

Git review

Quiz, Form: A

Section 1. Basic concepts

Match the following concepts with their definitions.

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|---------------------|--|
| _____ repository | (a) used to synchronize repositories |
| _____ staging area | (b) a DAG of commits with additional information (e.g., branches, tags, remotes) |
| _____ branch | (c) a full snapshot of a working tree |
| _____ merge | (d) joins two or more development histories together |
| _____ commit | (e) where snapshots of changes are placed before they are committed |
| _____ working tree | (f) directory containing the files you are currently working on |
| _____ push and pull | (g) a pointer to a particular commit |
| _____ remote | (h) a pointer to a particular commit, which moves forward as you commit |
| _____ tag | (i) another repository whose branches your repository tracks |

Section 2. Short Answer

Please explain what each of the following terms means.

1. `HEAD`
2. `master`
3. `origin`

Please answer the following questions.

4. Which of the above terms are fixed and which are used by convention?
5. What `git` command would you use to see what `master` specifically refers to in one of your repositories?
6. What `git` command would you use to see what `origin` specifically refers to in one of your repositories?

You are working on a team project. You have forked the main project repository, and cloned your fork. This automatically gave you a remote called **origin** that points to your forked repository. You added a remote called **upstream** that points to the main project repository.

Overnight, your eager team members have merged some work to the main repository, therefore updating the **master** branch of the main repository. Today you want to do some work on a new branch that starts off at the new position of **master** on the main repository.

7. What command(s) would you type to start working in a new branch named **more-work** that starts at the new position of **master** in the main repository?

8. You have done some commits on your new branch **more-work**. What command(s) would you type to replicate this your new branch to your own fork on Github?