Q U EST IO N S

1. What are the advantages of using Git?

Complete version history: Github preserves all changes/files in the source code which allows reproducibility of older versions

Branching & Merging: With the branch setting different users can work simultaneously on the same project and/or a user can test different code/algorithms in a project simultaneously

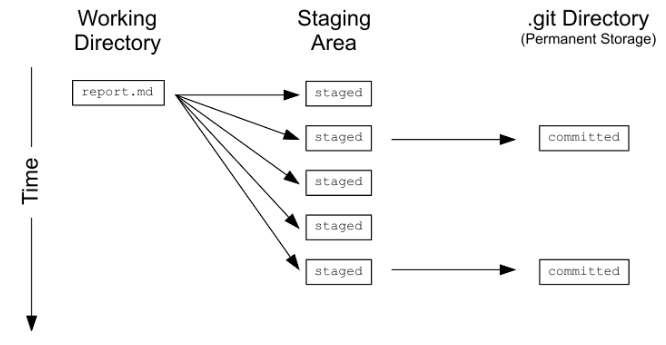
Merging allows to bring the work from different branches and users together.

1. What language is used in Git?

C, Perl, Python, Tcl

1. What is the meaning of “Index” or “Staging Area” in Git?

The **Git index** is used as a staging area between your working directory and your repository. You can use the **index** to build up a set of changes that you want to commit together. When you create a commit, what is committed is what is currently in the **index**, not what is in your working directory.



1. What is the process for creating a repository in Git?

A git repository can be created either by the git web UI by selecting create repository option

Or we can use linux commands

1. What is ‘head’ in Git and how many heads can be created in a repository?
2. Why do we need branching in Git?
3. Write a way to create a new branch in Git?
4. How do you define a ‘conflict’ in Git?
5. How to resolve a conflict in Git?
6. What is the function of ‘git config’?
7. What is Git fork?
8. Difference between fork, branch and clone?
9. What's the difference between a "pull request" and a "branch"?
10. What is the difference between "git pull" and "git fetch"?
11. How to revert previous commit in Git?

Git show HEAD retrieves the most recent commit, Git show Head~1 retrieves the commit before it

1. Explain the advantages of Forking Workflow
2. Difference between HEAD, working tree and index, in Git?
3. How to identify if a certain branch has been merged into master?
4. What is the use of a Git clone?
5. What is Git stash?
6. When should I use "git stash"?
7. What is Git stash drop?
8. What is Git stash save?

24. What README.MD ? What is its purpose? What does MD stands for?

25. How to create repository from command prompt?

26. What is the function of ‘git checkout’ in Git?

27. How can you bring a new feature in the main branch?

28. What is the function of ‘git rm’?

29. What is the function of ‘git stash apply’?

30. What is the use of ‘git log’?

The command git log is used to view the **log** of the project's history. Log entries are shown most recent first. When you run git log, Git automatically uses a pager to show one screen of output at a time. Press the space bar to go down a page or the 'q' key to quit.

git log path, where path is the path to a specific file or directory. The log for a file shows changes made to that file; the log for a directory shows when files were added or deleted in that directory, rather than when the contents of the directory's files were changed.

31. What is ‘git add’ is used for?

To add a file to the staging area, use git add filename

32. What is 'git diff' is used for?

In order to compare the file as it currently is to what you last saved, you can use git diff filename. git diff without any filenames will show you all the changes in your repository, while git diff directory will show you the changes to the files in some directory.

33. What is ‘git status’ is used for?

When you are using Git, you will frequently want to check the **status** of your repository. To do this, run the command git status, which displays a list of the files that have been modified since the last time changes were saved.

34. Can we create multiple branch with one command?

35. what is the command that is used to delete a branch?

36. What is another option for merging in git?

37. How to remove a file from git without removing it from your file system?

38. Use of "git rebase" instead of "git merge"?

39. What is a repository in Git?

40. Command used to write a commit message?

41. What does commit object contain?

42. Write one use-case of Github?

43. Name some alternative of Git?

44. What is a gist in Git?

45. What is a gist programming?

46. Name any two Git repository hosting services which are common?

