

Please explain, in your own words, the following concepts:

1. What a commit is;
2. What the point of the git log command is;
3. What a branch is.

Question No. 1 “What a commit is”

Answer: A commit is functionality of project versioning provided by git. This functionality (or simply saying commit / git commit) allows us to save the changes made in various places of our project under one title/name/caption. Thus, you can modify many files and in a point of time t “save it” under the explicit short title (of course using command `git commit -m “”`). Normally one should do it when he/she is sure that in this moment some stuff works well. For example, some tiny functionality is finally started to work correctly after huge modifications, some bugs resolved etc. Using git commit, we save this intermediate point of our state (a state of process of long or short project development).

Question No. 2 “What the point of the git log command is”

Answer: git log allows us to see the history of commits. Thus, we can see who, when and what added on the given branch. It's very helpful when your project/code stopped to work and you really cannot continue anymore. You need some sort of rollback. You use git log to see, think and find a point of time t inside your project development time space in order to return back. Yes, with git log we can successfully travel in time! Let's imagine after investigating in git log, you are pretty sure to which state you want to return (back in time), please before doing a return with checkout, use git stash ('cause you never know), but git stash is another story.

Question No. 3 “What a branch is”

Answer: To me, a branch is a time flow entity of the process of long project development. This entity is something that allows us to work completely in solo mode. However, in some point of time you should merge your job made previously on this separate branch. The point of branch is to have a lonely space in time where you cannot impact someone and cannot be impacted by someone until the moment when you are think you are finally accomplished and want to join to group, a pair of merge arrive here. That's another chapter.

Thank you for your review!