



**<https://github.com/magnusstahre/slides>**

**<https://goo.gl/BYCED1>**

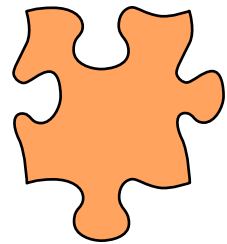
# **git gone wild That Conference 2017**

**Magnus Stahre**  
**@magnusstahre**

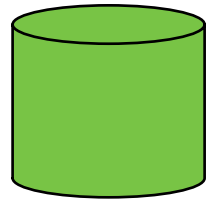


**Thank you, sponsors!**

# Object types



blob



tree

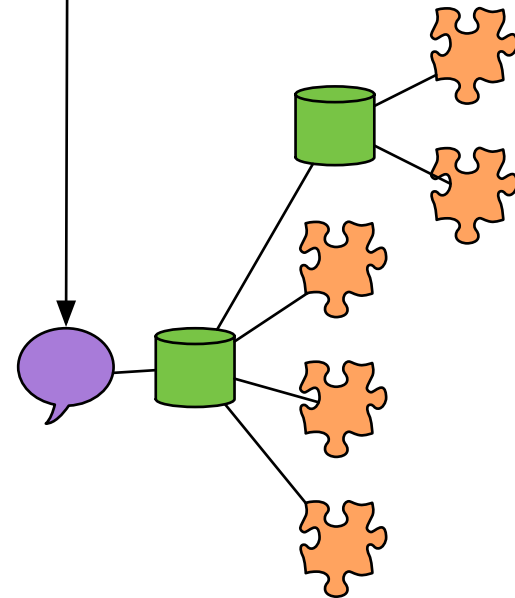
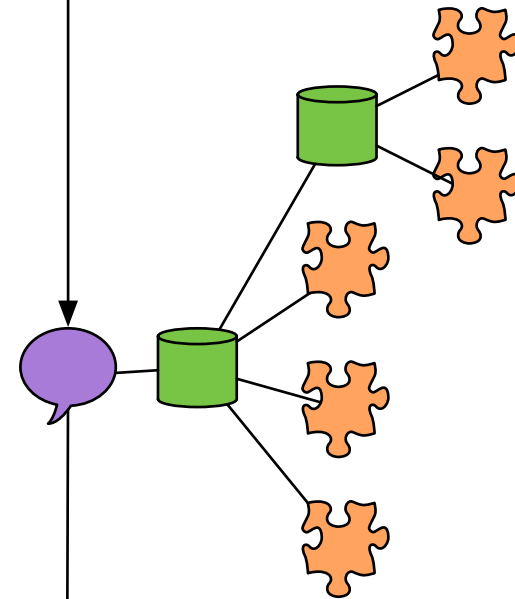
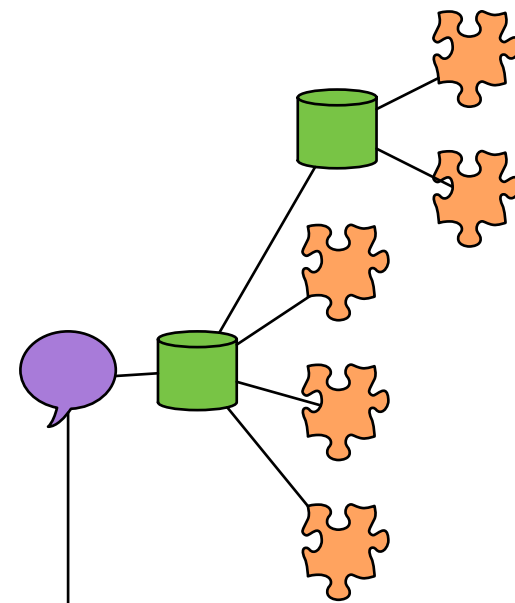


commit



ref (branch)

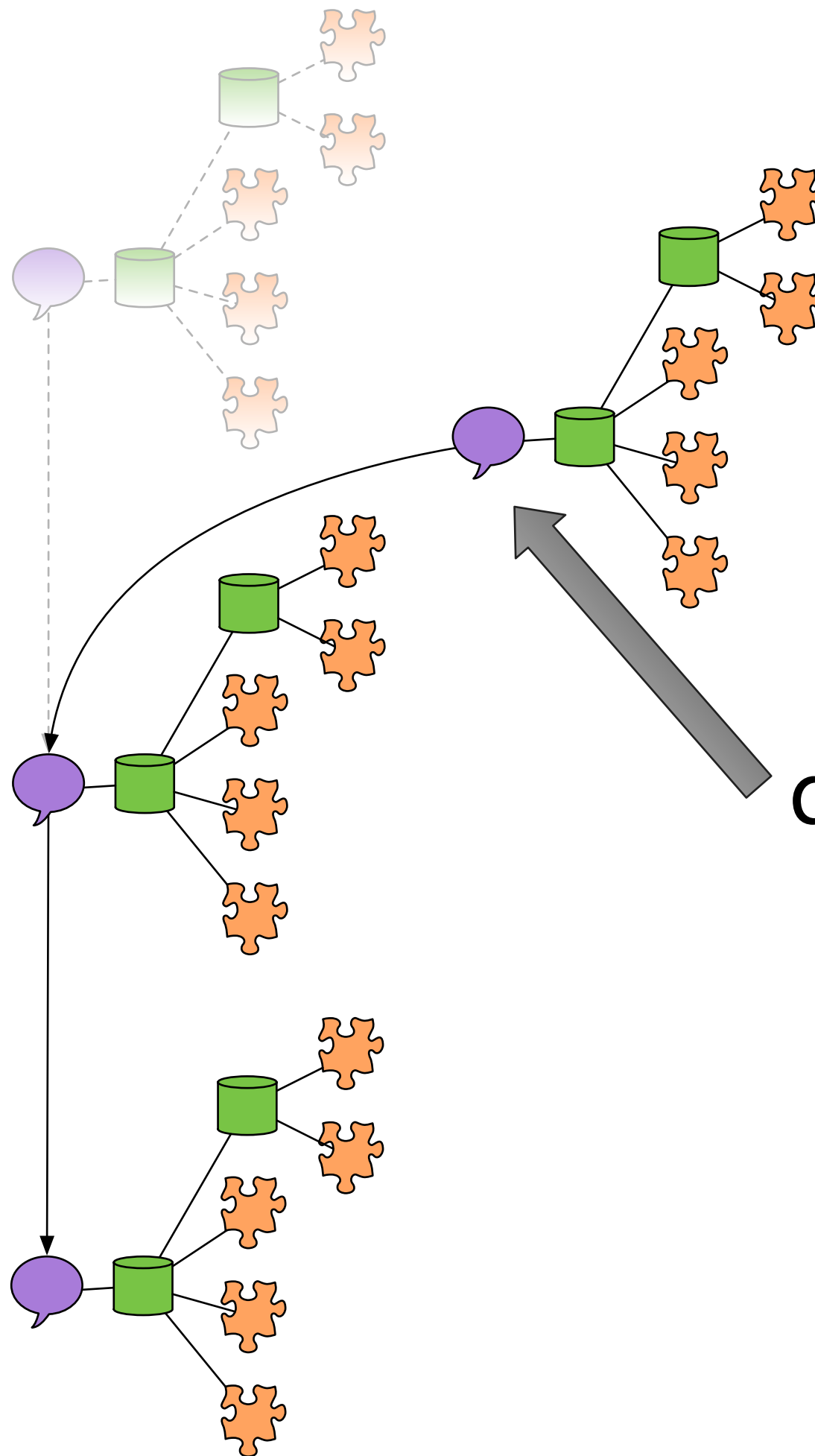
develop



master



master



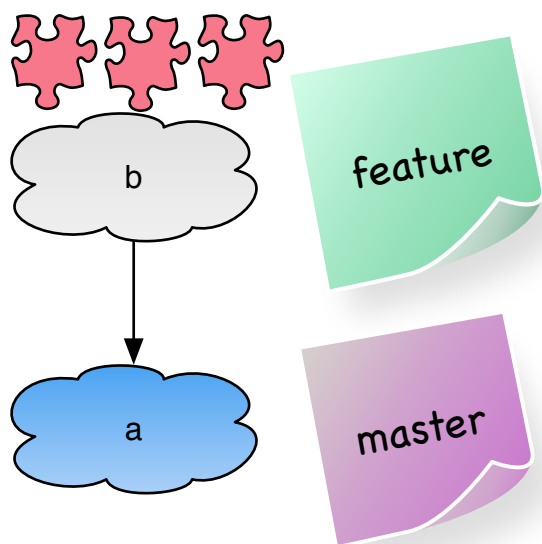
develop

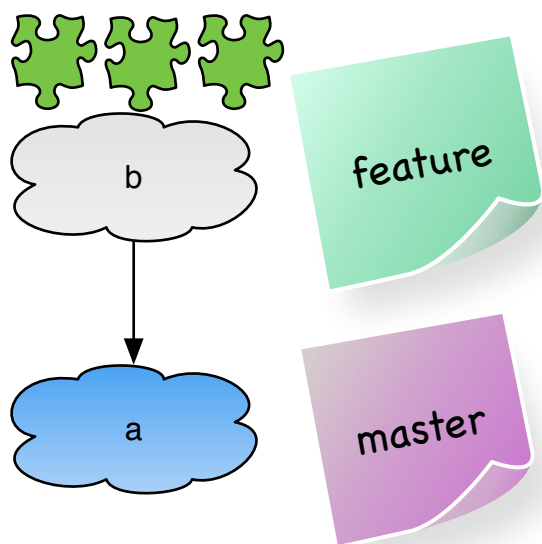
**The .git folder:  
Here be dragons.**



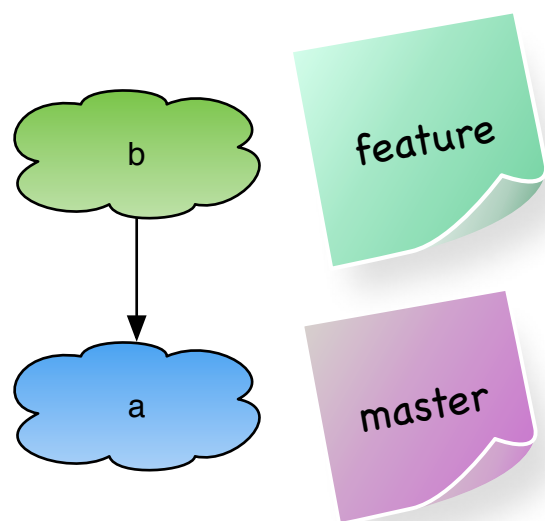
**Scenario:**  
**Add missing files**







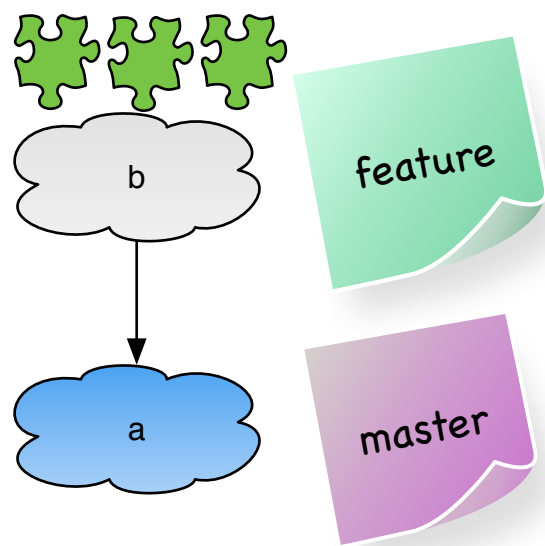
```
$ git add ...
```

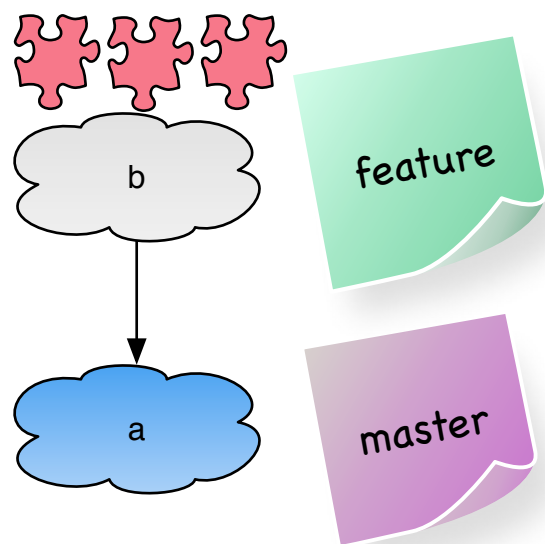


```
$ git add ...  
$ git commit --amend
```

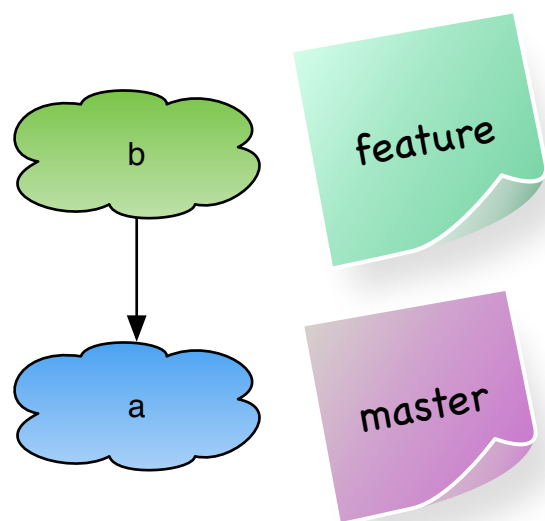
**Scenario:**

**Remove files added by mistake**





```
$ git rm --cached ...
```



```
$ git rm --cached ...  
$ git commit --amend
```

**Scenario:**  
**Avoid adding passwords**

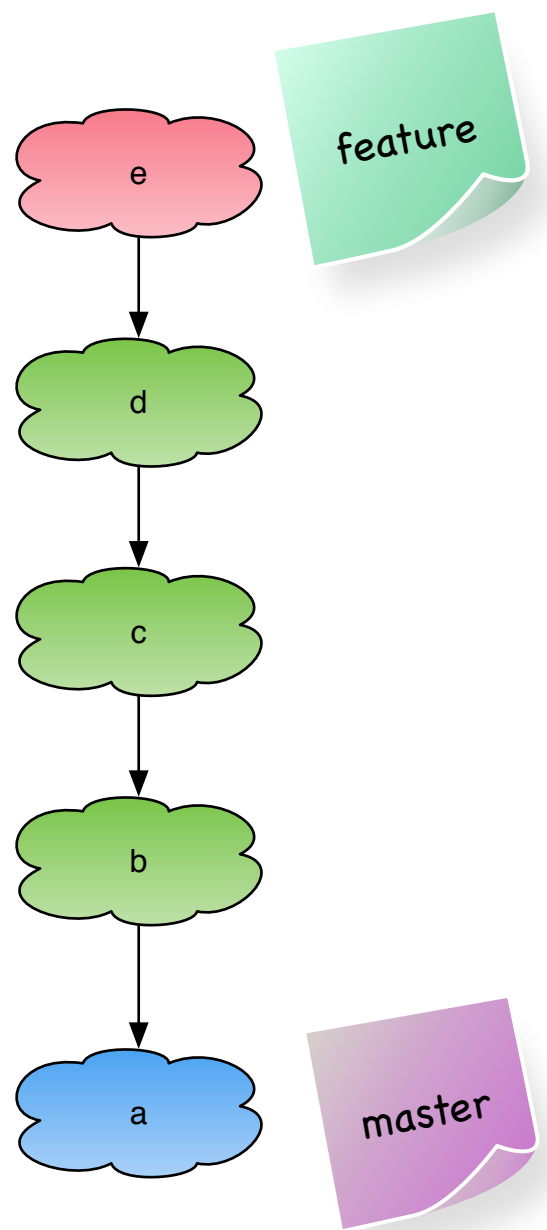


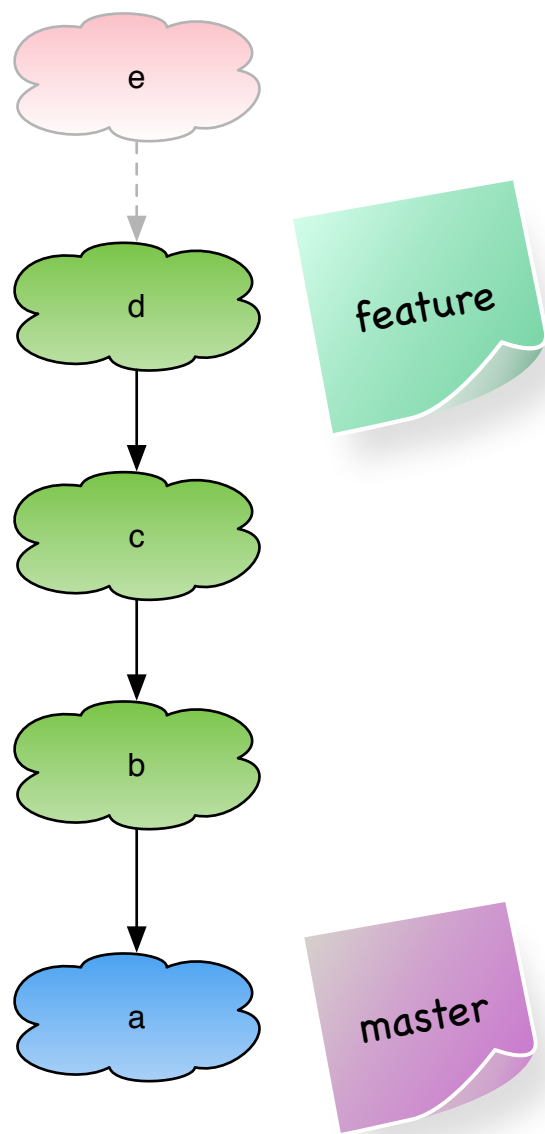
```
$ echo 'passwordfile' >> .gitignore
```

```
$ echo 'passwordfile' >> .gitignore
```

```
$ git update-index --assume-unchanged 'configfile'
```

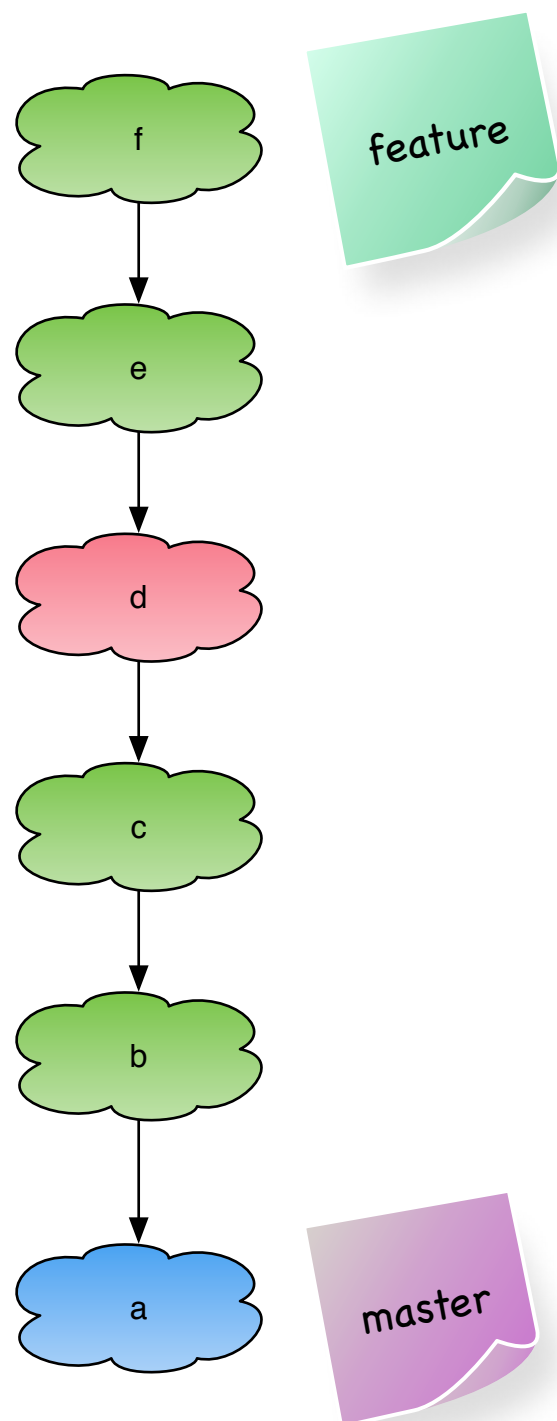
**Scenario:**  
**Delete top commit**

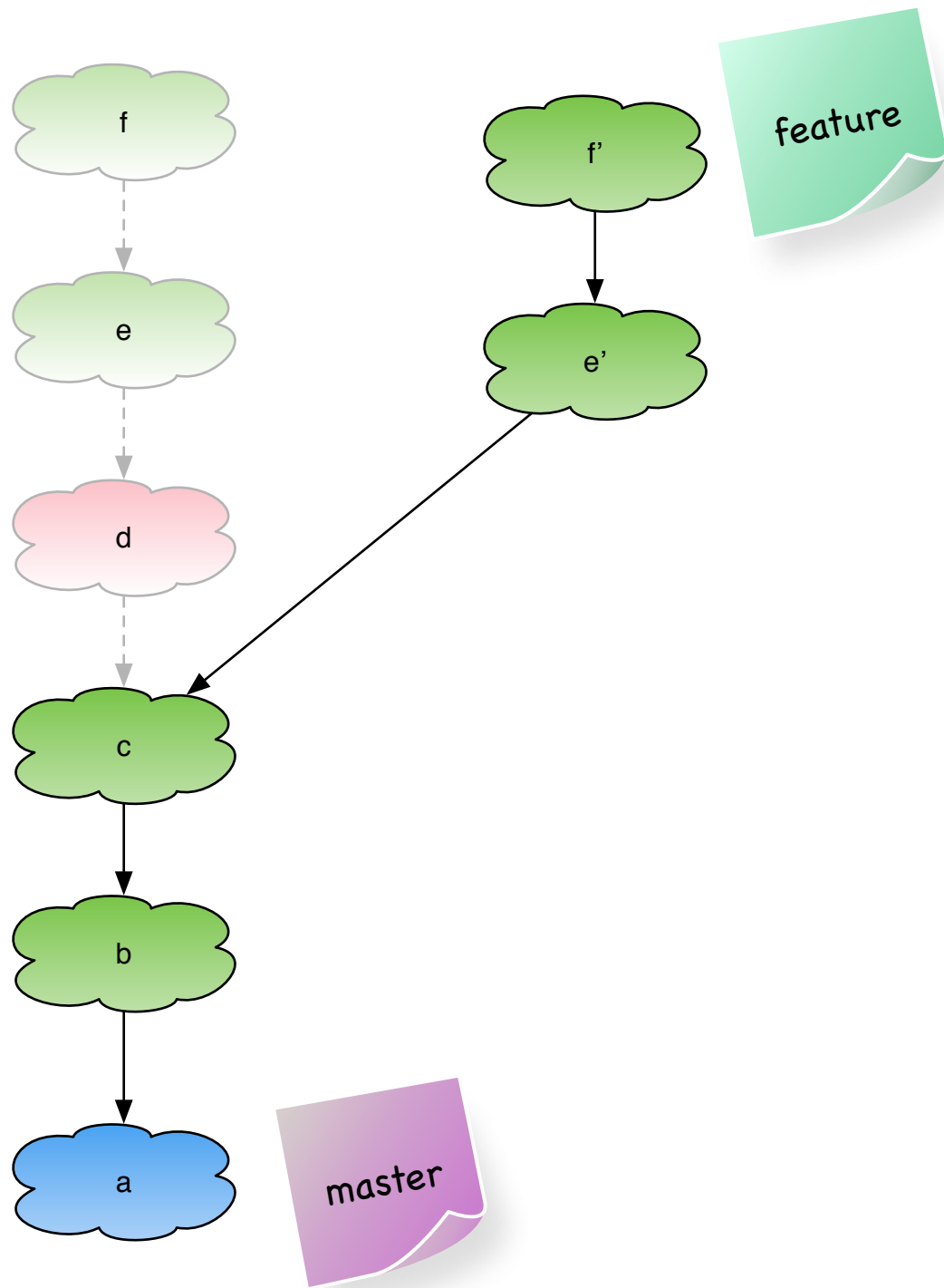




```
$ git reset --hard HEAD~
```

**Scenario:**  
**Delete previous commit**

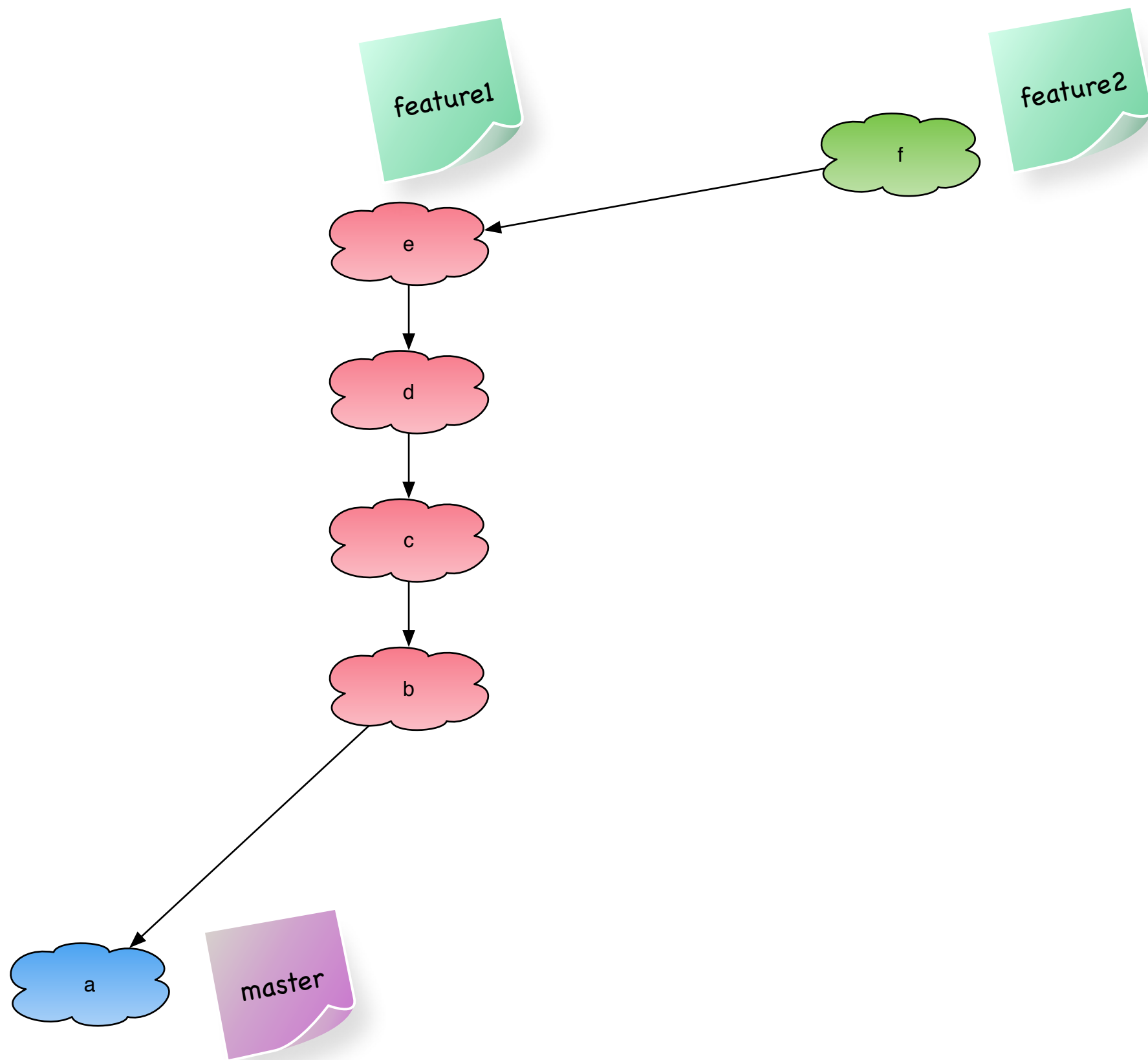


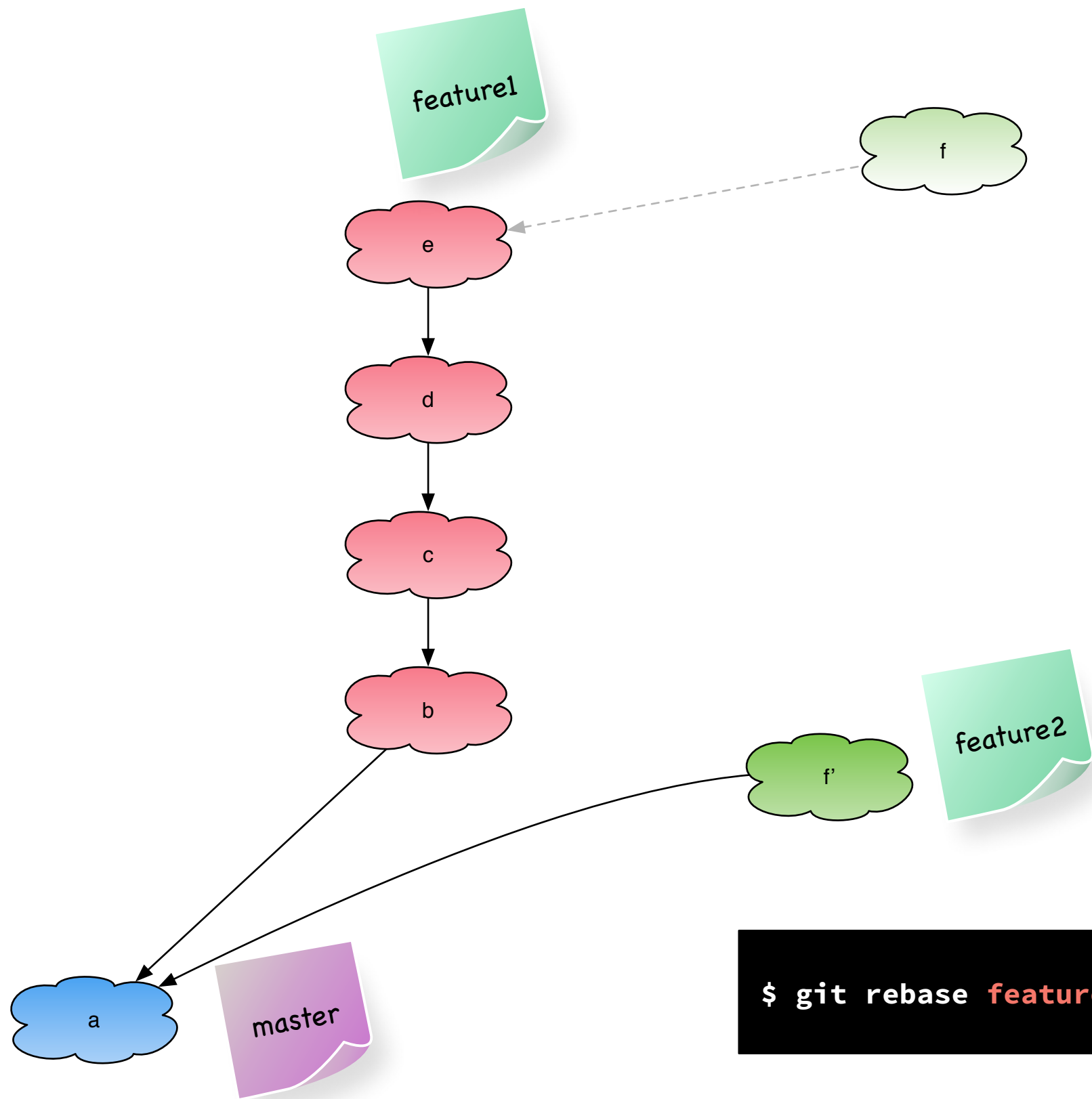


```
$ git rebase d --onto d~
```



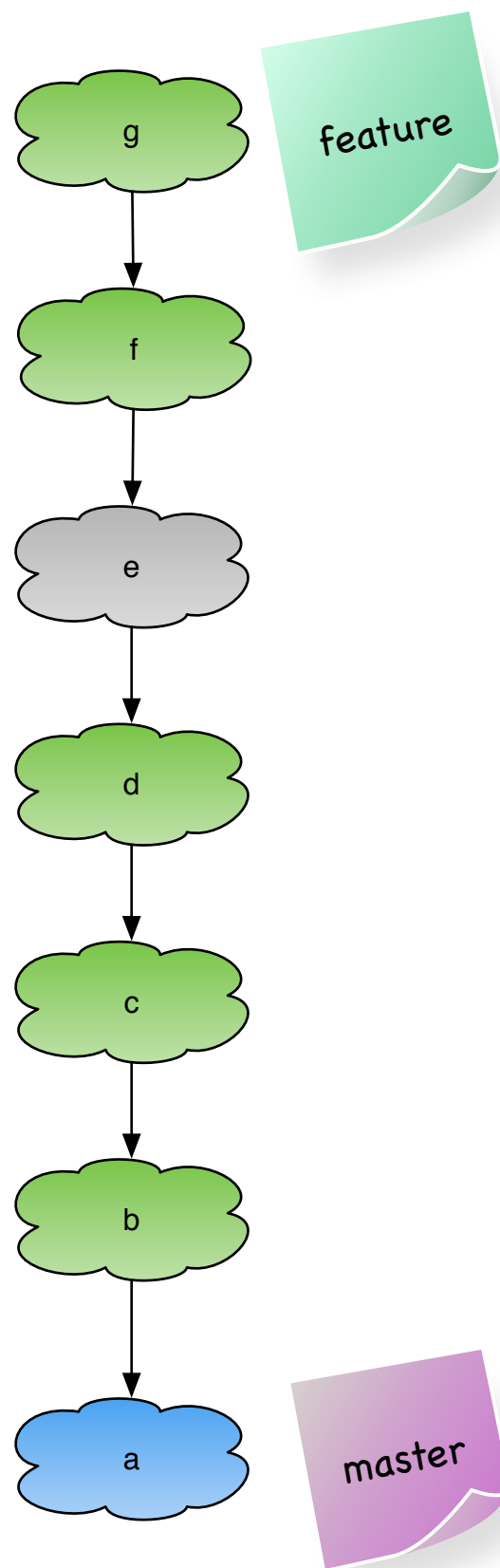
**Scenario:**  
**Fix wrong base for feature**

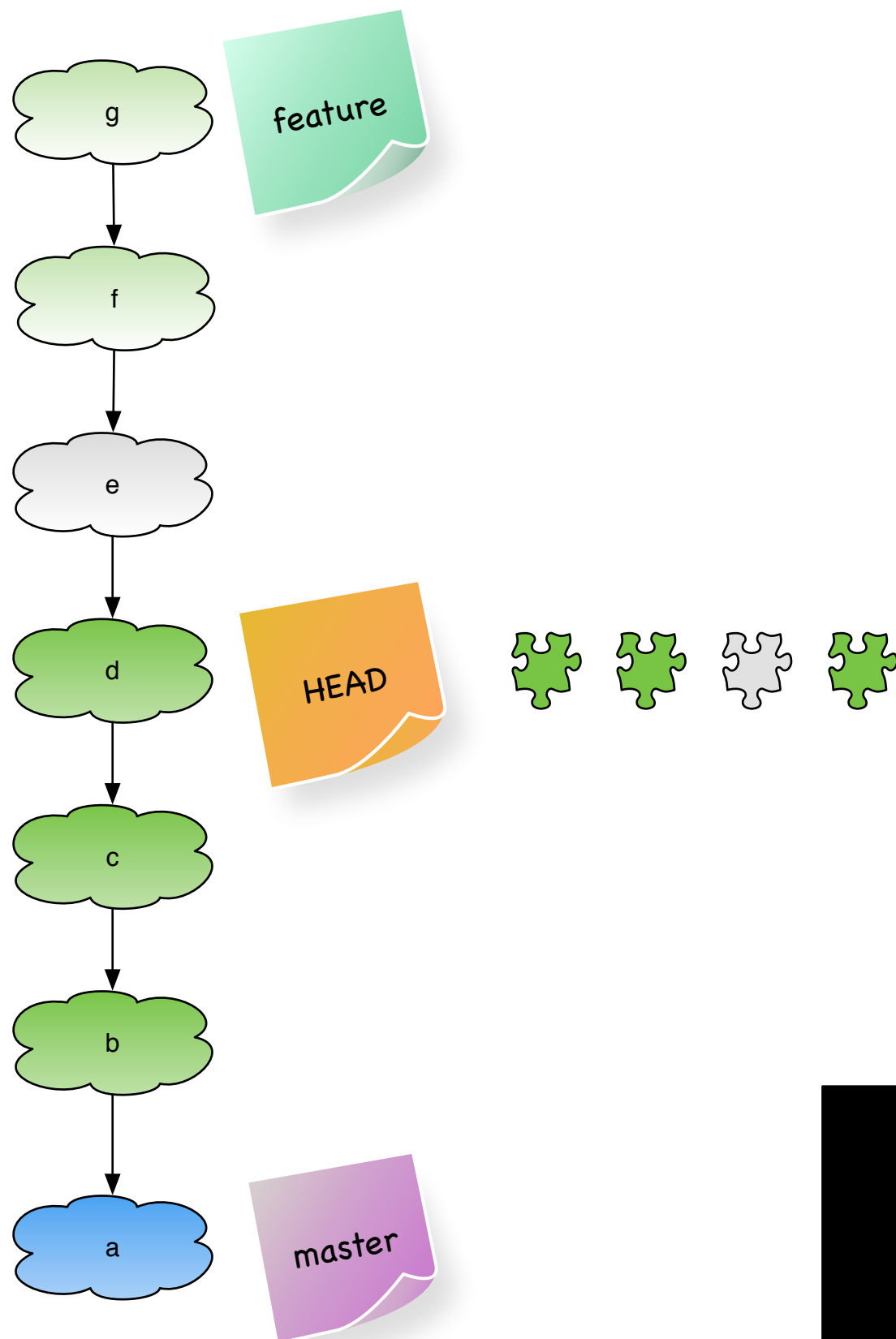




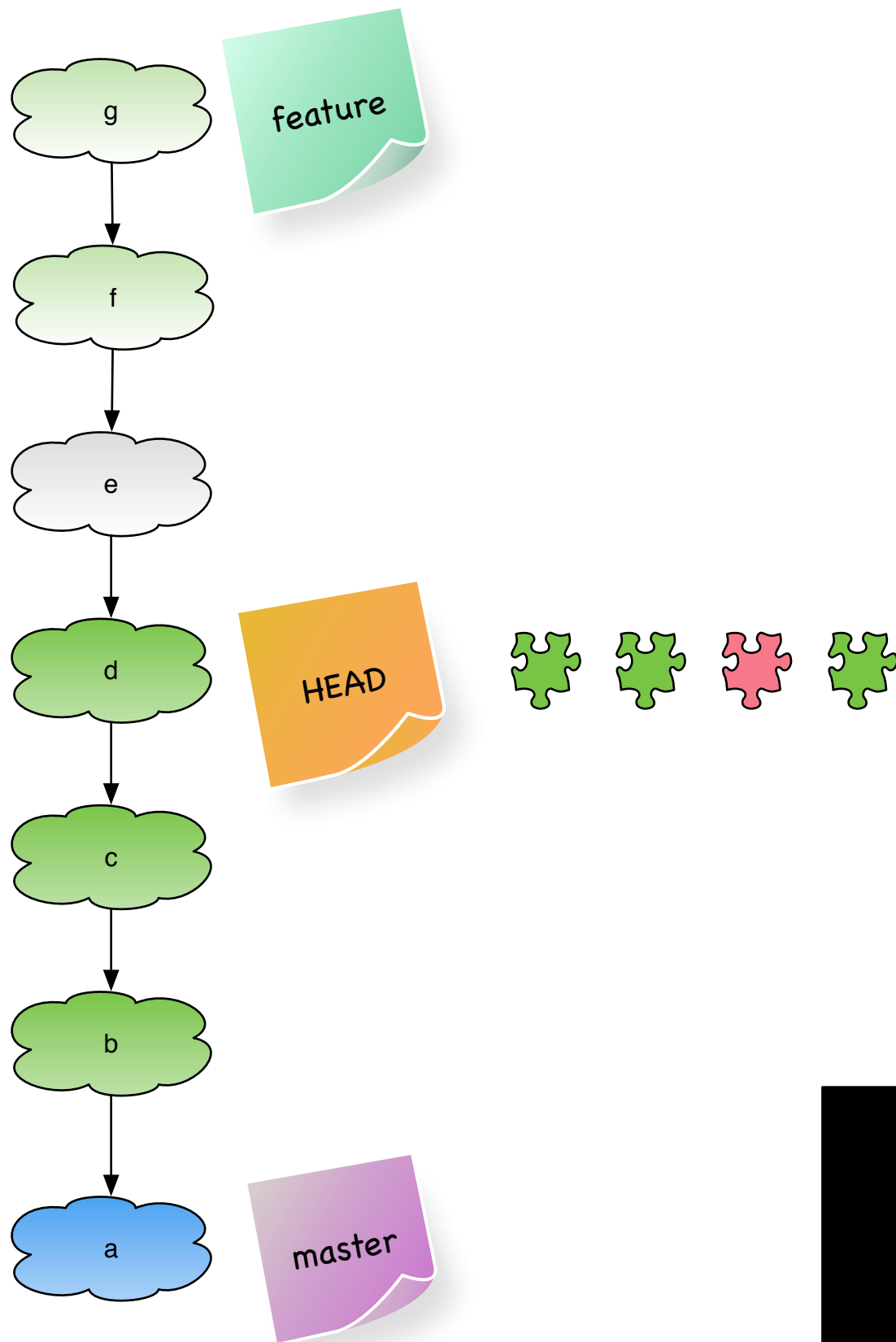
```
$ git rebase feature1 --onto master
```

**Scenario:**  
**Amend a previous commit**

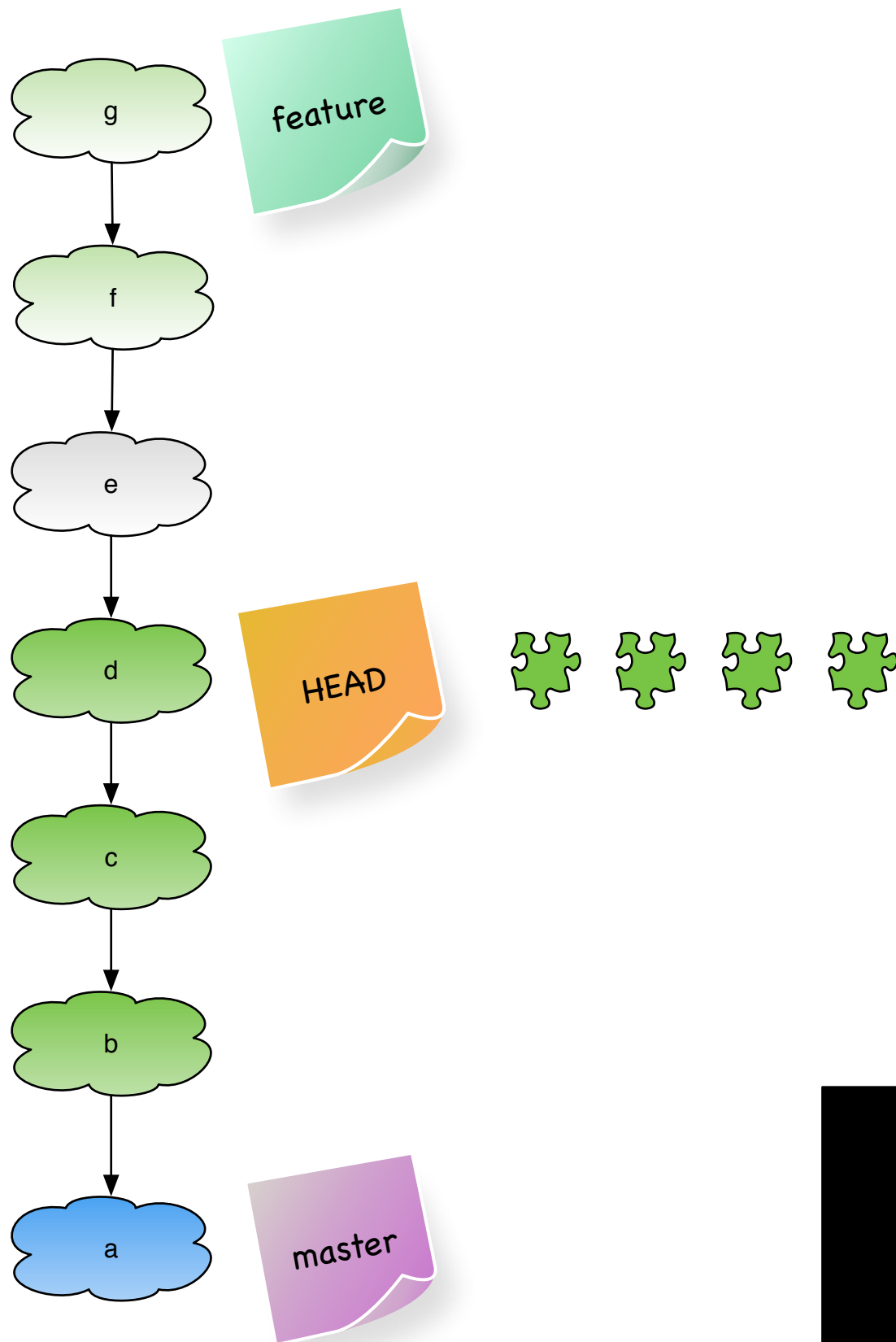




```
$ git rebase -i e~
```

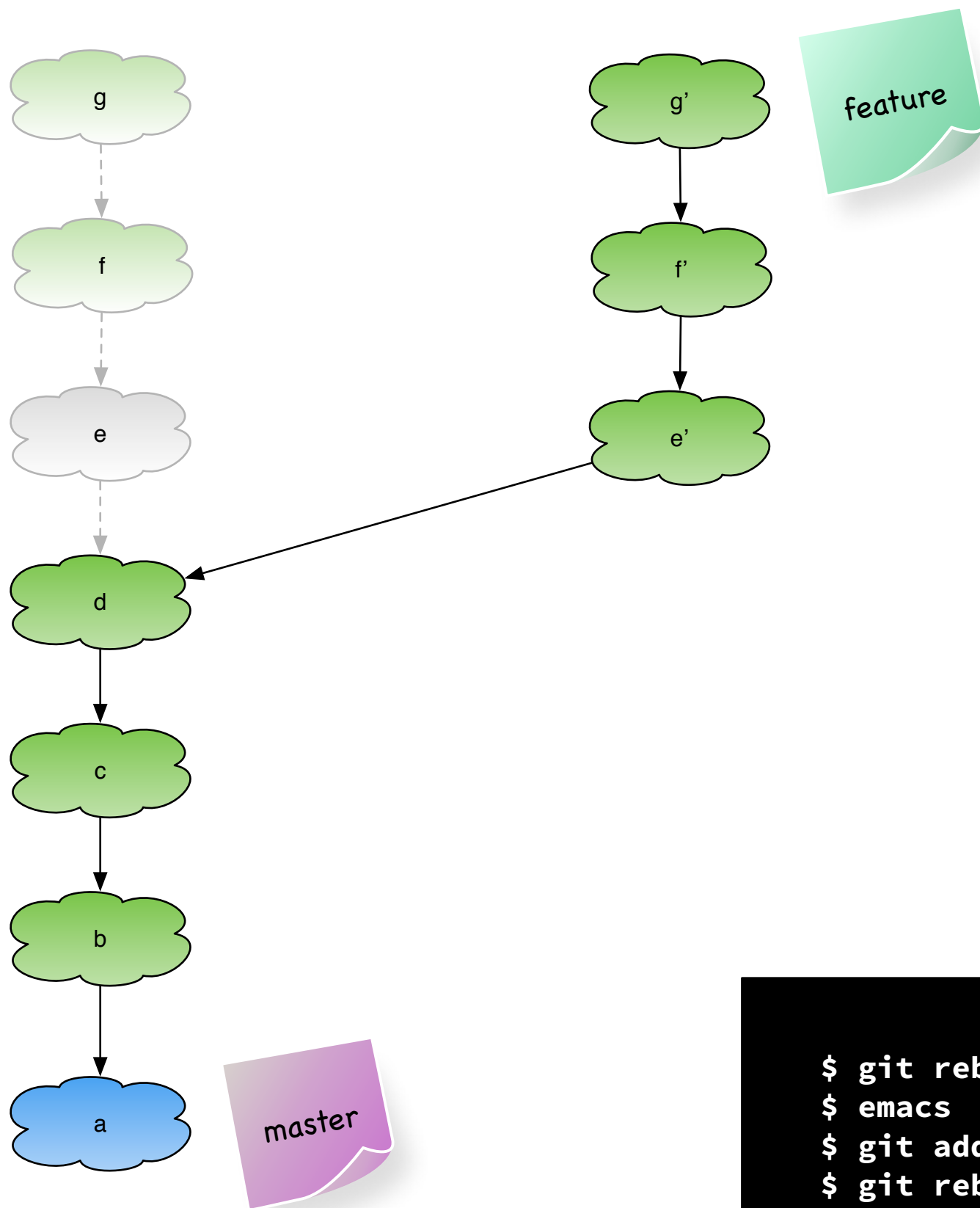


```
$ git rebase -i e~  
$ emacs
```



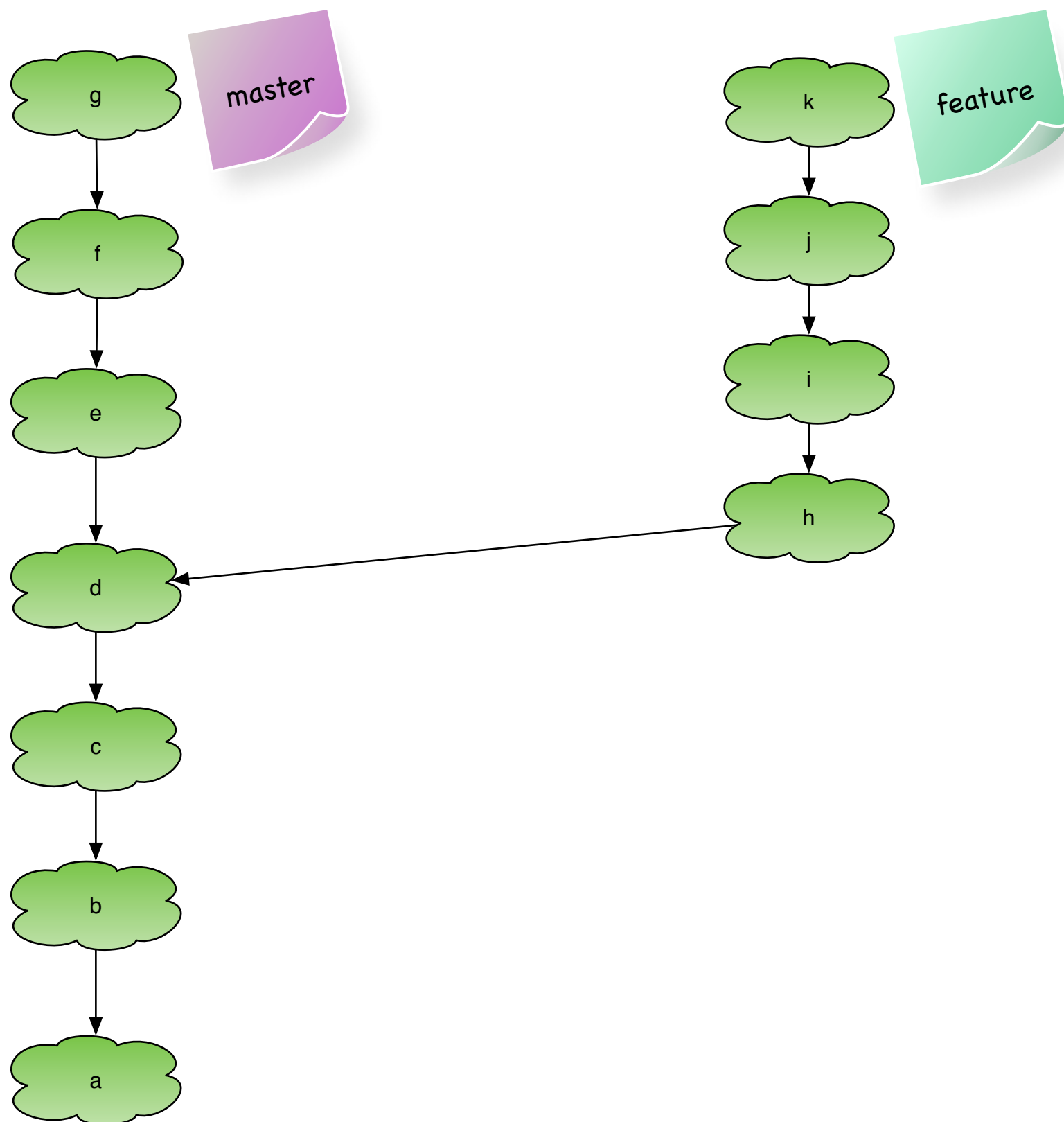
```
$ git rebase -i e~  
$ emacs  
$ git add ...
```

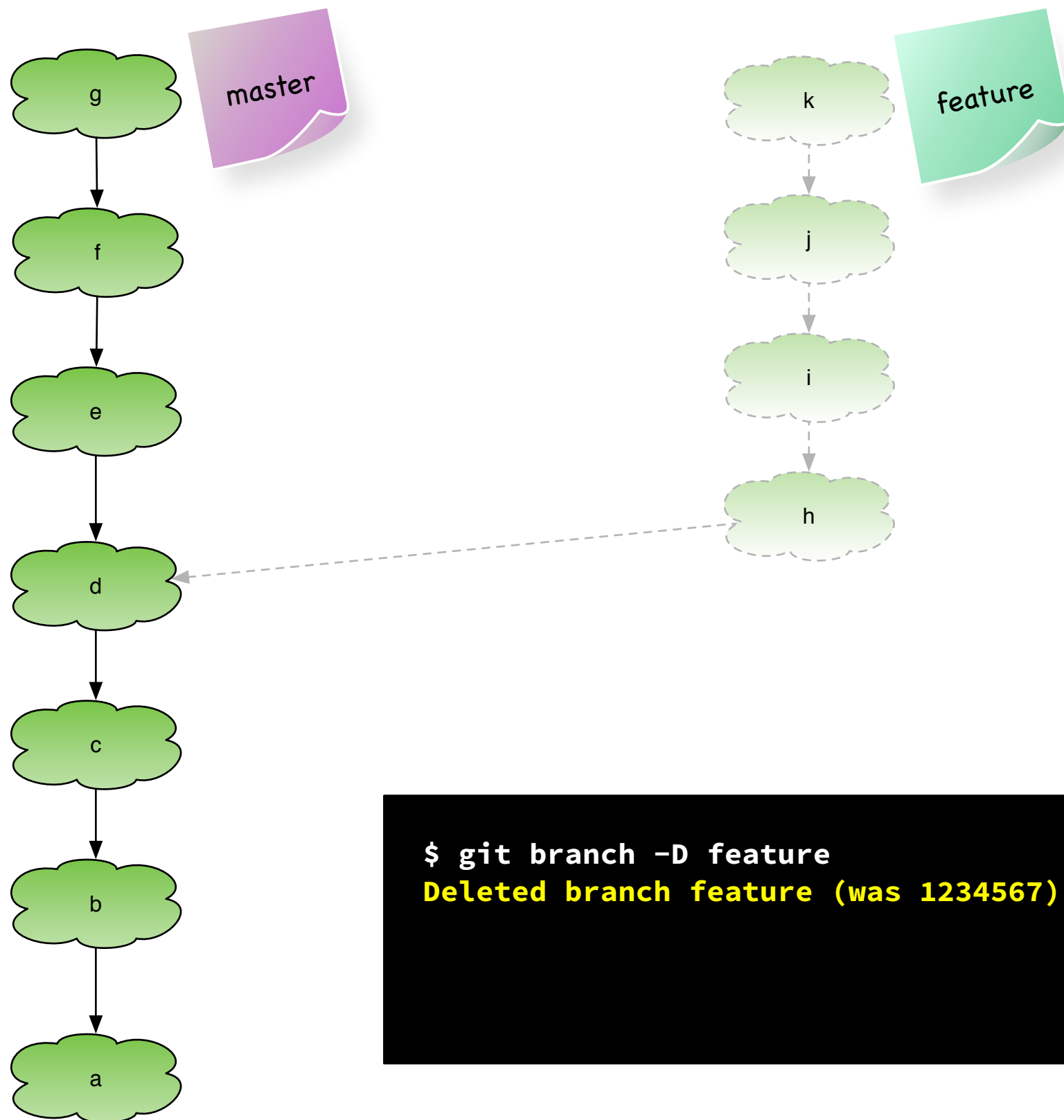




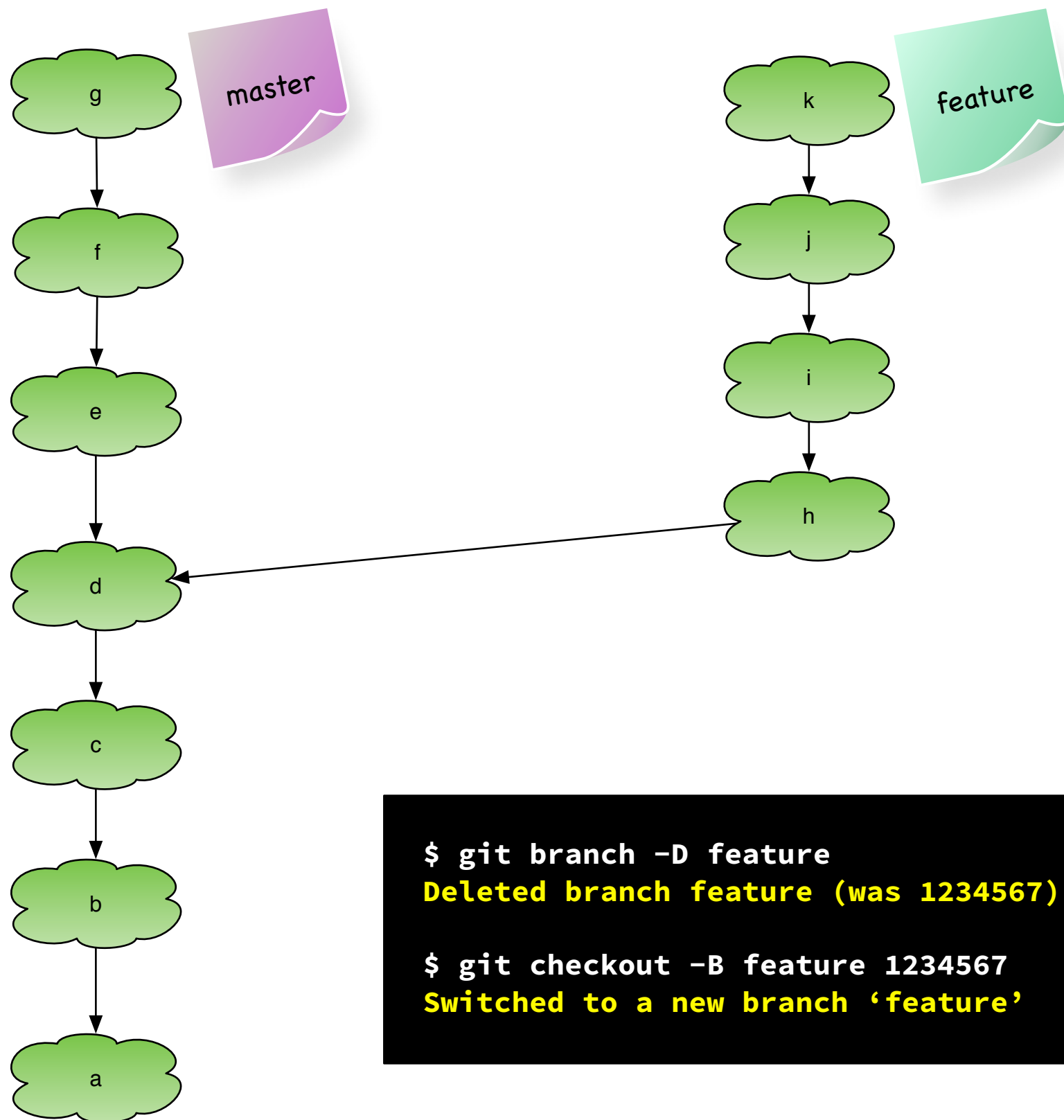
```
$ git rebase -i e~  
$ emacs  
$ git add ...  
$ git rebase --continue
```

**Scenario:**  
**Finding lost work**



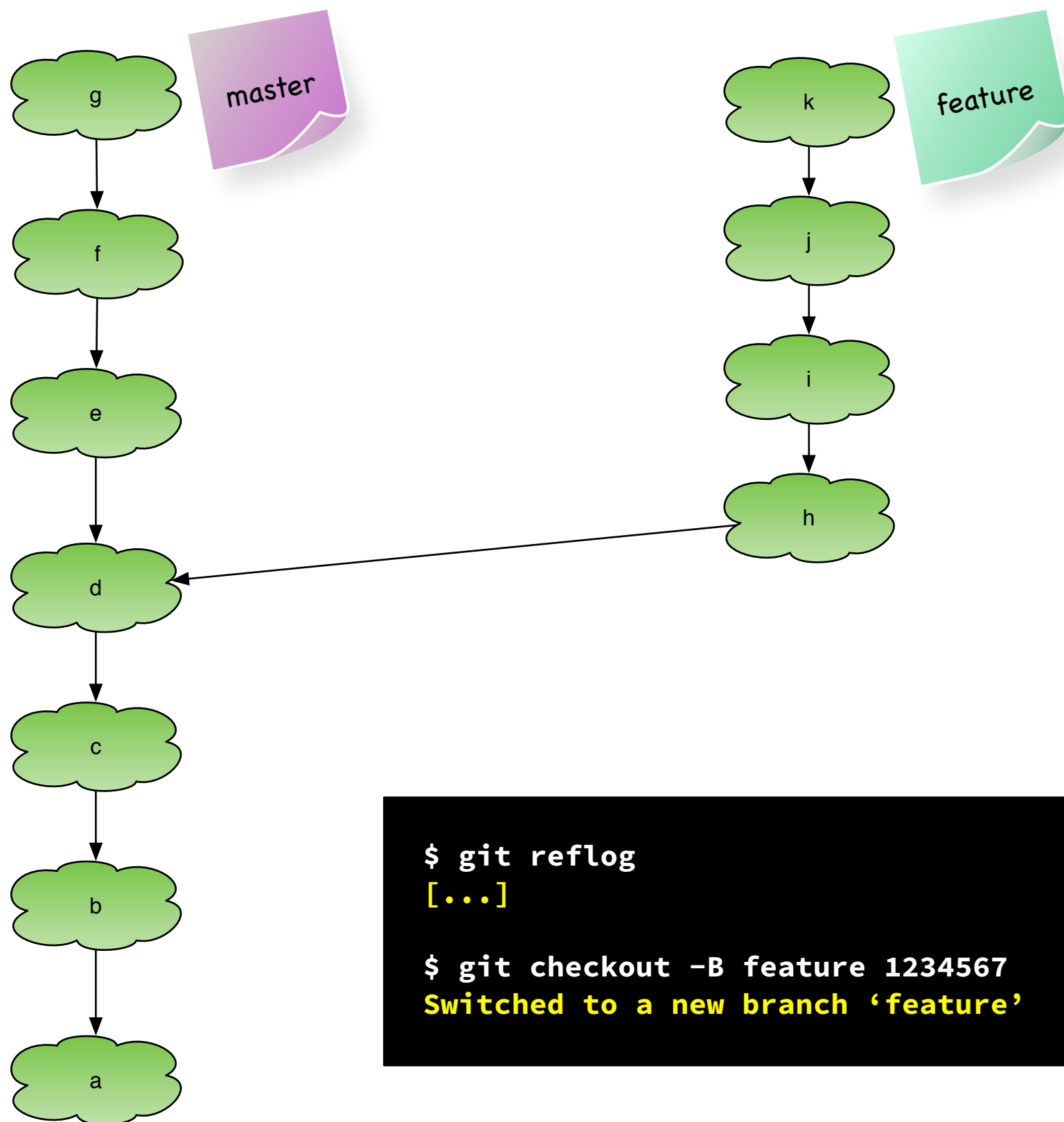


```
$ git branch -D feature  
Deleted branch feature (was 1234567).
```



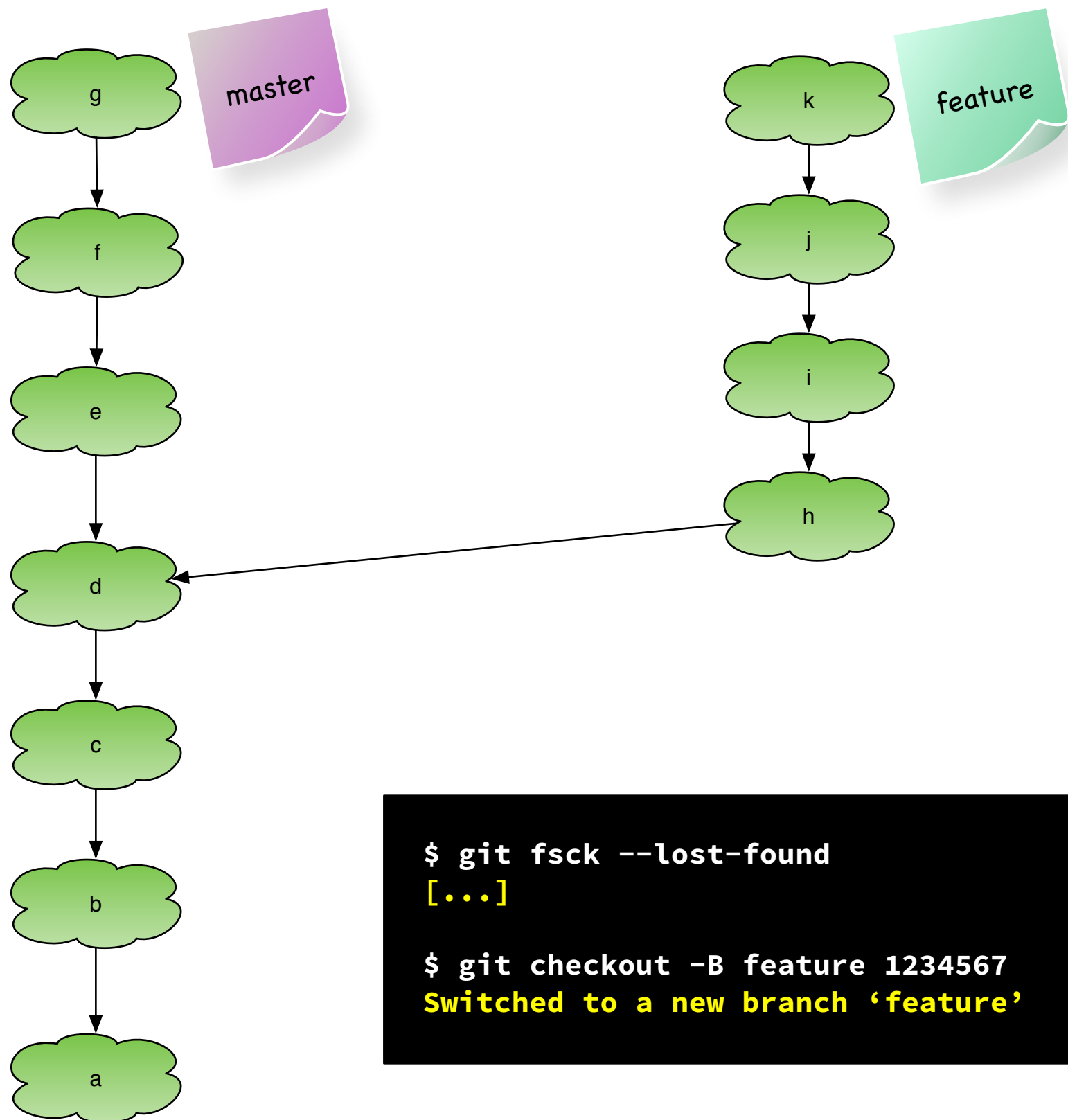
```
$ git branch -D feature  
Deleted branch feature (was 1234567).
```

```
$ git checkout -B feature 1234567  
Switched to a new branch 'feature'
```



```
$ git reflog  
[...]
```

```
$ git checkout -B feature 1234567  
Switched to a new branch 'feature'
```

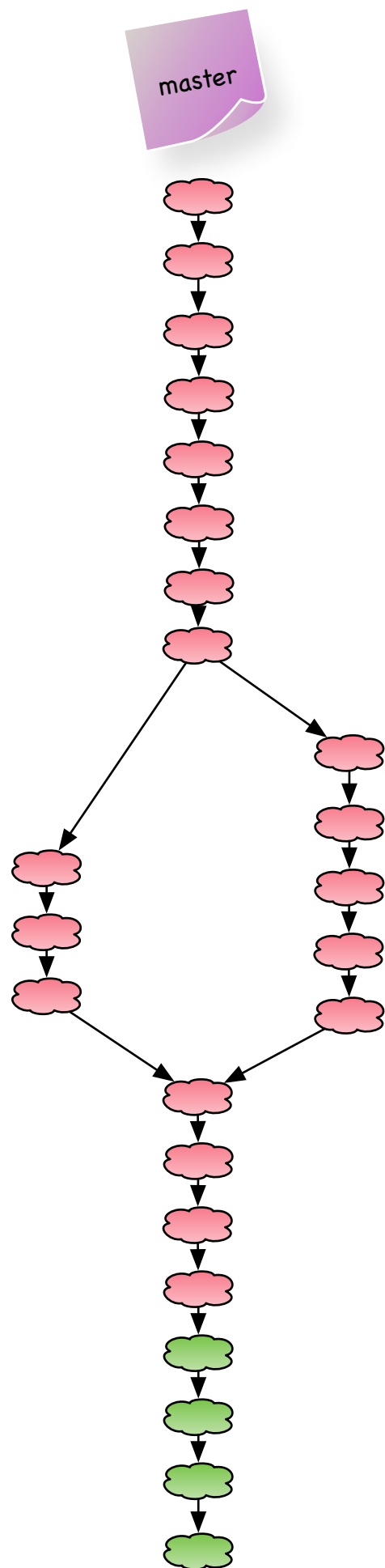


```
$ git fsck --lost-found  
[...]
```

```
$ git checkout -B feature 1234567  
Switched to a new branch 'feature'
```

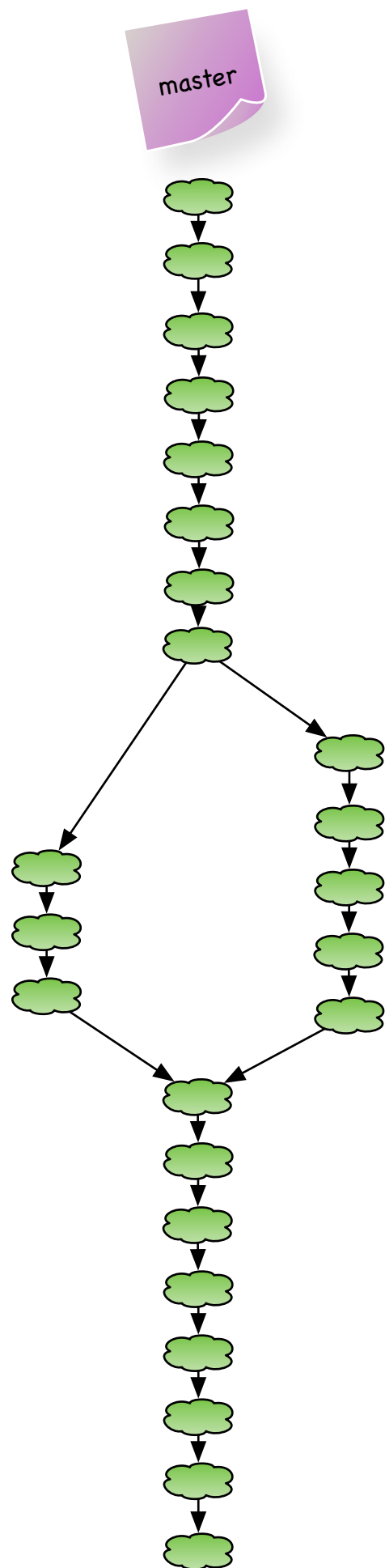
**Scenario:**  
**global thermonuclear war**







```
$ git filter-branch -f --tree-filter 'rm -f id_rsa' master
```



```
$ git filter-branch -f --index-filter 'git rm --cached \
--ignore-unmatch id_rsa' master
```

