

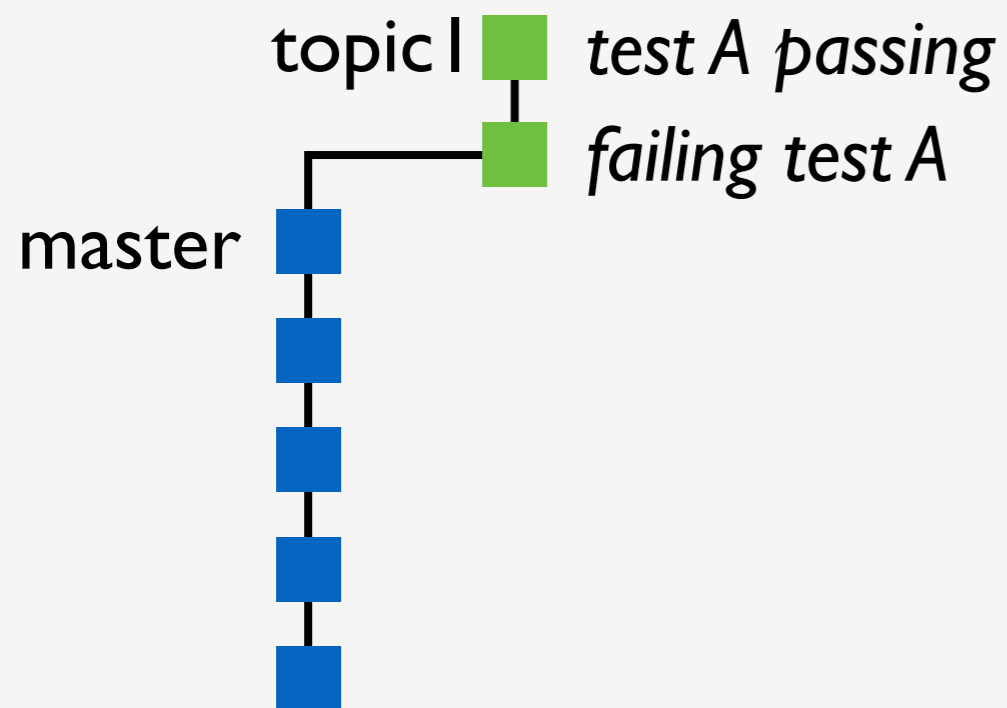
Smokin' git rebase

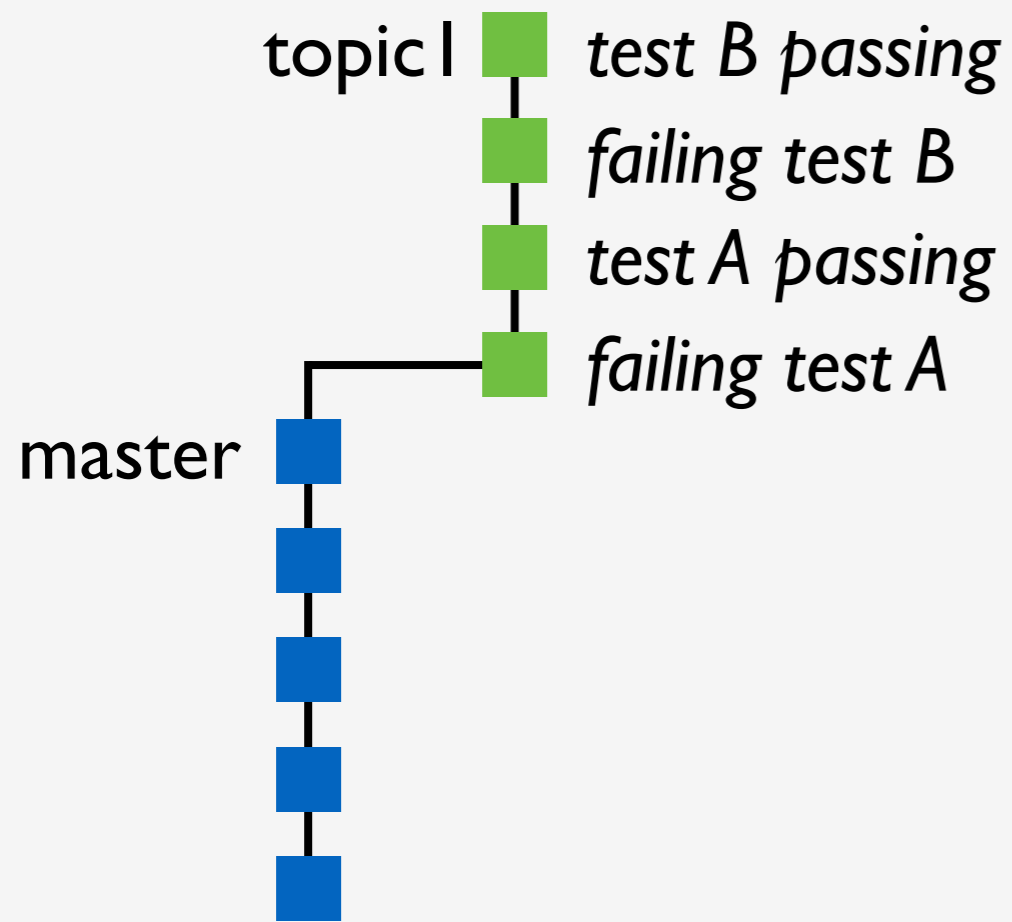
David Golden
Staff Engineer, MongoDB

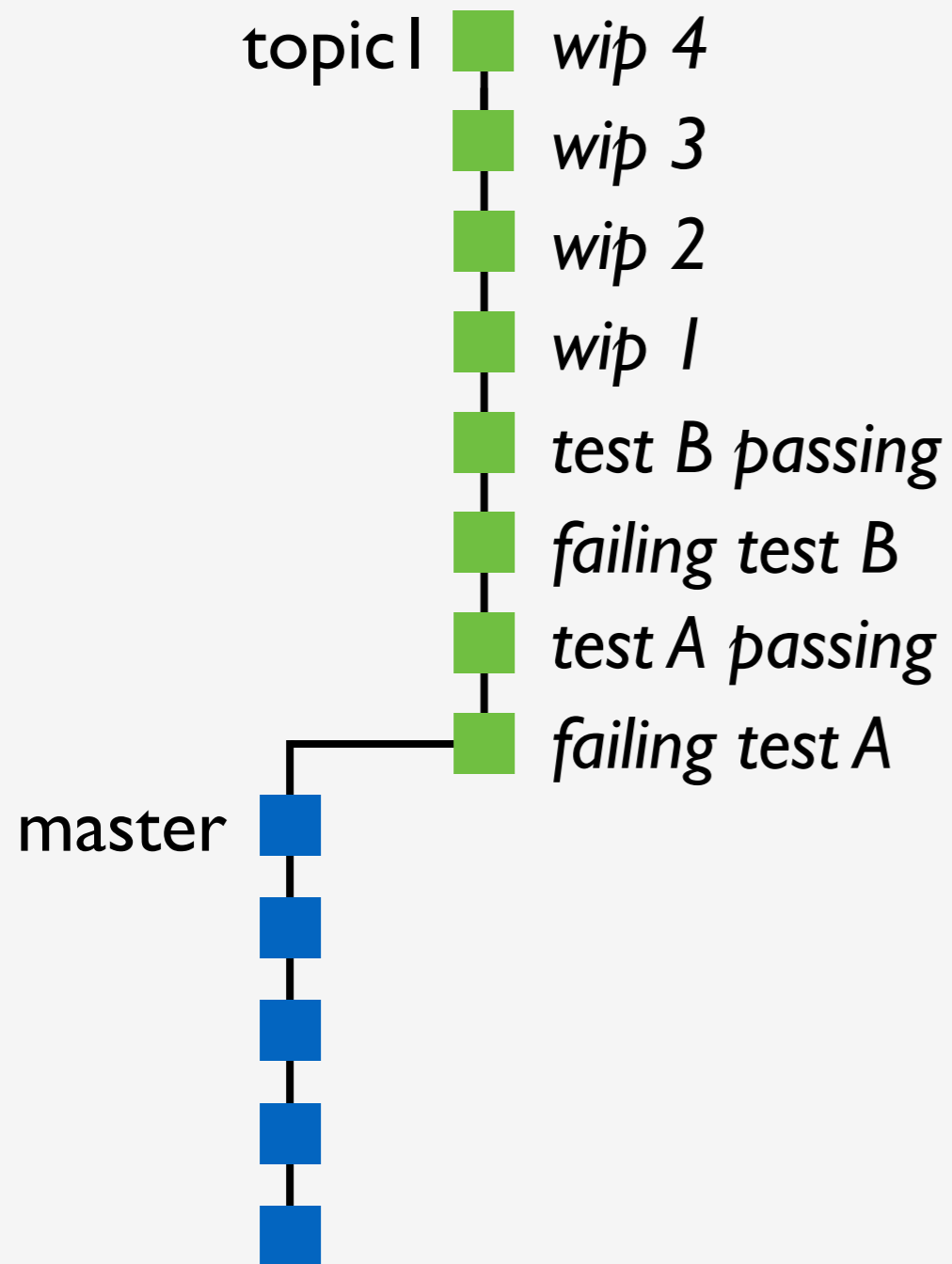
DCBPW • April 2016

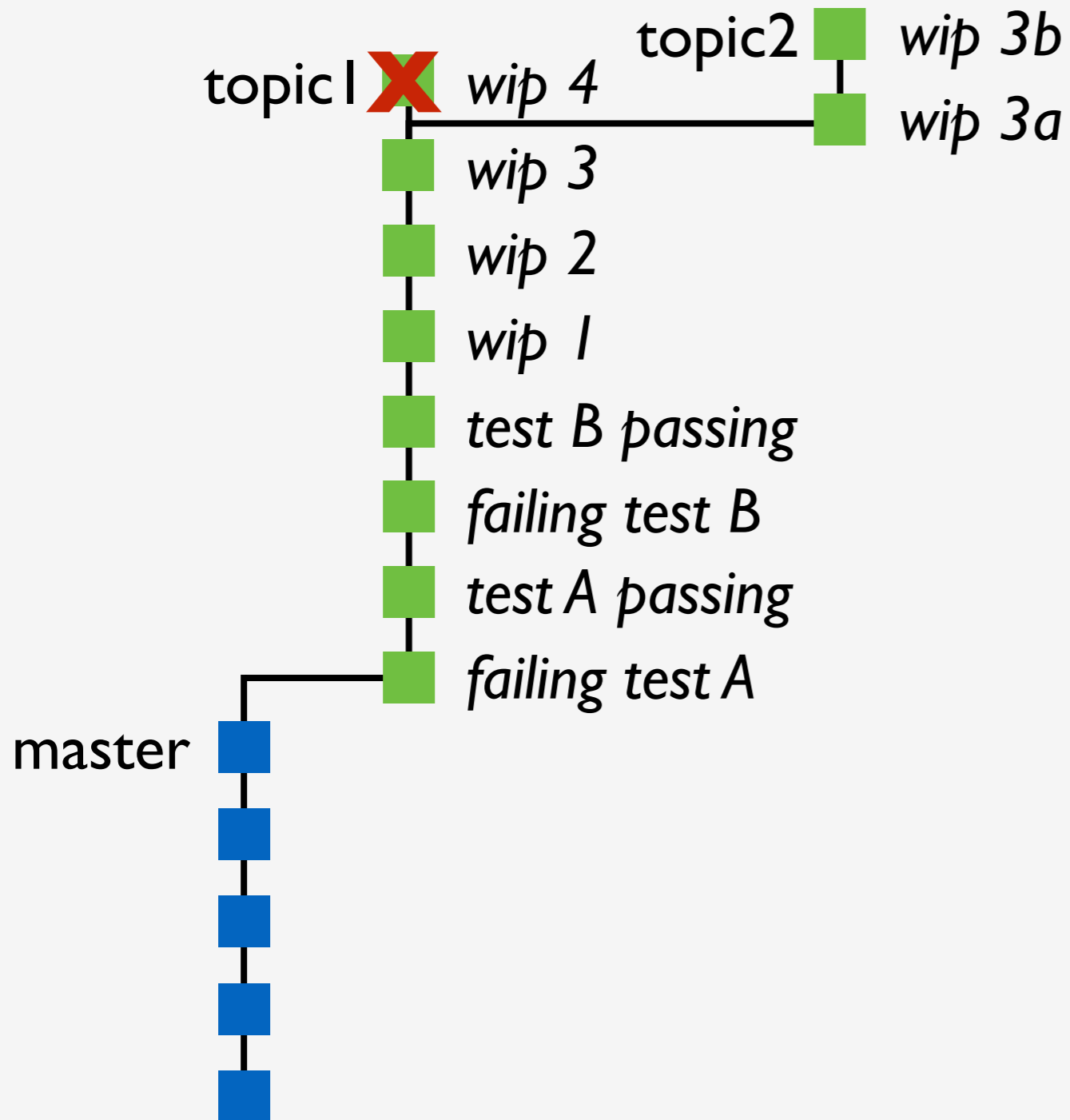


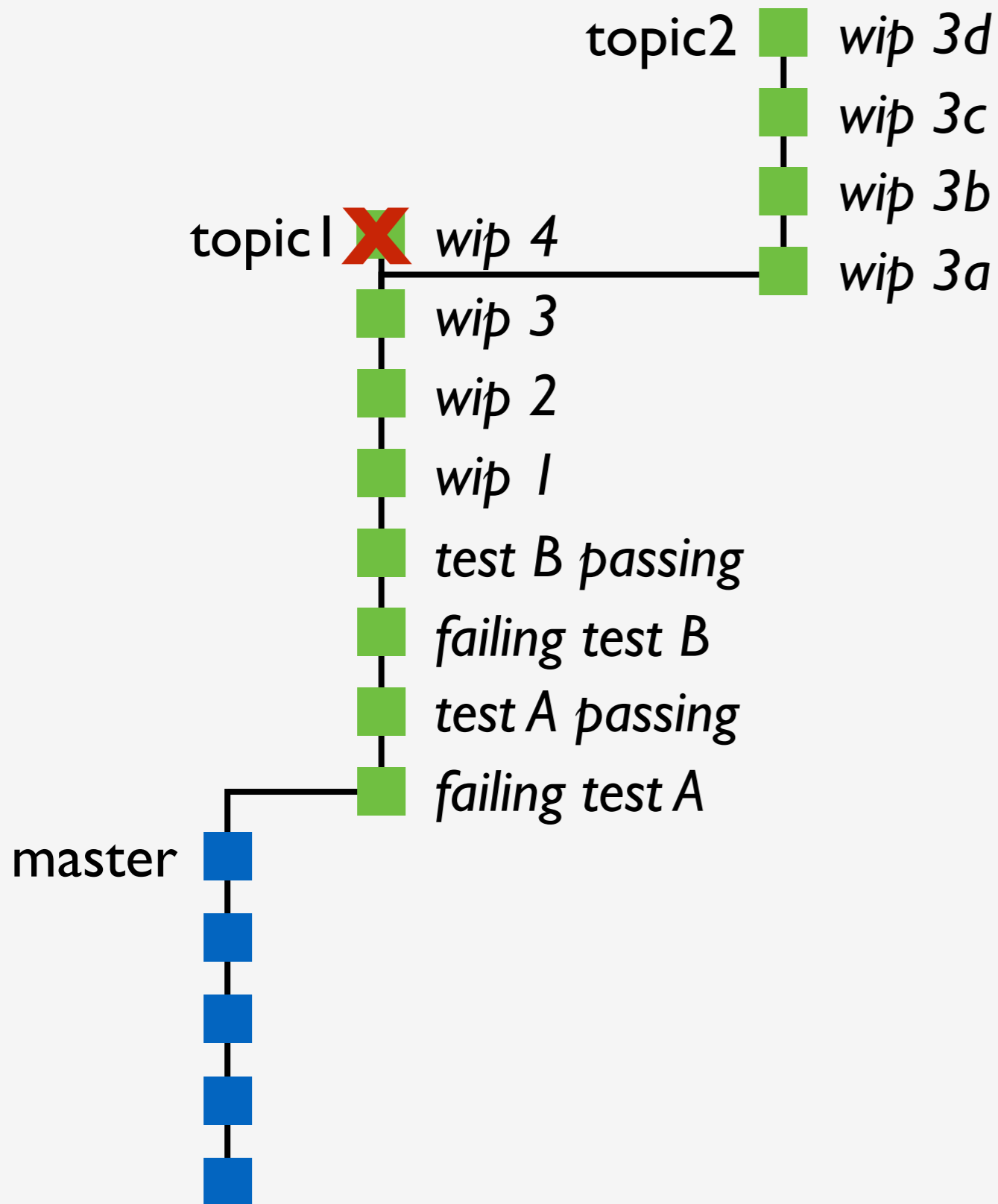
Peter Rabbitson, aka 'ribasushi'

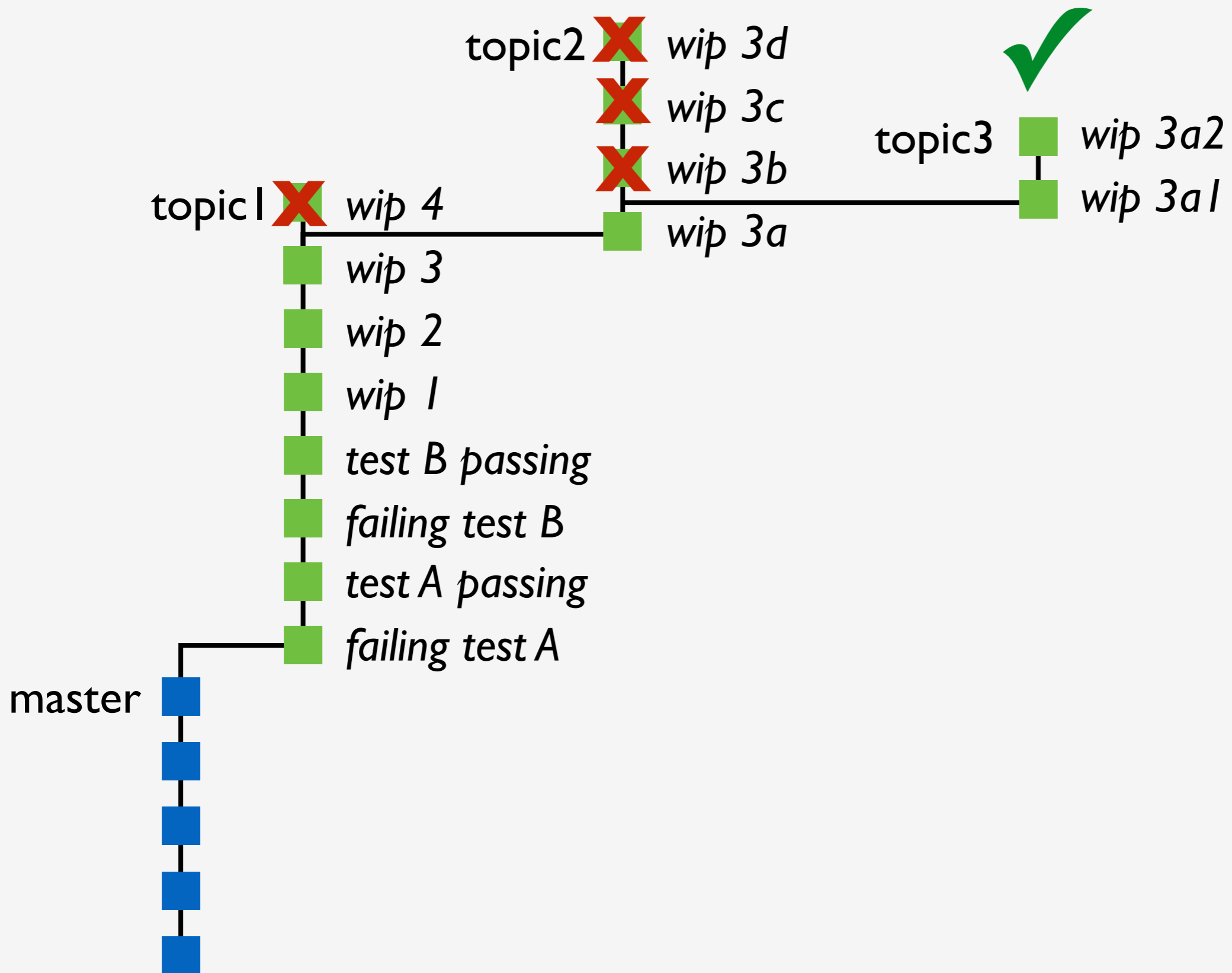


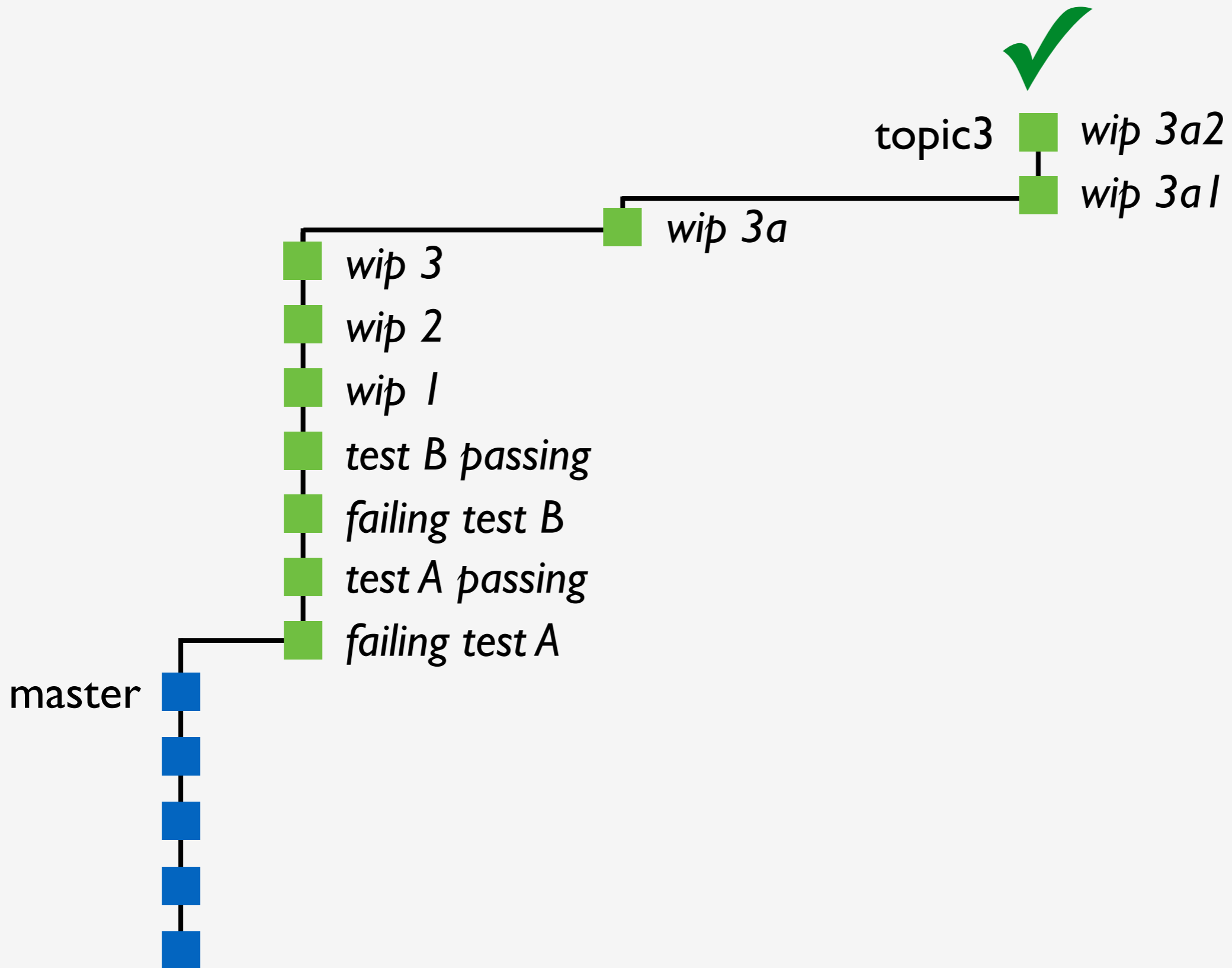


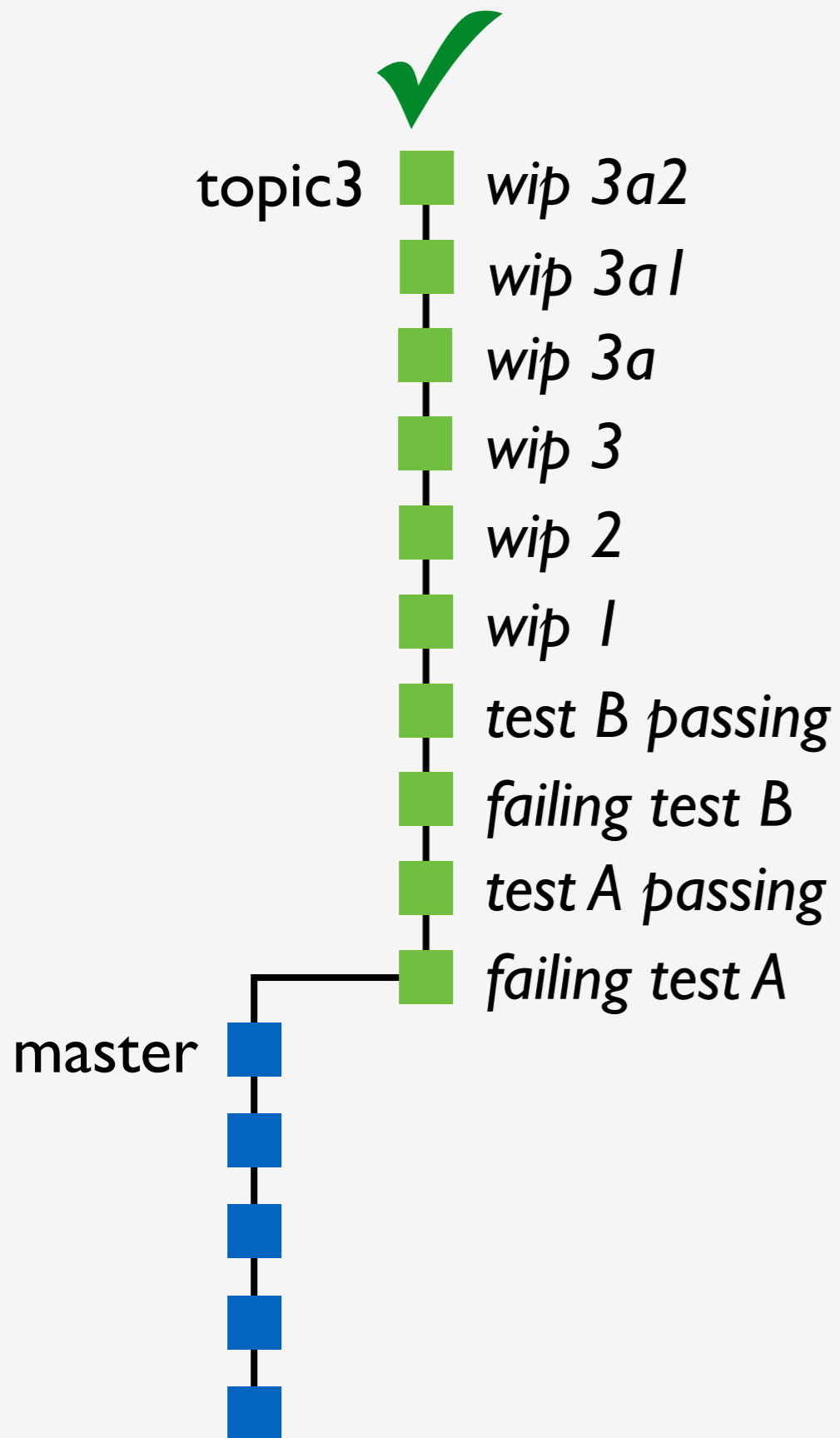




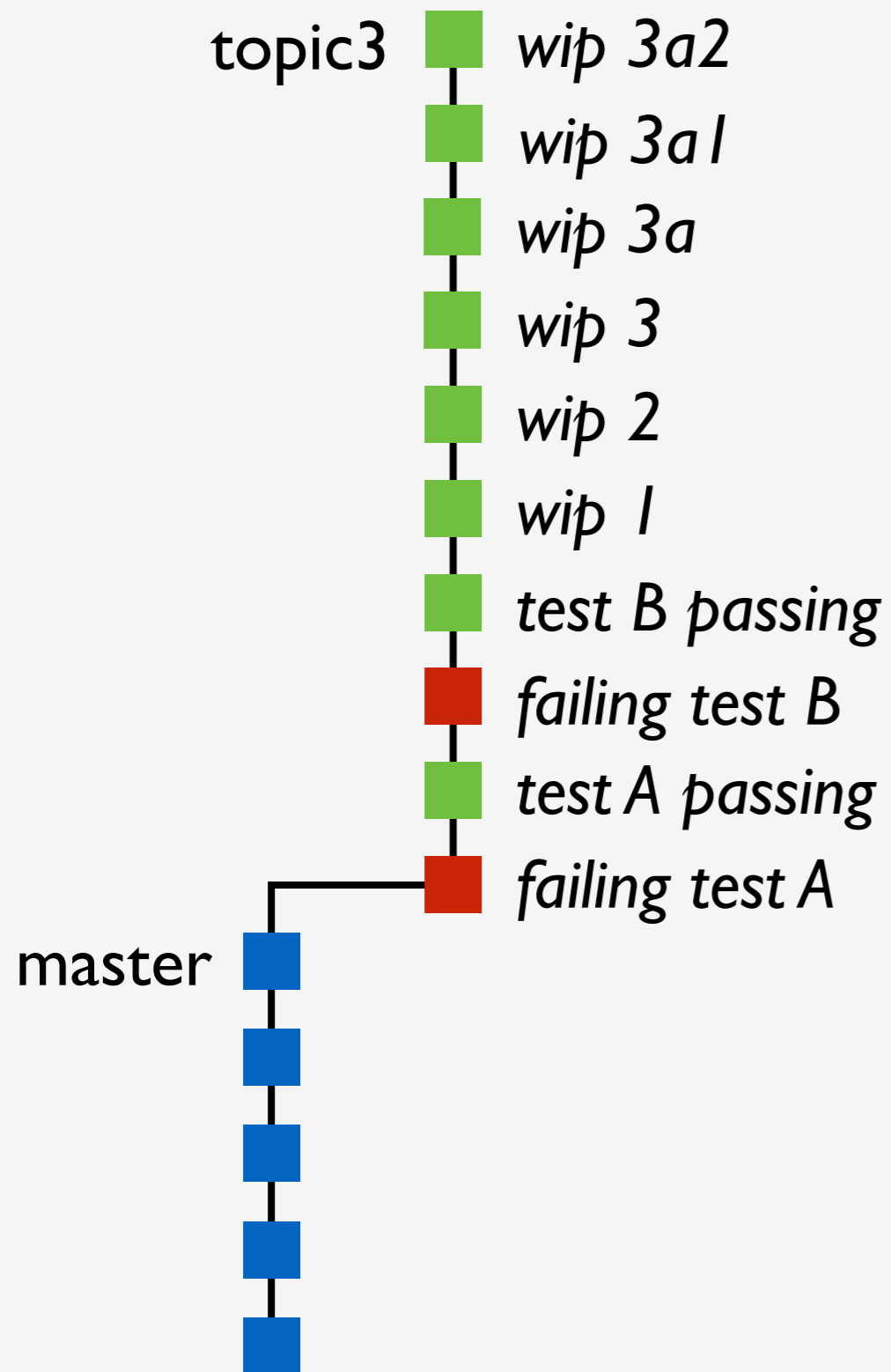




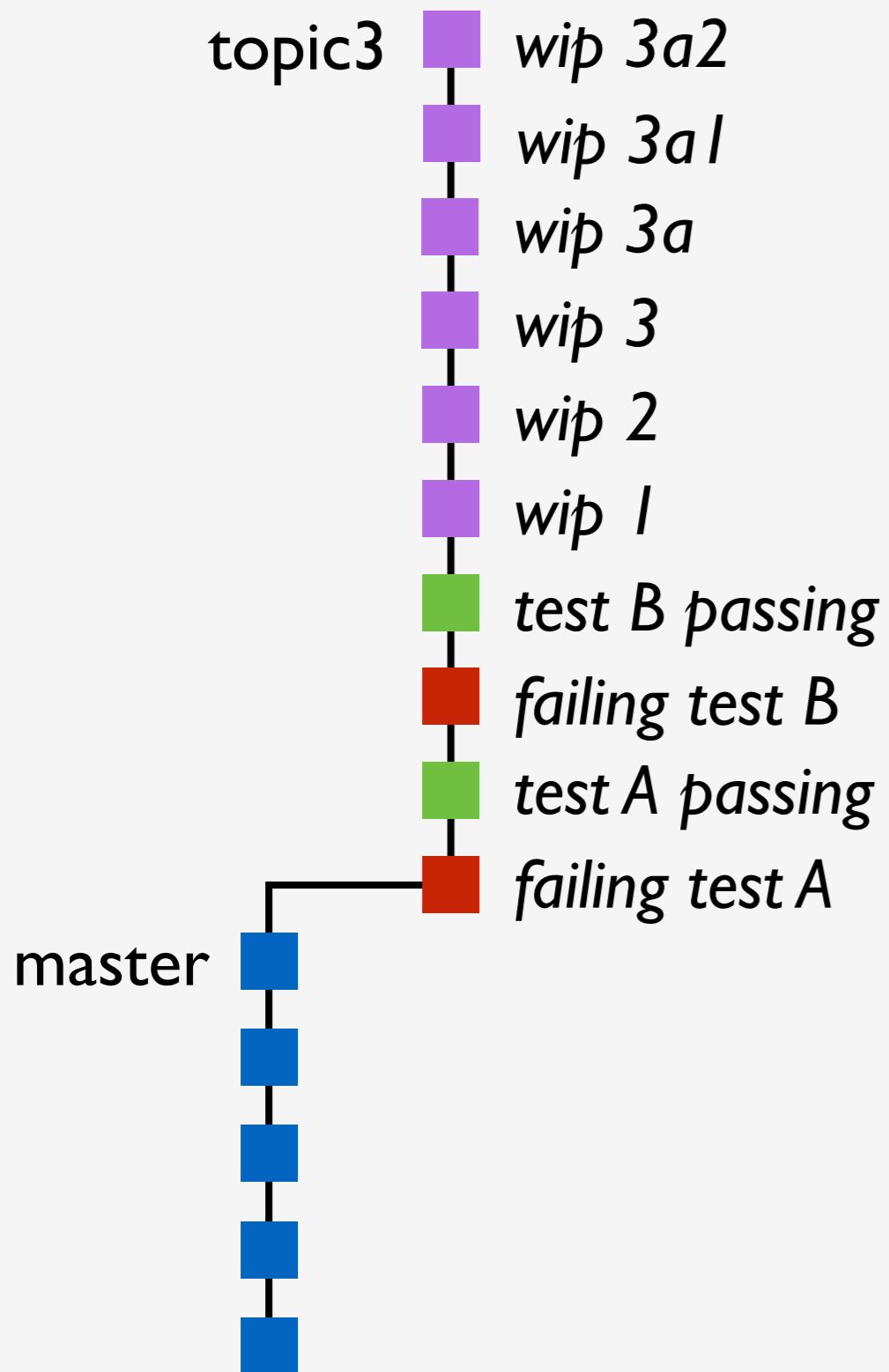




Merge this? No!

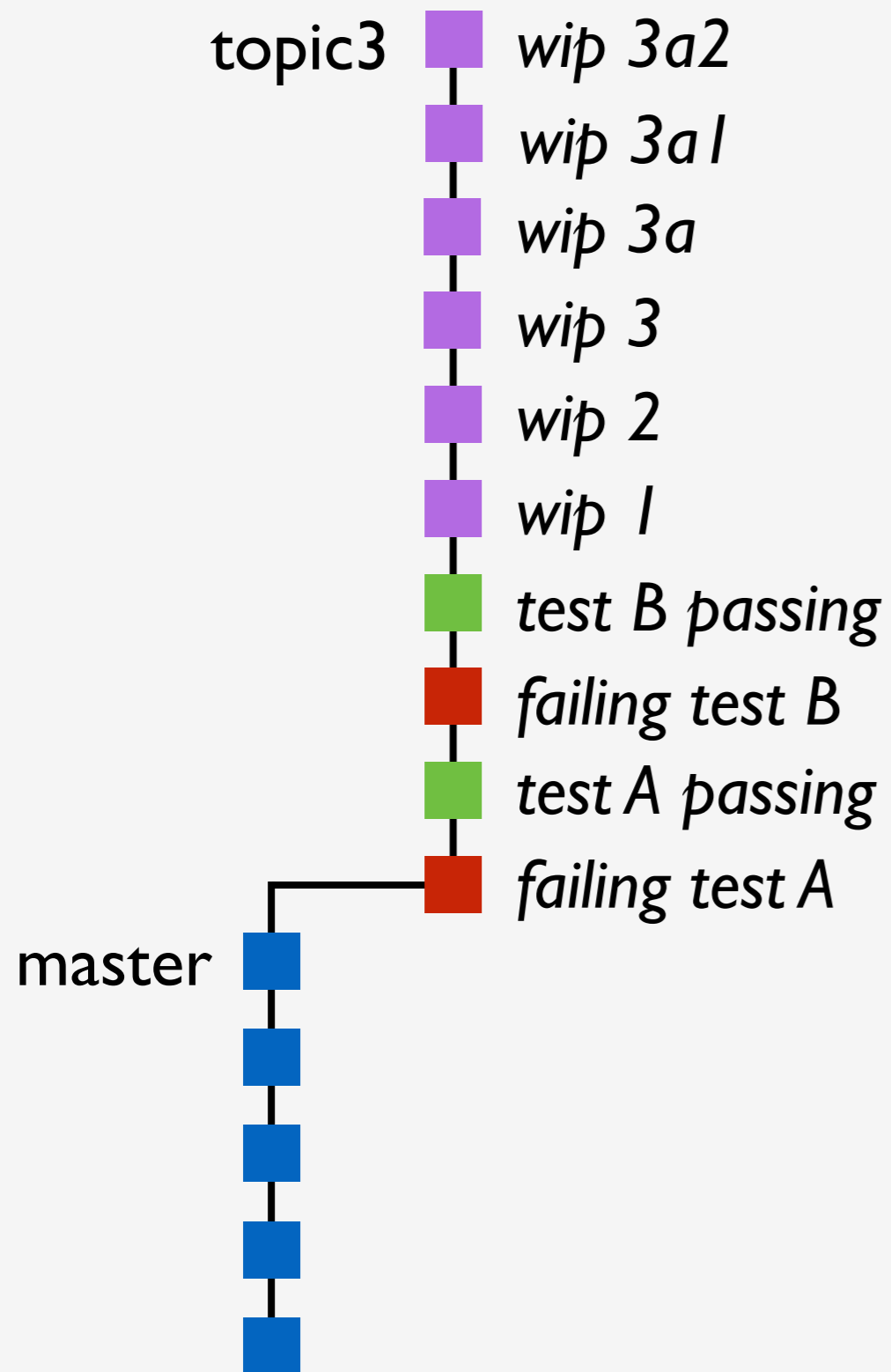


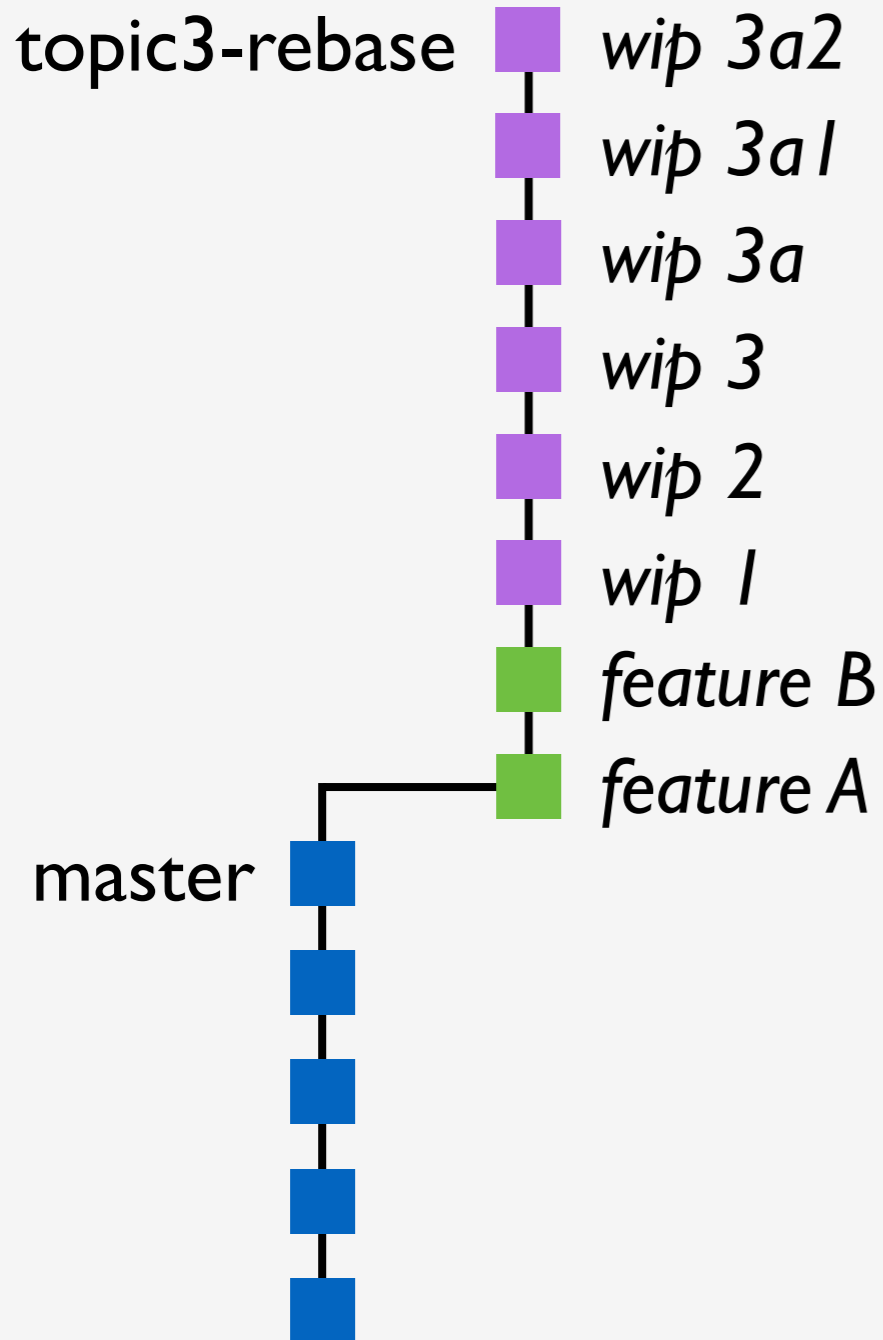
TESTS
BROKEN

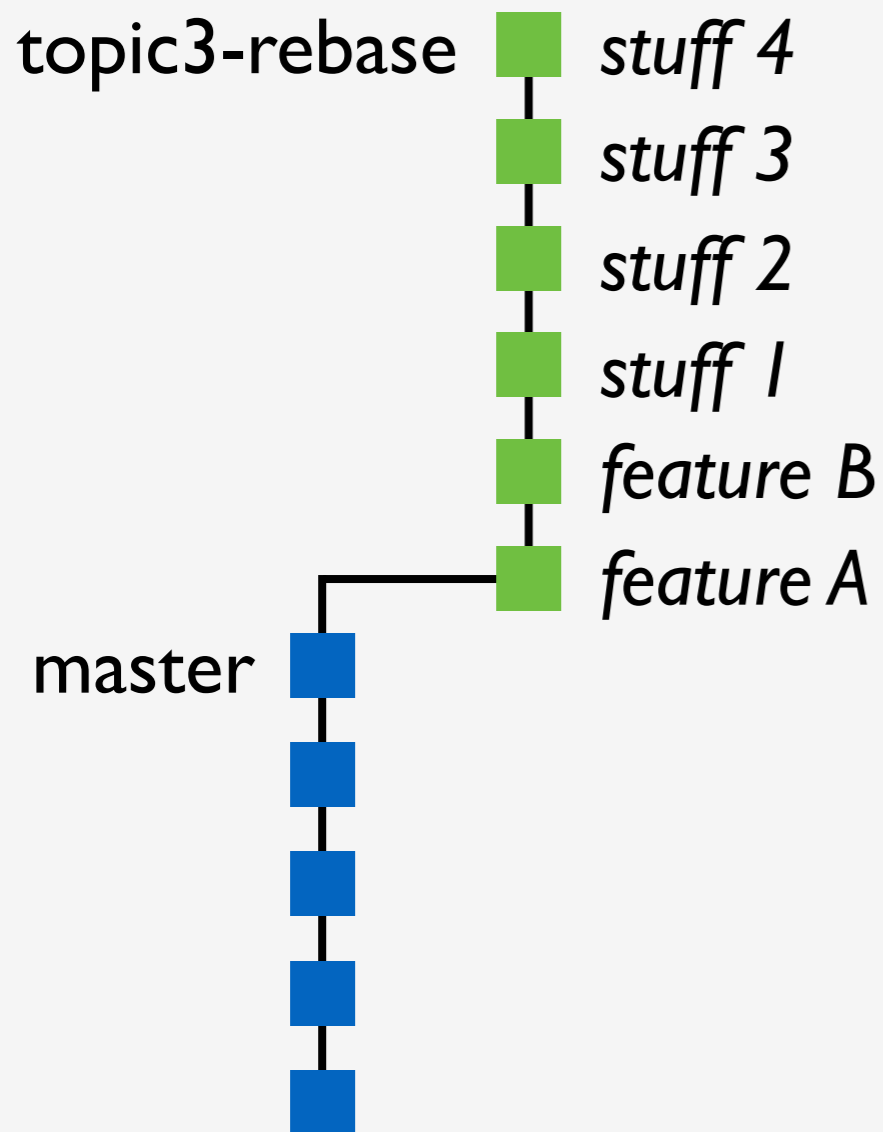


TOO
GRANULAR

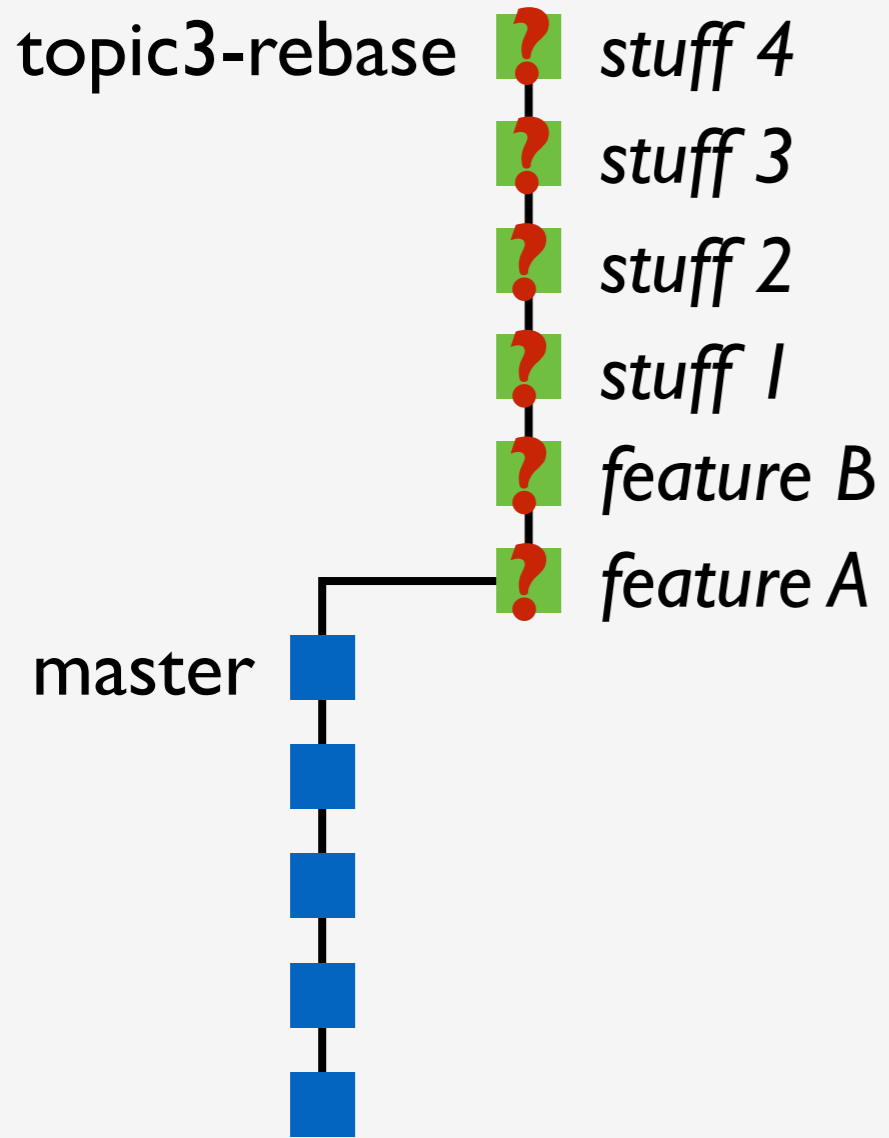
Rebase!







But will it pass tests?



Smokin' git rebase

```
$ git hist
* [a54d26d] (HEAD, topic3-rebase) stuff 4
* [fe3c81d] stuff 3
* [bda939a] stuff 2
* [50d59ec] stuff 1
* [f44f3bc] feature B
* [61a718d] feature A
* [c655a2d] (master) commit 5
* [3aac037] commit 4
* [0b1568b] commit 3
* [391b2cf] commit 2
* [d7e1c91] initial commit
```

```
pick 61a718d feature A
pick f44f3bc feature B
pick 50d59ec stuff 1
pick bda939a stuff 2
pick fe3c81d stuff 3
pick a54d26d stuff 4
```

```
# Rebase c655a2d..a54d26d onto c655a2d
```

```
#
```

```
# Commands:
```

```
# p, pick = use commit
```

```
# r, reword = use commit, but edit the commit message
```

```
# e, edit = use commit, but stop for amending
```

```
edit 61a718d feature A
edit f44f3bc feature B
edit 50d59ec stuff 1
edit bda939a stuff 2
edit fe3c81d stuff 3
edit a54d26d stuff 4
```

```
# Rebase c655a2d..a54d26d onto c655a2d
```

```
#
```

```
# Commands:
```

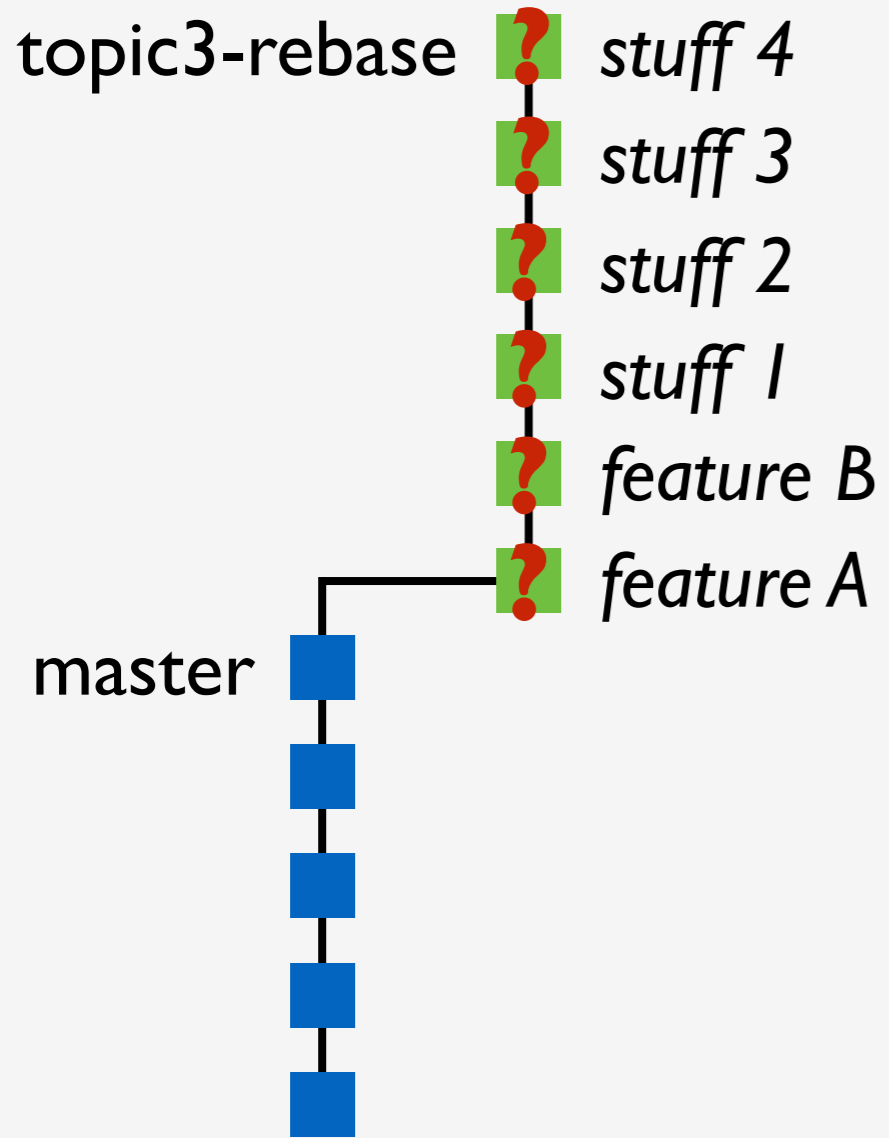
```
# p, edit = use commit
```

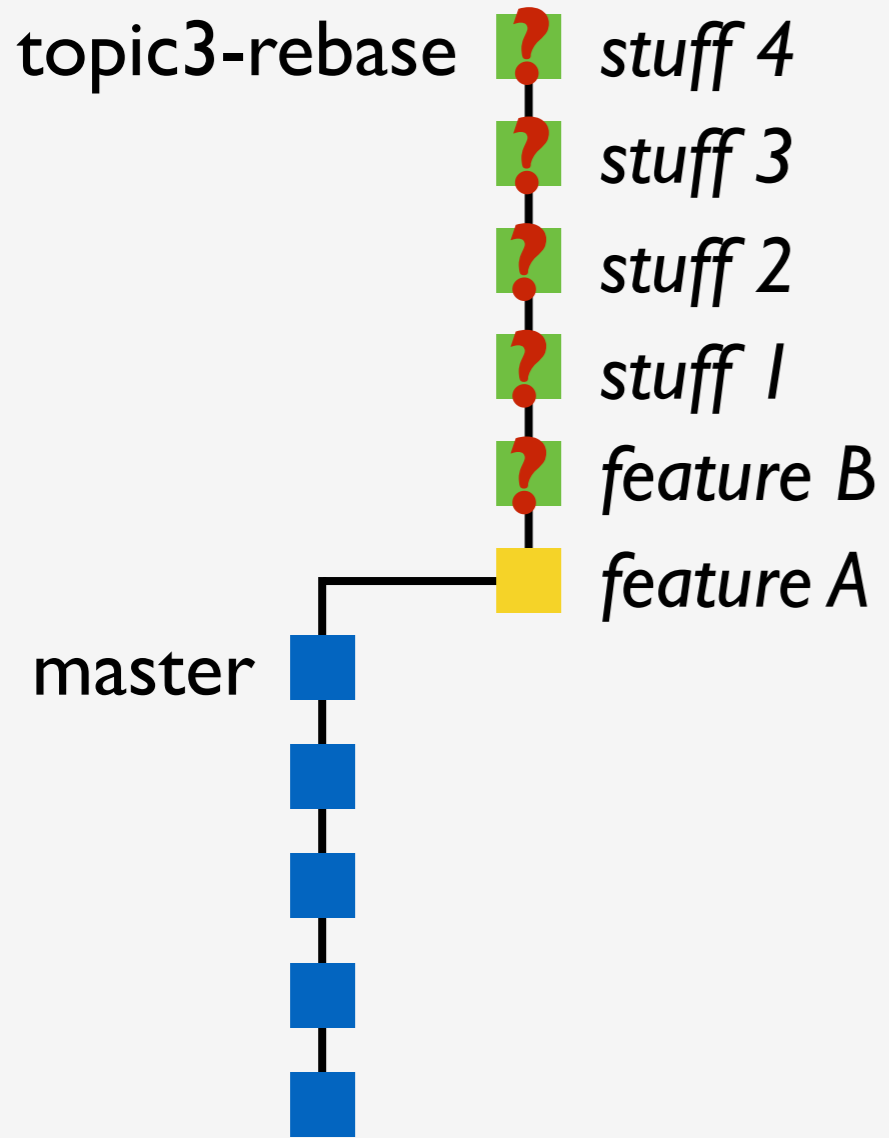
```
# r, reword = use commit, but edit the commit message
```

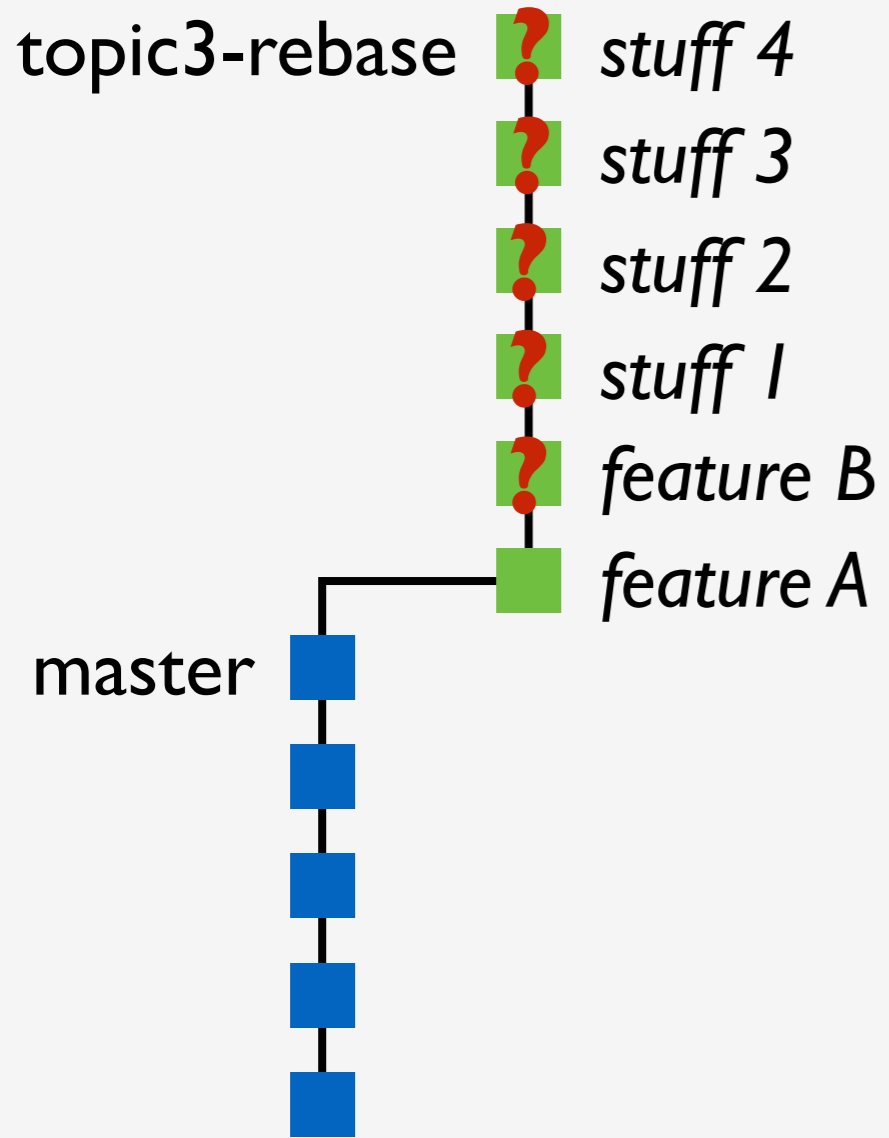
```
# e, edit = use commit, but stop for amending
```

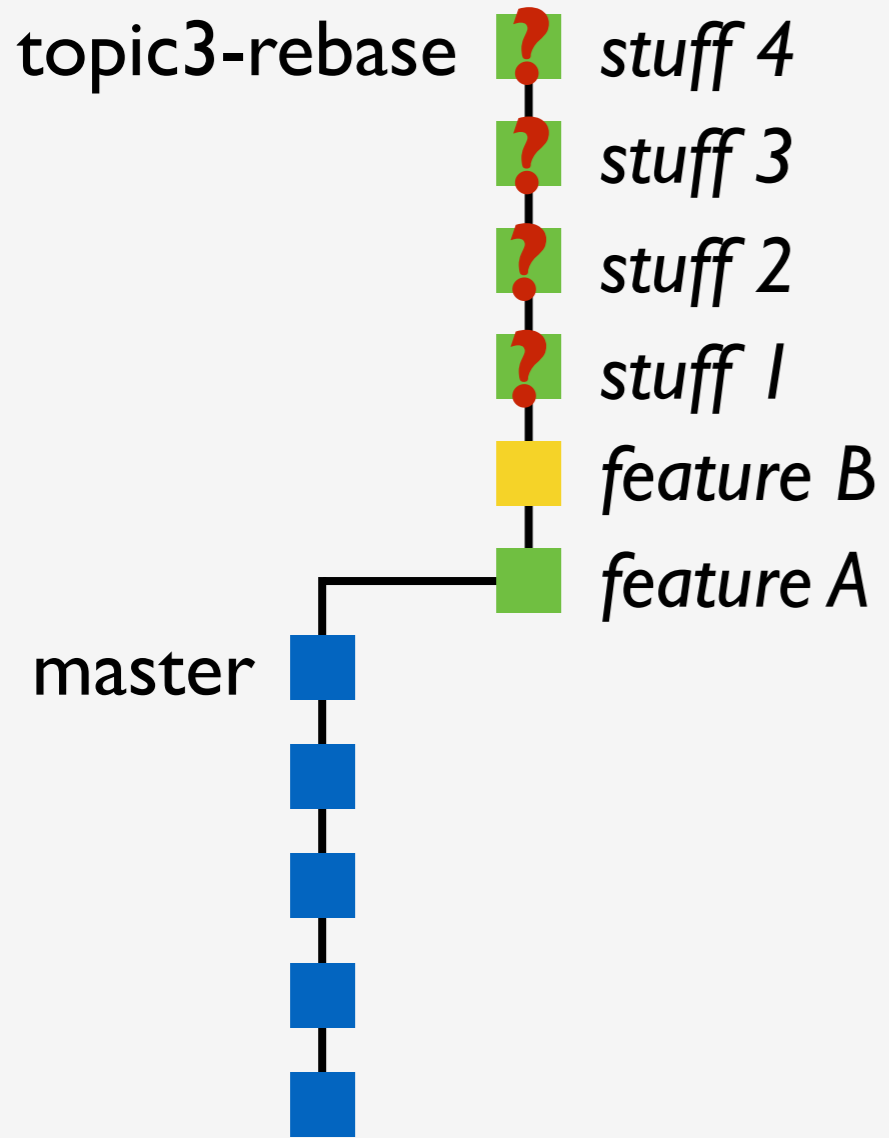
```
smoke-rebase ()
{
  while true; do
    ( perl Makefile.PL && \
      make realclean && \
      perl Makefile.PL && \
    ) >&/dev/null \
    && make test \
    && git rebase --continue \
    || break
  done
}
```

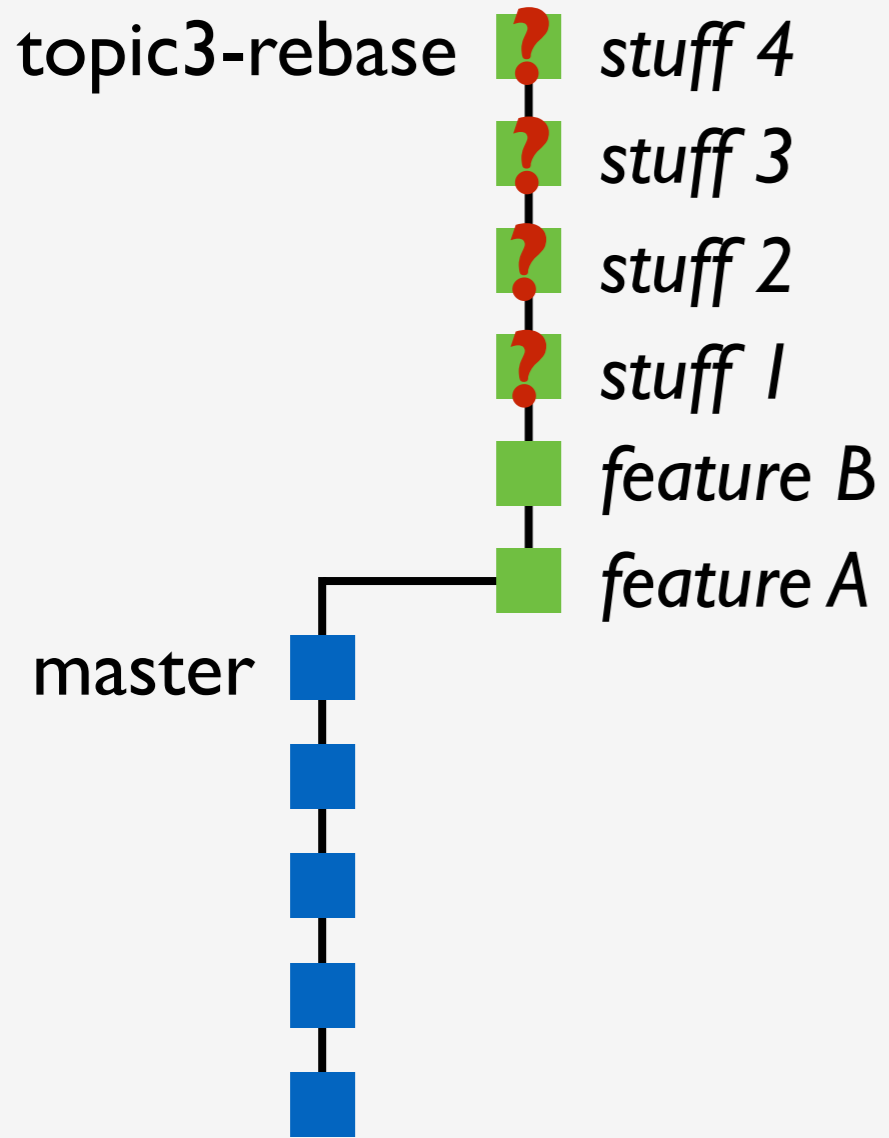
<https://tinyurl.com/smoke-rebase>

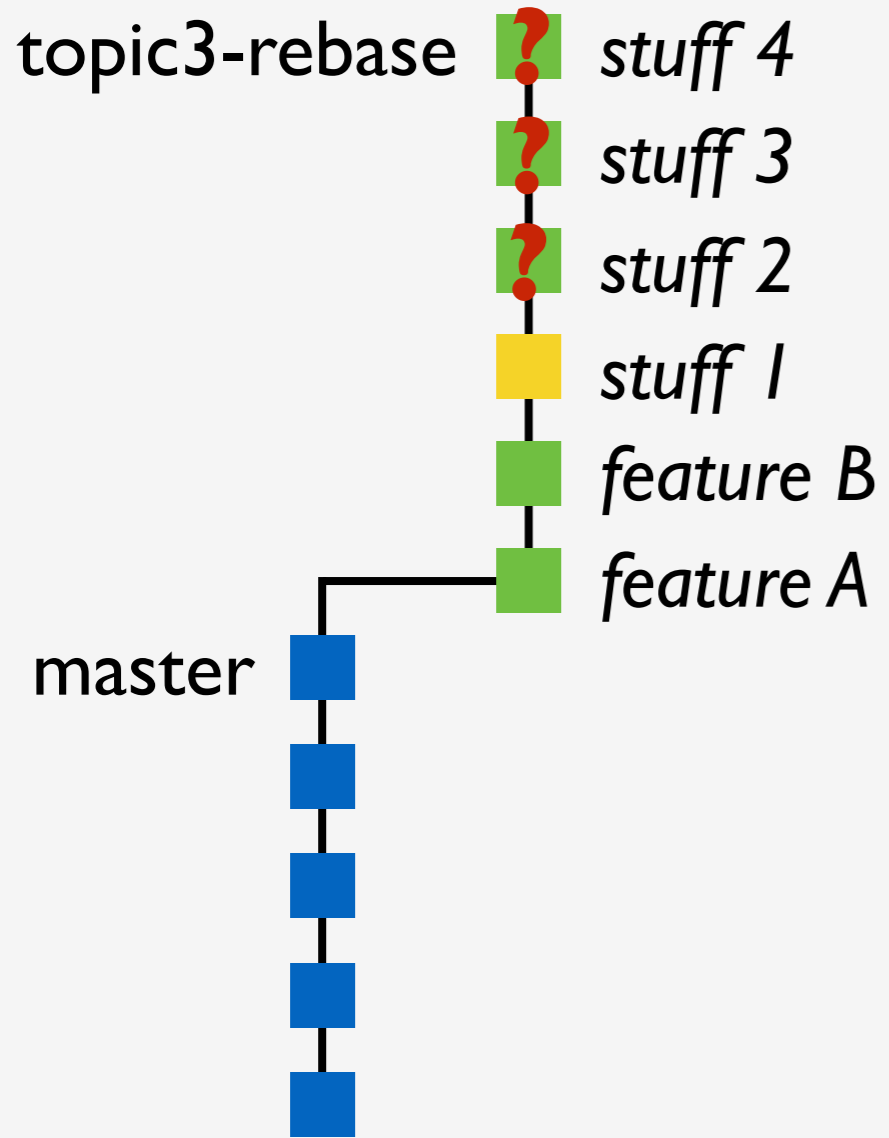


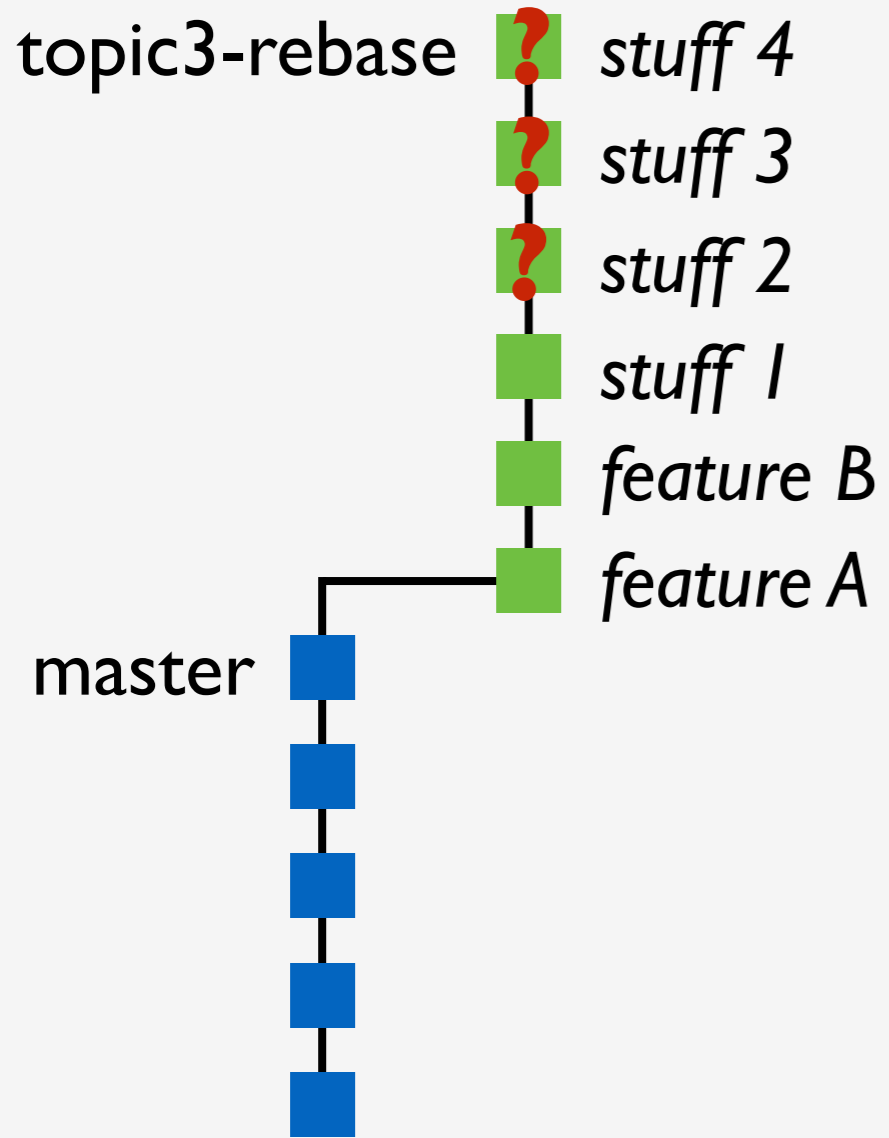


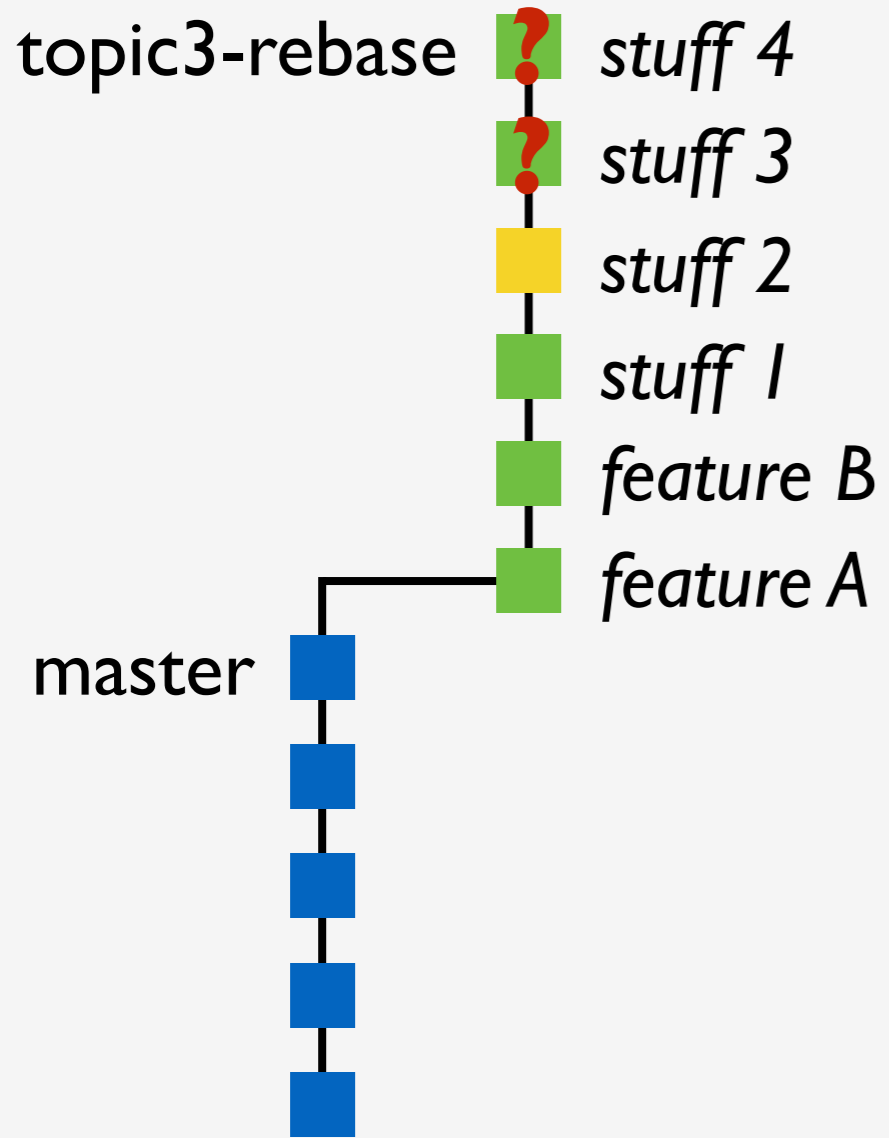


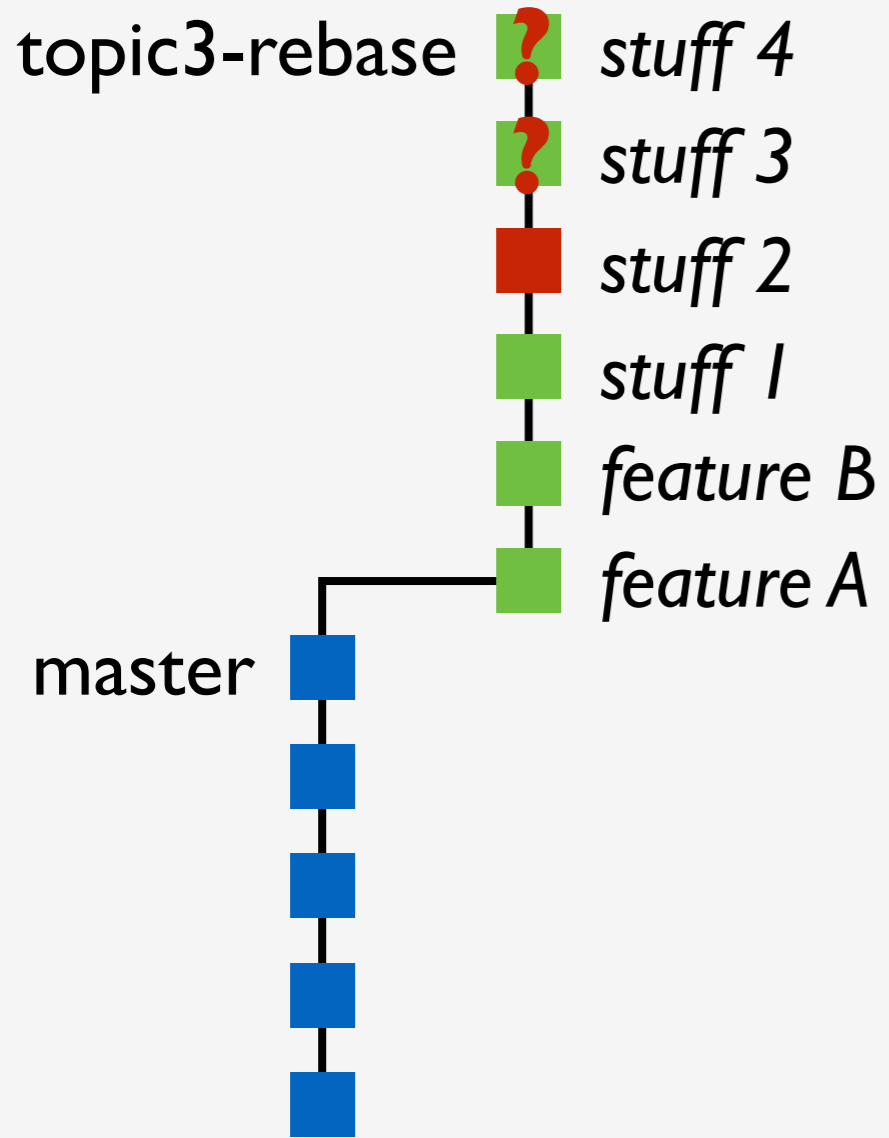






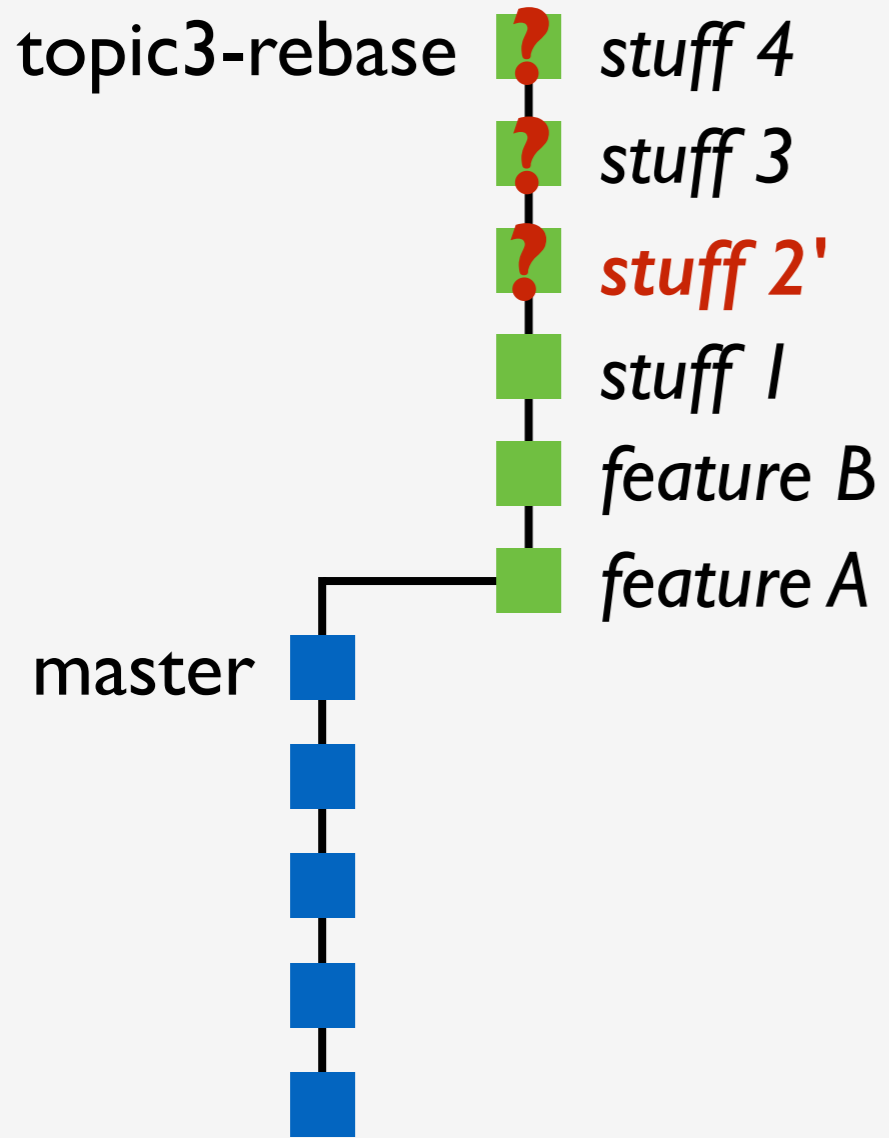




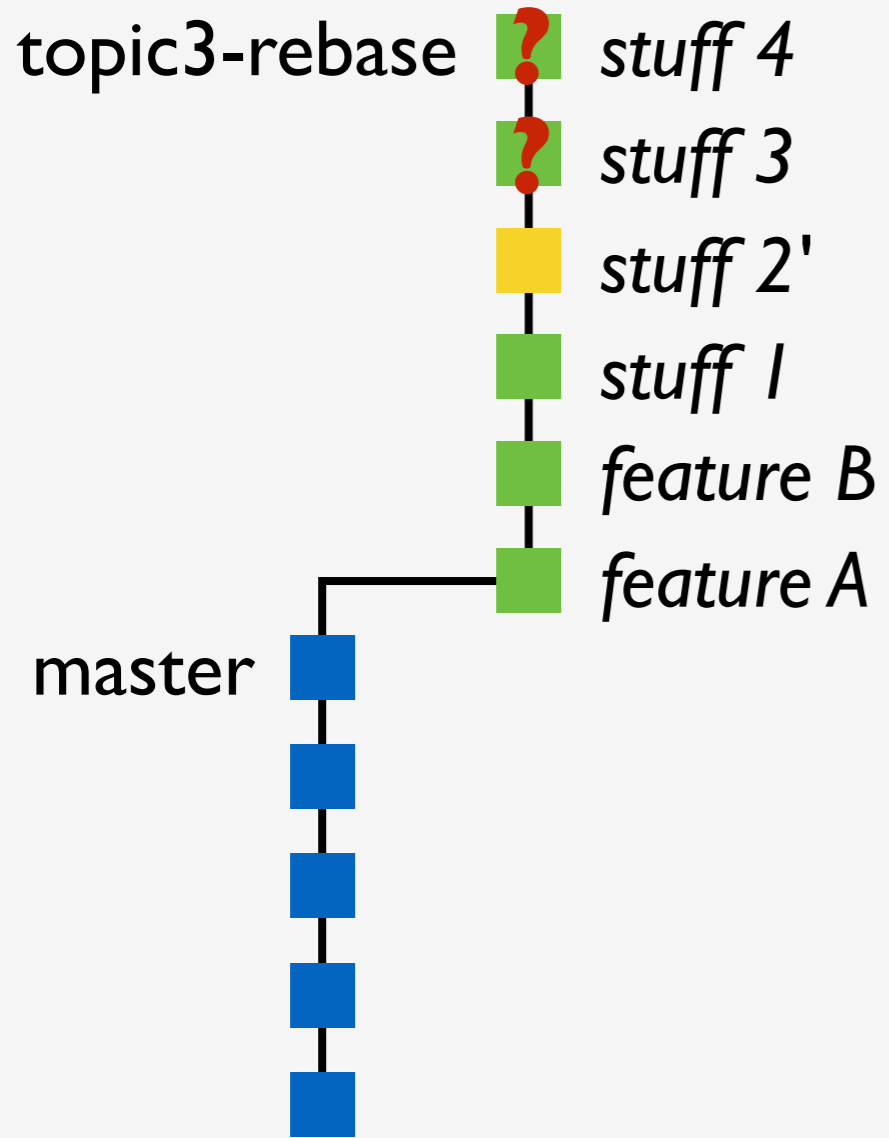


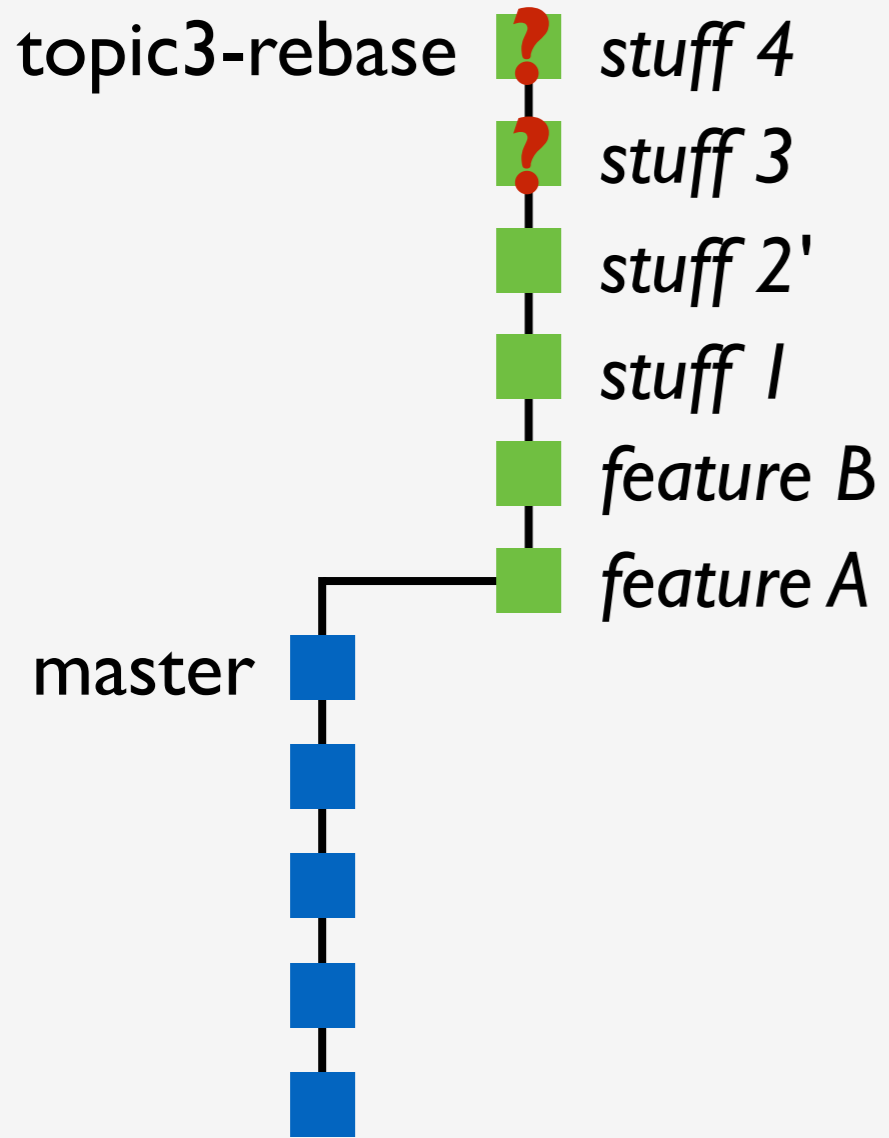
Fix it!

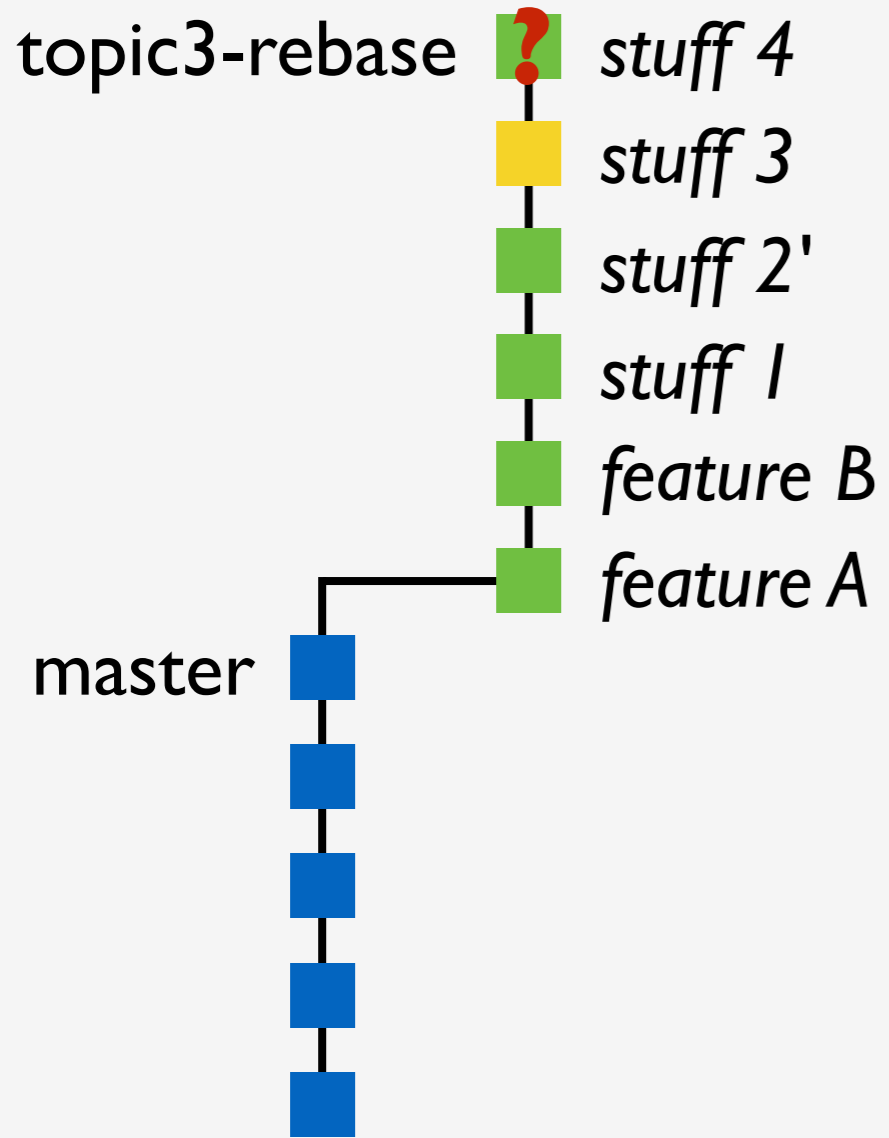
(e.g. `git commit --amend`)

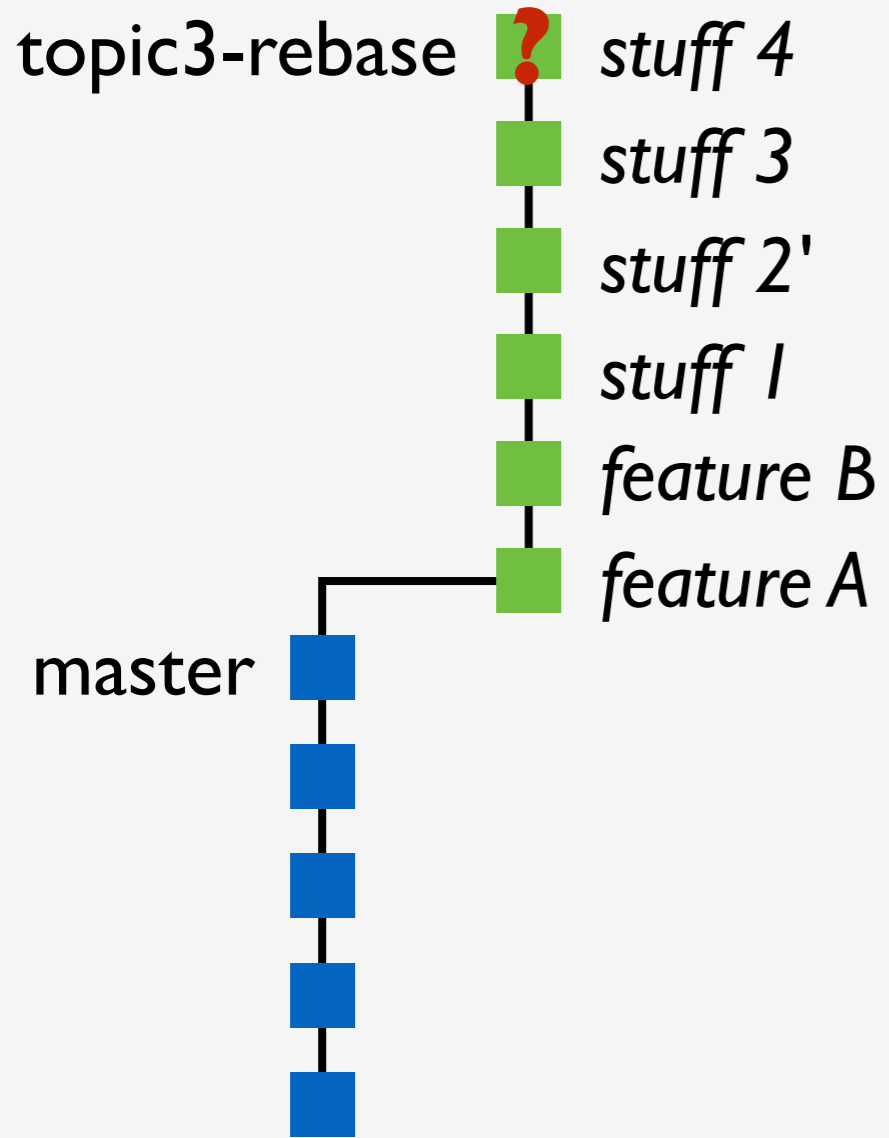


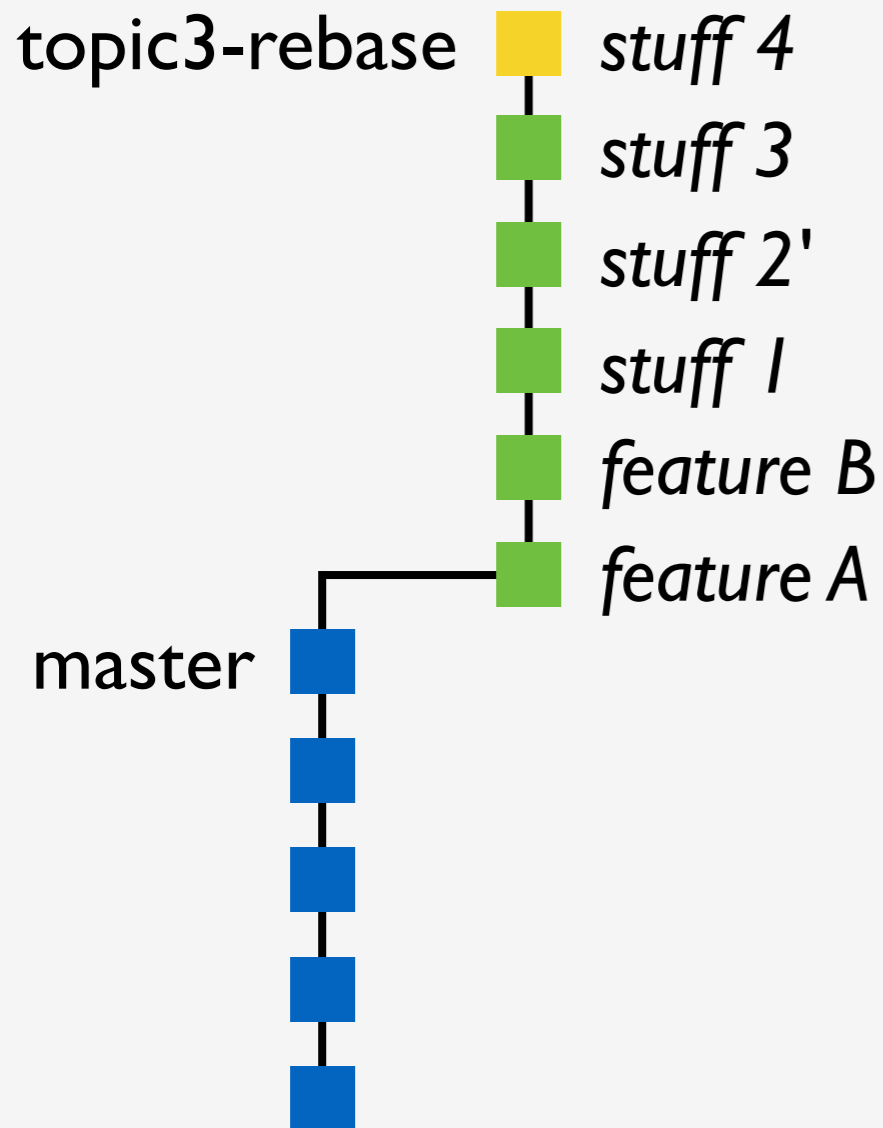
Start smoking again!

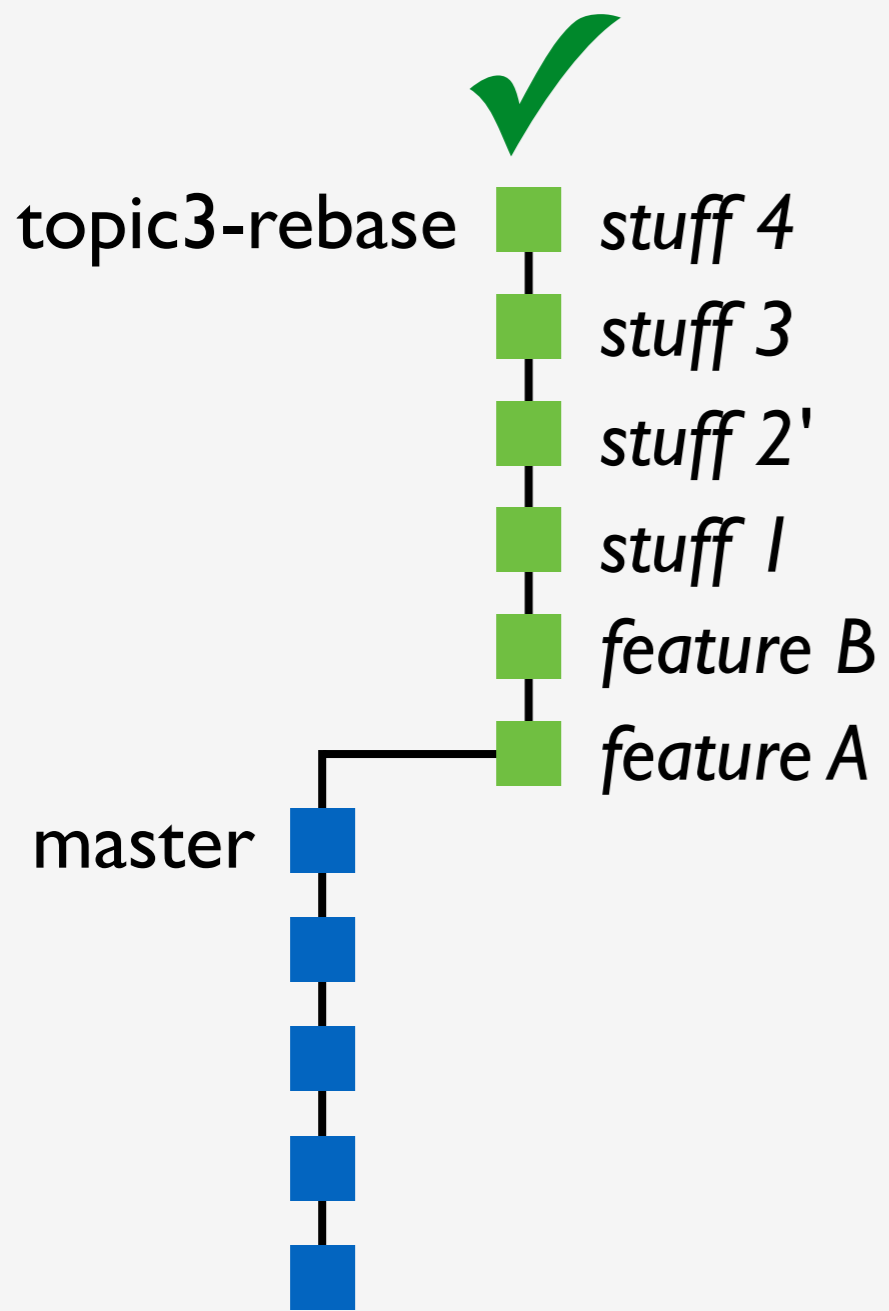














Ready to merge!