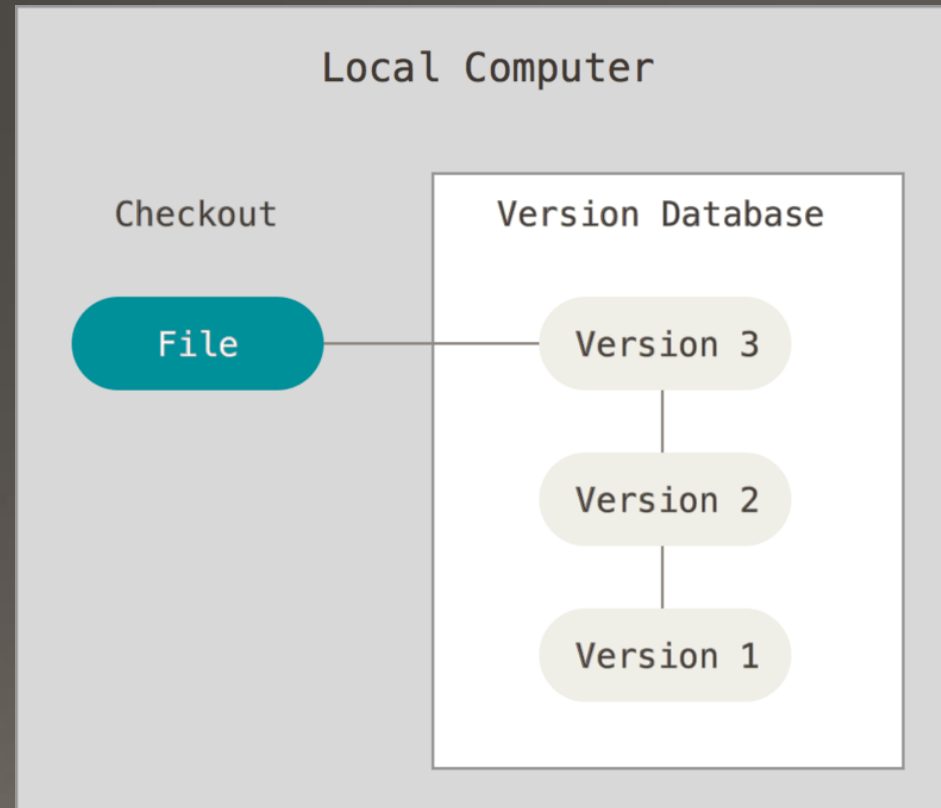


Git & GitHub



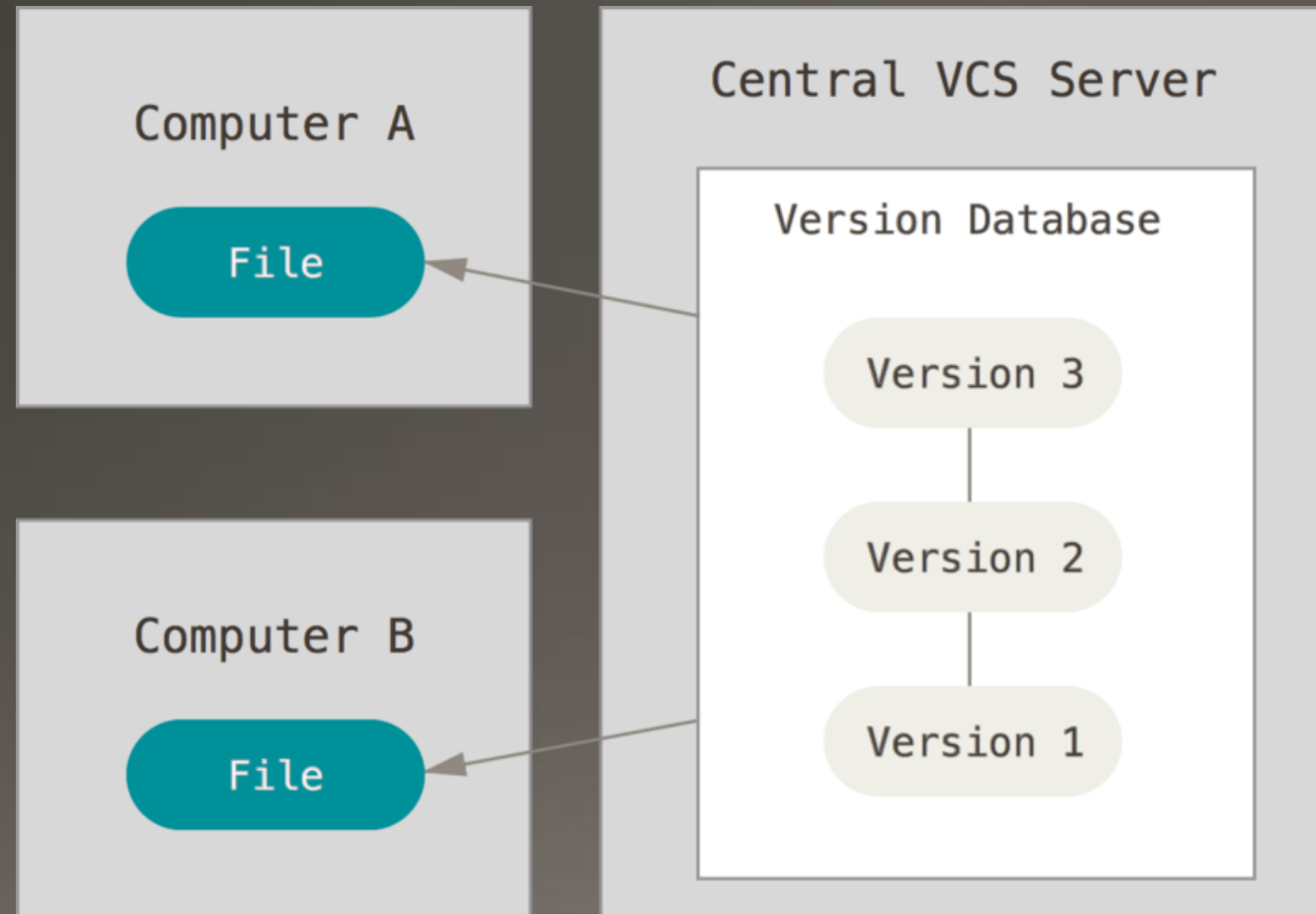
What is Version Control ?

version control is a system that records changes to a file or set of files over time so that you can recall specific versions later.

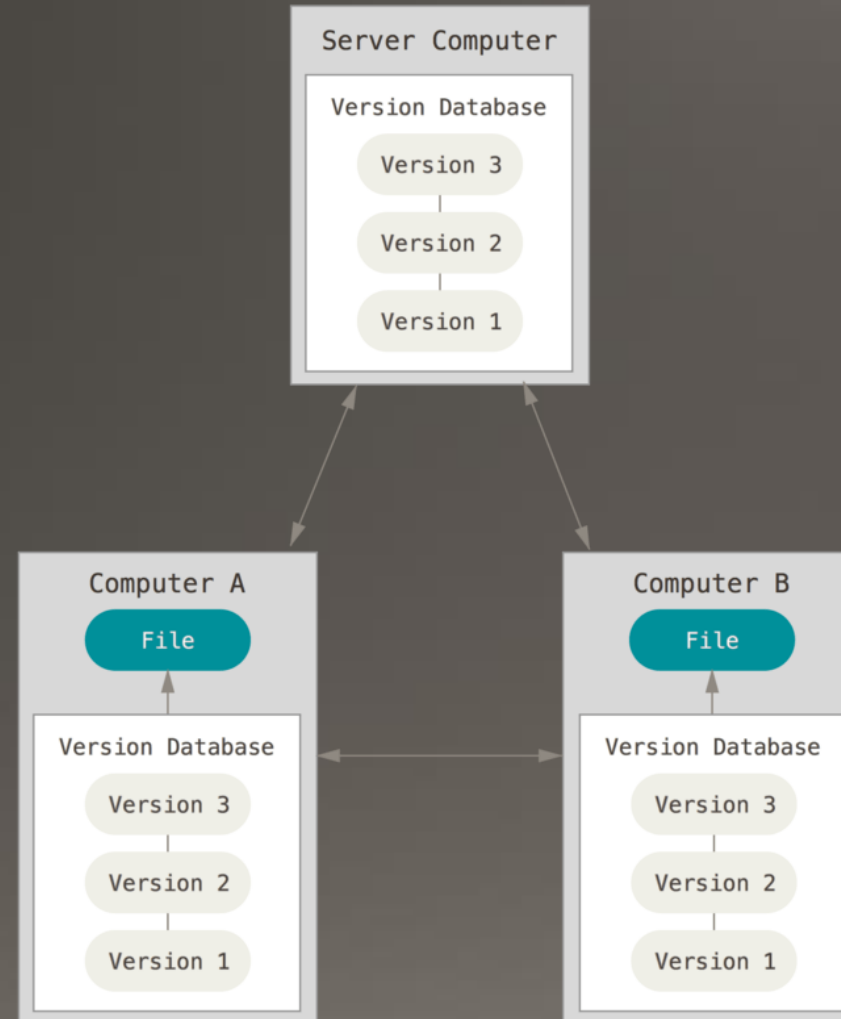


Types of VCSs

Centralized Version Control Systems



Distributed version control system.



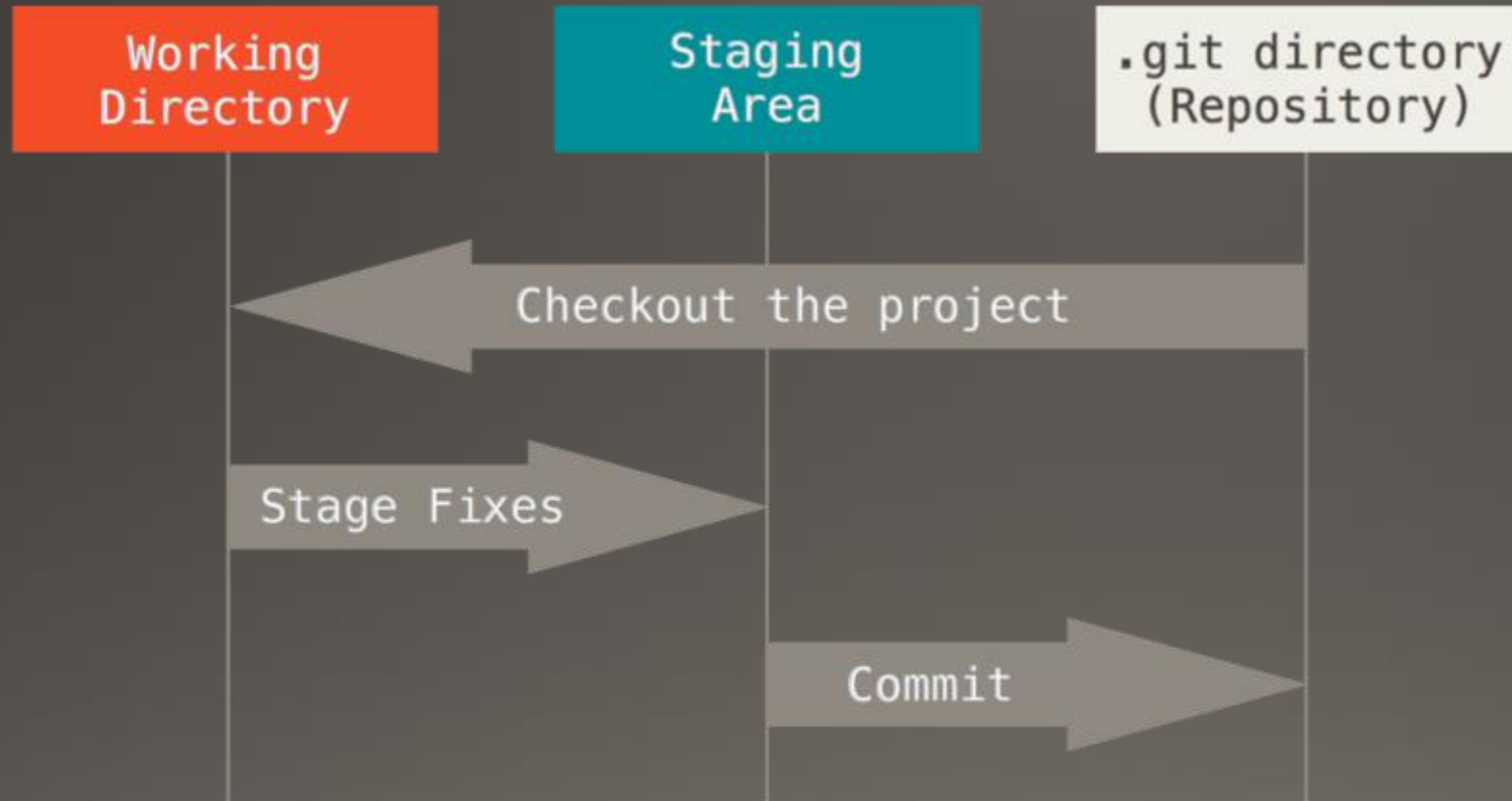
What is Git ?

Git is a distributed version control system.

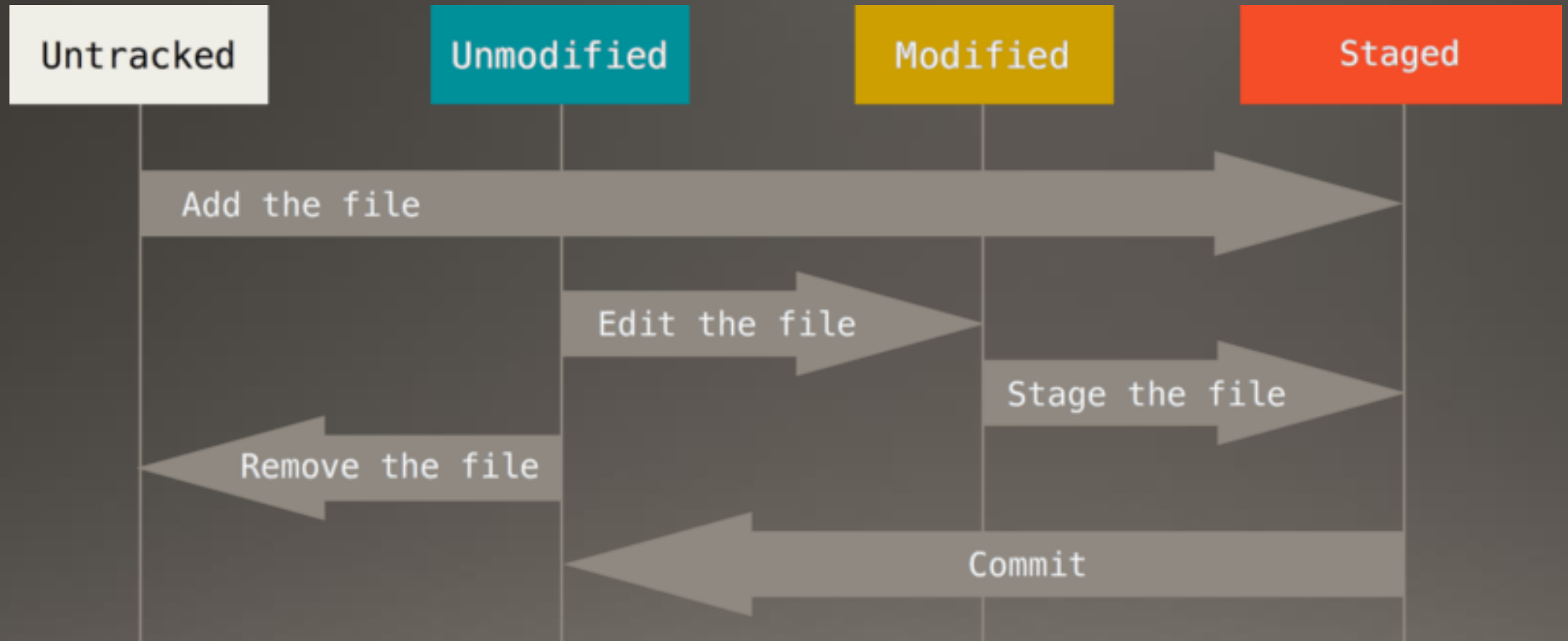
Snapshots, Not Differences



The Three States



Recording Changes to the Repository



Git Branching and Merging

Branch & HEAD pointer

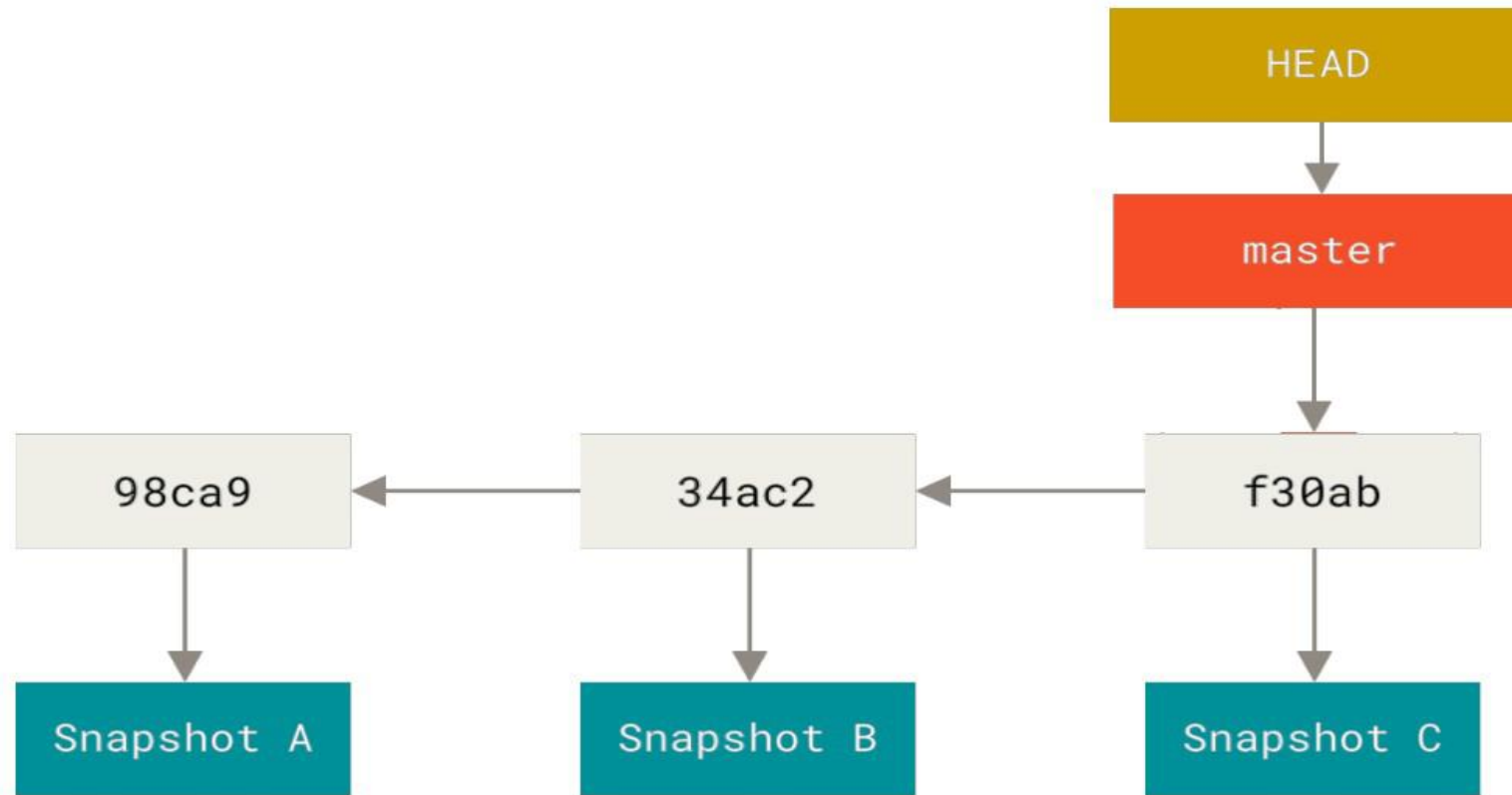


Figure 11. A branch and its commit history



Creating a branch:

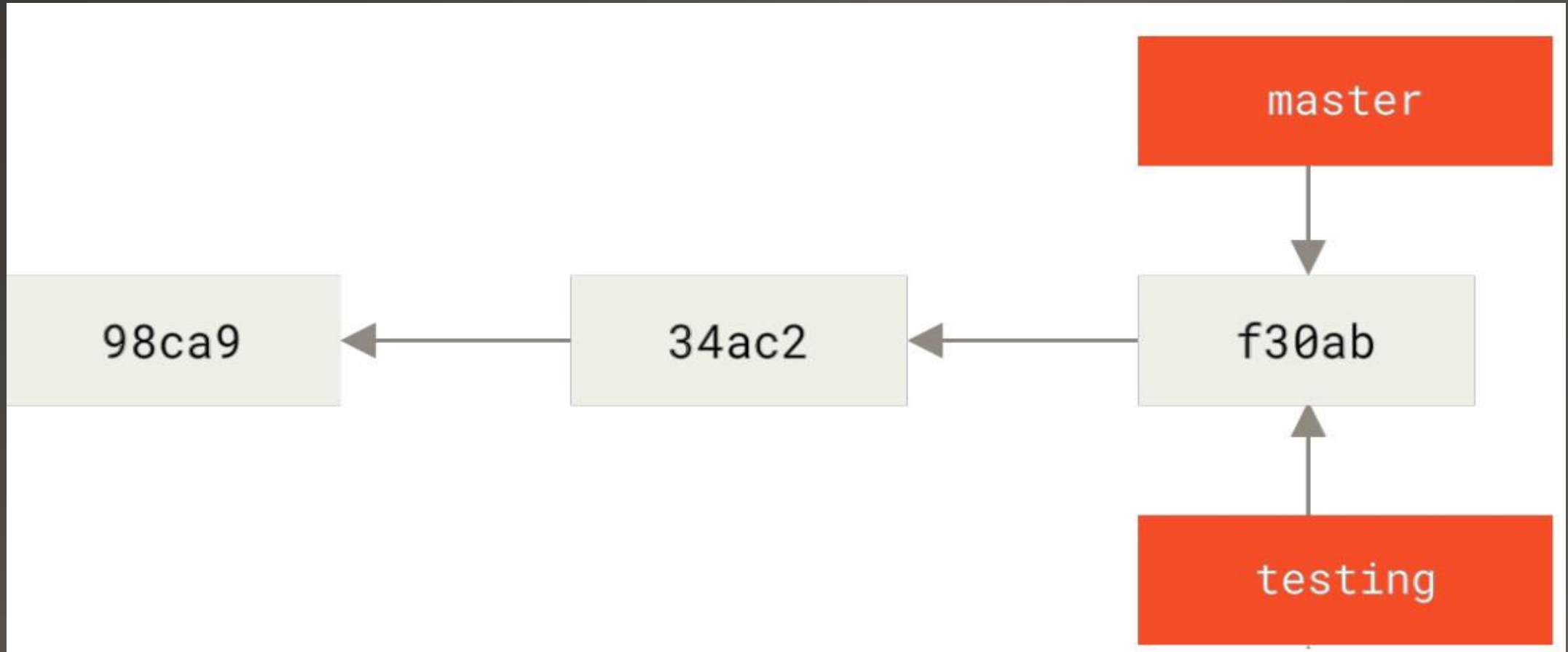


Figure 12. Two branches pointing into the same series of commits



Creating a branch:

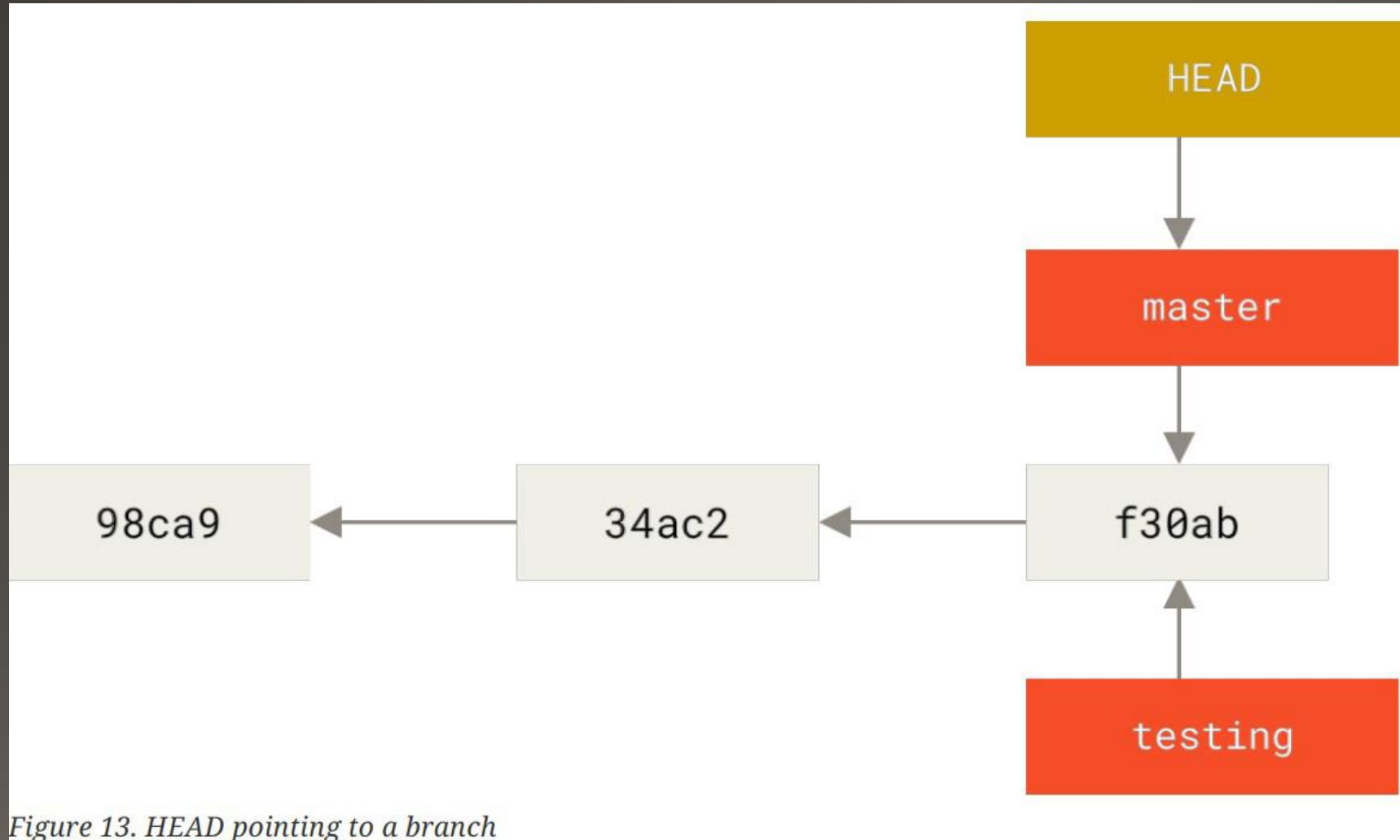
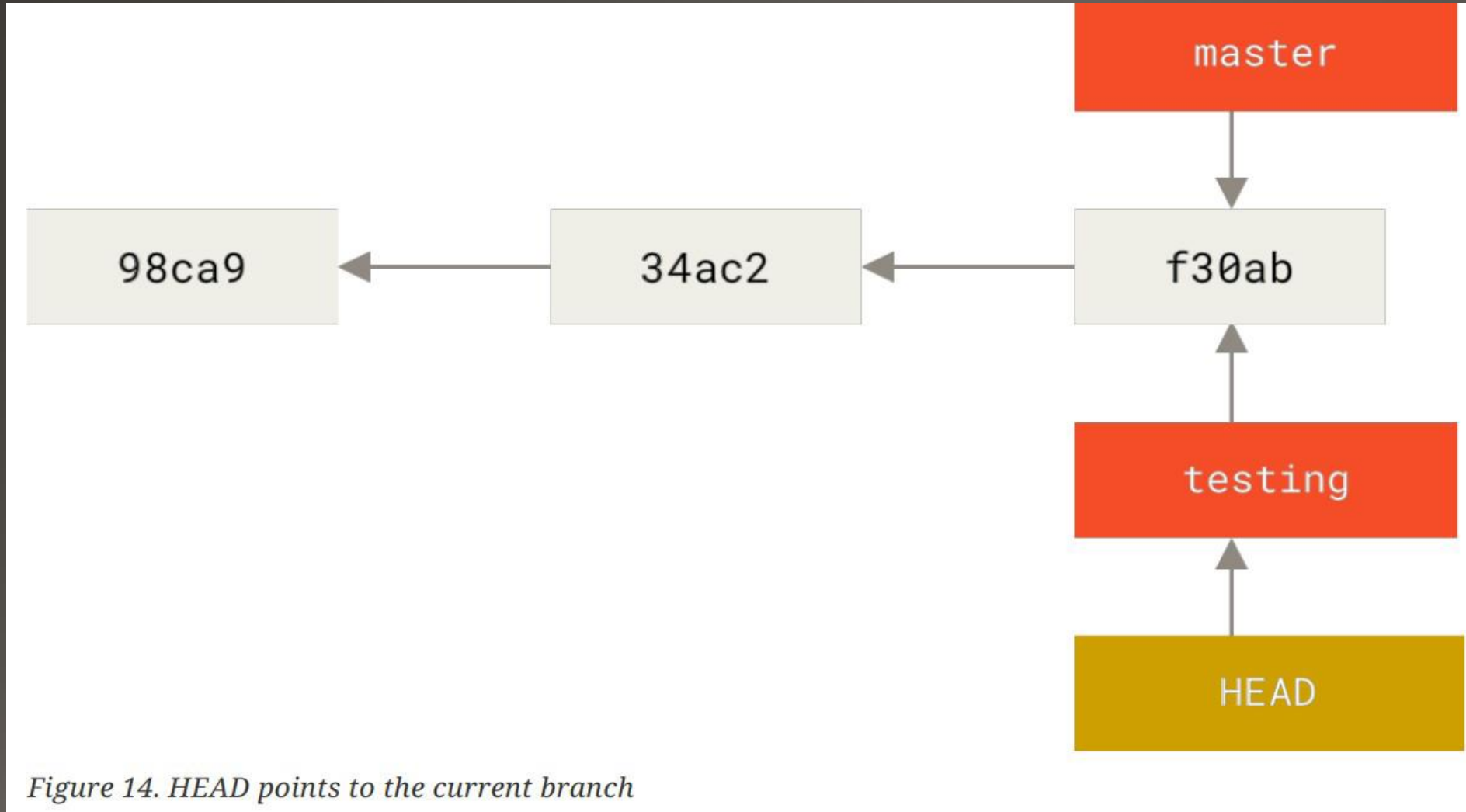


Figure 13. HEAD pointing to a branch



Switching between branches



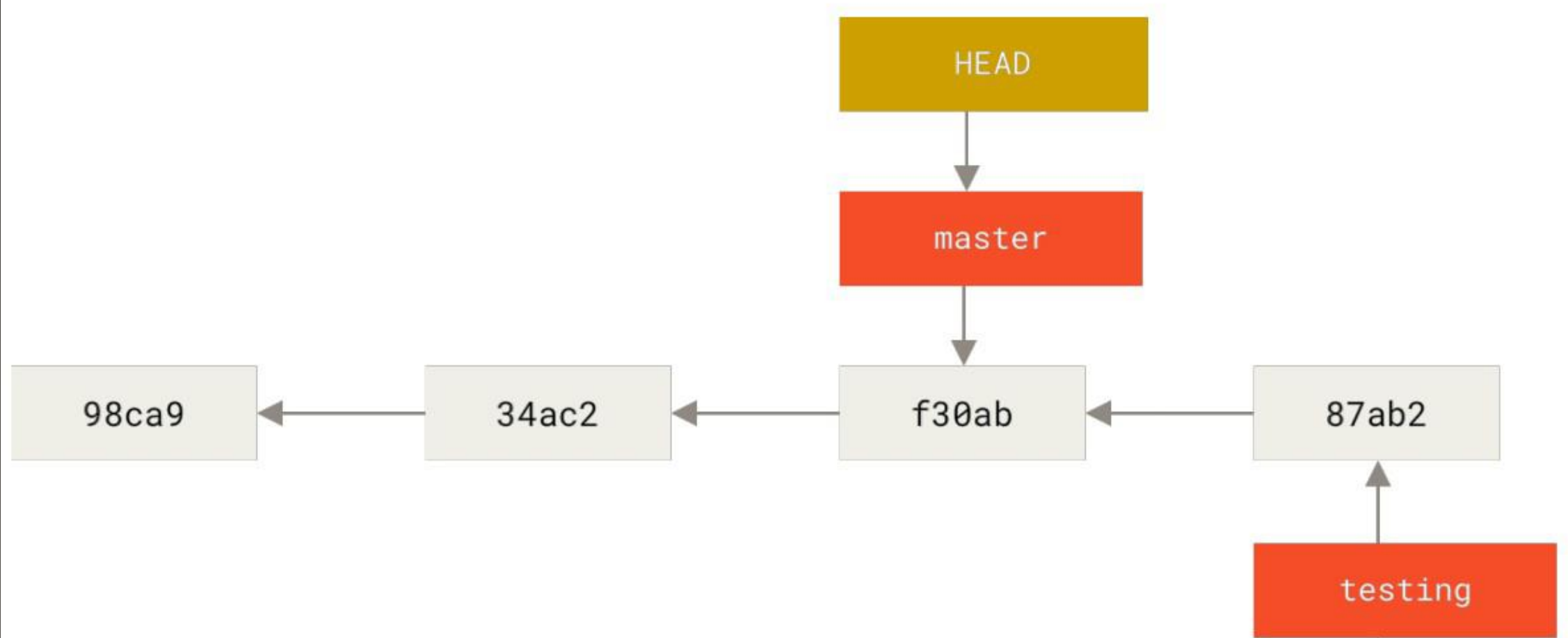


Figure 16. HEAD moves when you checkout



Divergent history

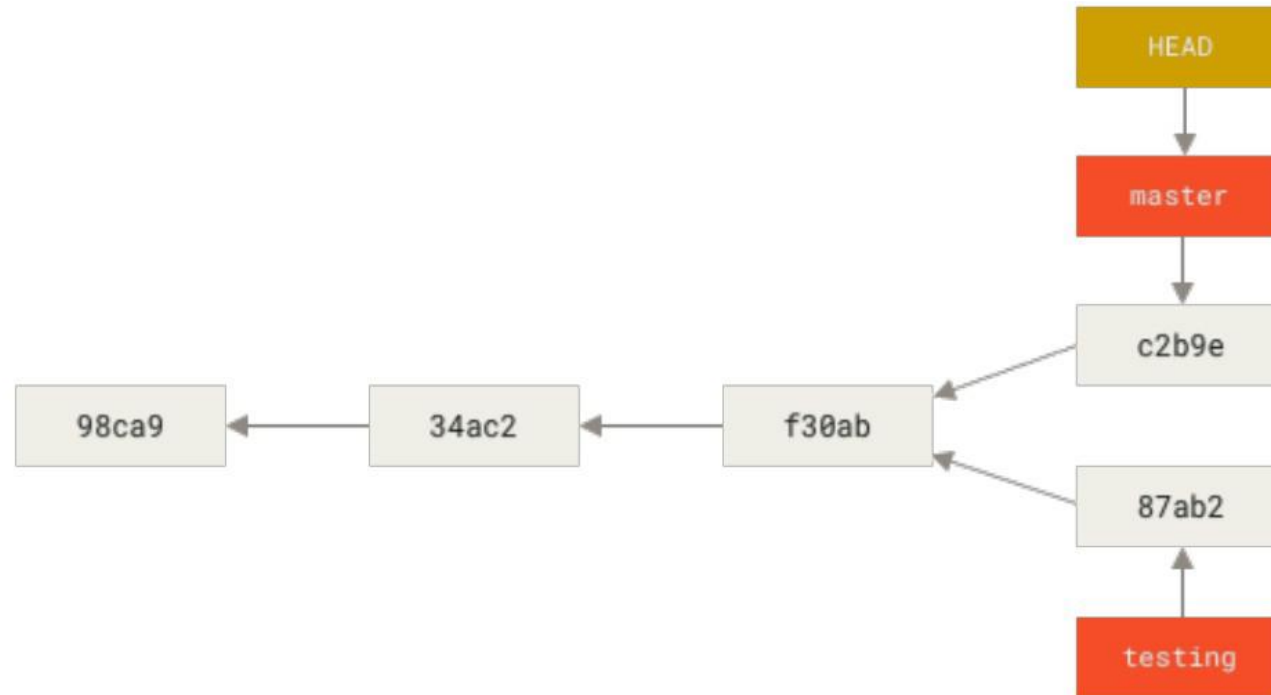
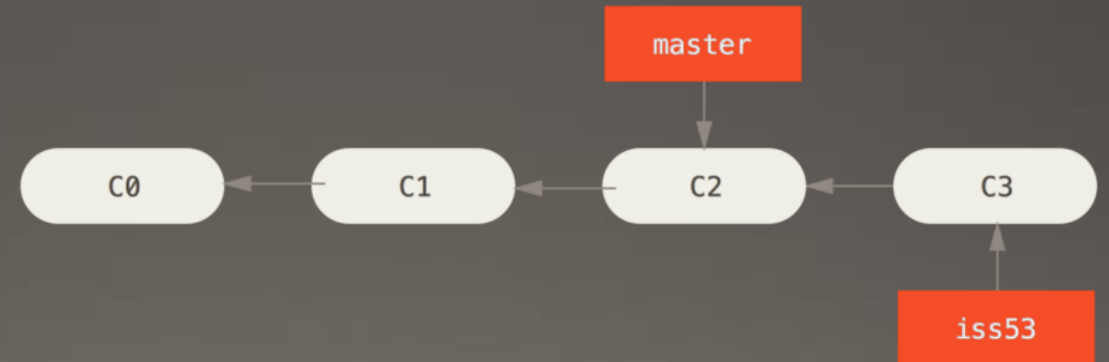
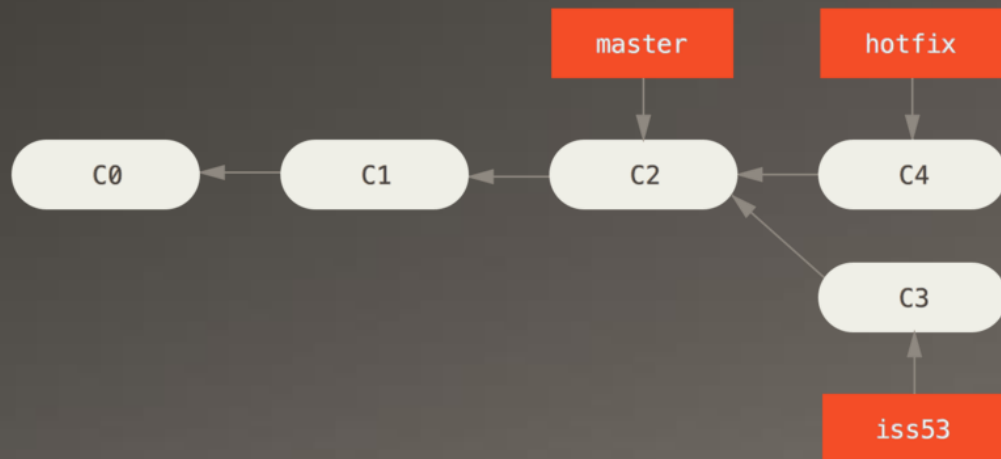
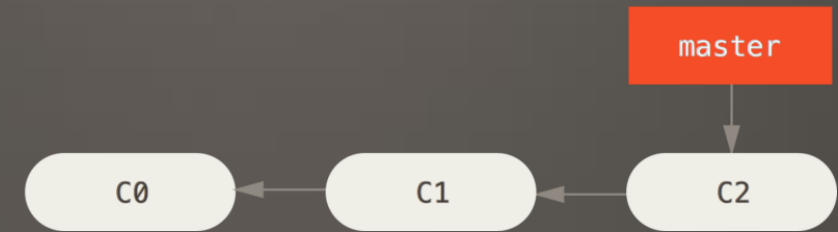
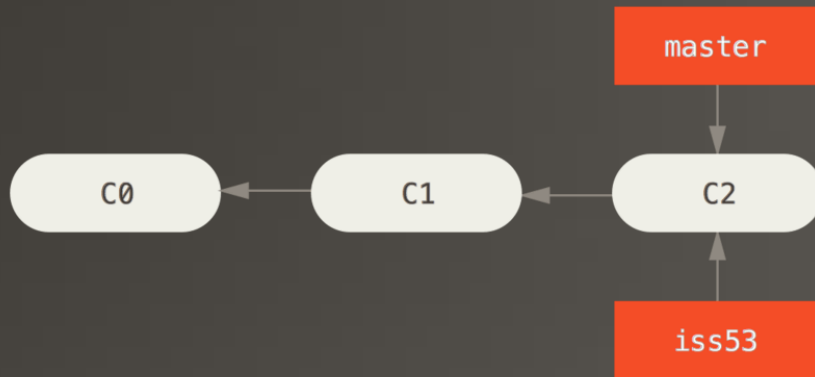


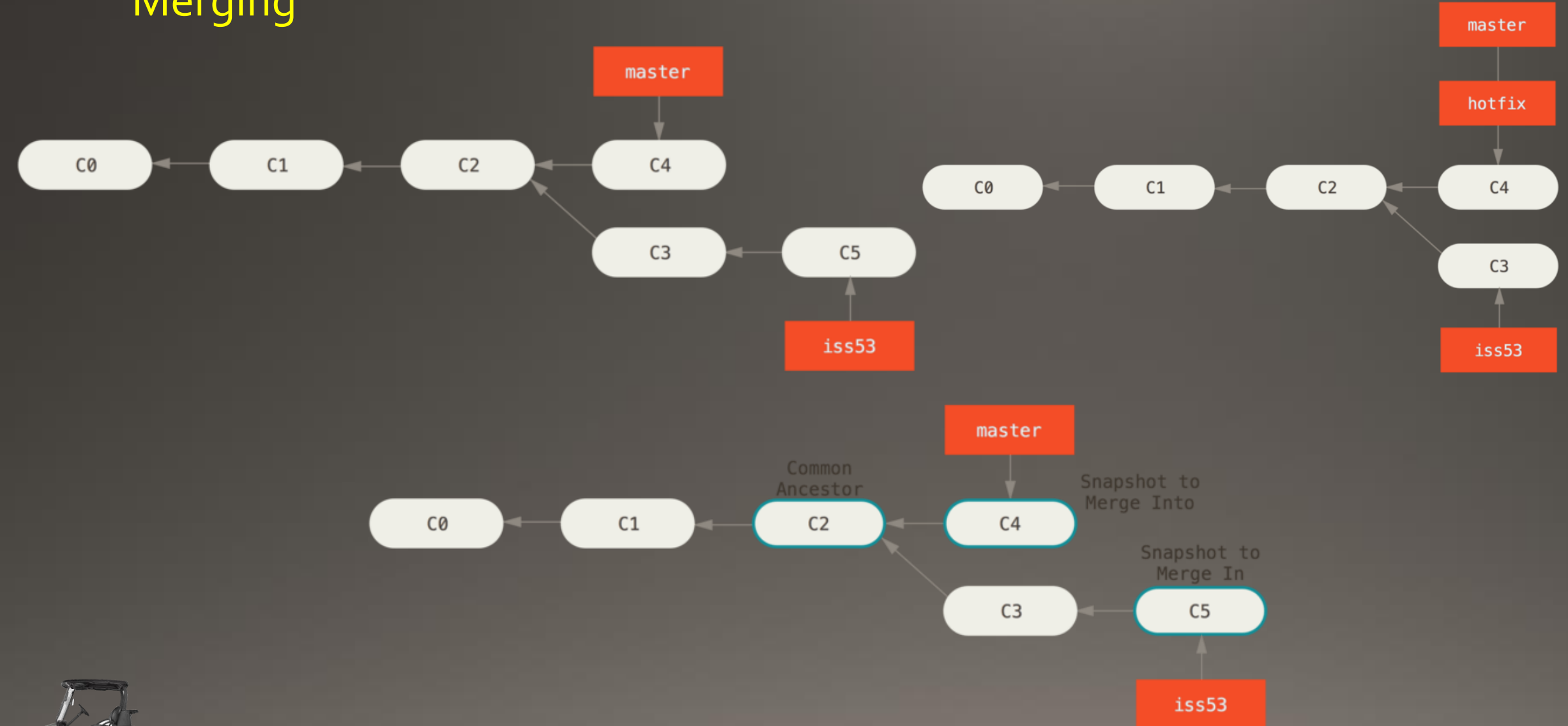
Figure 17. Divergent history



Merging

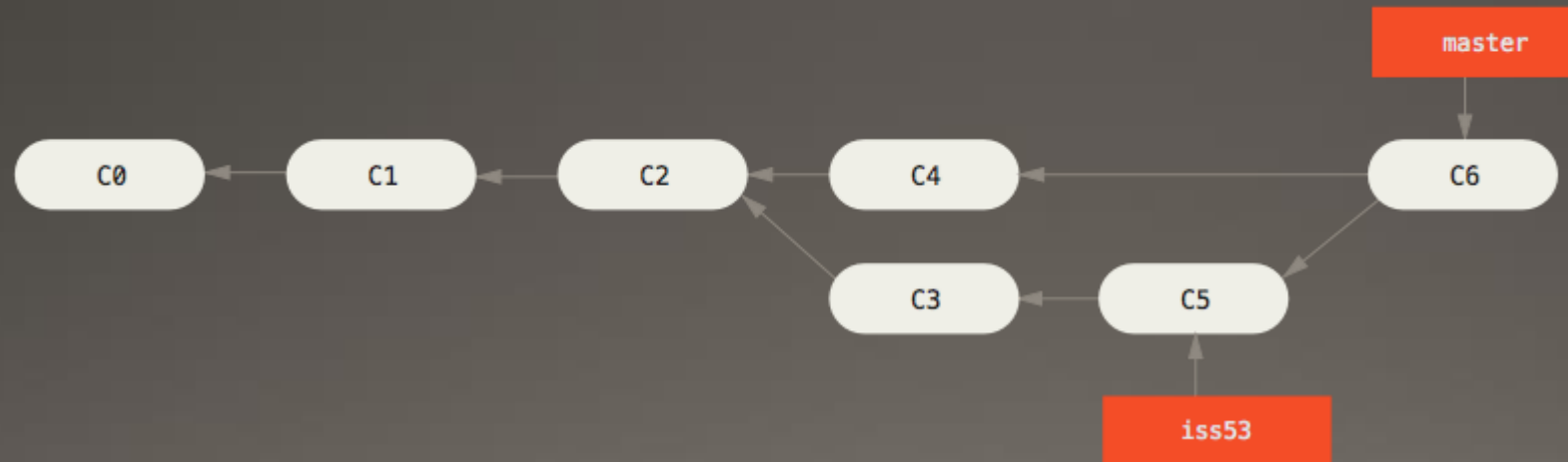


Merging



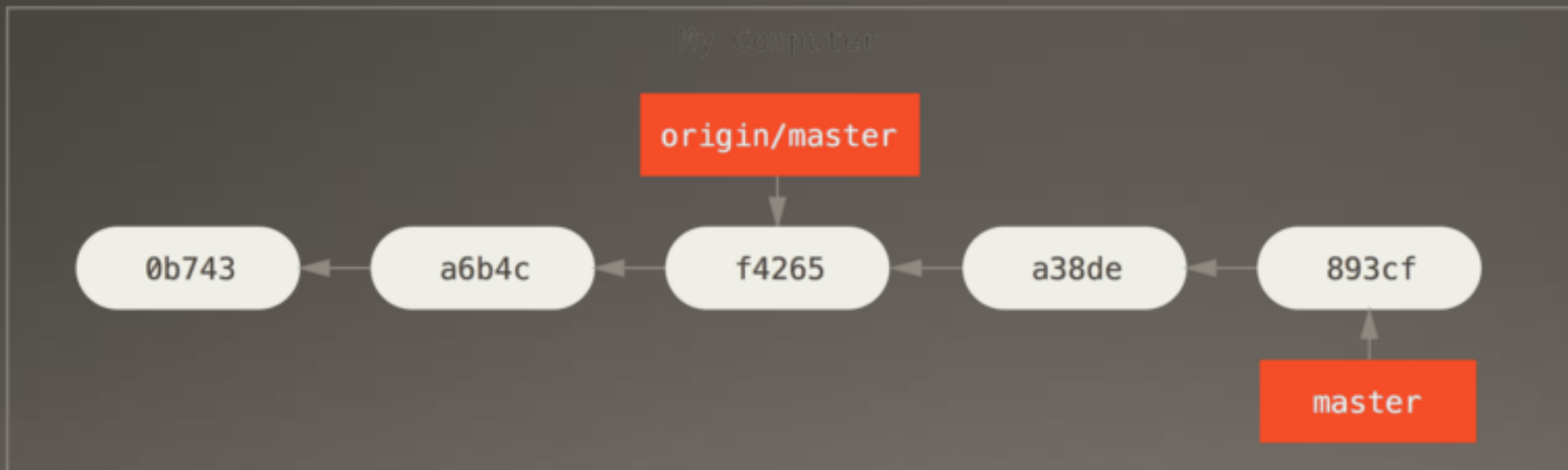
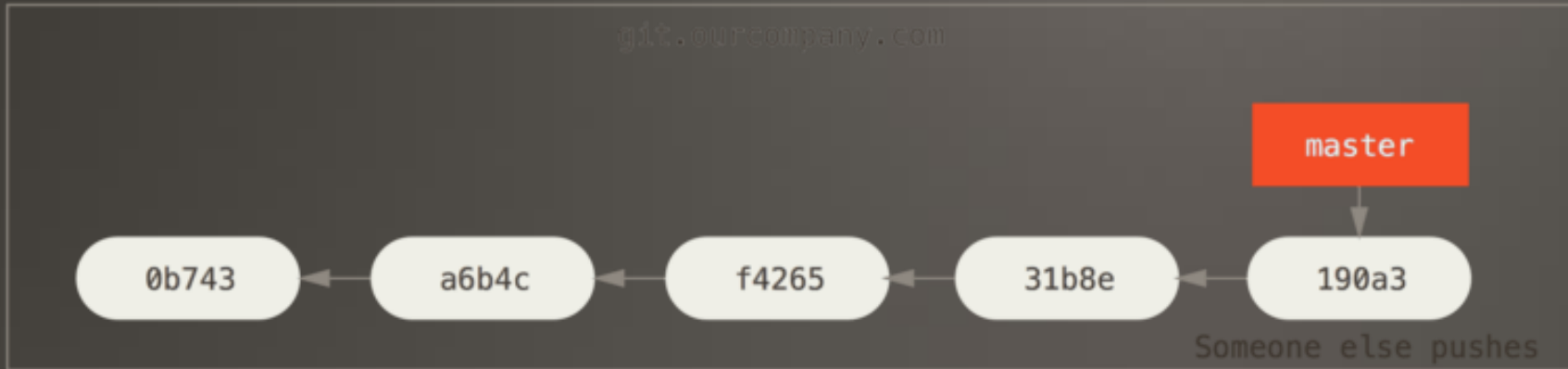
Merging

- Three way merging
- Now you can delete the iss53 branch

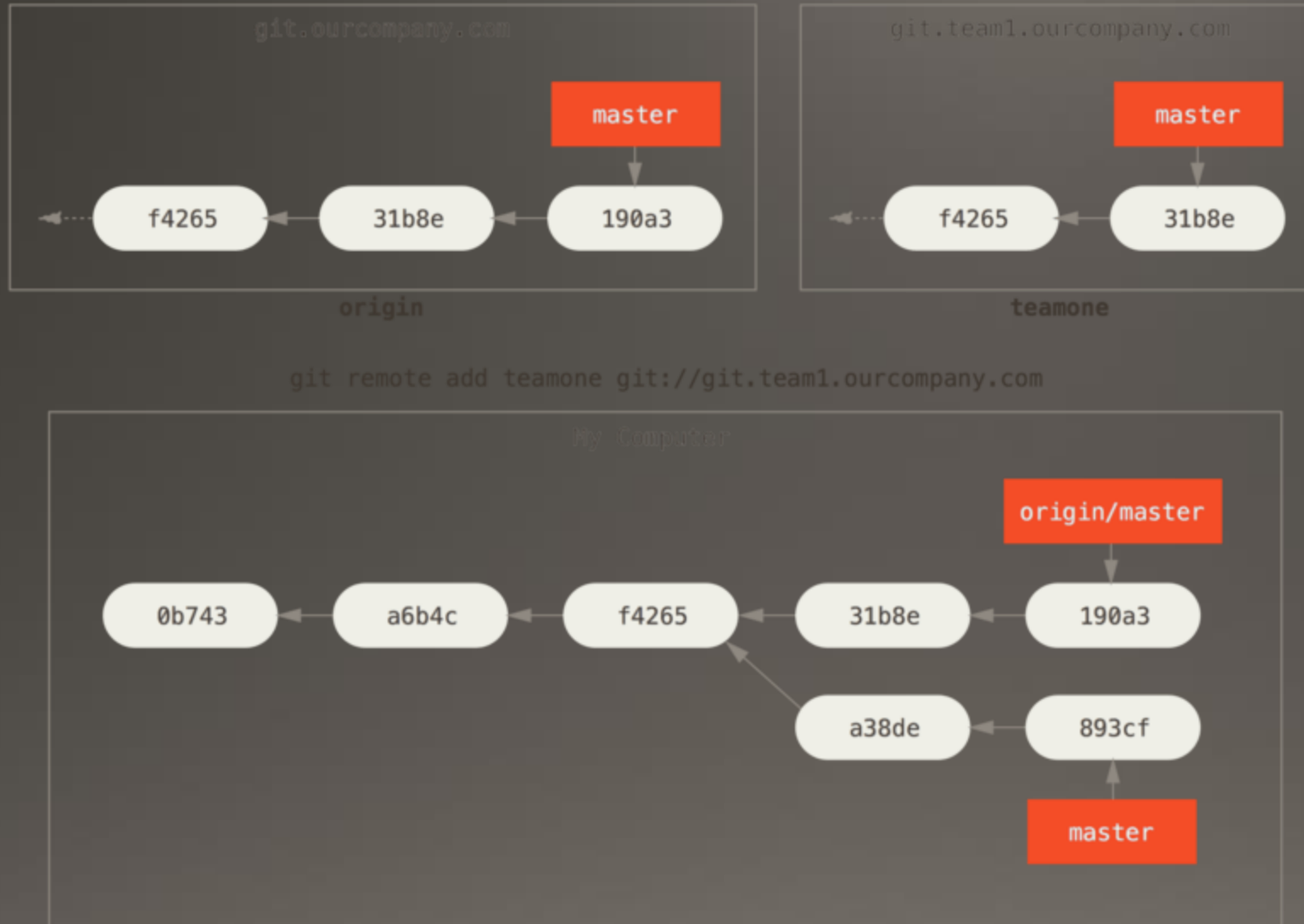


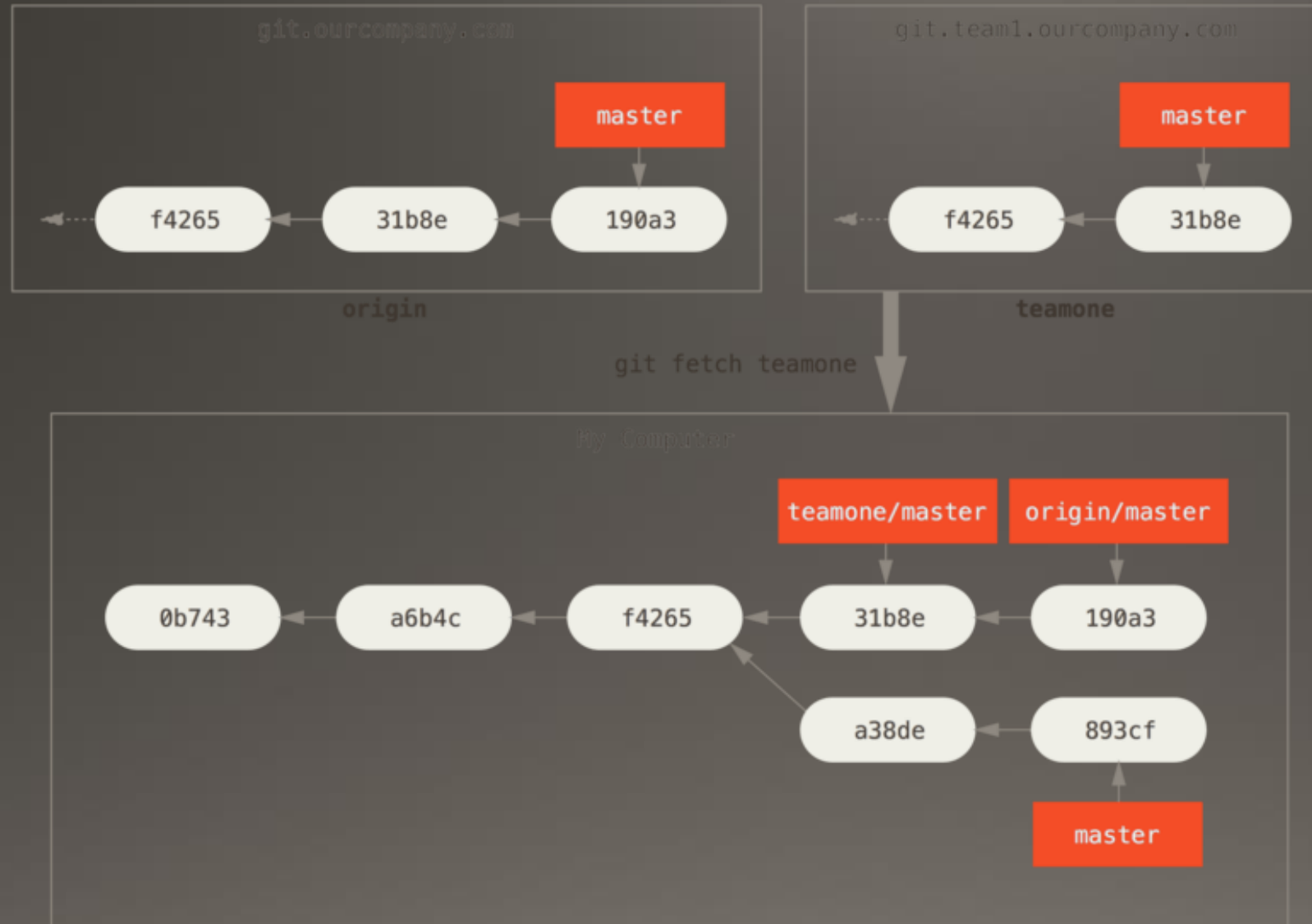
Remote Branches











courses to be finished

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

<https://www.udacity.com/course/writing-readmes--ud777>



Thank You

