1. Git init: starts a repository
2. The git repository is the empty hidden .git folder, which tracks all the changes
3. A period is a shorthand notation for the current directory
4. “git add . “ means add all the changes that are in the current directory
5. In order for git to track changes, the changes have to be committed
6. Make changes, add the changes with “git add”, then commit the changes with a message ( -m “the message” )
7. Research the git log commands, which helps users find specific logs, such as changes made within a date-range
8. Git has three trees, repository, staging index, and working copy.
9. When changes are made, the add commands adds the files to the staging index, then the commit adds the files in the staging index to the repository
10. Working copy 🡪 staging index -> repository
11. Git add file.txt = single file
12. Git uses the SHA-1 algorithm
13. Some people say “what is the sha value of that commit?”
14. The HEAD always points to the current branch in the repository
15. When you do a git status, untracked files means that they are not in a git repository, and git doesn’t know anything about them, and if changes were to be made, those changes would not be tracked
16. Git add adds the file to the staging tree, and is ready to be committed to the repository
17. Git diff shows the changes made to files
18. Git diff –staged shows only the changes that are residing in the staging area
19. Rm = remove command
20. Removing a file using rm deletes a file permanently using a unix command; the file does not go to the recycle bin
21. [Move and rename files (linkedin.com)](https://www.linkedin.com/learning/git-essential-training-the-basics/move-and-rename-files?autoSkip=true&autoplay=true&resume=false&u=2337506) , for when you accidentally rename a file in file explorer and git messes up
22. In git, renaming a file and moving a file is the same thing. To rename a file, use git mv <file>
23. Moving and renaming files: [Move and rename files (linkedin.com)](https://www.linkedin.com/learning/git-essential-training-the-basics/move-and-rename-files?autoSkip=true&autoplay=true&resume=false&u=2337506)
24. If there is no .git directory in a project, git is not tracking it