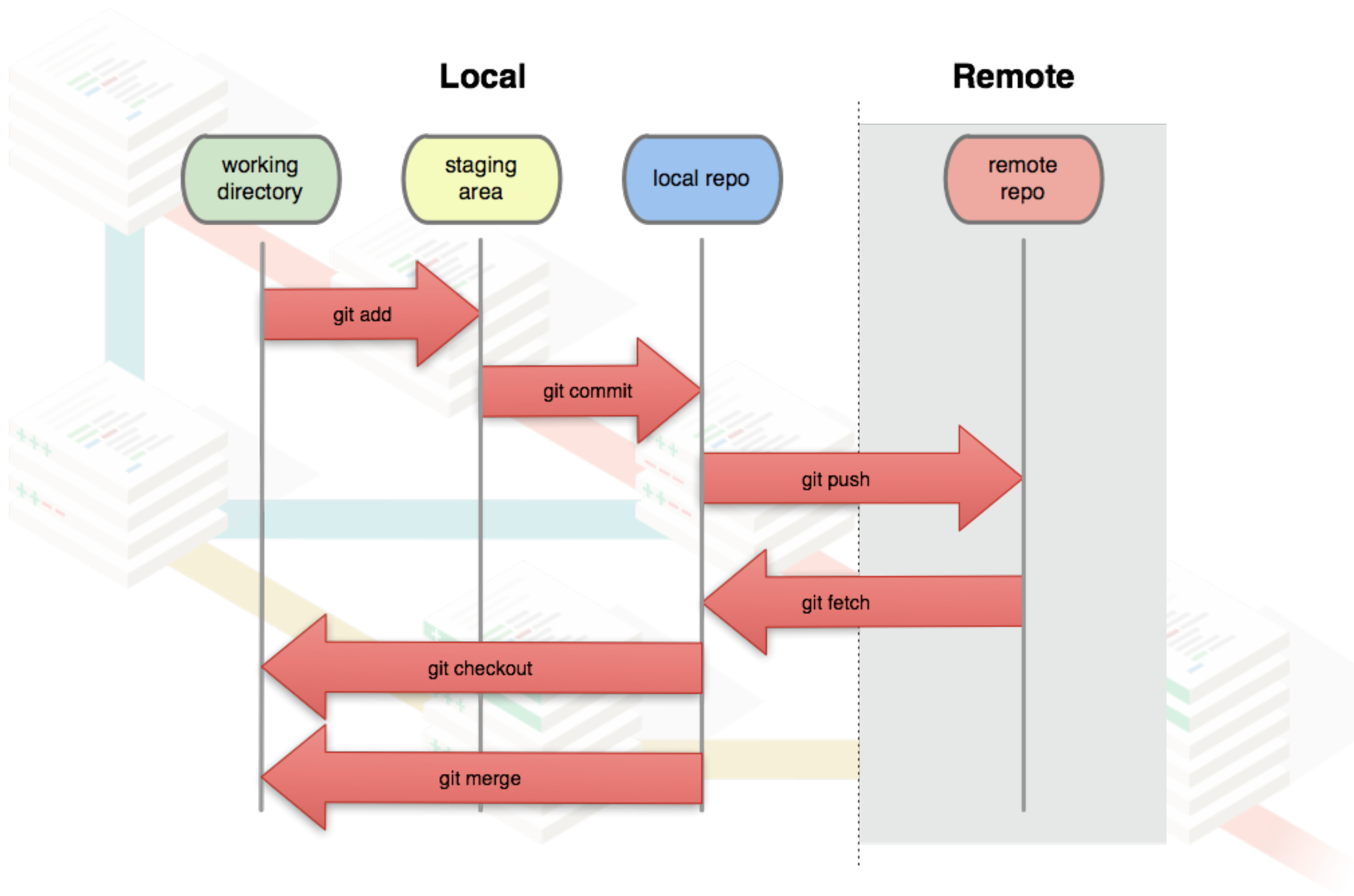


Rollback Revert Reset







what is stored

what can be seen

repository

staging area

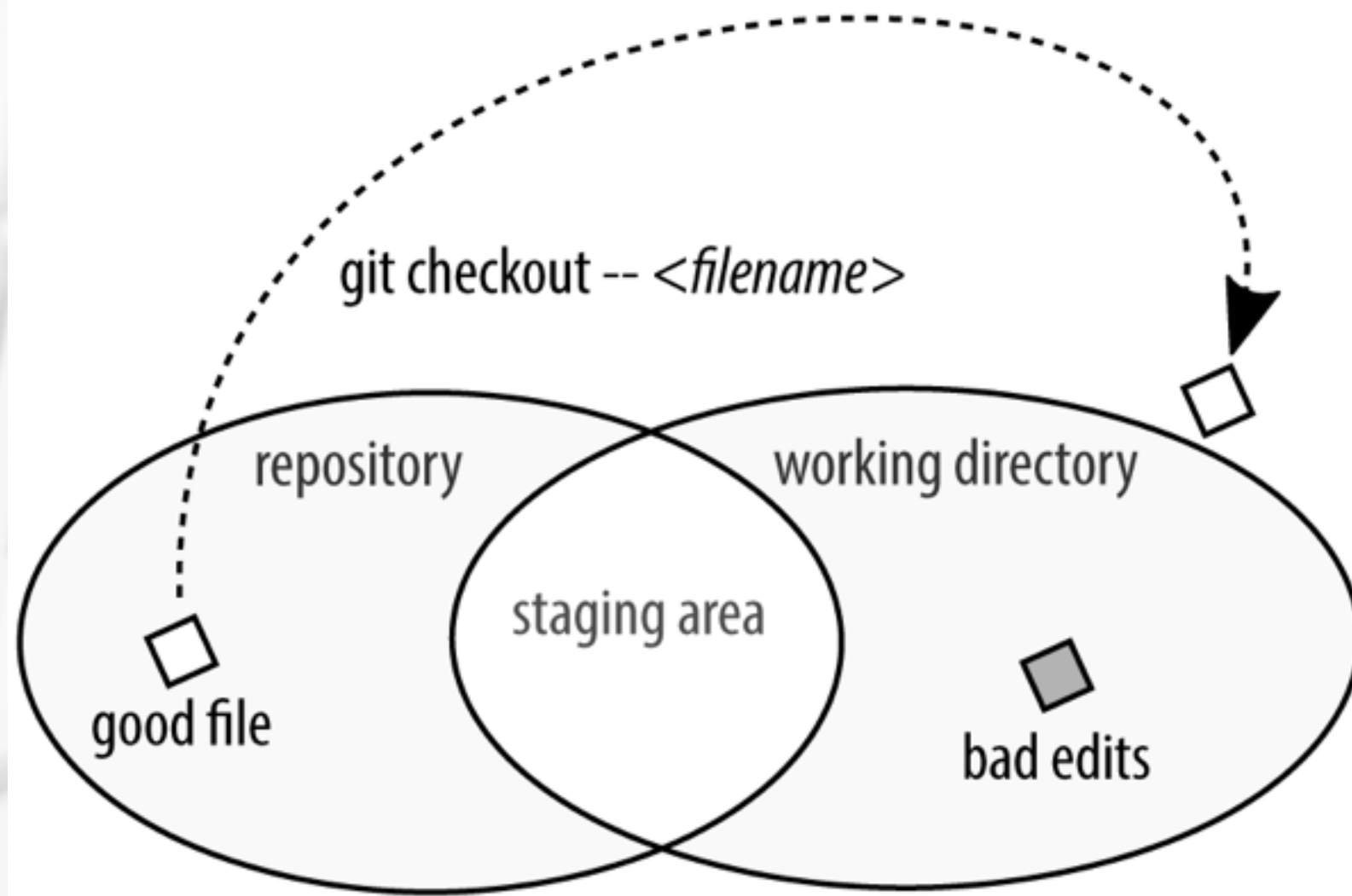
working directory

the difference between what is stored and what is seen



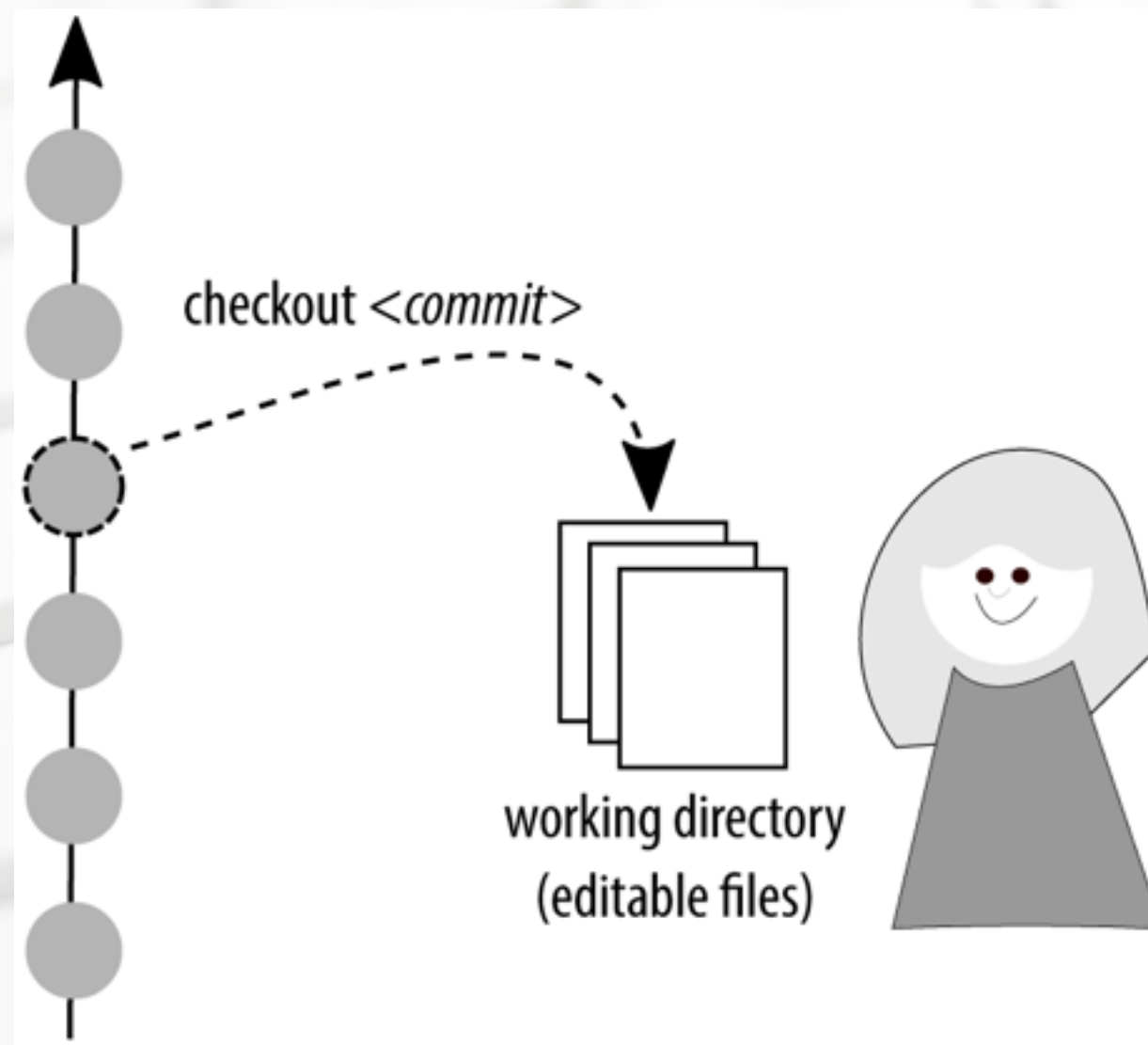
Discard change in working directory

\$git **checkout -- <filename>**



View in history

\$git **checkout** <commit> <filename>



Remove all files (not committed)

```
$git clean -fd
```



Reset vs Revert

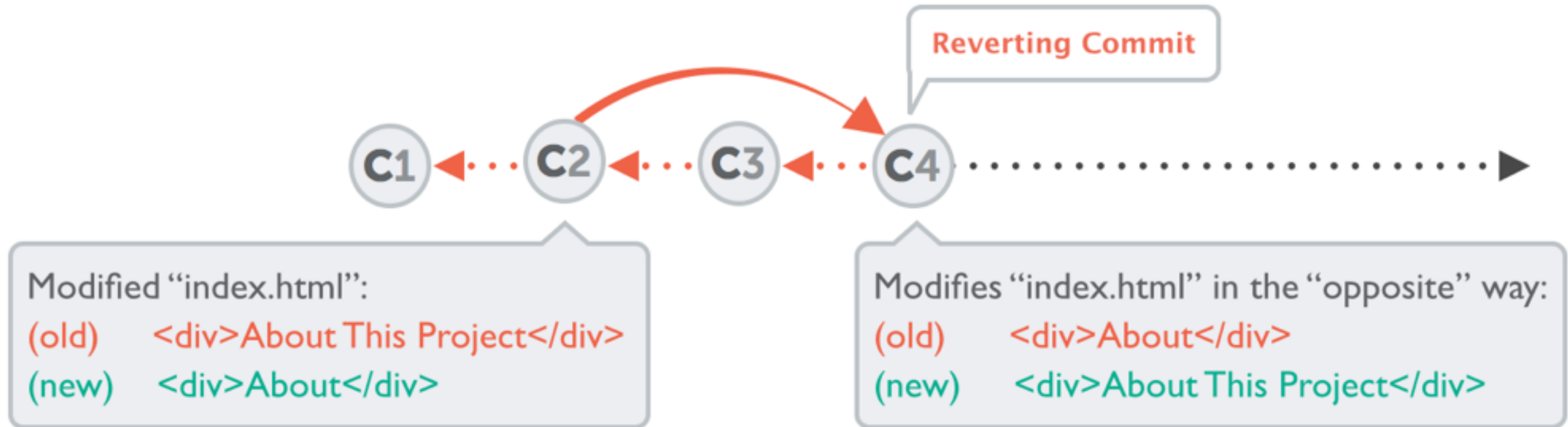
```
$git reset <commit>
```

```
$git revert <commit>
```



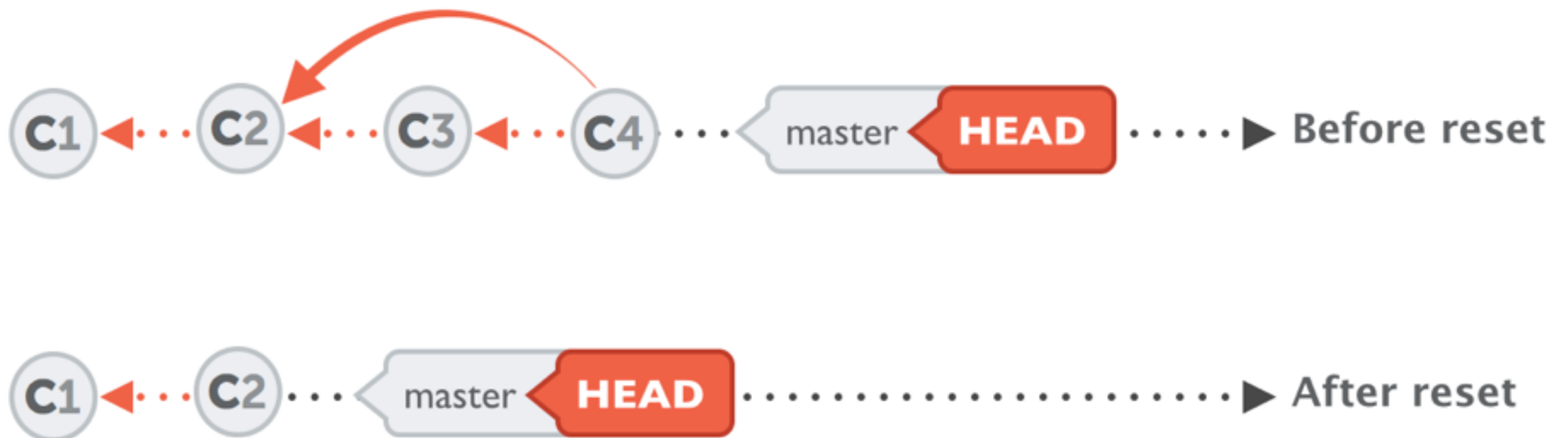
Revert

\$git **revert** <commit>



Reset

`$git reset <commit>`



Restore files

```
$touch for_delete
```

```
$git add .
```

```
$git commit
```

```
$rm for_delete
```

Restore files

\$git status

On branch master

Changes not staged for commit:

(use "git add/rm <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

deleted: for_delete

no changes added to commit (use "git add" and/or "git commit -a")

try to restore file for_delete !!

Restore files again !!

`$rm for_delete`

`$git add for_delete`

Restore files again !!

```
$git status
```

```
On branch master  
Changes to be committed:  
  (use "git reset HEAD <file>..." to unstage)
```

```
    deleted:    for_delete
```

try to restore file for_delete !!

Restore files again !!

```
$git reset HEAD for_delete
```

```
$git checkout -- for_delete
```

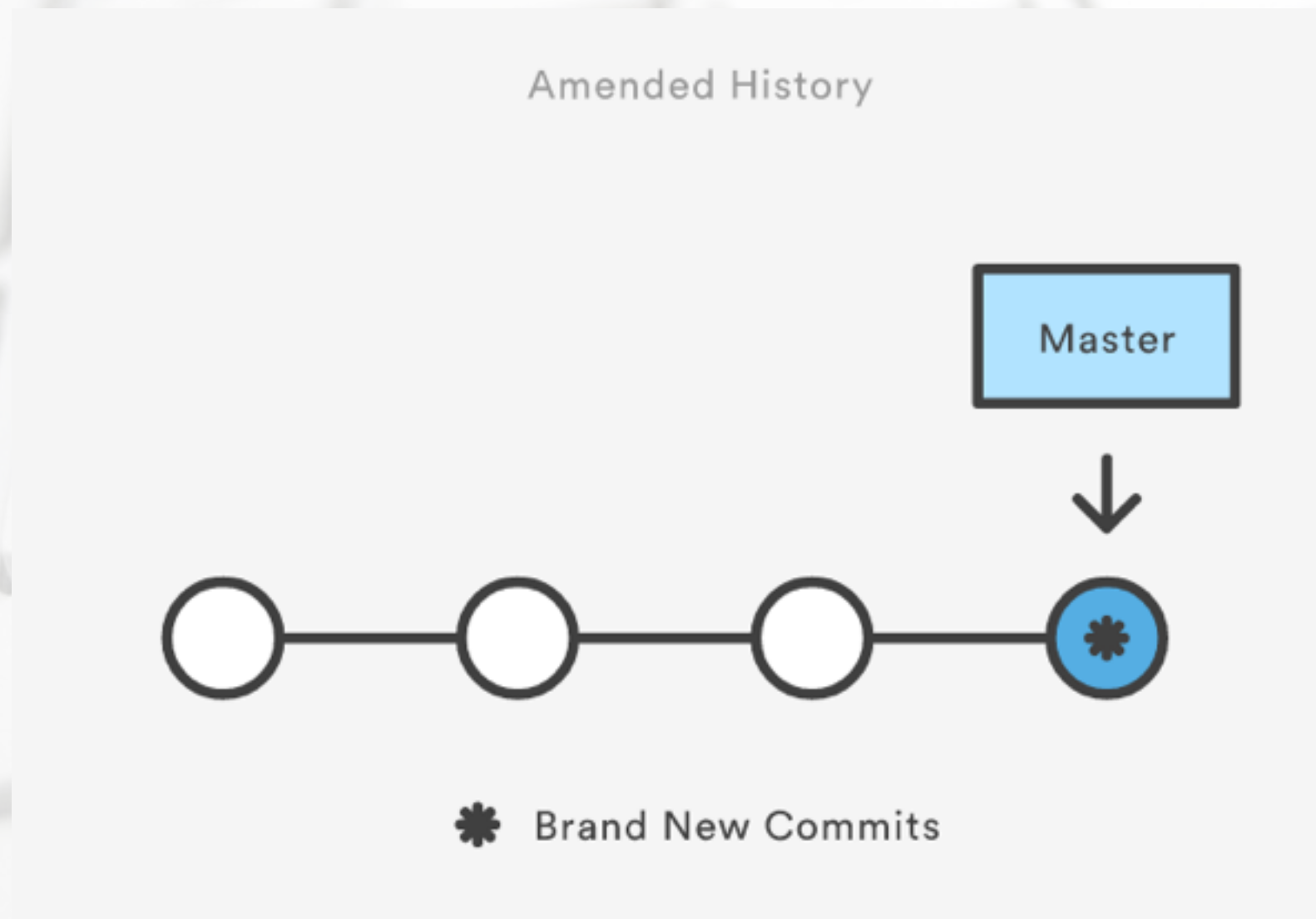
Restore files in one line

`$git reset --hard HEAD`



Working with commit

\$git **commit --amend**



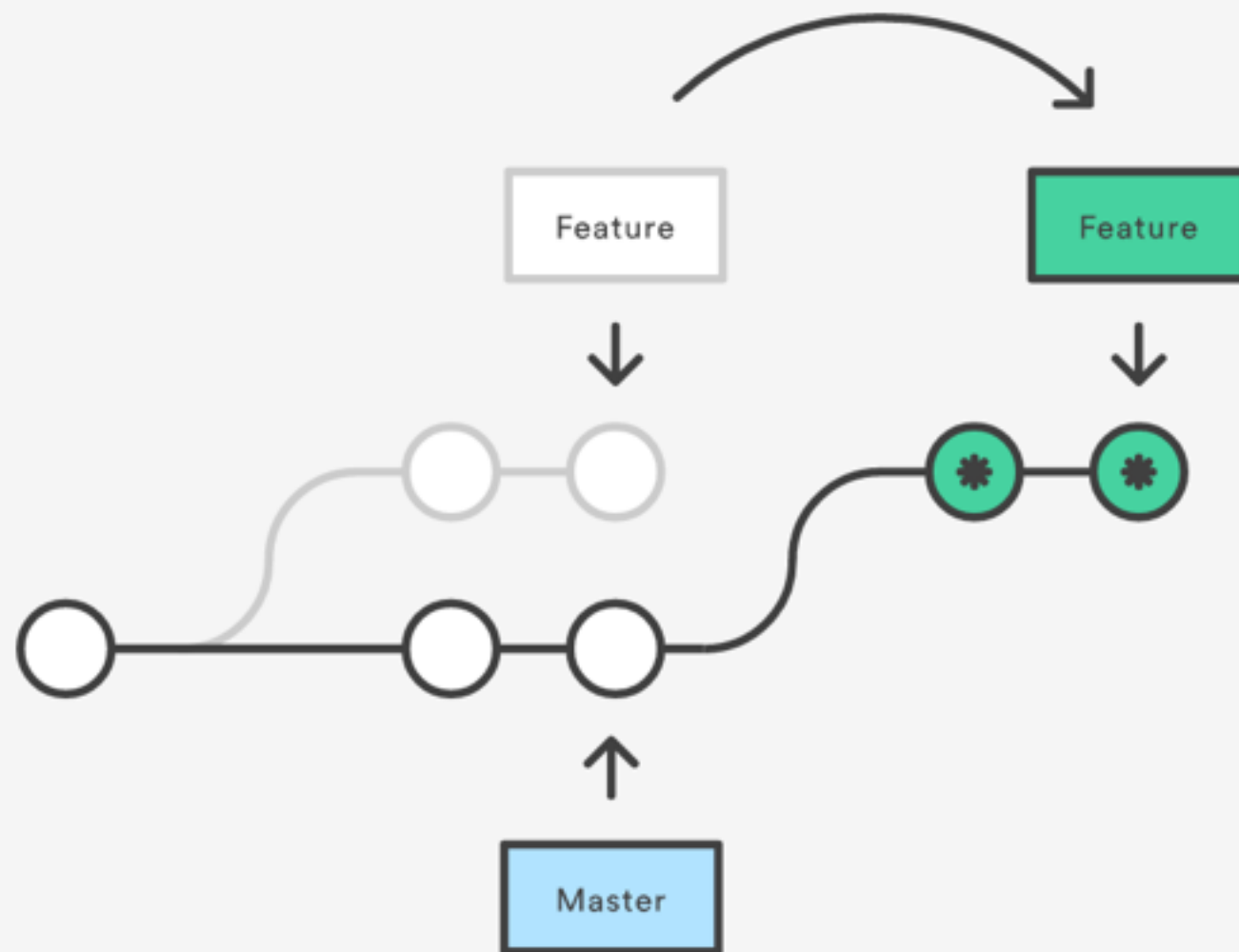
Without changing commit message

```
$git commit --amend --no-edit
```



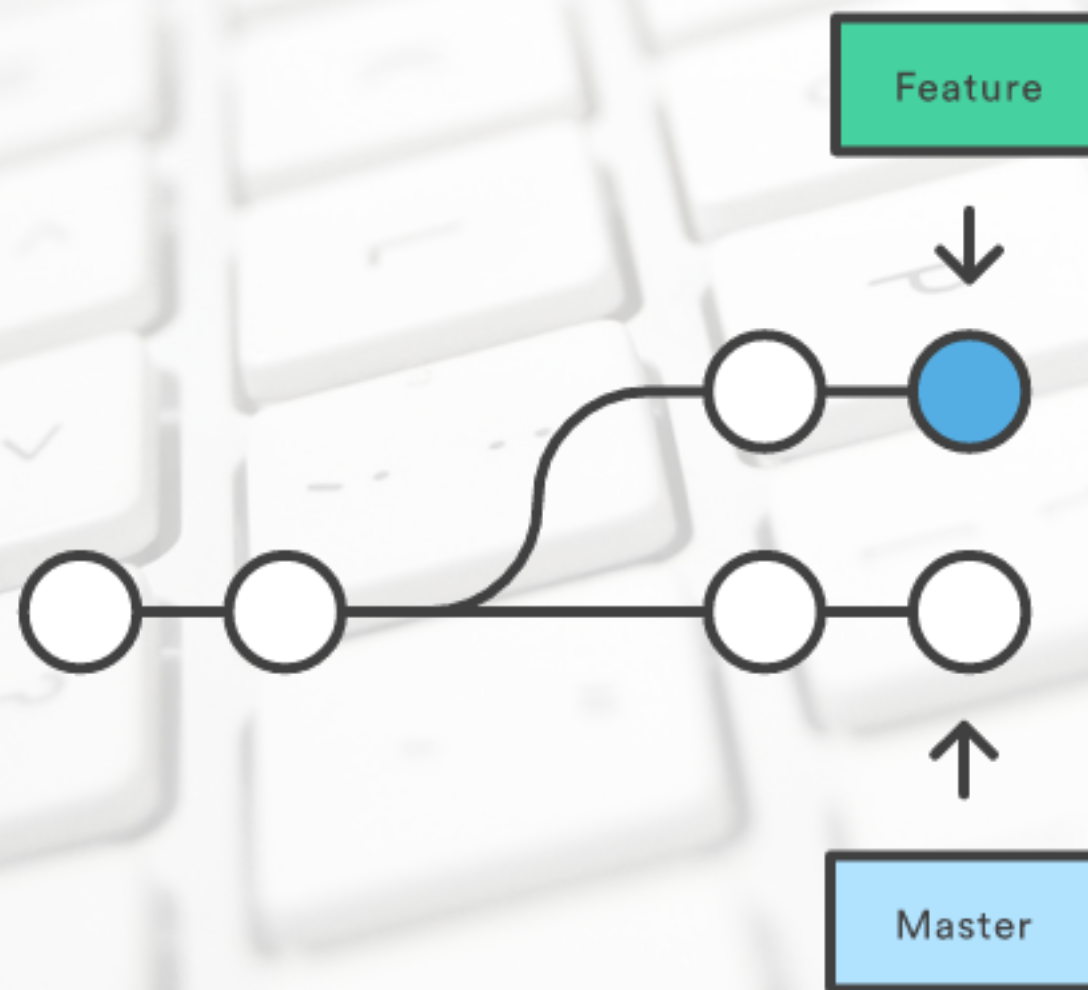
Rebase

`$git rebase <base>`

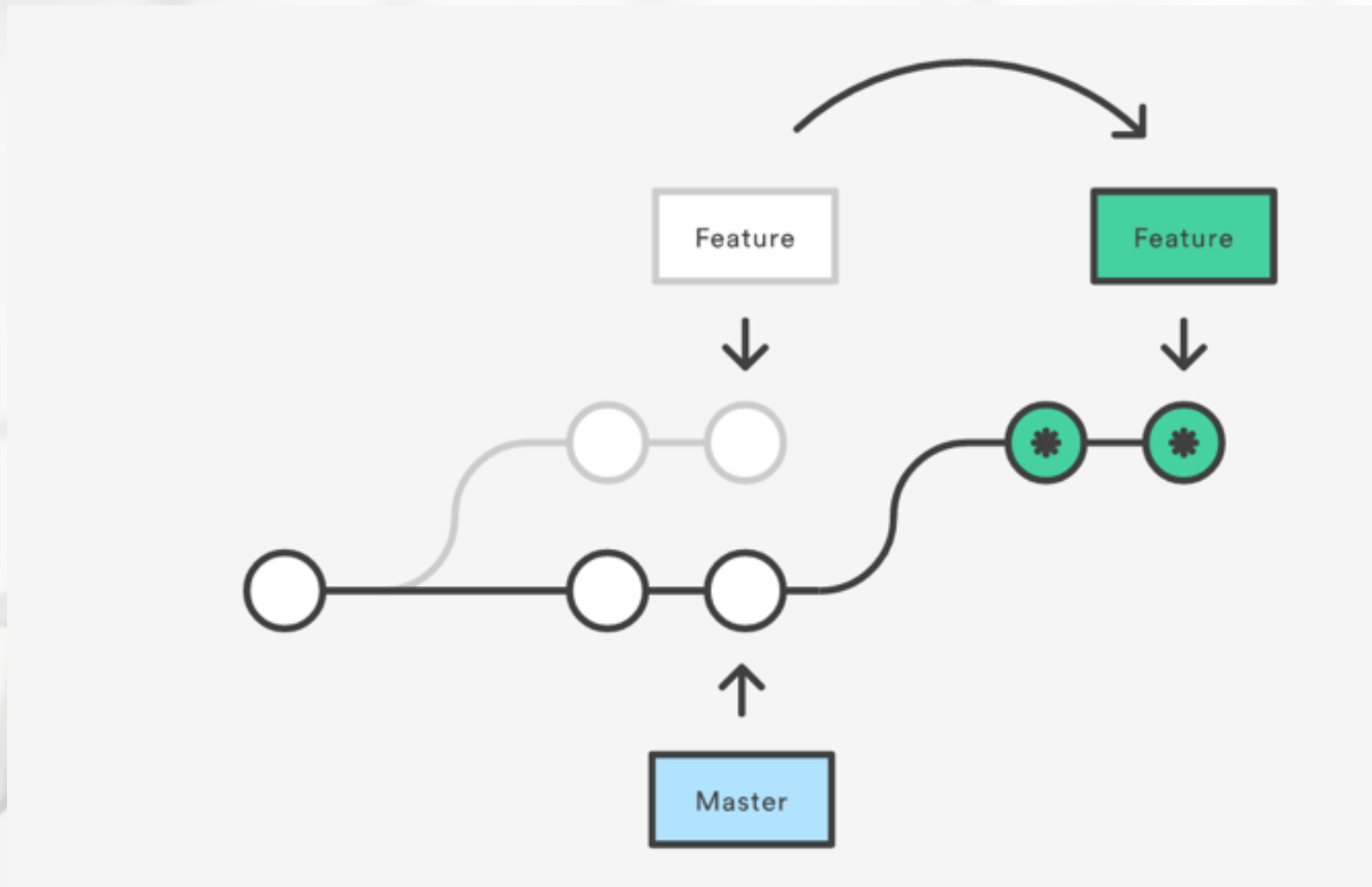


Workshop Rebase

try by yourself



1. Rebase feature to master



Workshop Rebase

\$git **checkout feature**

\$git **rebase master**



2. Merge to master



Workshop Rebase

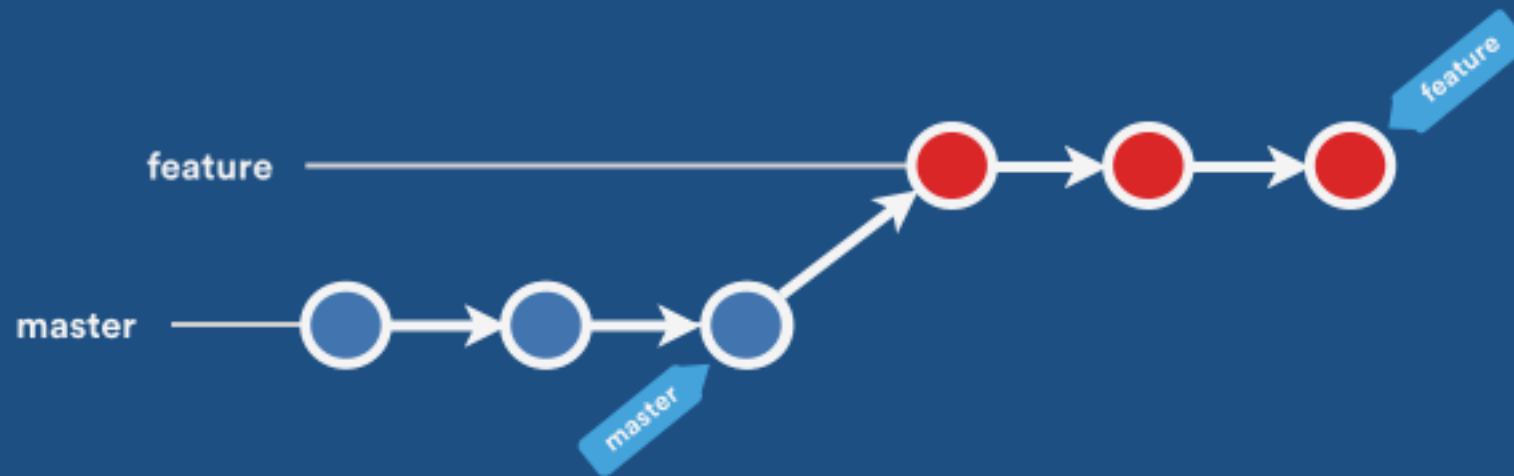
```
$git checkout master
```

```
$git merge feature
```


Squash

What is squash on merge?

It will compact feature commits into one before merging

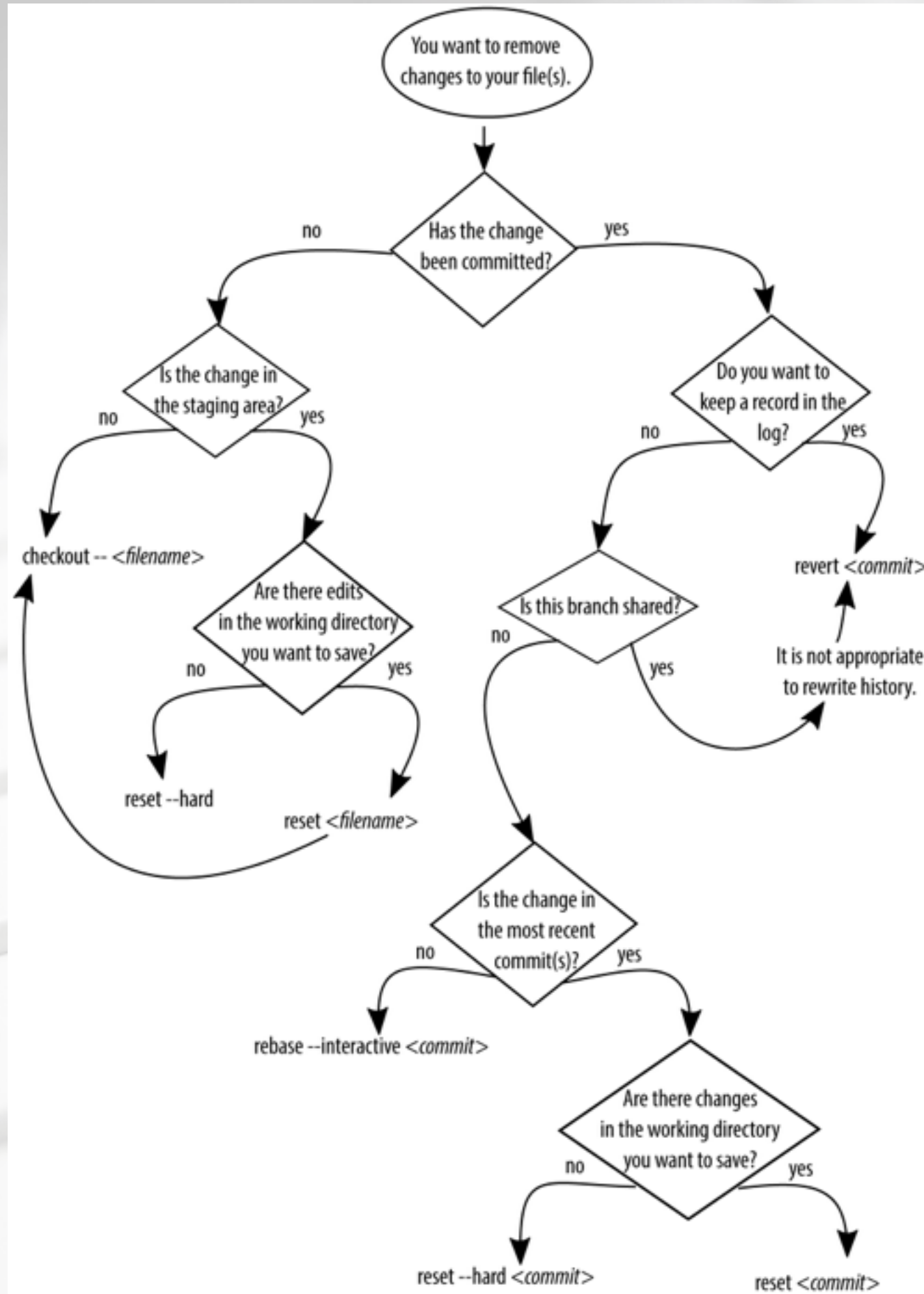


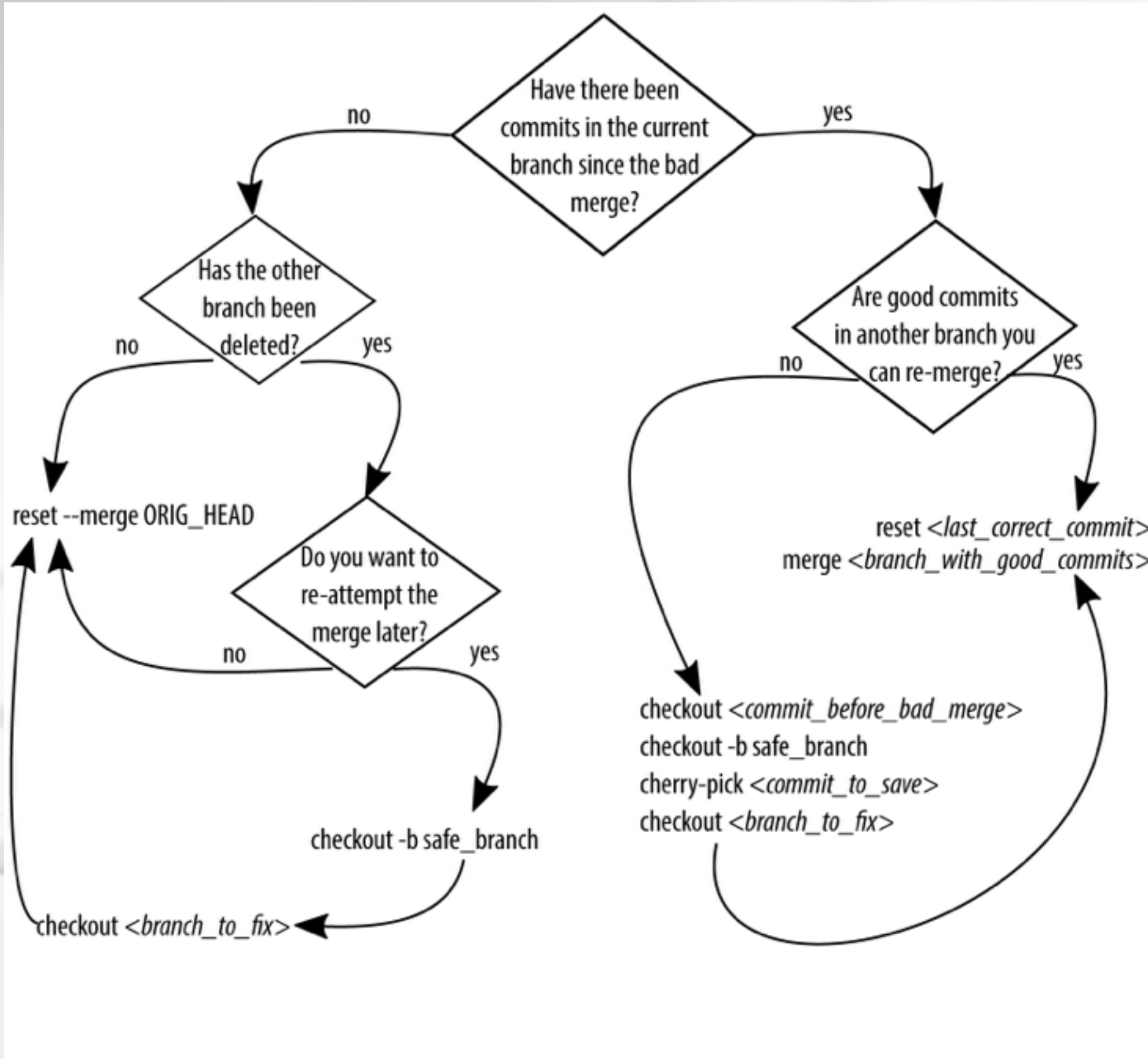
Squash

What is squash on merge?

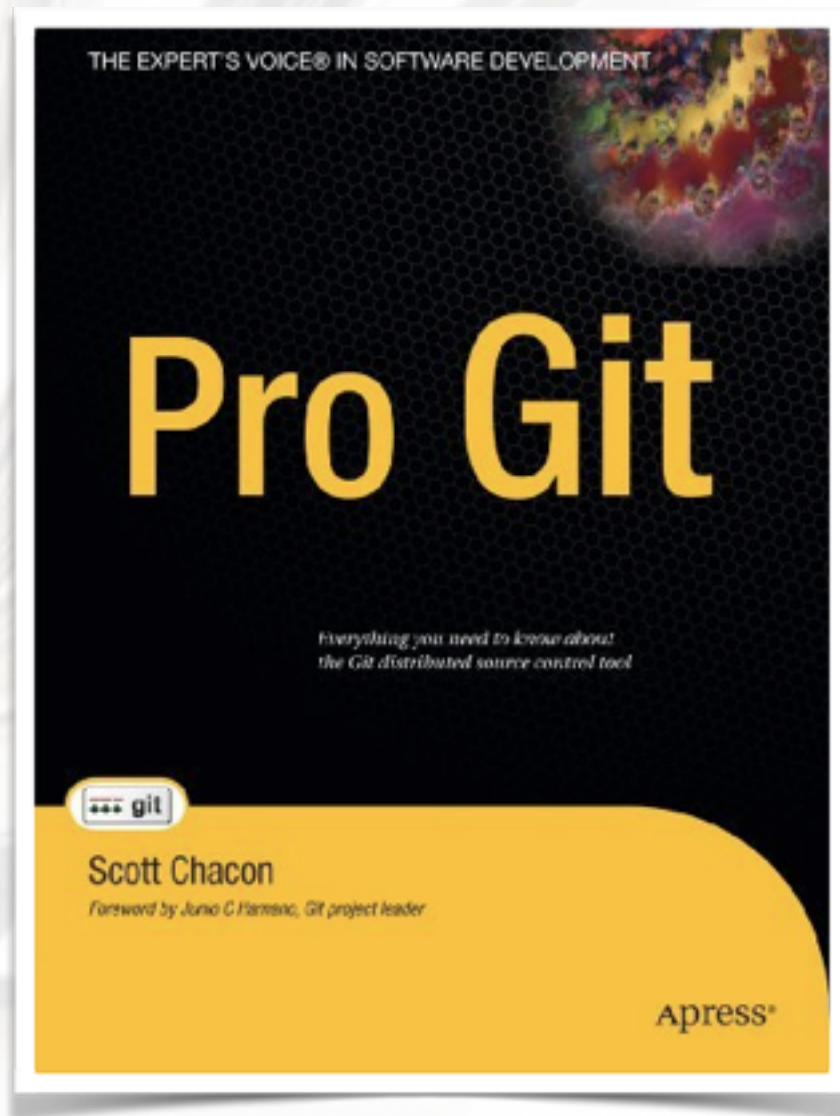
It will compact feature commits into one before merging







Books to Read and Practice



<http://www.git-scm.com/book/en/v2>



<http://shop.oreilly.com/product/0636920034520.do>