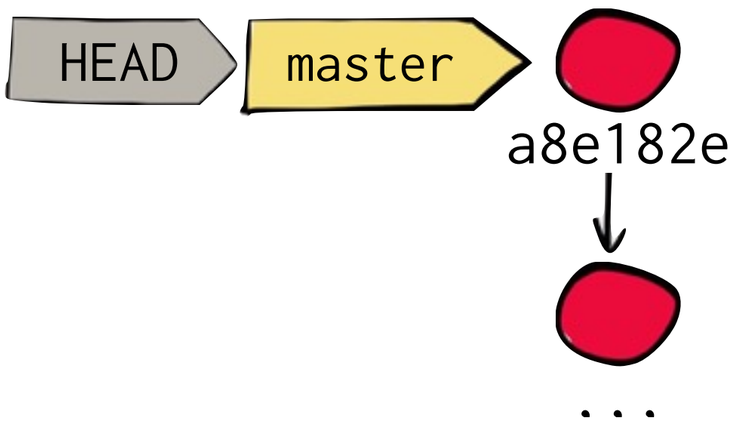
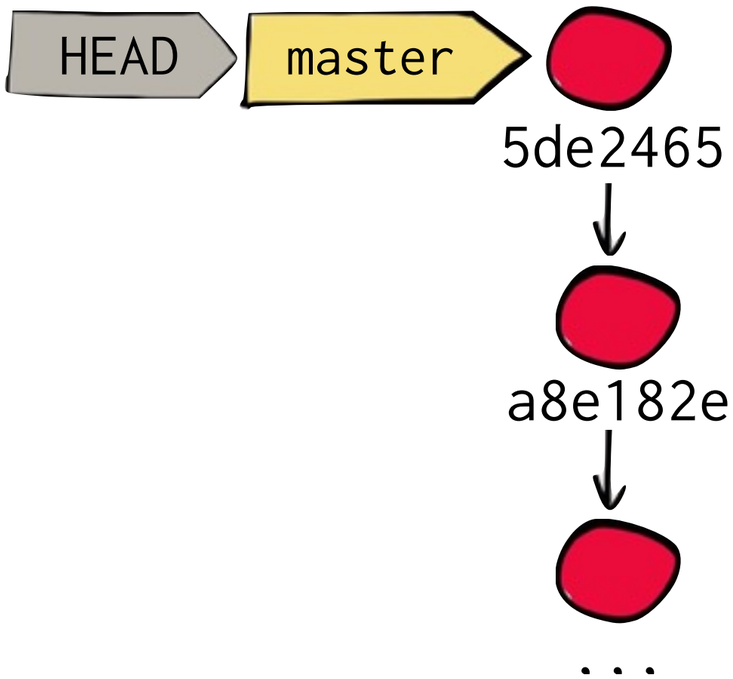
History: Fixing Mistakes

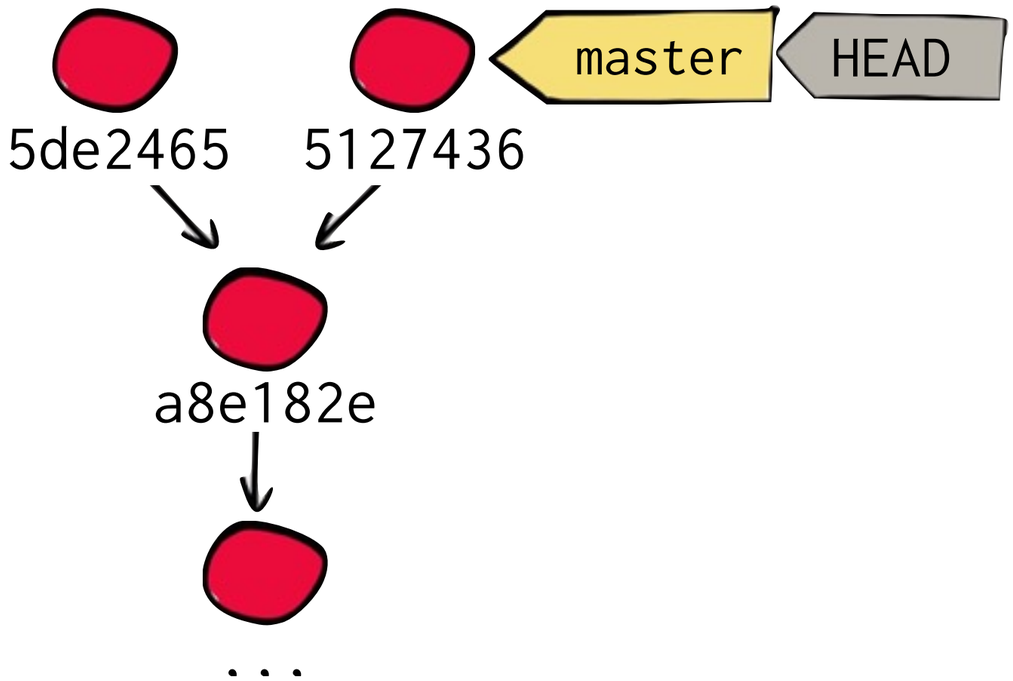
Paolo Perrotta
FREELANCE DEVELOPER
@nusco

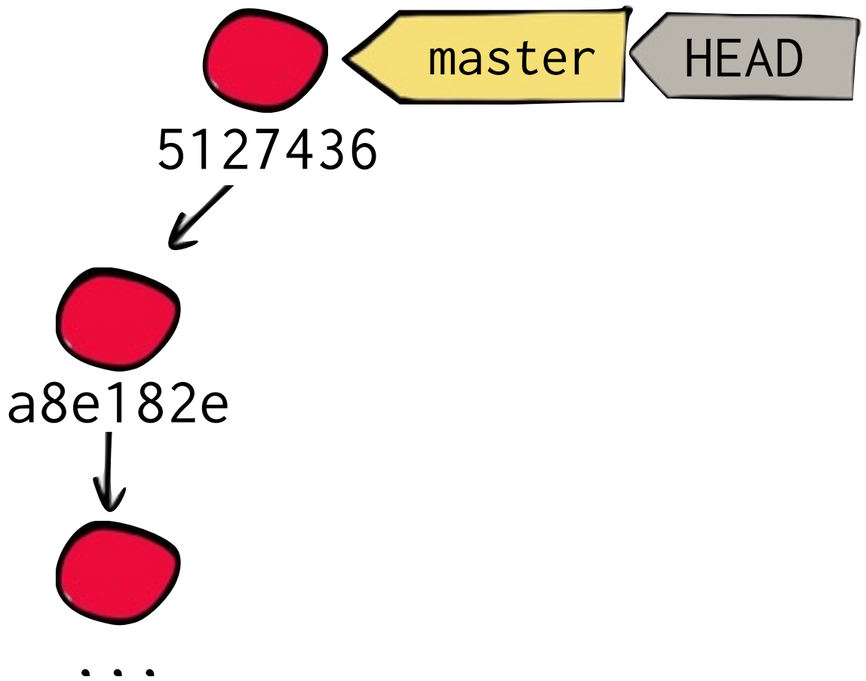
Never rebase shared commits.

The Golden Rule:
never change shared history.

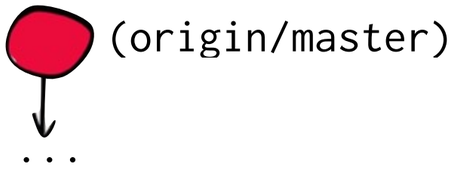

HEAD
master
a8e182e
...


HEAD
master
5de2465
a8e182e
...

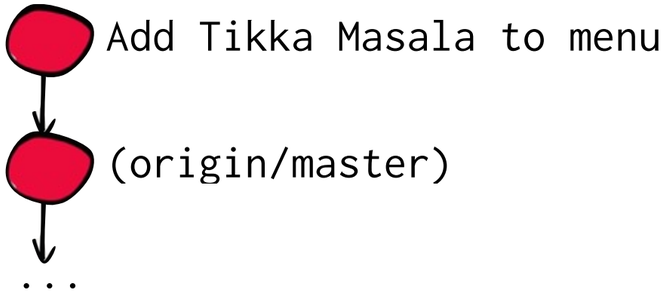

master
HEAD
5de2465
5127436
a8e182e
...


master
HEAD
5127436
a8e182e
...

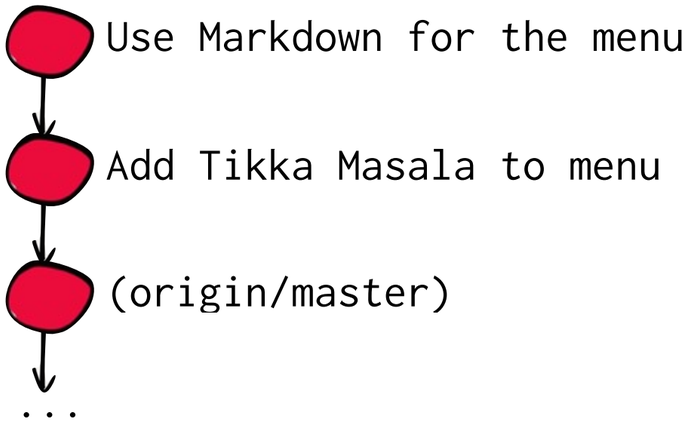
```
pick   “Add Tikka Masala to menu”
squash “Add missing tikka masala placeholder”
pick   “Use Markdown for the menu”
reword “Well, I changed my mind about that renaming”
pick   “Add guacamole”
squash “Add onion to guacamole”
squash “Add tomato to guacamole”
pick   “Make README all uppercase”
pick   “Add Caesar Salad to menu"
```



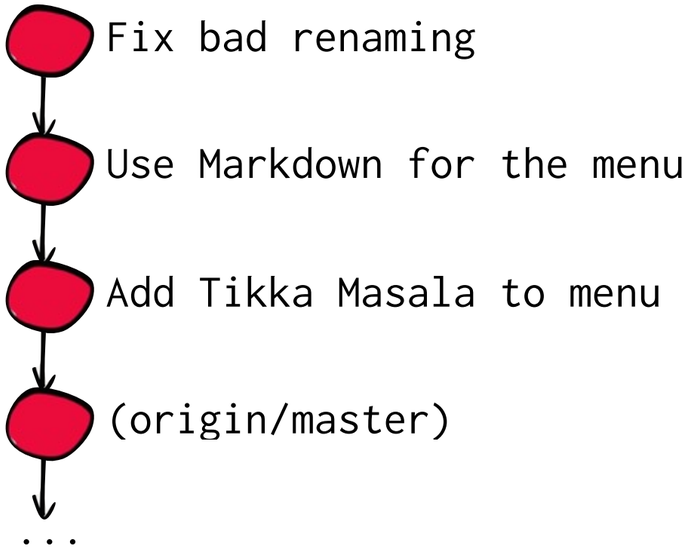
```
pick   “Add Tikka Masala to menu”
squash “Add missing tikka masala placeholder”
pick   “Use Markdown for the menu”
reword “Well, I changed my mind about that renaming”
pick   “Add guacamole”
squash “Add onion to guacamole”
squash “Add tomato to guacamole”
pick   “Make README all uppercase”
pick   “Add Caesar Salad to menu"
```



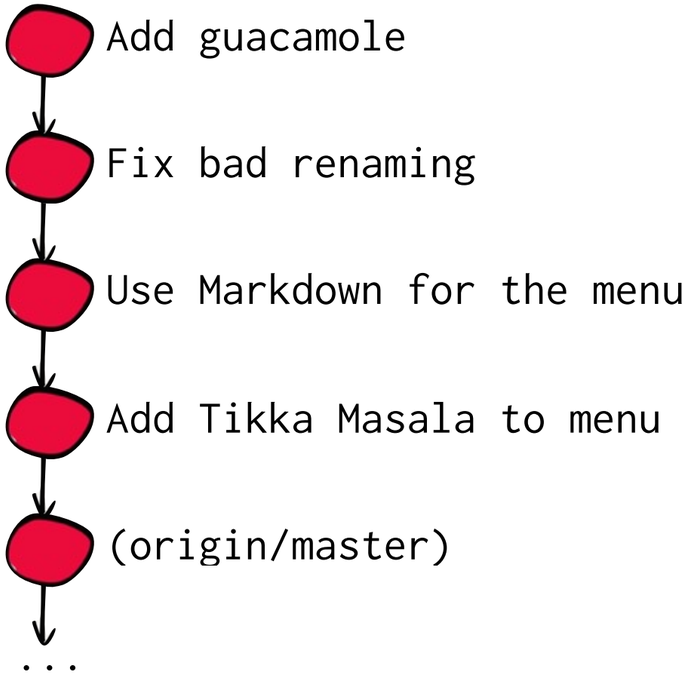
```
pick   “Add Tikka Masala to menu”
squash “Add missing tikka masala placeholder”
pick   “Use Markdown for the menu”
reword “Well, I changed my mind about that renaming”
pick   “Add guacamole”
squash “Add onion to guacamole”
squash “Add tomato to guacamole”
pick   “Make README all uppercase”
pick   “Add Caesar Salad to menu"
```



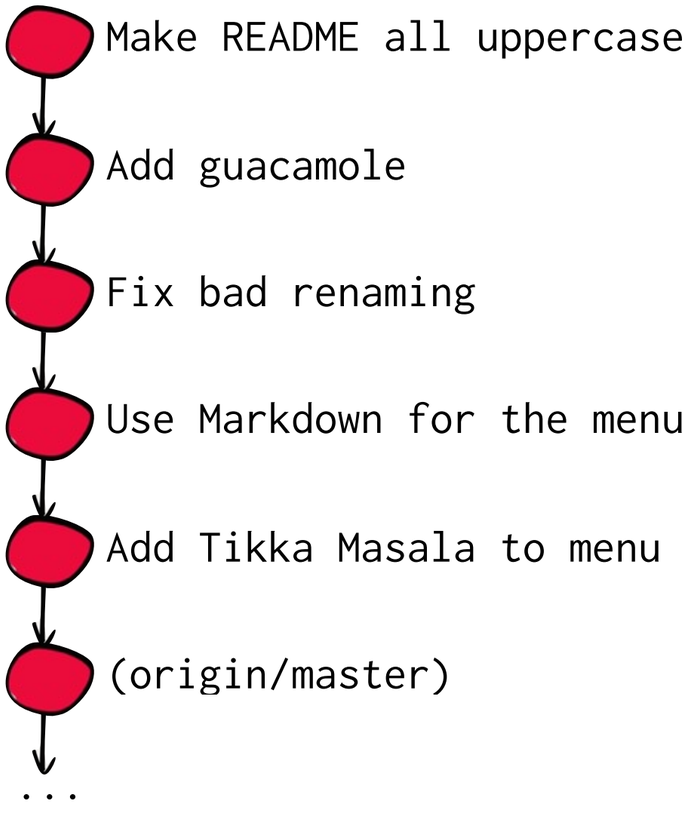
```
pick   “Add Tikka Masala to menu”
squash “Add missing tikka masala placeholder”
pick   “Use Markdown for the menu”
reword “Well, I changed my mind about that renaming”
pick   “Add guacamole”
squash “Add onion to guacamole”
squash “Add tomato to guacamole”
pick   “Make README all uppercase”
pick   “Add Caesar Salad to menu"
```



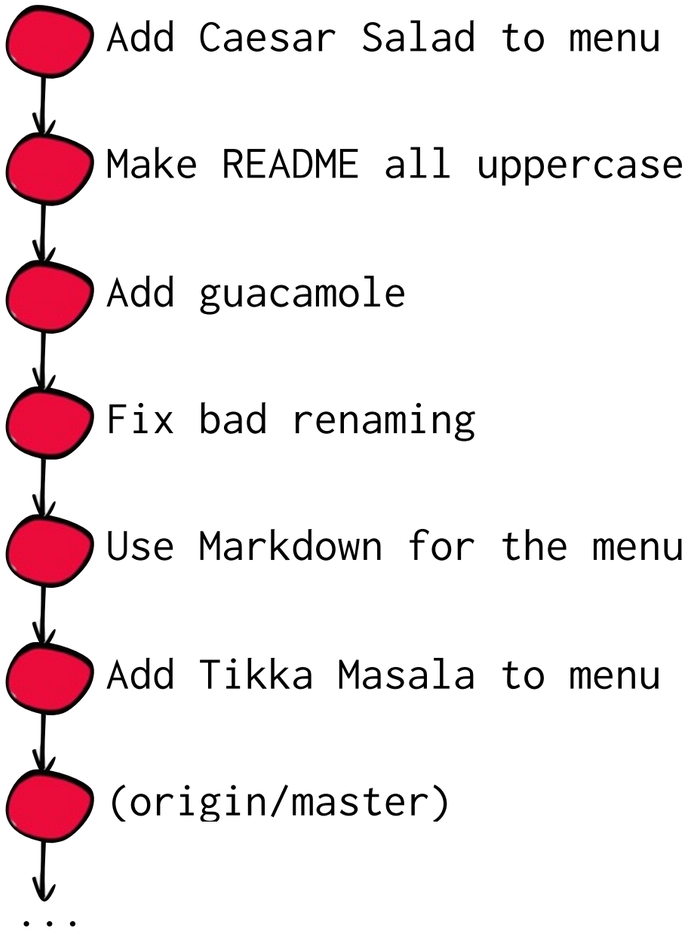
```
pick   “Add Tikka Masala to menu”
squash “Add missing tikka masala placeholder”
pick   “Use Markdown for the menu”
reword “Well, I changed my mind about that renaming”
pick   “Add guacamole”
squash “Add onion to guacamole”
squash “Add tomato to guacamole”
pick   “Make README all uppercase”
pick   “Add Caesar Salad to menu"
```

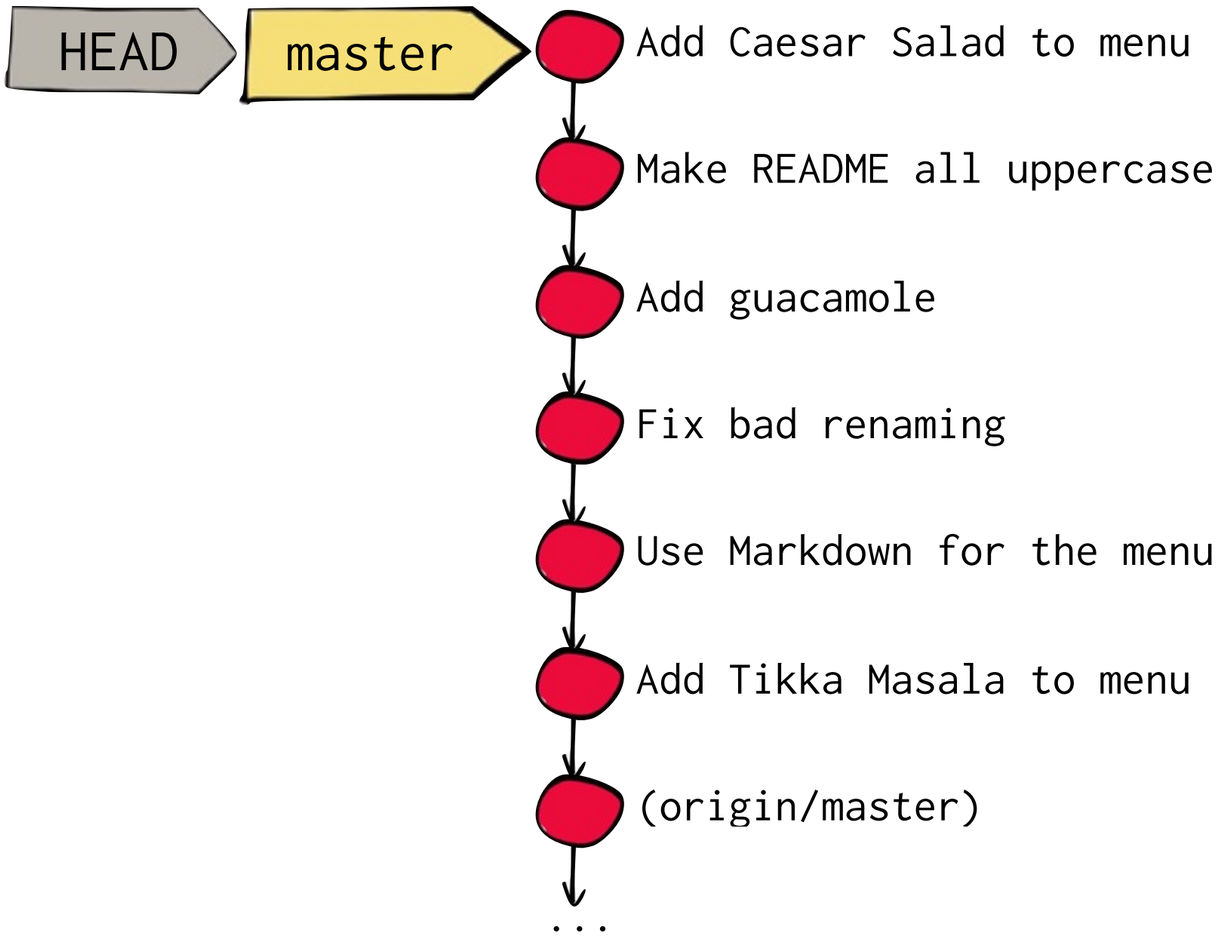


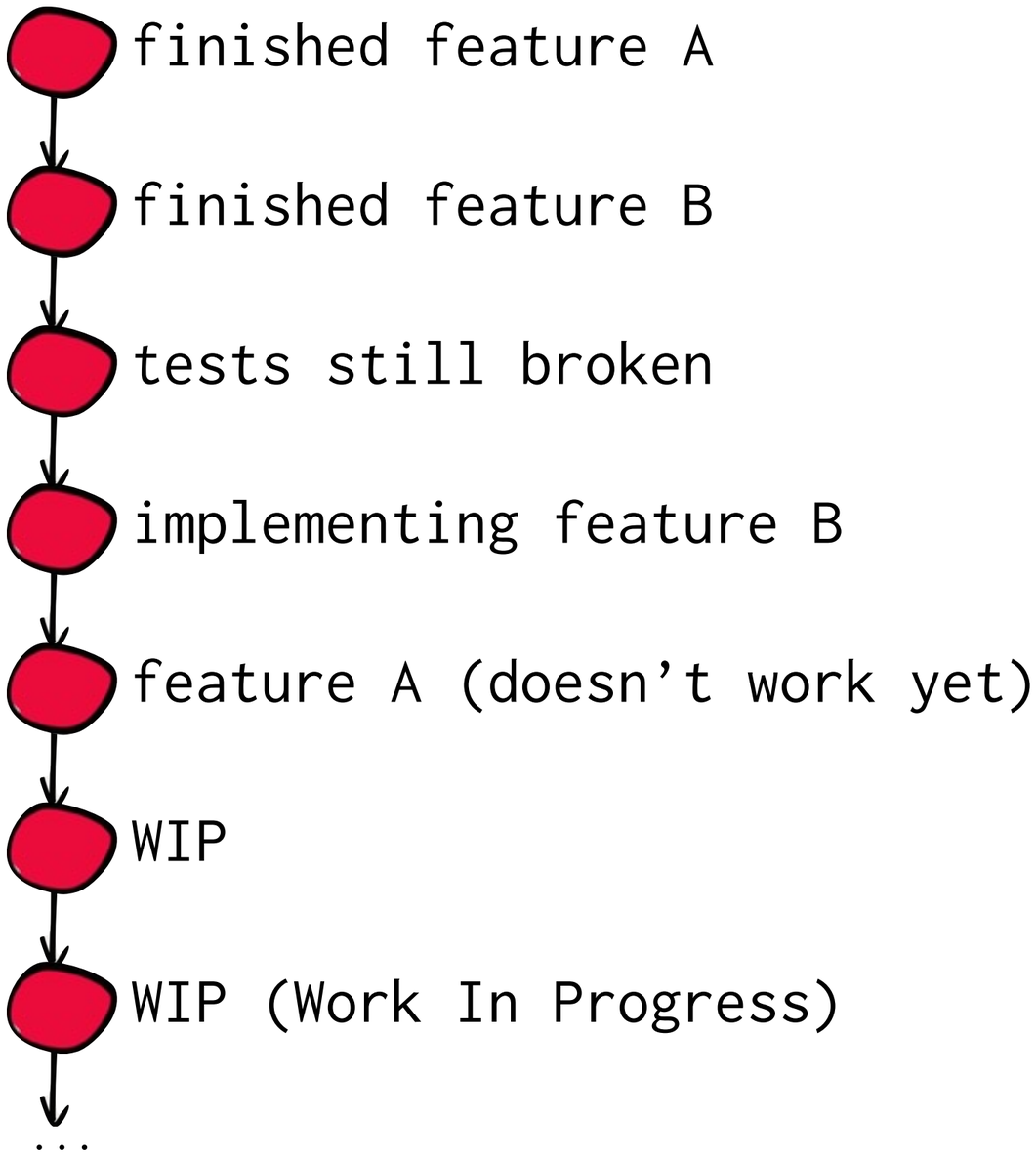
```
pick   “Add Tikka Masala to menu”
squash “Add missing tikka masala placeholder”
pick   “Use Markdown for the menu”
reword “Well, I changed my mind about that renaming”
pick   “Add guacamole”
squash “Add onion to guacamole”
squash “Add tomato to guacamole”
pick   “Make README all uppercase”
pick   “Add Caesar Salad to menu"
```

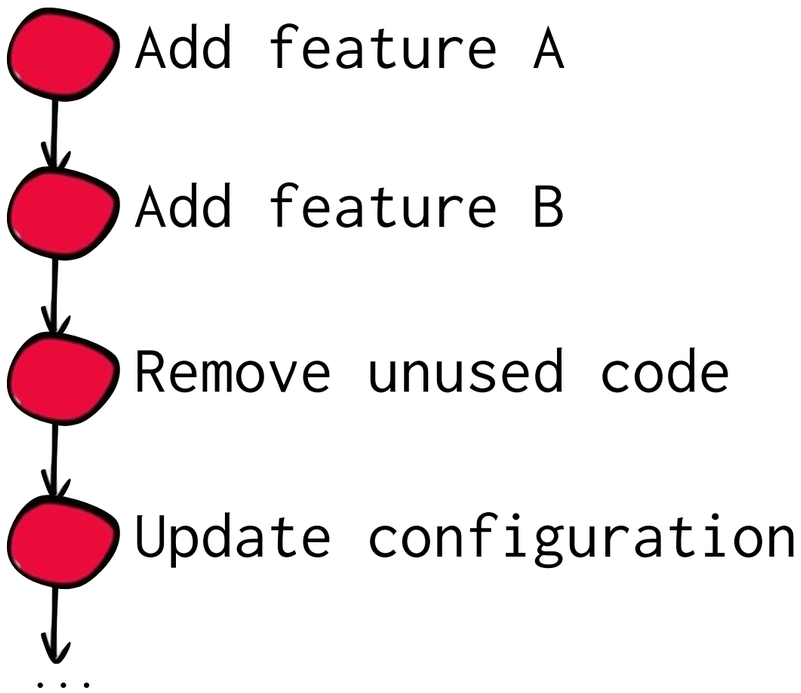


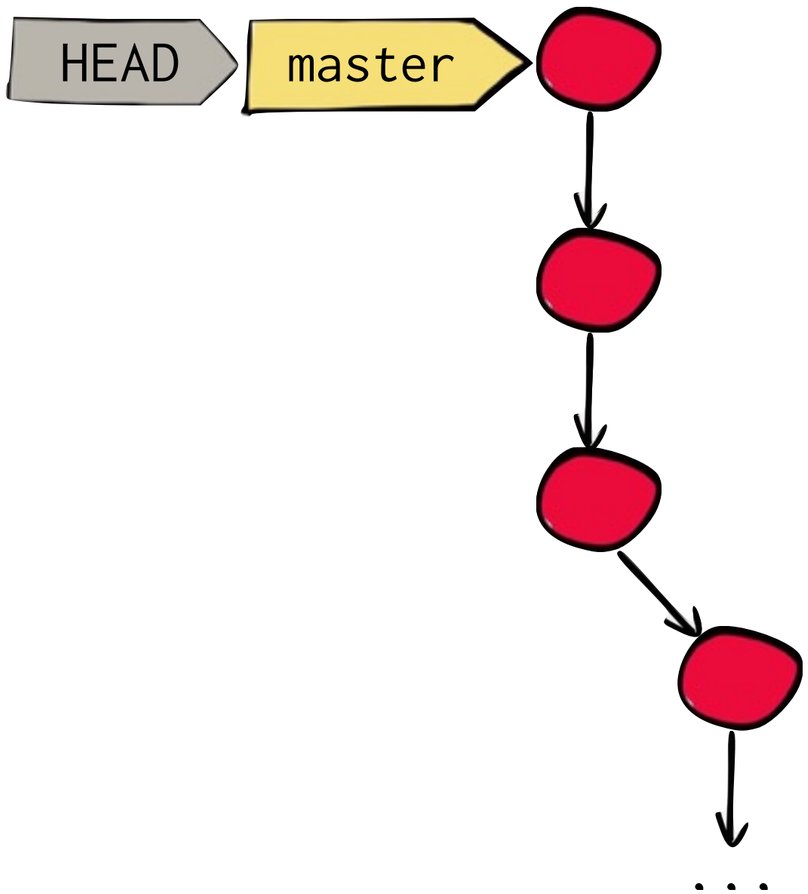
```
pick   “Add Tikka Masala to menu”
squash “Add missing tikka masala placeholder”
pick   “Use Markdown for the menu”
reword “Well, I changed my mind about that renaming”
pick   “Add guacamole”
squash “Add onion to guacamole”
squash “Add tomato to guacamole”
pick   “Make README all uppercase”
pick   “Add Caesar Salad to menu"
```

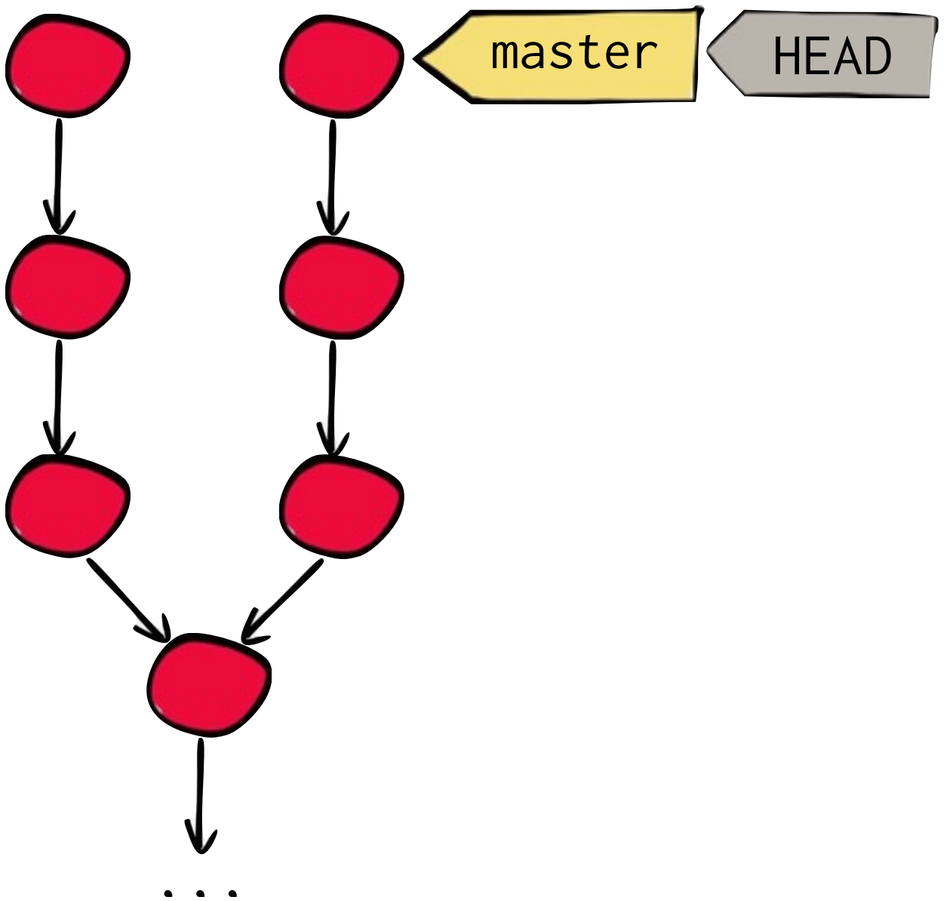


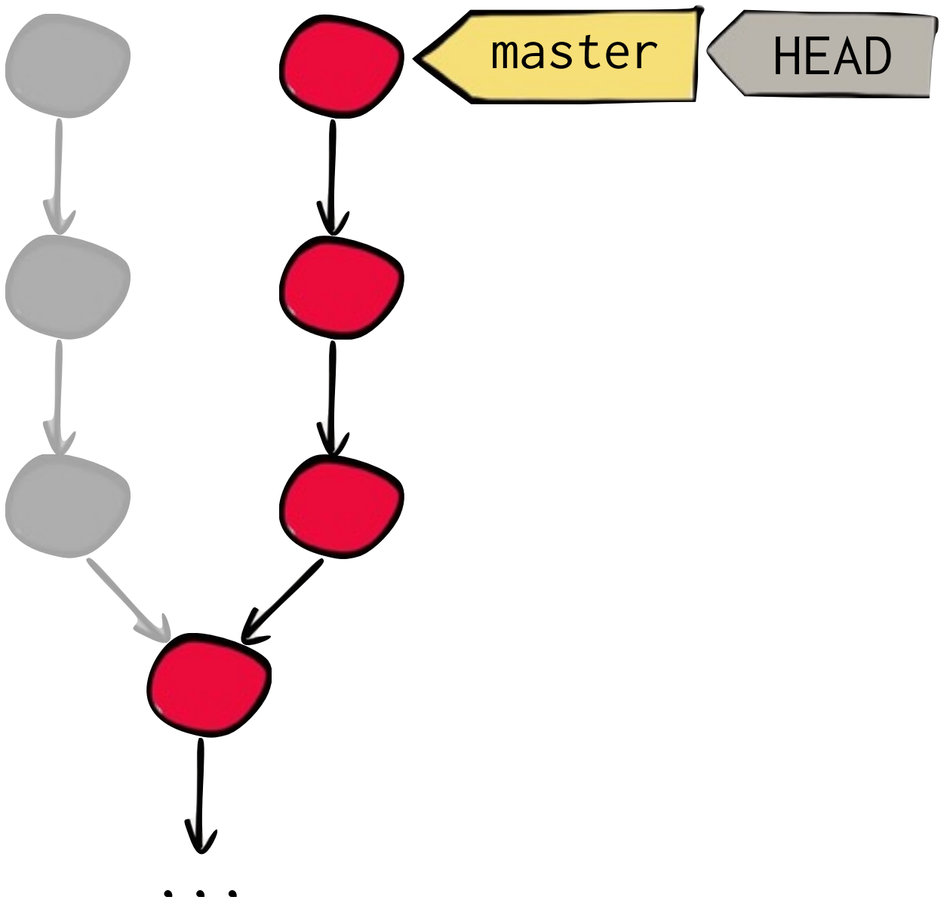

HEAD
master
Add Caesar Salad to menu
Make README all uppercase
Add guacamole
Fix bad renaming
Use Markdown for the menu
Add Tikka Masala to menu
(origin/master)
...

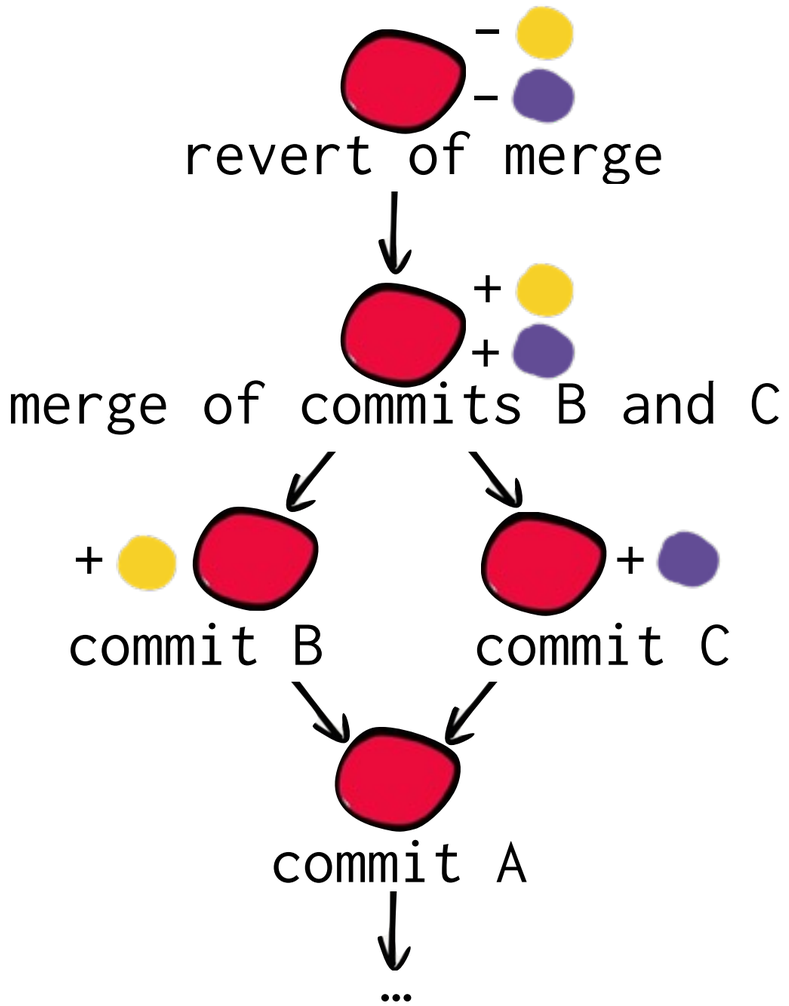

finished feature A
finished feature B
tests still broken
implementing feature B
feature A (doesn’t work yet)
WIP
WIP (Work In Progress)
...


Add feature A
Add feature B
Remove unused code
Update configuration
...


HEAD
master
...


master
HEAD


master
HEAD
...


revert of merge
merge of commits B and C
commit B
commit C
commit A
…

Be careful when you
revert merge commits.

“revert” doesn’t mean “undo”.

Summary

git commit --amend

git rebase -i

git reflog

git revert HEAD