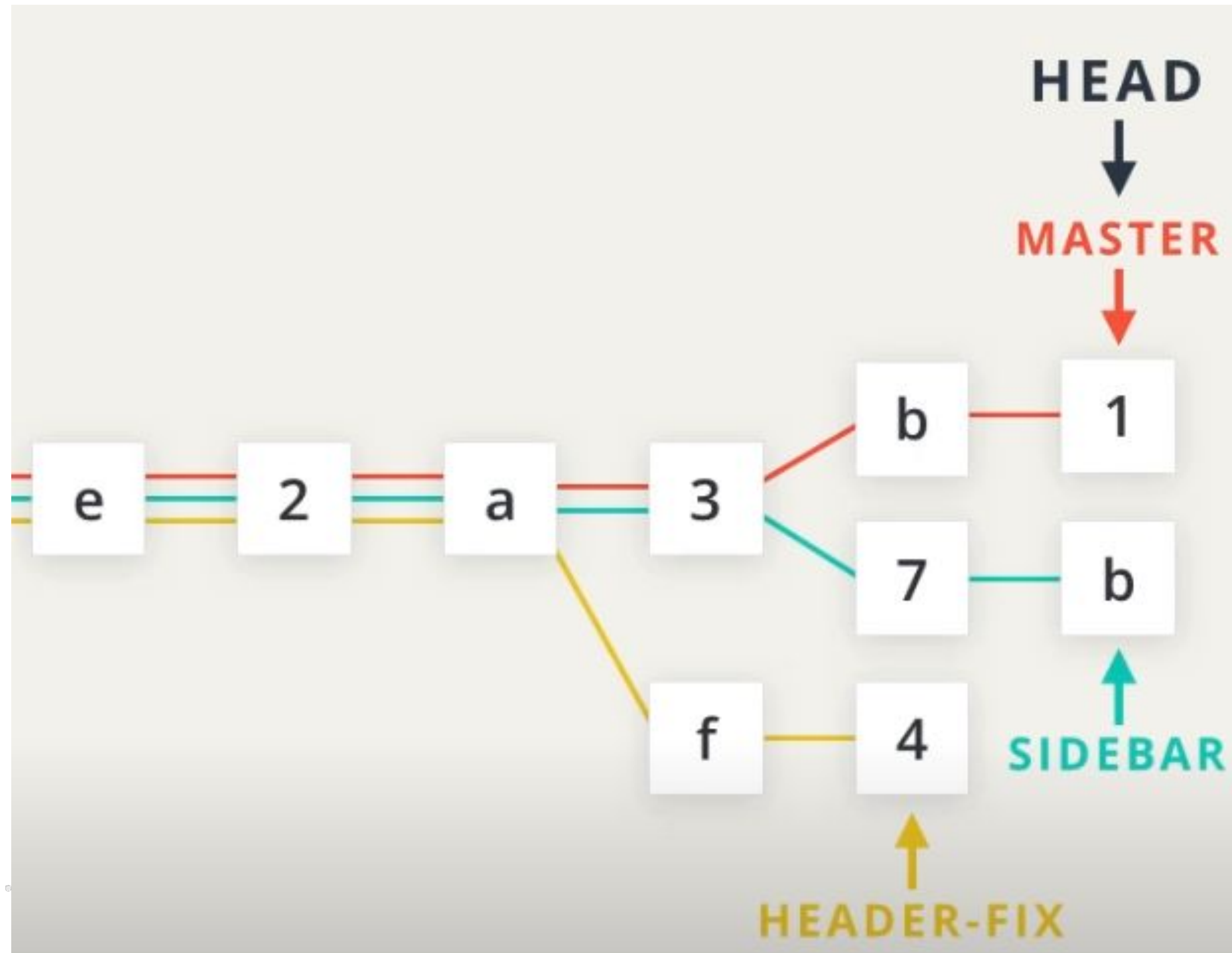


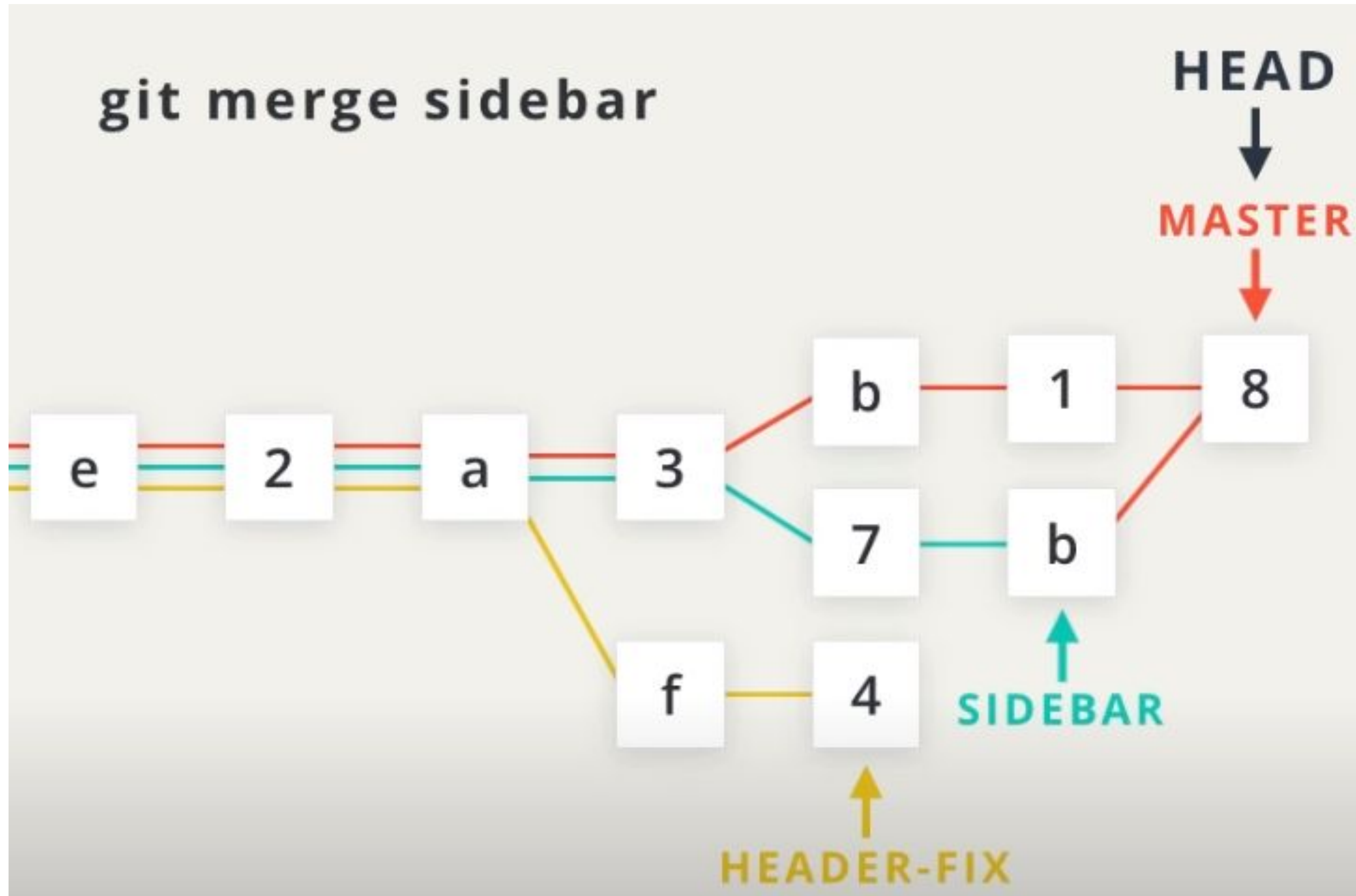


Git for Web Apps 3

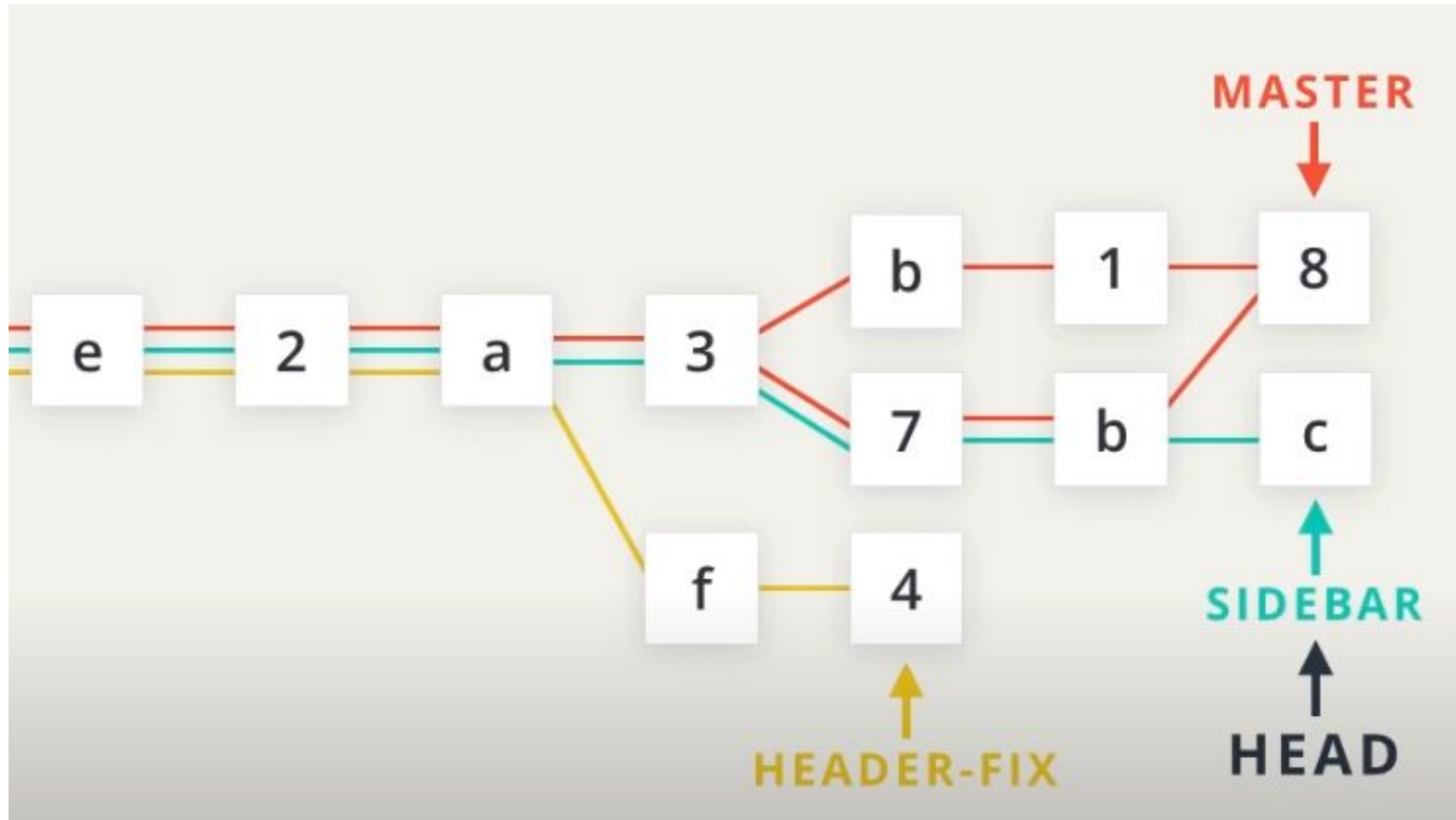
git branch



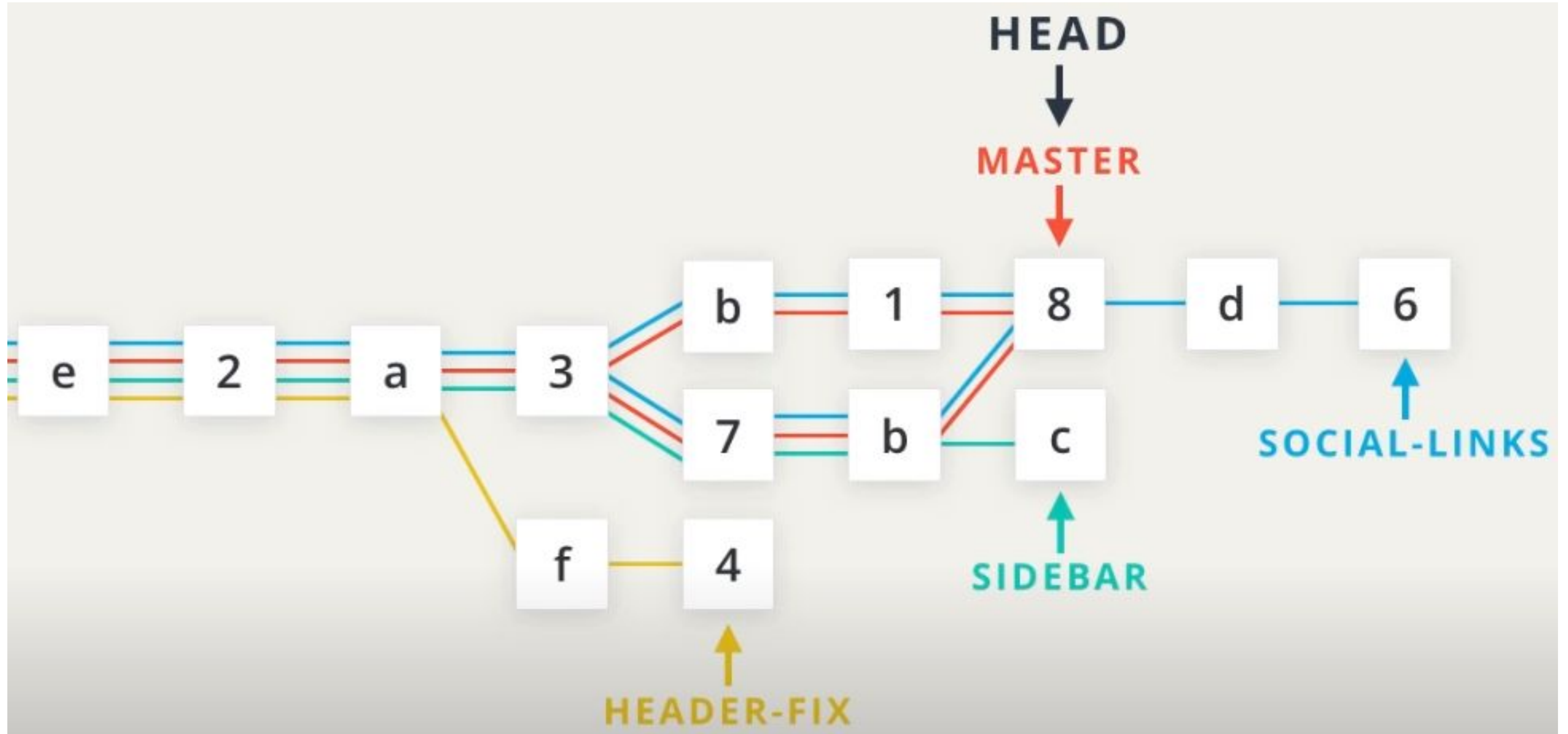
git regular merge



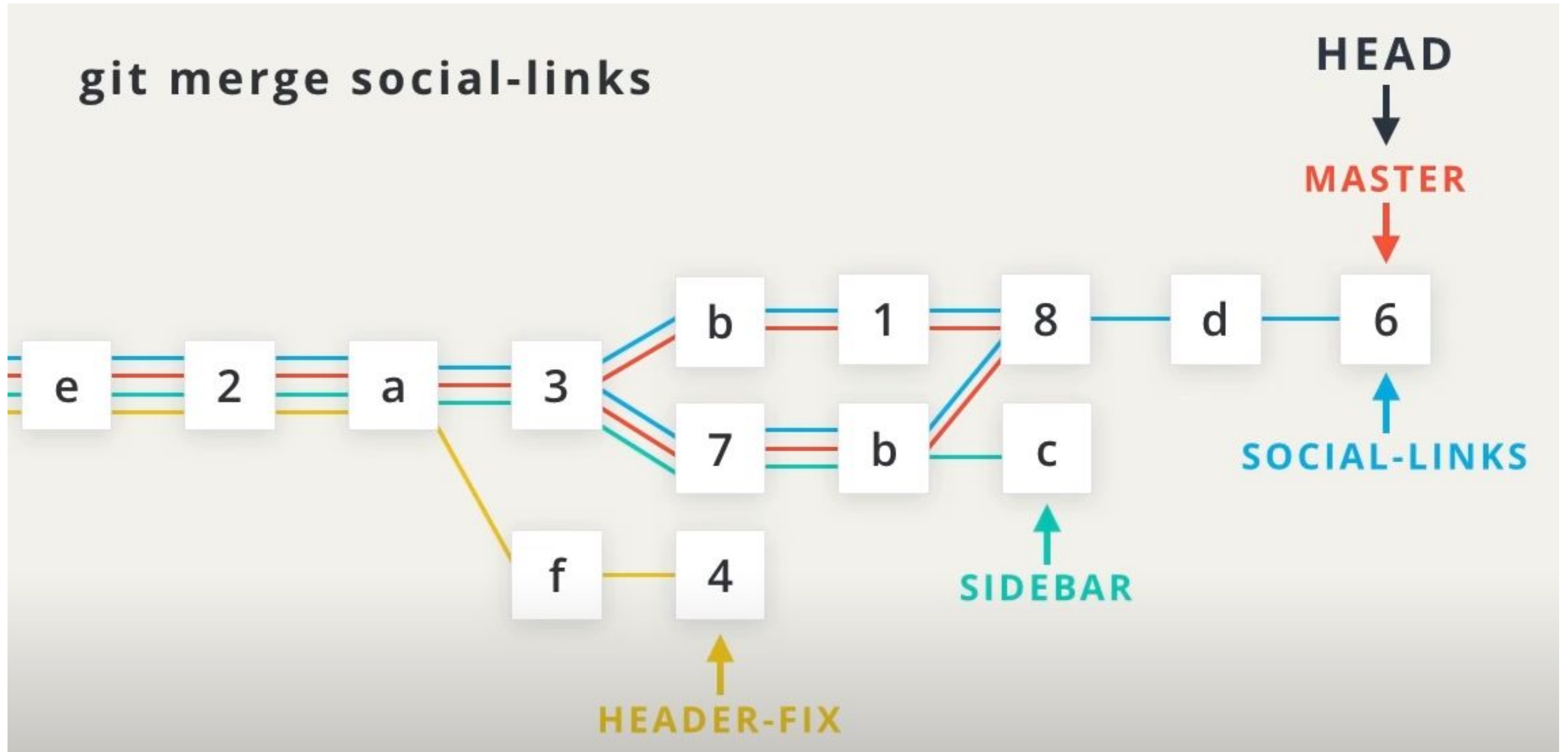
git branch



git branch



git fast forward merge



git conflict (1/2)

```
... <header>
<<<<<<< HEAD
... <h1>Quest</h1>
||||| merged common ancestors
... <h1>Adventure</h1>
=====
... <h1>Crusade</h1>
>>>>>>> heading-update
... </header>
```

- <<<<<<< HEAD

- everything below this line (until the next indicator) shows what's on the current branch

- ||||| merged common ancestors

- everything below this line (until the next indicator) shows what the original lines were

git conflict (2/2)

```
... <header>
<<<<<<< HEAD
... <h1>Quest</h1>
||||| merged common ancestors
... <h1>Adventure</h1>
=====
... <h1>Crusade</h1>
>>>>>>> heading-update
... </header>
```

- =====

- is the end of the original lines, everything that follows (until the next indicator) is what's on the branch that's being merged in

- >>>>>>> **heading-update**

- is the ending indicator of what's on the branch that's being merged in (in this case, the heading-update branch)

git commit --amend

```
git commit --amend
```

- alter the most recent commit

git revert <SHA>

```
git revert <SHA>
```

- undo the changes that were made by the provided commit
- creates a new commit to record the change

Relative Commit References (1/2)

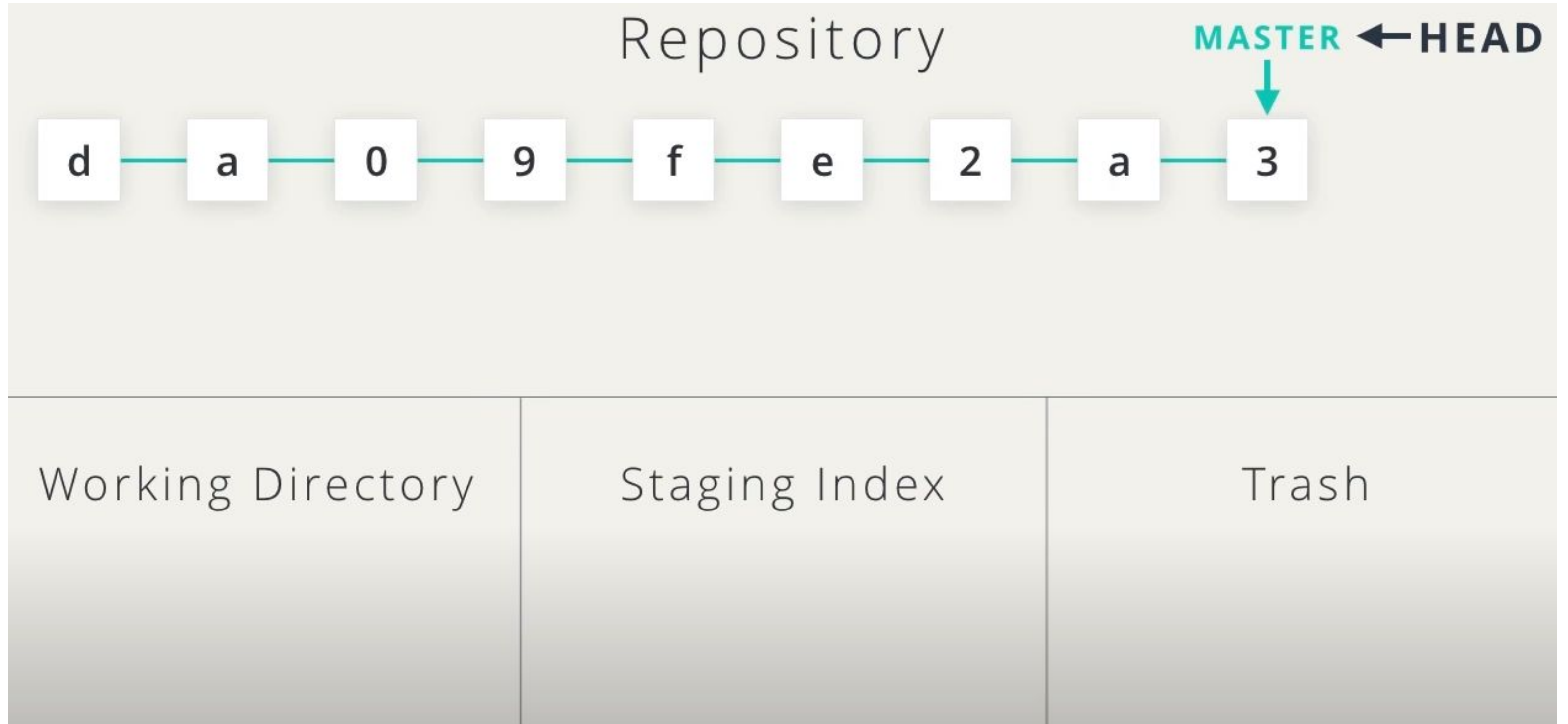
- **indicate the parent commit of the current commit**
 - HEAD[^]
 - HEAD~
 - HEAD~1
- **indicate the grandparent commit of the current commit**
 - HEAD^{^^}
 - HEAD~2
- **indicate the great-grandparent commit of the current commit**
 - HEAD^{^^^}
 - HEAD~3

Relative Commit References (2/2)

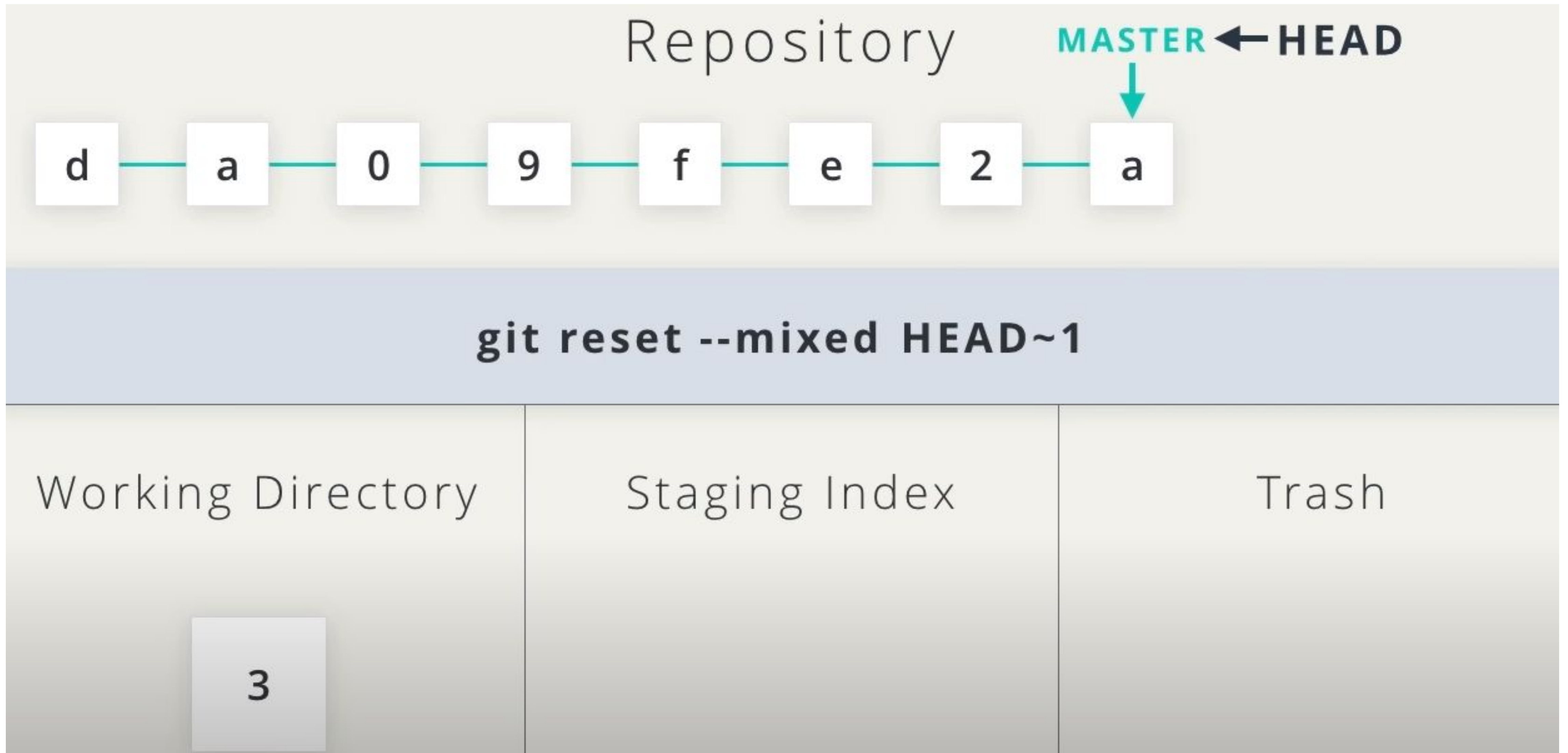
A merge commit has two parents

- **^**
 - indicate the first parent of the commit
 - the branch you were on when you ran git merge
- **^2**
 - indicates the second parent
 - the branch that was merged in

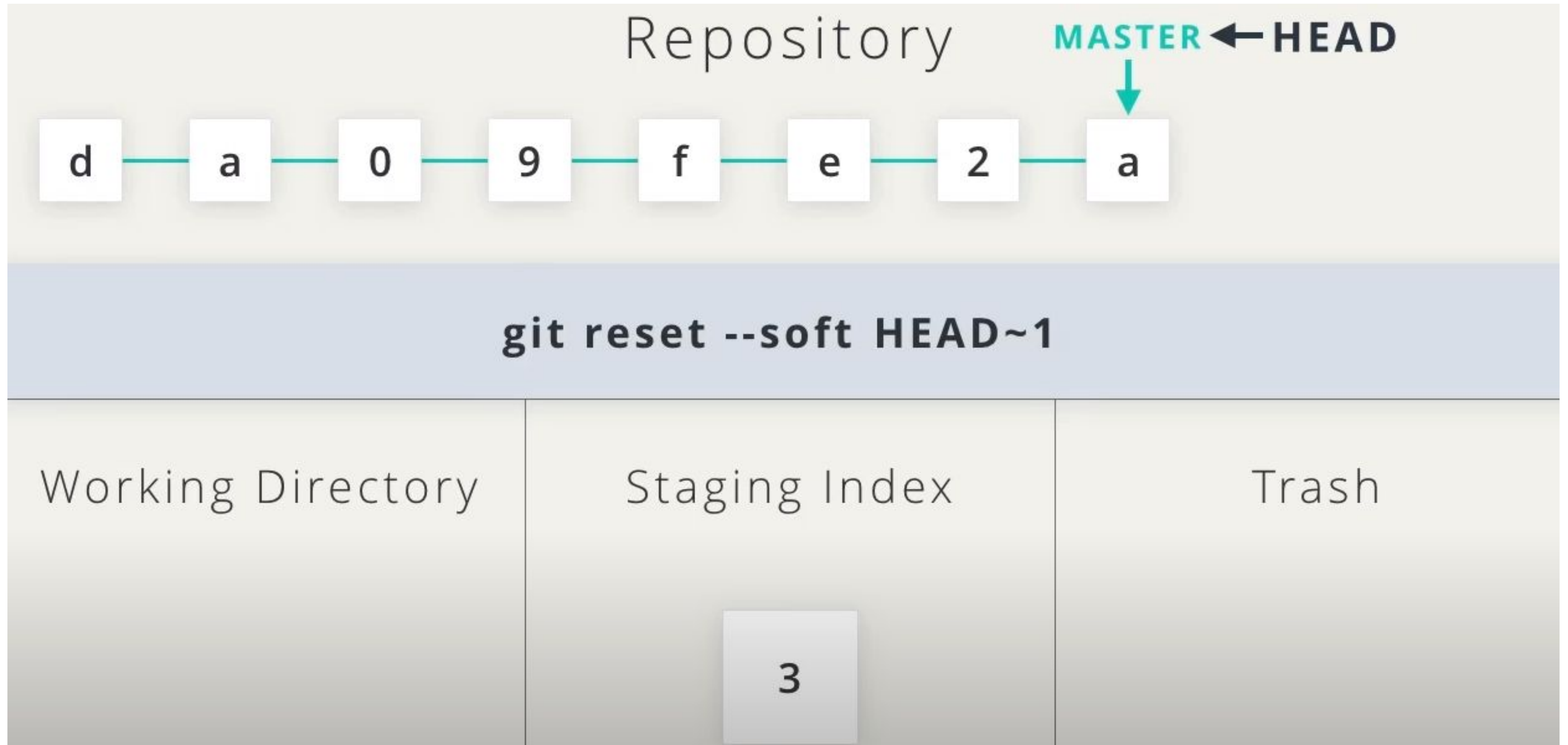
before git reset



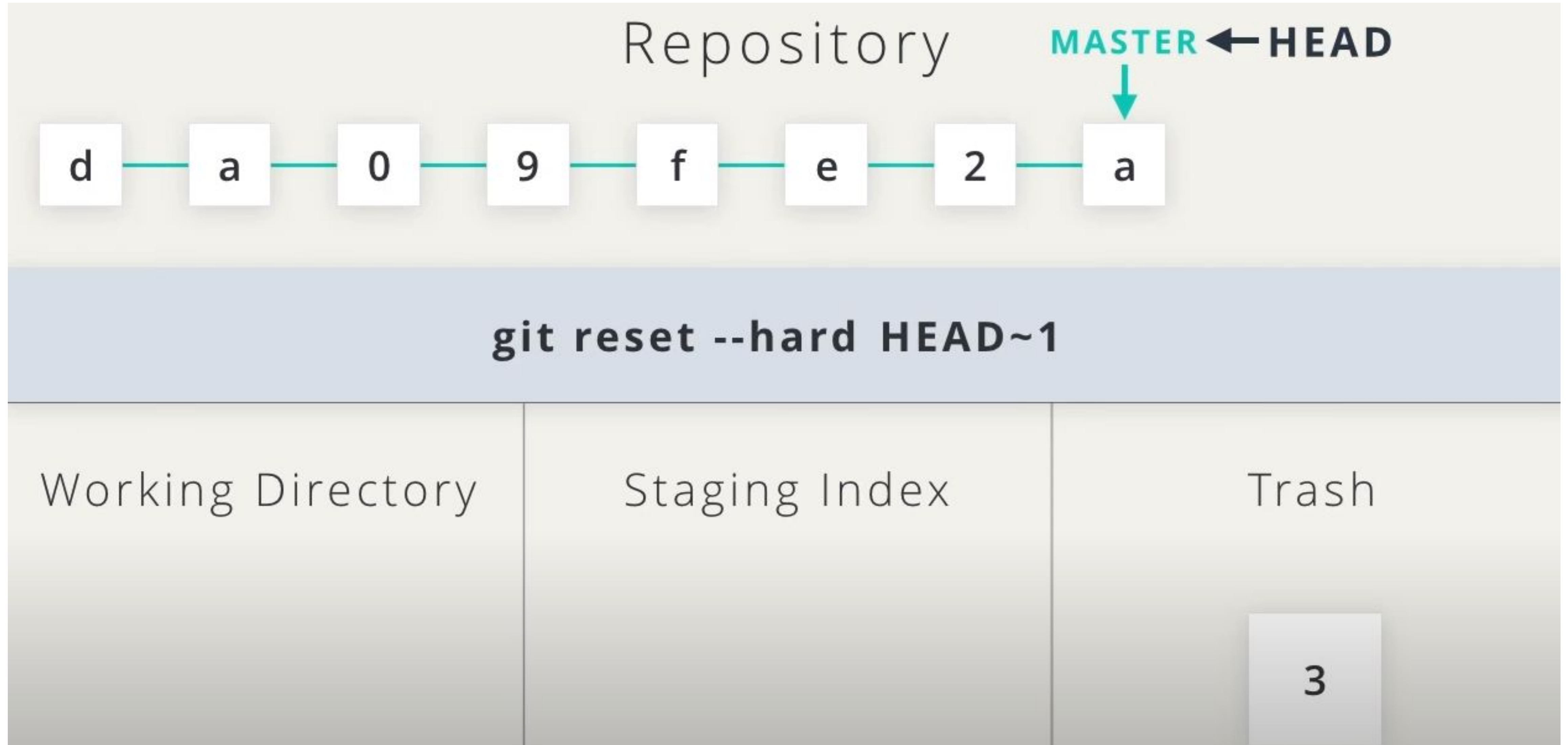
git reset --mixed



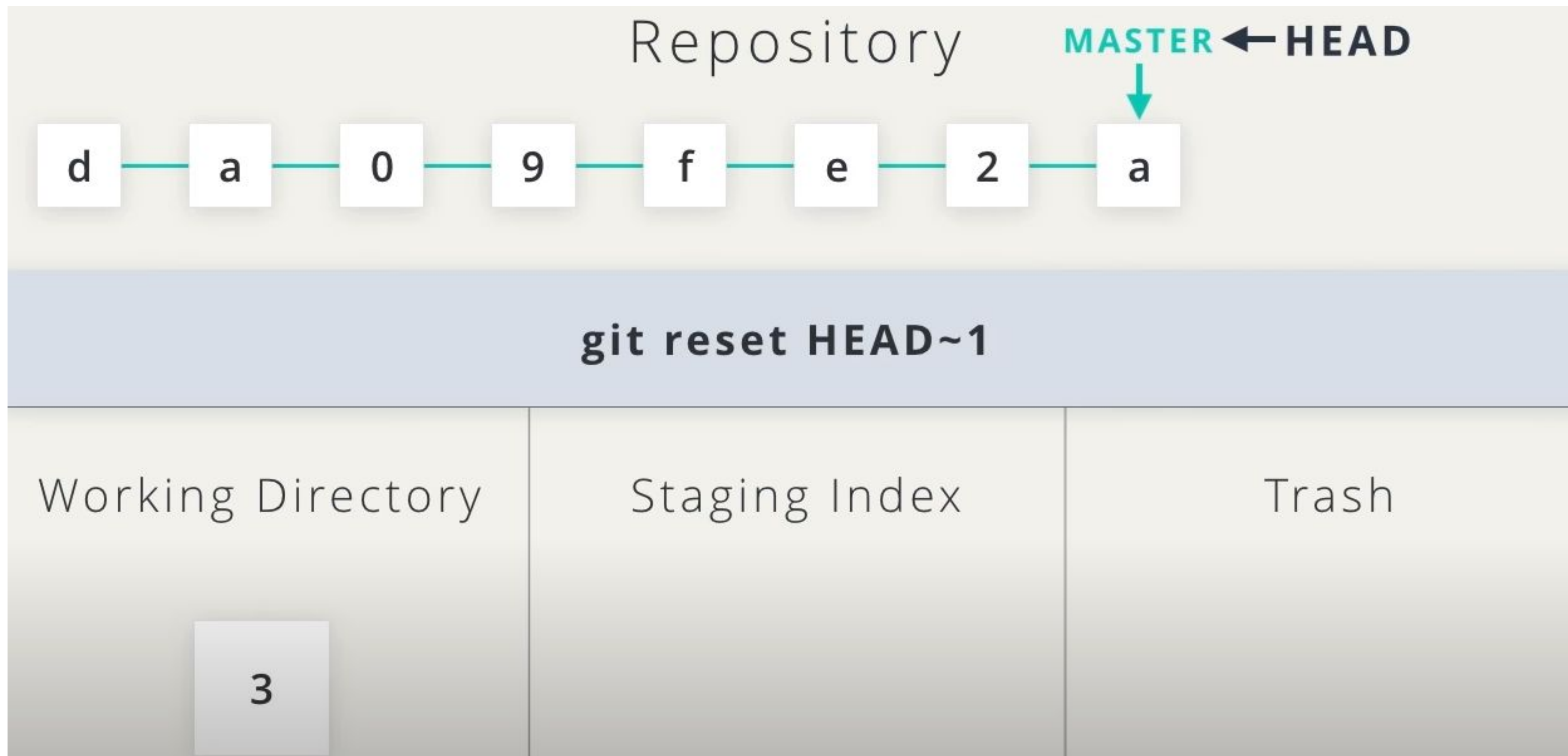
git reset --soft




git reset --hard



git reset





Questions

Study List

1. <https://www.udacity.com/course/version-control-with-git--ud123>