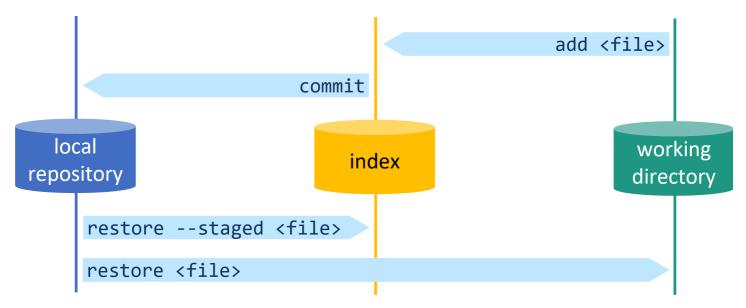
# **Lab 2 - Basic Snapshotting**

Last updated by | kees.vanloenen | Jun 29, 2025 at 11:37 AM GMT+2

## Lab 2 - Basic Snapshotting

Let's add some files and commit them in the repository created in the previous step.



(we'll practise restore in next lab)

#### Exercise 1

- 1. In the directory demo create a new text file.
- 2. Check the status ( status ).
- 3. Add this file to the staging area (add).
- 4. Check the status (again). You'll use this command quite often.
- 5. Now remove the change from the staging area using the suggested command.
- 6. The file is still in the working directory but no longer in the staging area. Check the status.
- 7. Add the file to the staging area again (add).
- 8. Commit the added file (commit).
- 9. Check the status.
- 10. Watch the log (log).

#### Exercise 2

- 1. Change the contents of the file.
- 2. Check the status. Why is the displayed command to discard the changes in the working directory different compared to the command we performed in exercise 1?
- 3. Now undo the change (restore).
- 4. Check the status.
- 5. Change the contents of the file (again).
- 6. Try to commit without adding the file to the staging area (commit).
- 7. What happened? What did you expect?

### **Exercise 3**

- 1. Add the changed file to the staging area.
- 2. Check the status.
- 3. Commit the changes.
- 4. Check the status.
- 5. Watch the log.

### **Exercise 4**

- 1. Create a second text file.
- 2. Check the status.
- 3. Ensure the file is committed in the repository.
- 4. Watch the 3 commits.

### Exercise 5

If time permits.

1. Watch the most recent commit:

git log -1

2. To further inspect this commit object, run command below. Replace the shown number 'c796a7c' with the first 7 characters of the SHA1 hash of your commit:

git cat-file -p c796a7c

- In this object a tree and a parent hash are given. Can you find the tree object in the file system?
- 3. First try to predict what's in the tree object!

Afterwards, open the tree object.

git cat-file -p 3ecd4ca

4. Feel free to inspect the content of a blob object.