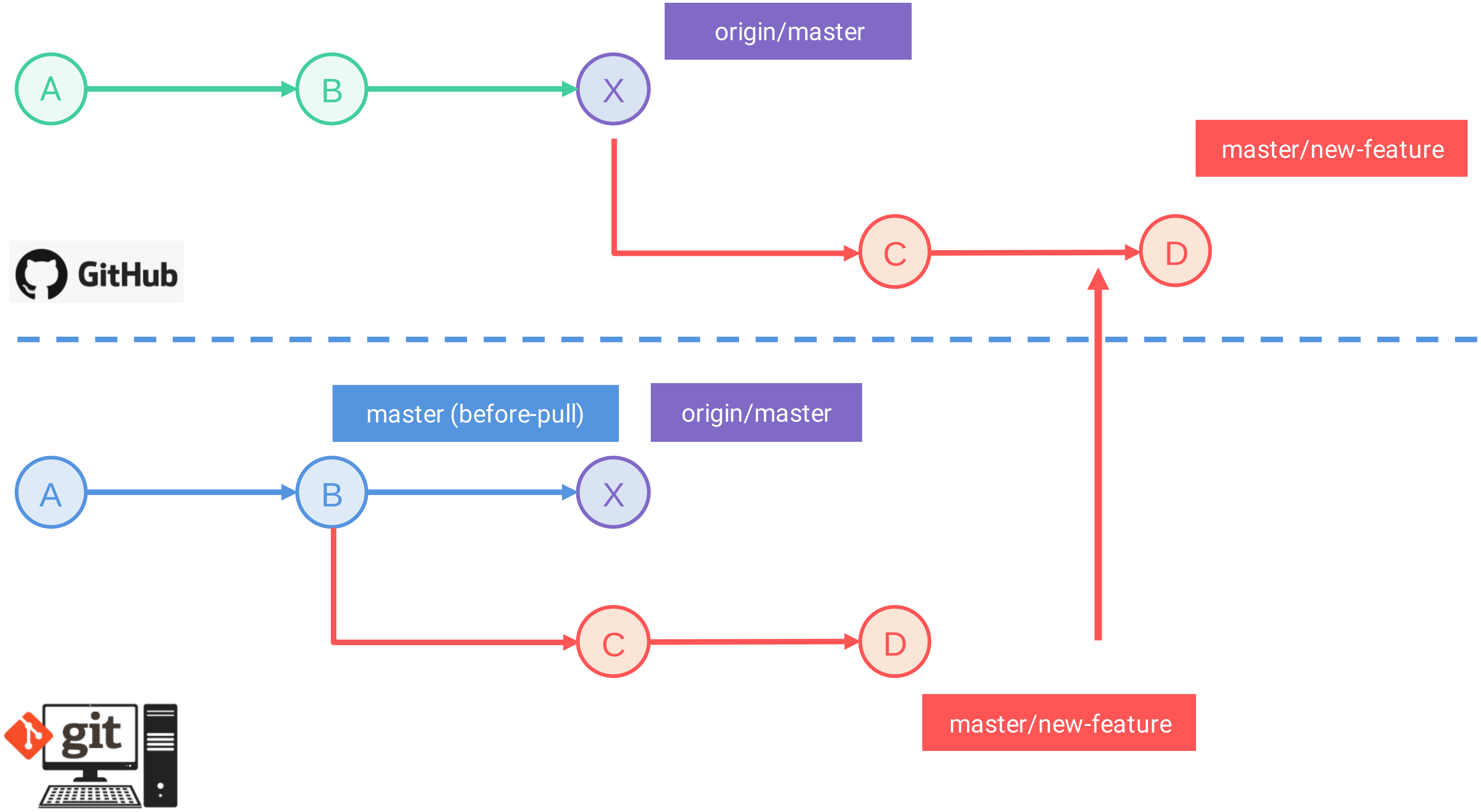
Push Remote Branch

All your commits are available to your branch in local machine, until you push your local branch to the remote repository so the other developer will be able to see your commit / changes.



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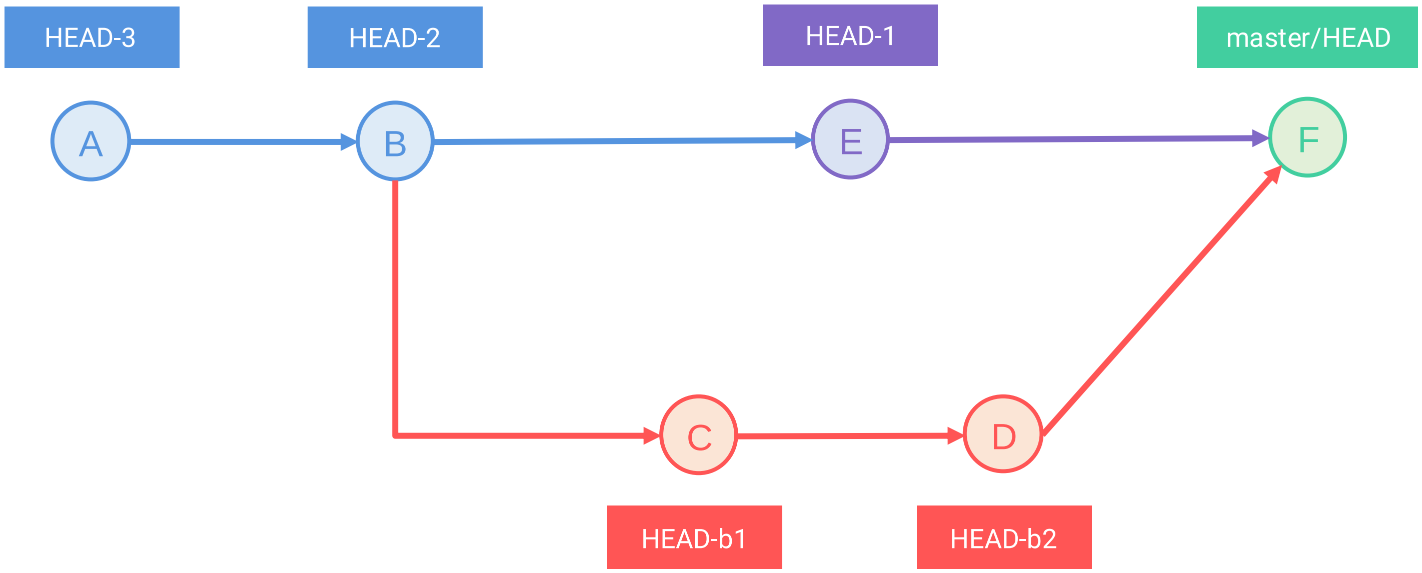
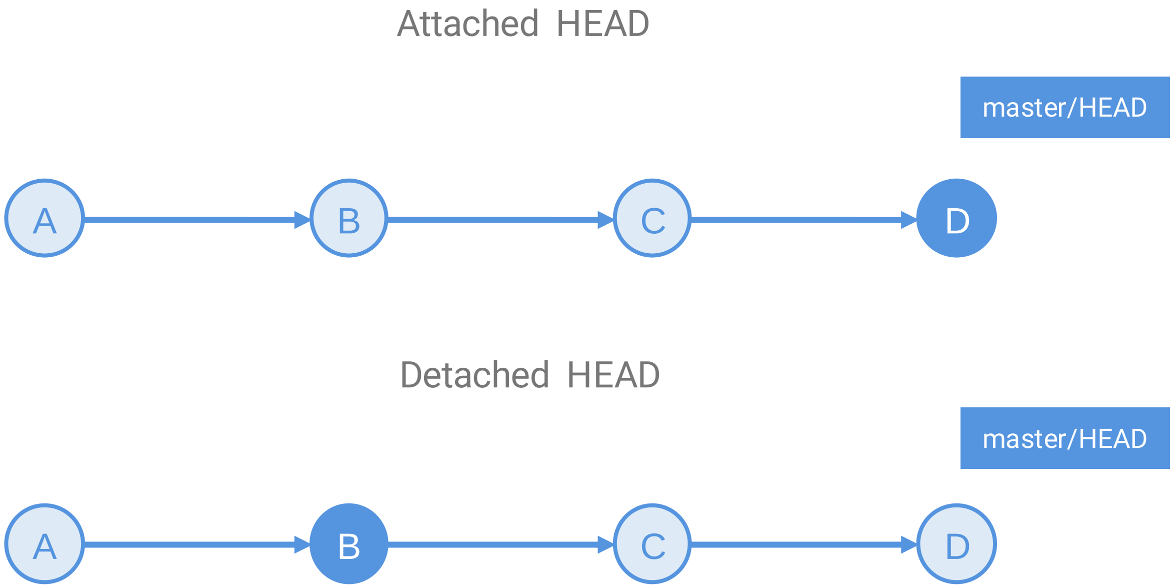
Git HEADS

HEAD is used to represent the snapshot of a last commit in the current checkout branch. For a new repository, Git will by default point HEAD to the master branch. Changing where HEAD is pointing will update your current active branch.



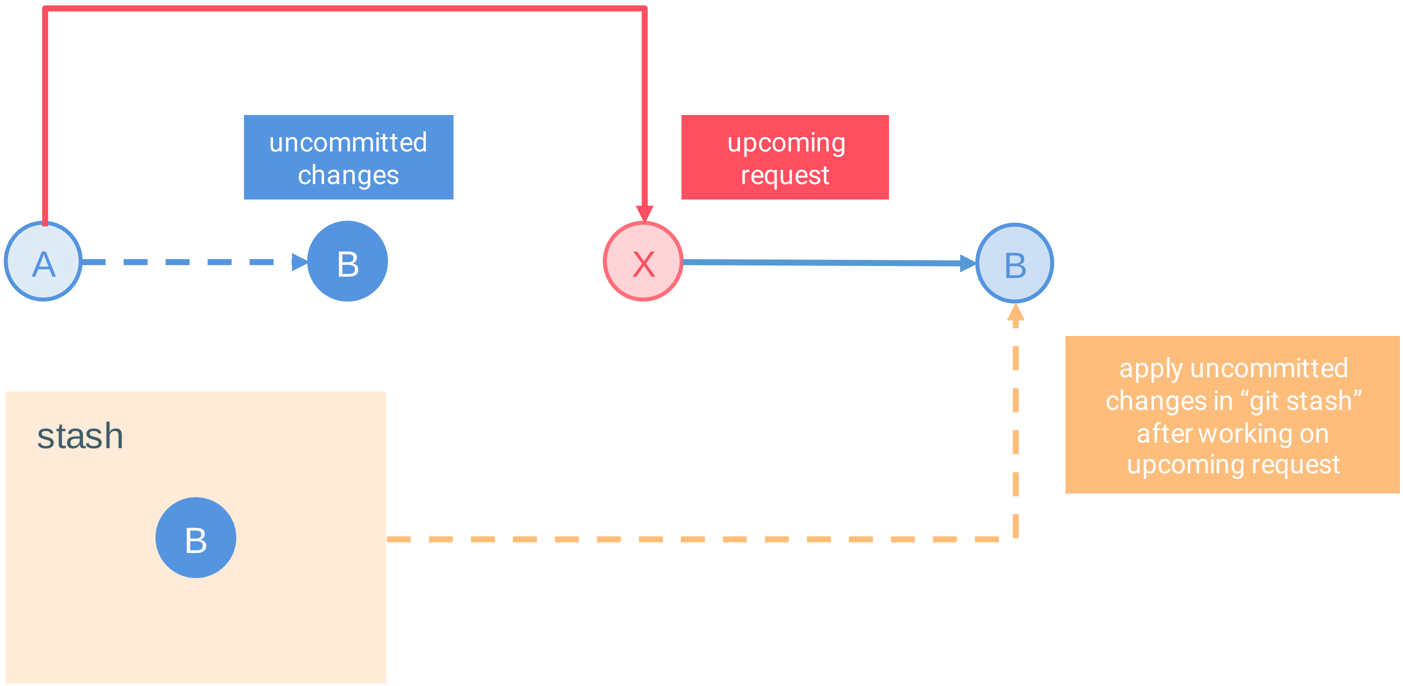
Detached HEADS

When you use the git checkout command to view a commit, you'll enter “detached HEAD state”



Git Stash

git command that allow you to store uncommitted changes / modification that have been made in your working directory, so you can switch / continue working on other things in difference branch on a clean state and you can come back and re-apply them later.


uncommitted changes
upcoming request
A
B
X
B
apply uncommitted changes in “git stash” after working on upcoming request
stash
B

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Make a pull request

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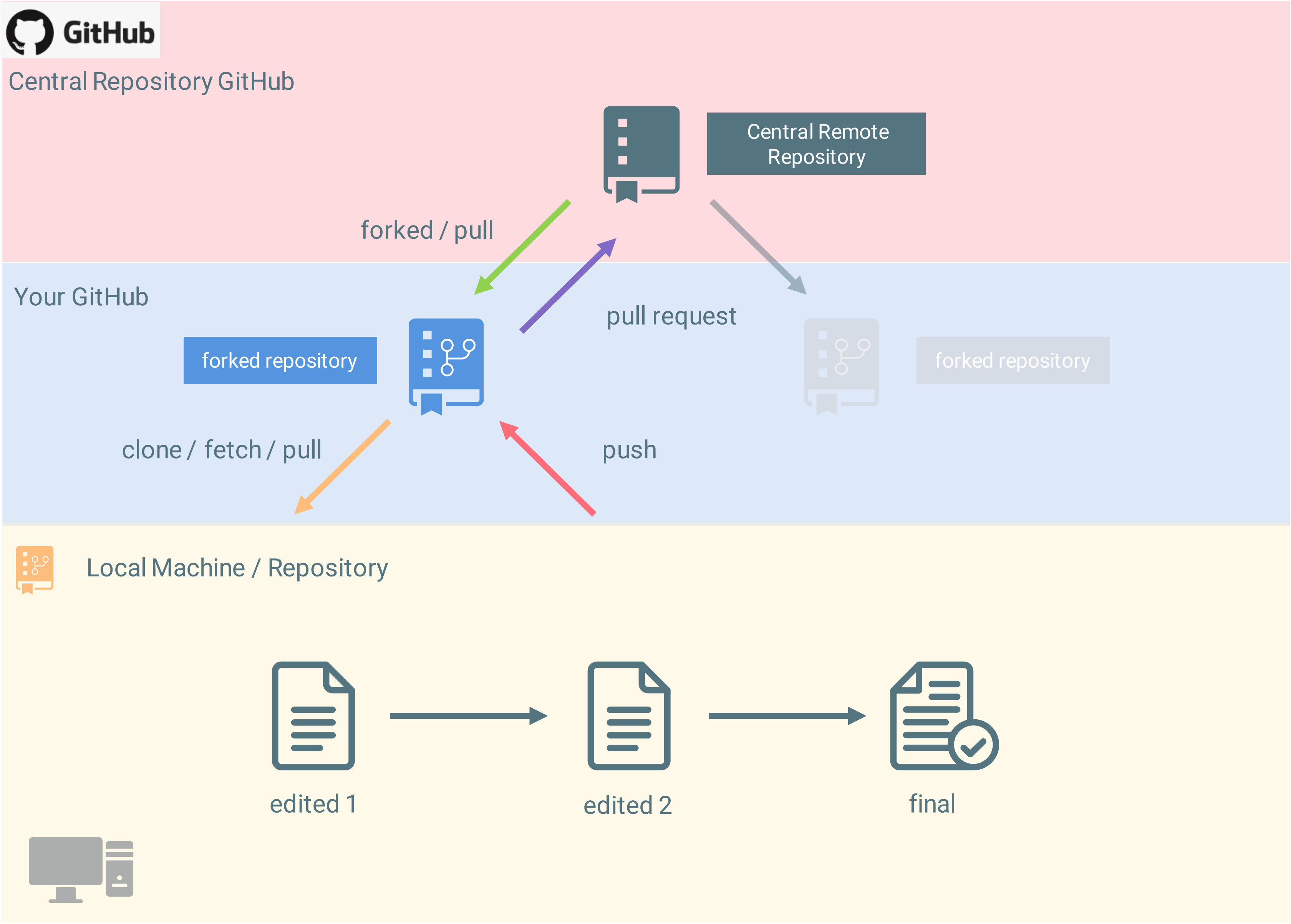
GitHub
Central Repository GitHub
Central Remote Repository
forked / pull
pull request
Your GitHub
forked repository
forked repository
clone / fetch / pull
push
Local Machine / Repository
edited 1
edited 2
final