



Git & GitHub

TOTAL POINTS 5

1. Why use Git?

1 point

- ☐ Git manages multiple versions of your work by appending version numbers to the ends of file names.
- ☐ Git optimizes your code so that when you execute a program it has a better chance of running faster than the same program built without Git.
- ☒ Git allows you to work simultaneously with collaborators on the same project without overwriting each other's work.
- ☒ Git backs up your work and allows you to return your files to a previous state.

2. What is a Git repository?

1 point

- ☐ A Git repository is any of the files in a directory whose changes are tracked by Git.
- ☒ A Git repository is a directory where all of the changes to your files are tracked by Git.
- ☐ A Git repository is any directory on your computer that could be uploaded to GitHub.com.
- ☐ A Git repository is a website on GitHub.com that lists a series of files tracked by Git.

3. What's the best way to identify an individual Git commit?

1 point

- ☐ The name of the branch that corresponds to the commit.
- ☐ The list of files that were changed on the commit.
- ☒ The SHA-1 hash generated for the commit.
- ☐ The commit message for the commit.

4. What's the purpose of a `.gitignore` file?

1 point

- ☐ The `.gitignore` file specifies files and folders that do not need to be added to be tracked individually.
- ☒ The `.gitignore` file specifies files and folders that should not be tracked.
- ☐ The `.gitignore` file allows you to create aliases for groups of files so that you can add them to be tracked more easily.
- ☐ The `.gitignore` file allows you to treat a directory as if Git is not tracking any of the files in that directory.

5. Consider the situation where the following commands are executed in a new, empty directory:

1 point

```
1 git init
2 touch todo.txt
3 touch message.txt
4 git add todo.txt
5 git commit -m "first commit"
6 git add message.txt
7 echo "- Buy cherries" >> todo.txt
8 git commit -m "second commit"
9 echo "- Dear Philip," >> message.txt
```

By the end of these commands, what is the status of this repository?

- ☐ The file `todo.txt` has been committed to the repository but the file `message.txt` has only been added to the repository.
- ☒ Blank versions of the files `todo.txt` and `message.txt` have been committed to the repository. Content added to those files has not yet been committed.
- ☐ The files `todo.txt` and `message.txt` have been committed to the repository and the committed version each contain one line of text.
- ☐ The file `message.txt` has been committed to the repository but the file `todo.txt` has only been added to the repository.

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