

Branches Demystified



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Git Is..

...a Stupid Content Tracker



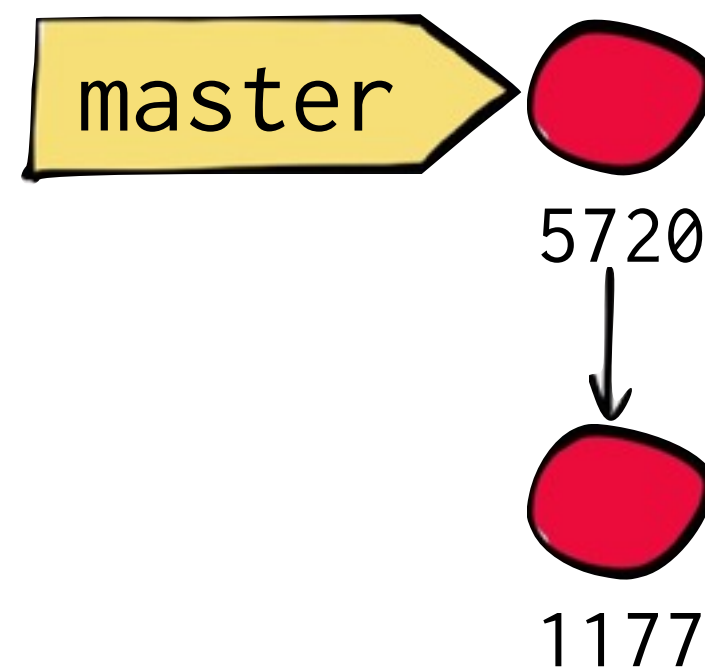
Git Is..

...a Revision Control System



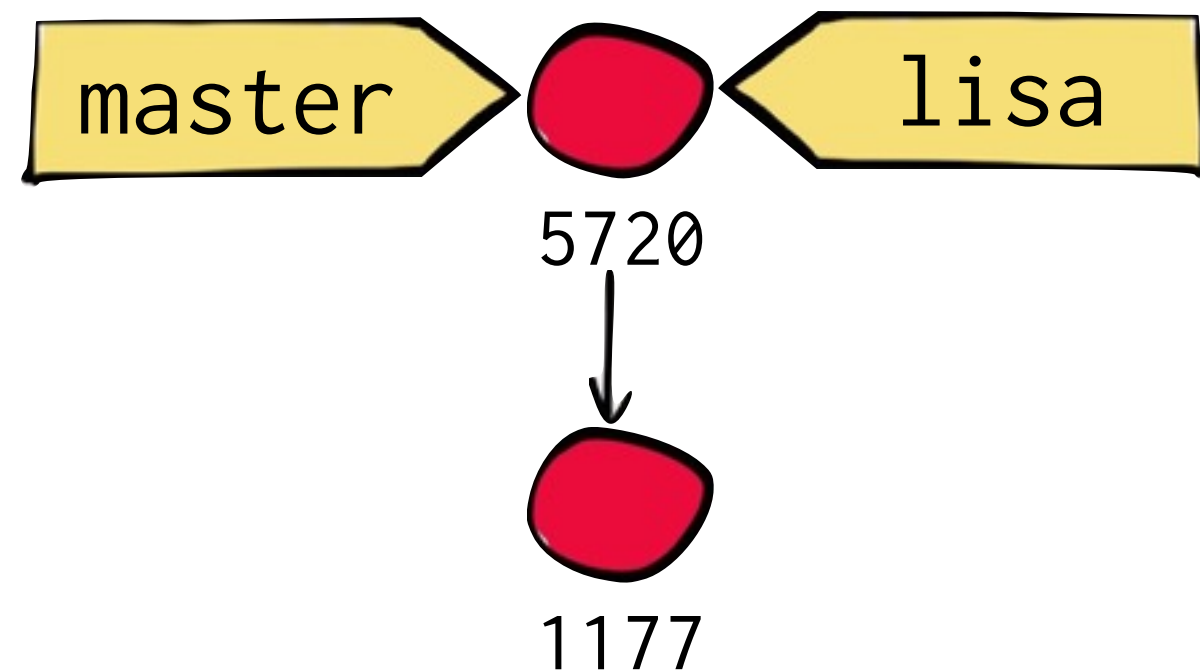
Git branches might not
be what you think they are.

The Master Branch

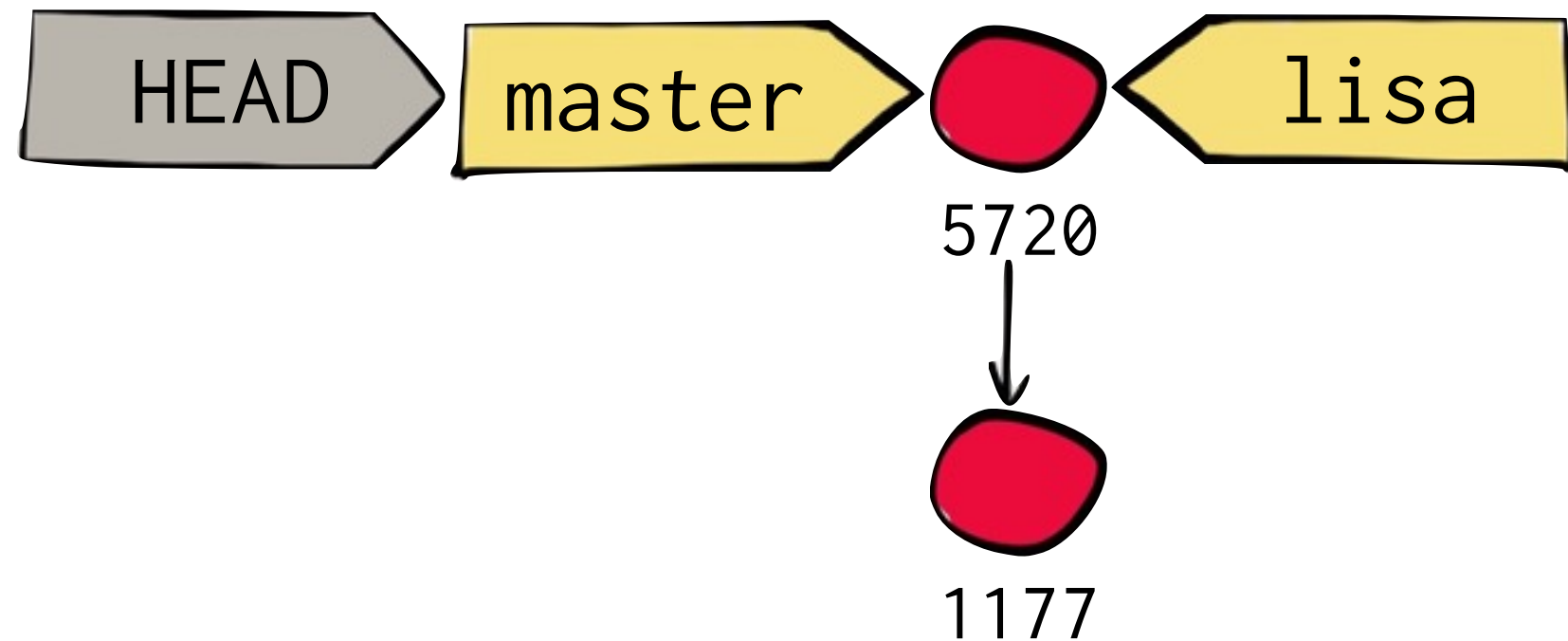


A branch is just a
reference to a commit.

A Second Branch

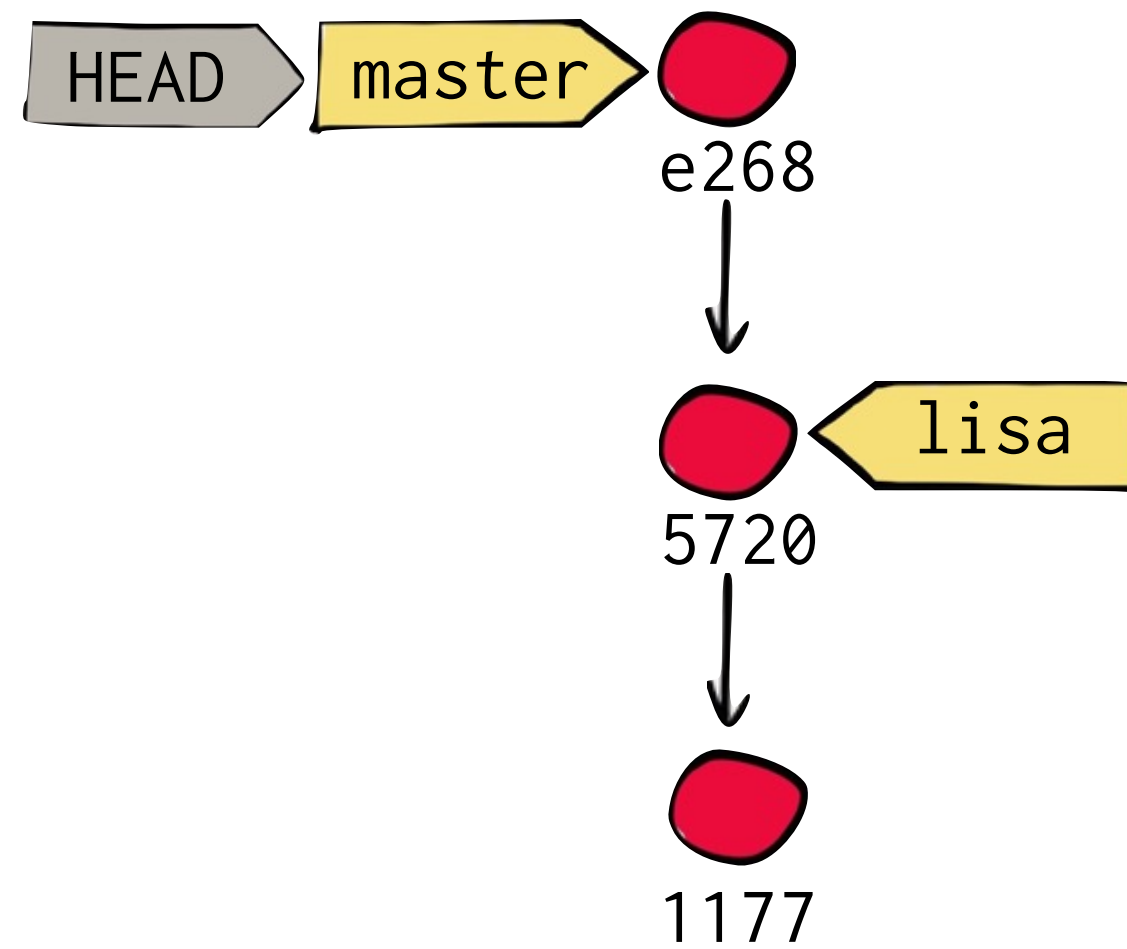


The Current Branch

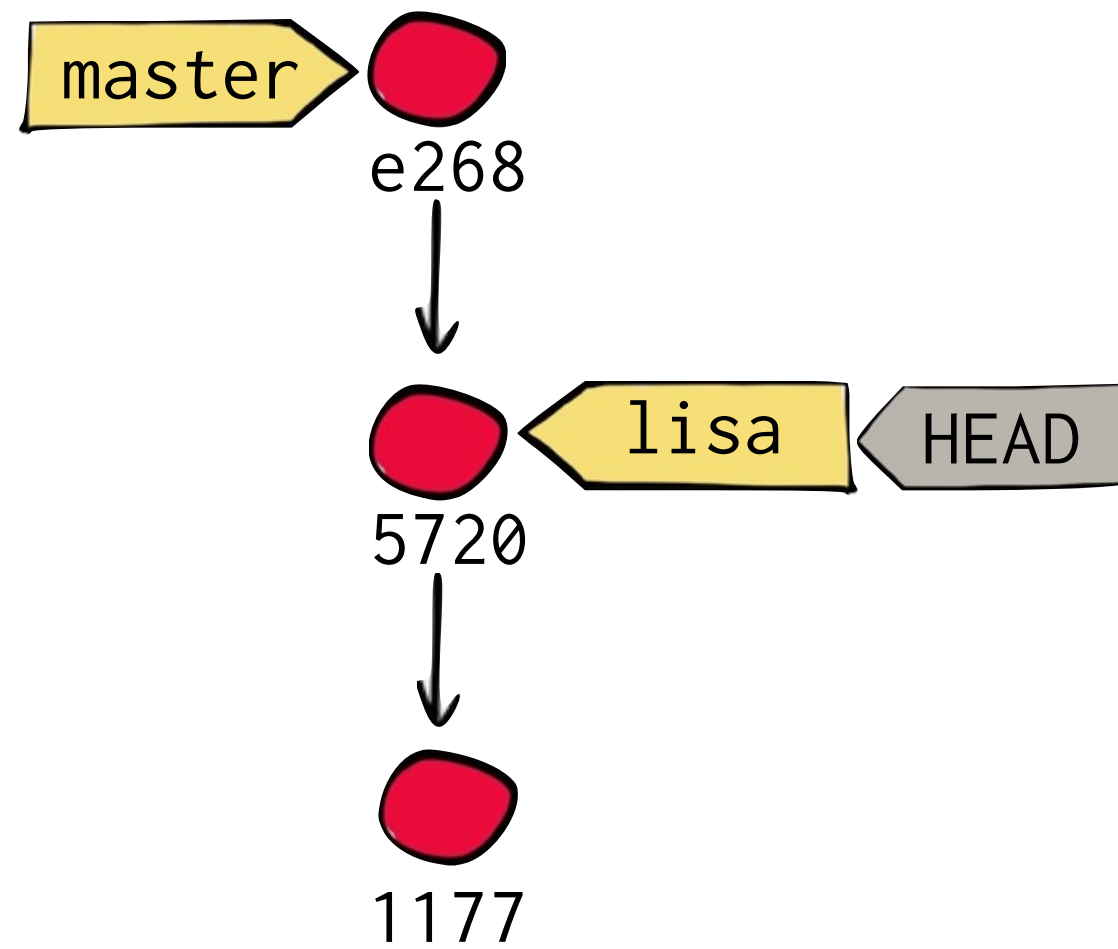


HEAD is just a reference to a branch.

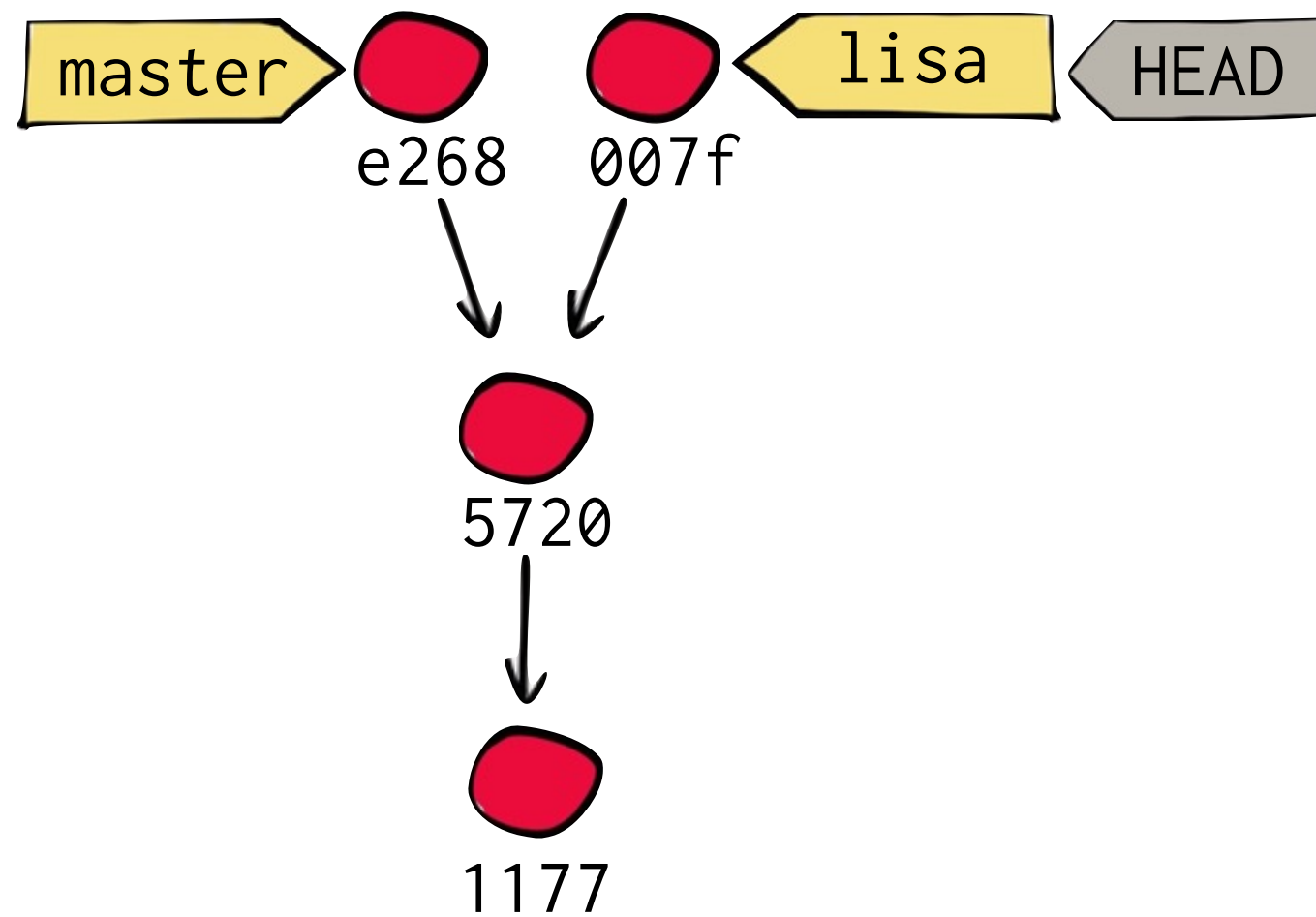
A New Commit



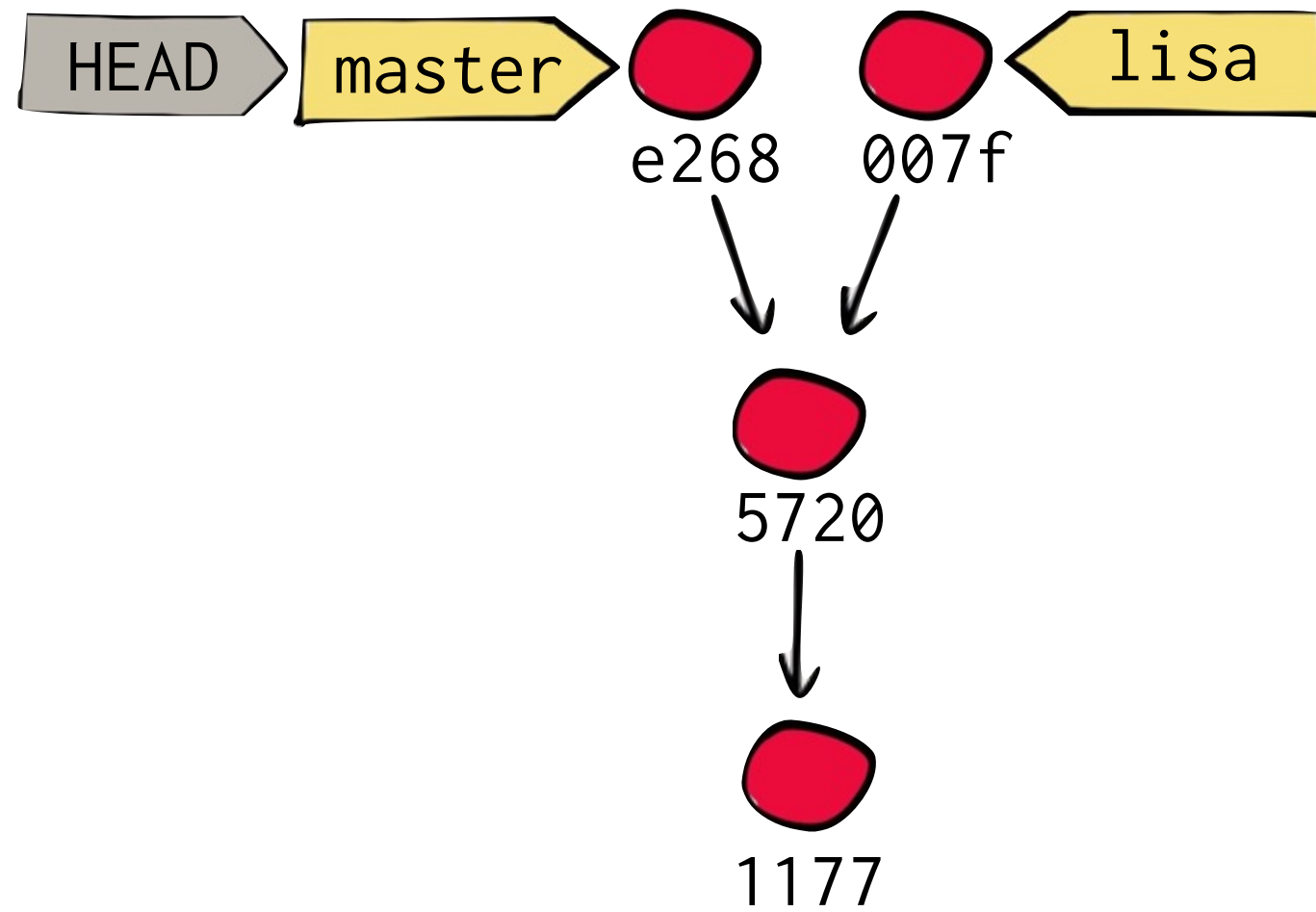
Checkout



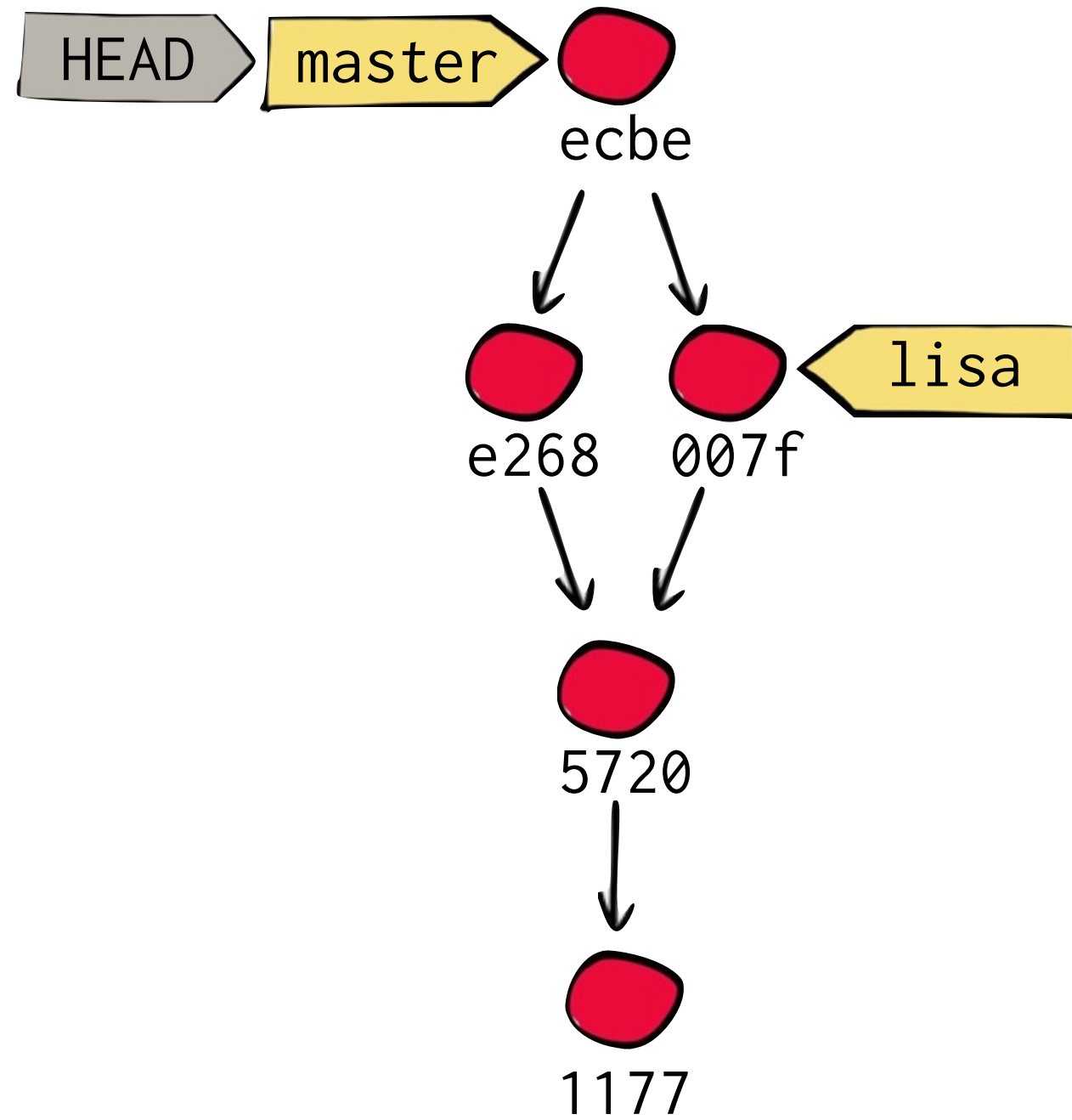
Branching



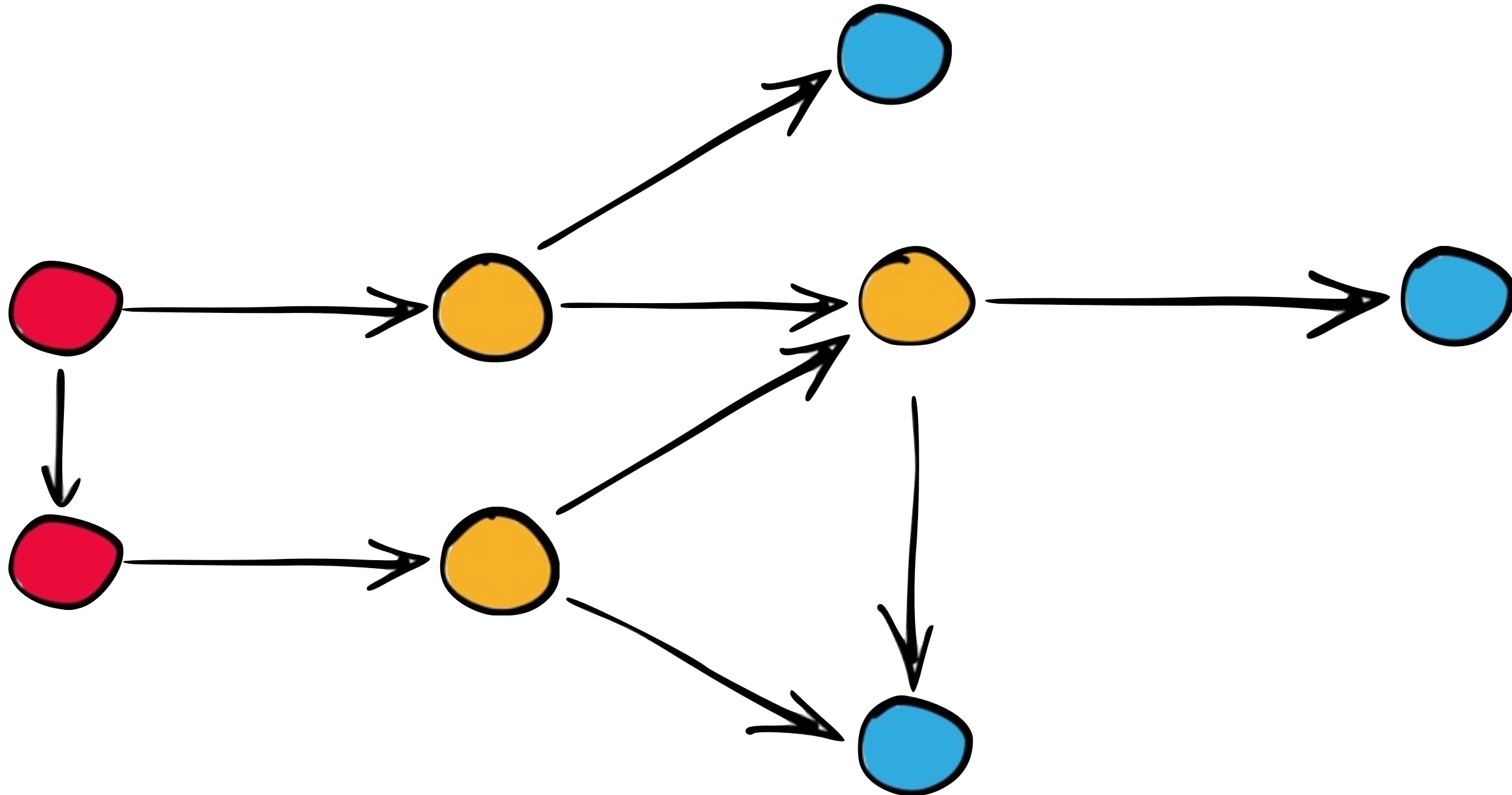
Checkout



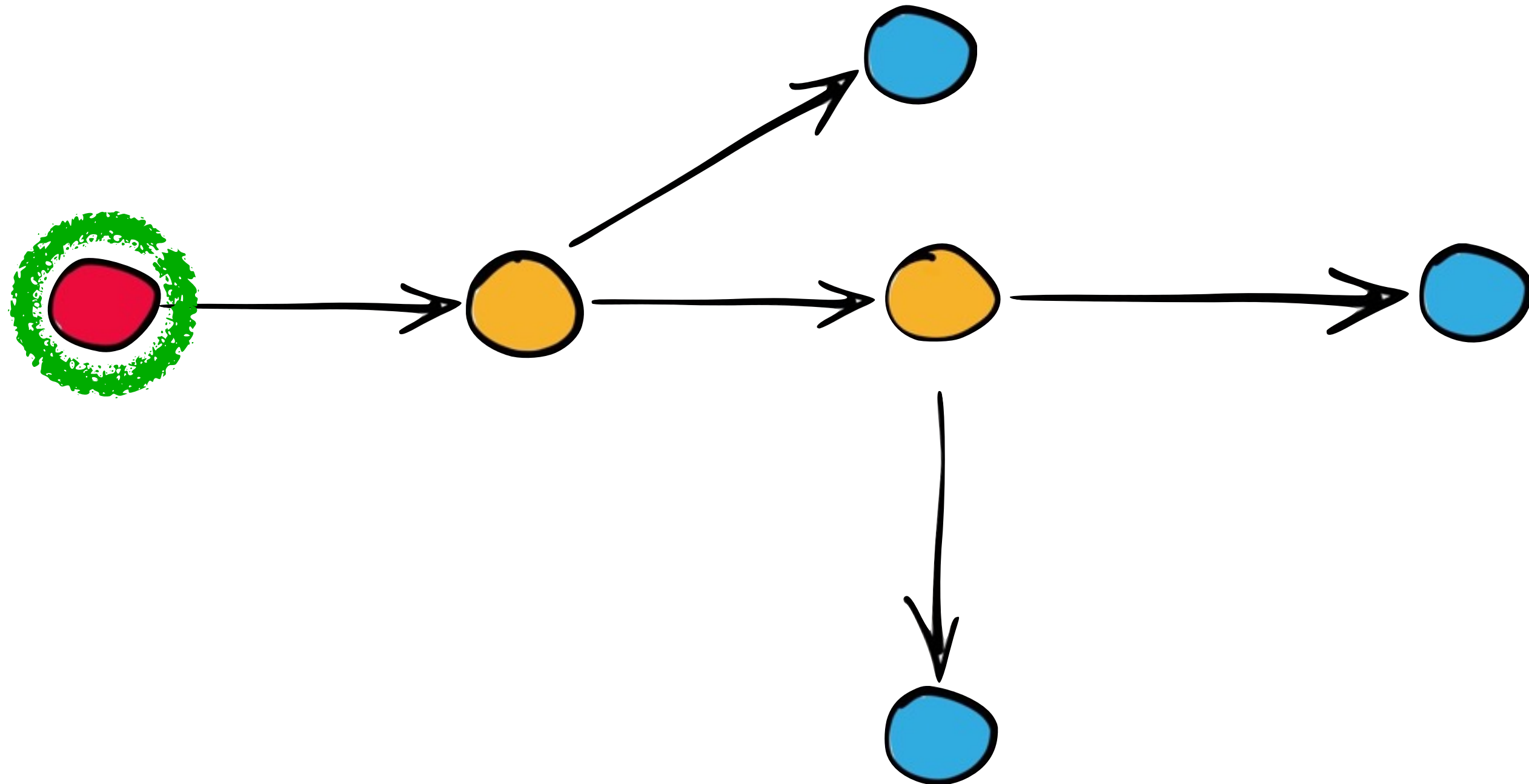
Merging



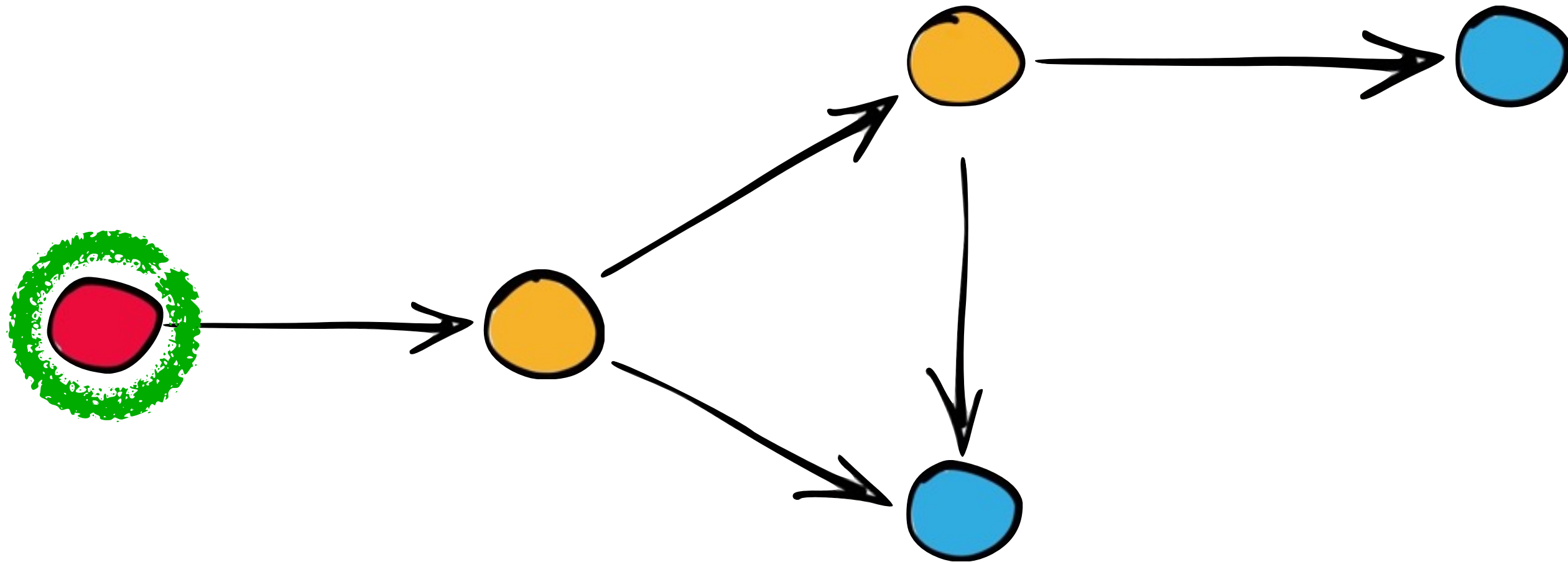
History and Content



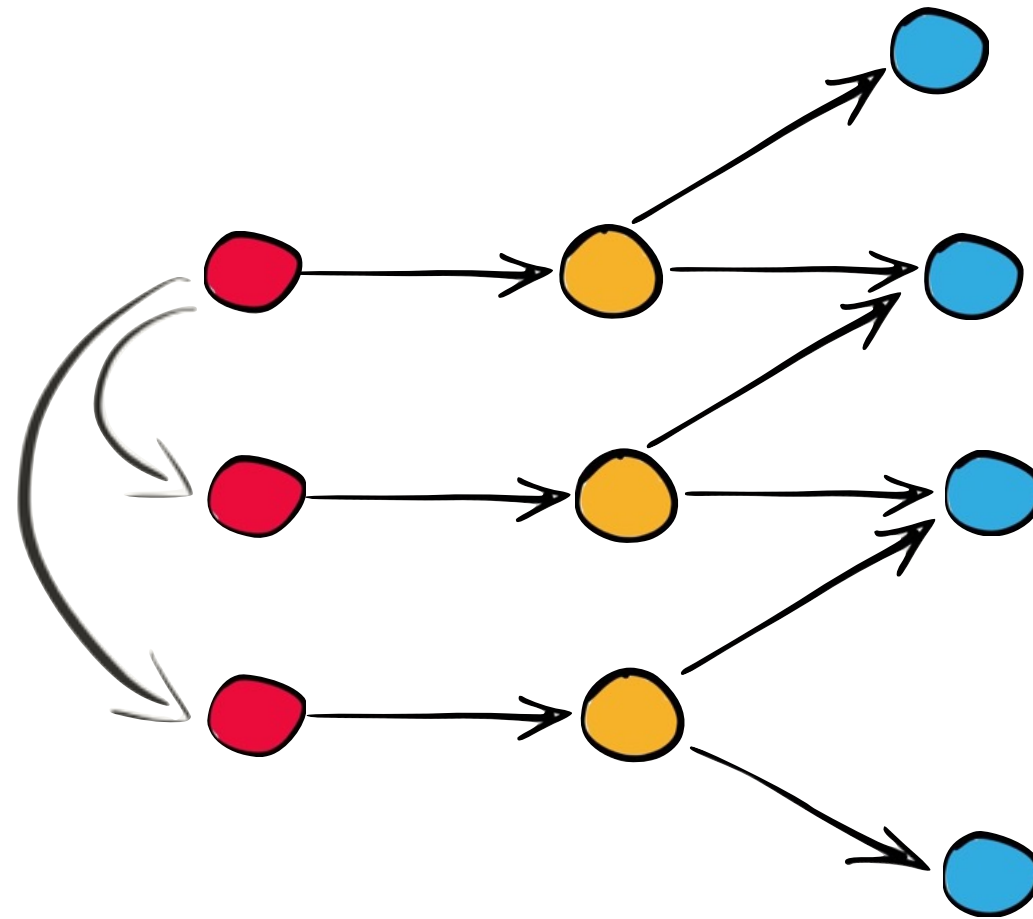
History and Content



History and Content

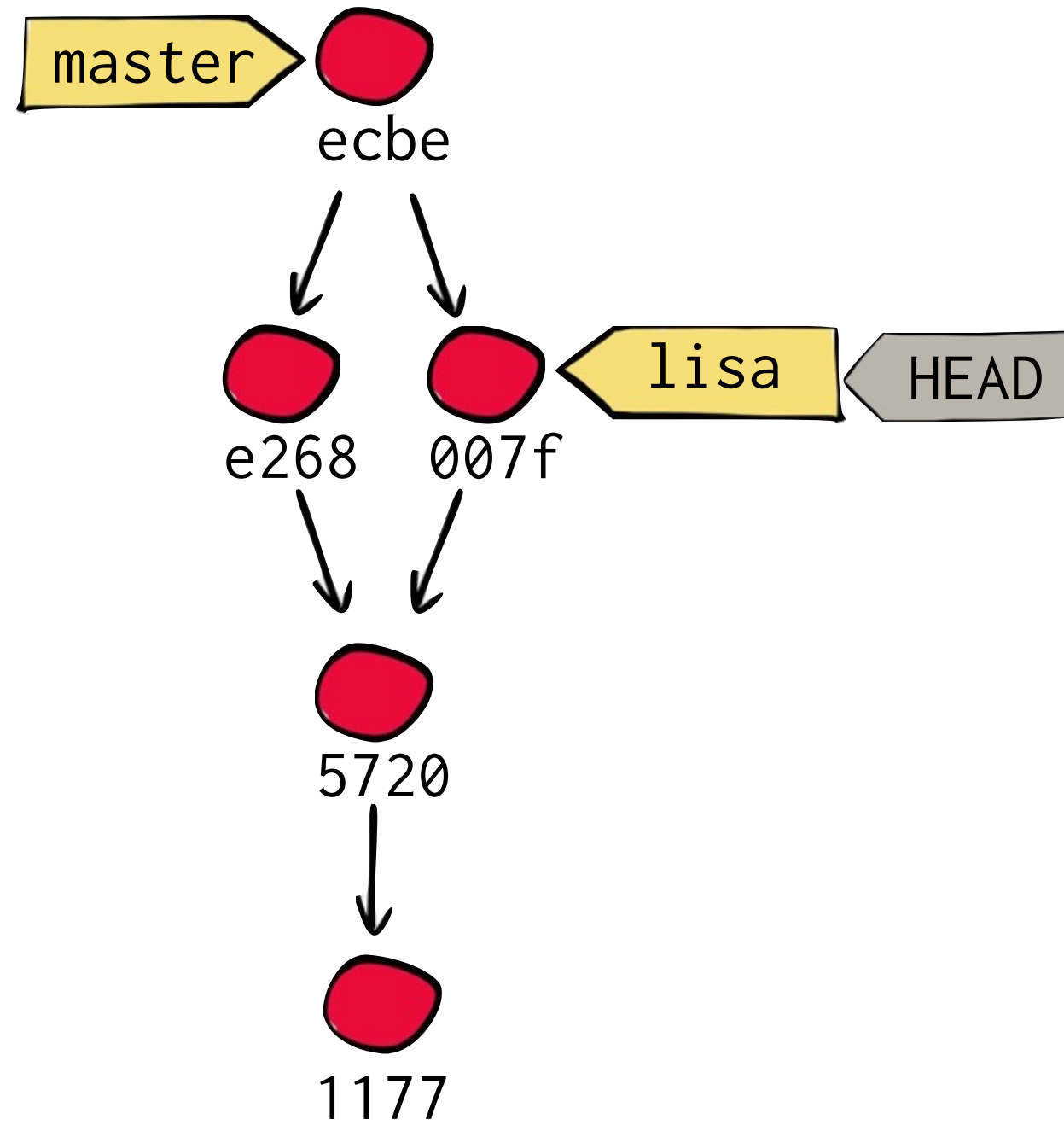


Merge Commits

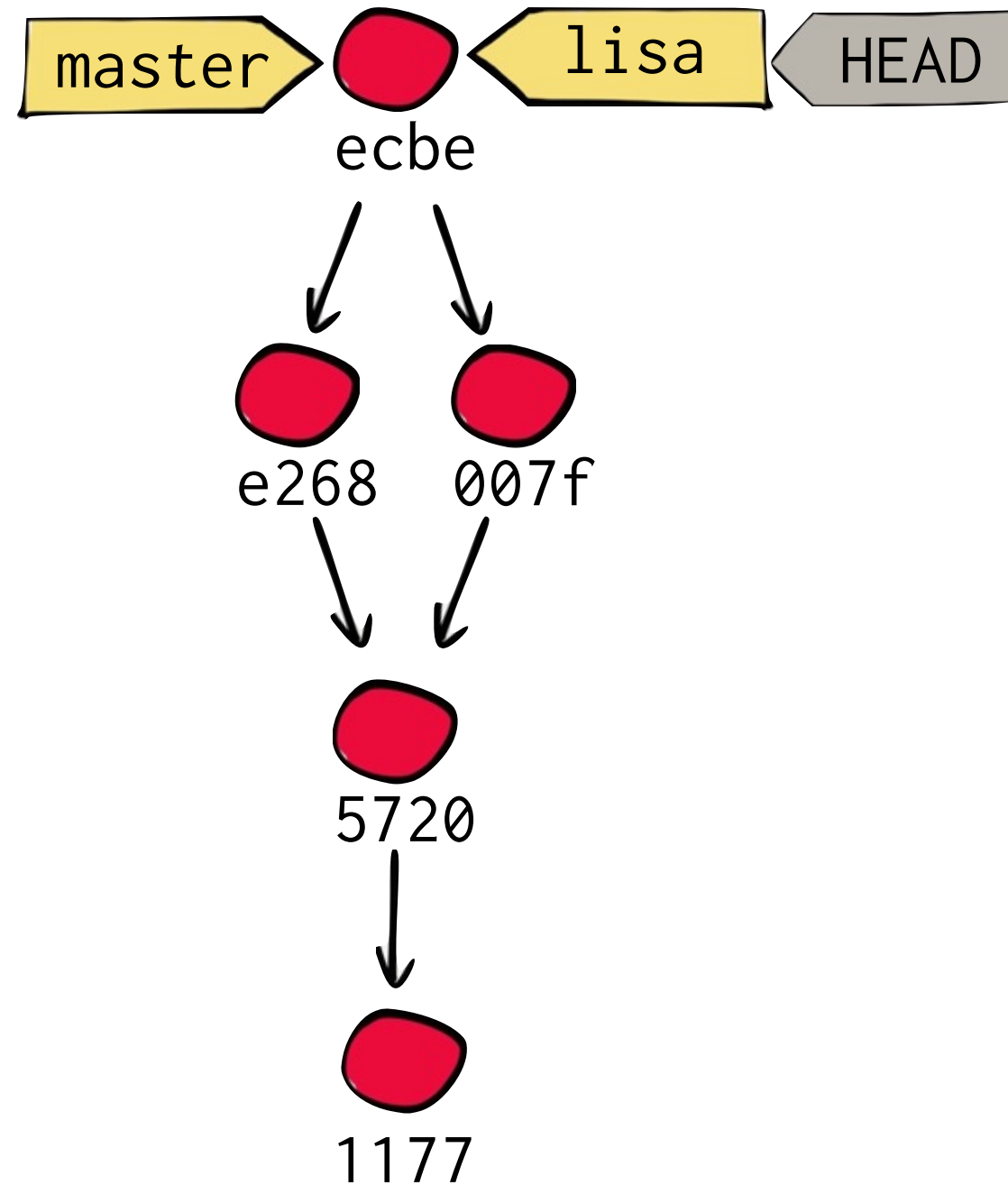


Git content management is simple.

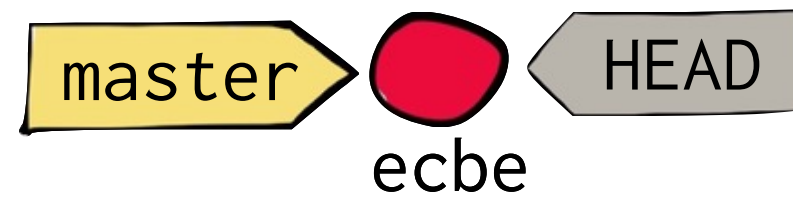
Git (mostly) doesn't care about
your working directory.



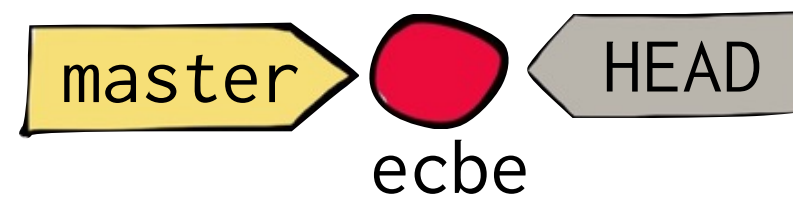
Fast-forward



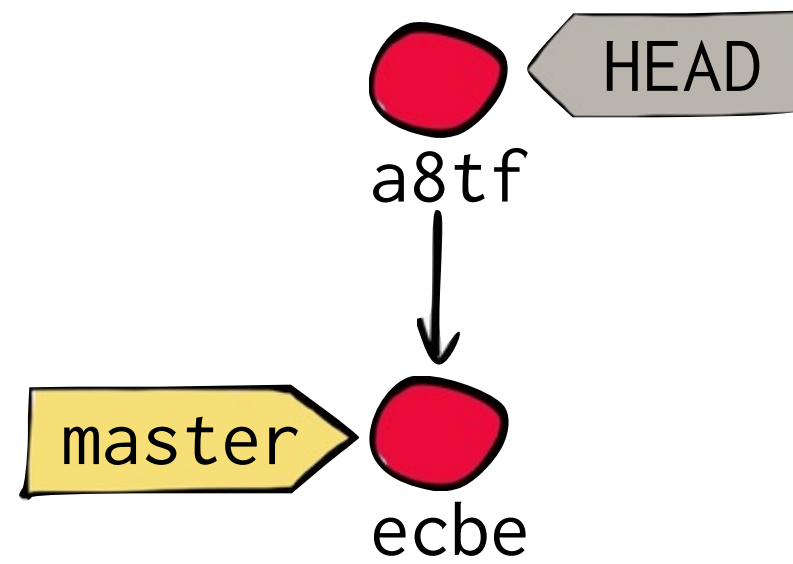
Checkout a Commit



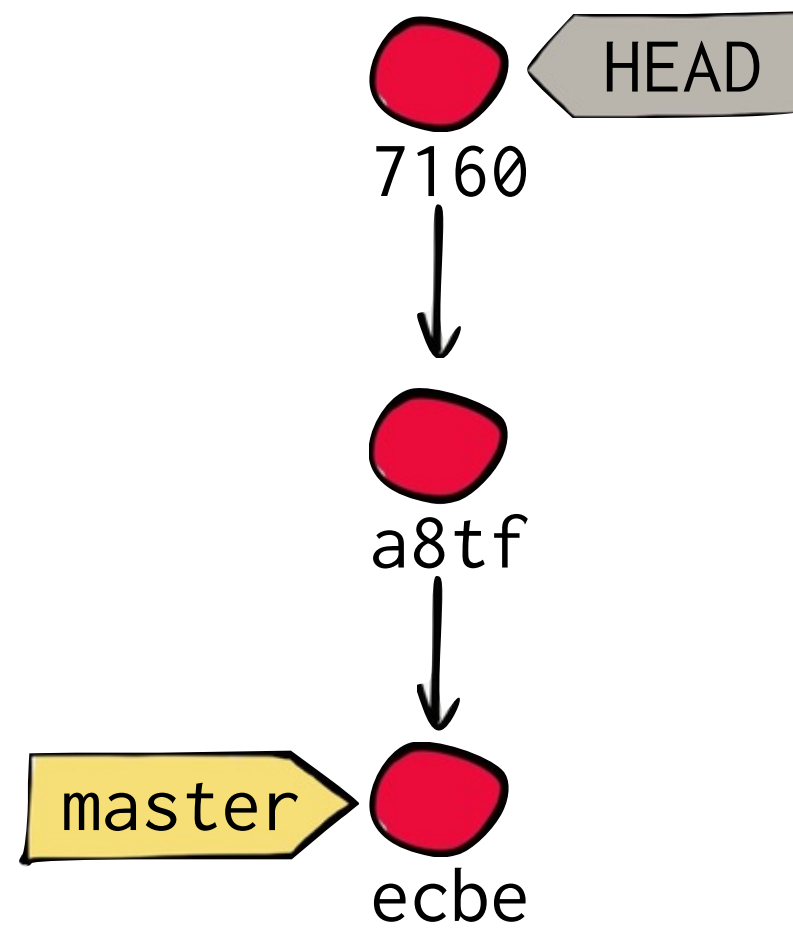
Detached HEAD

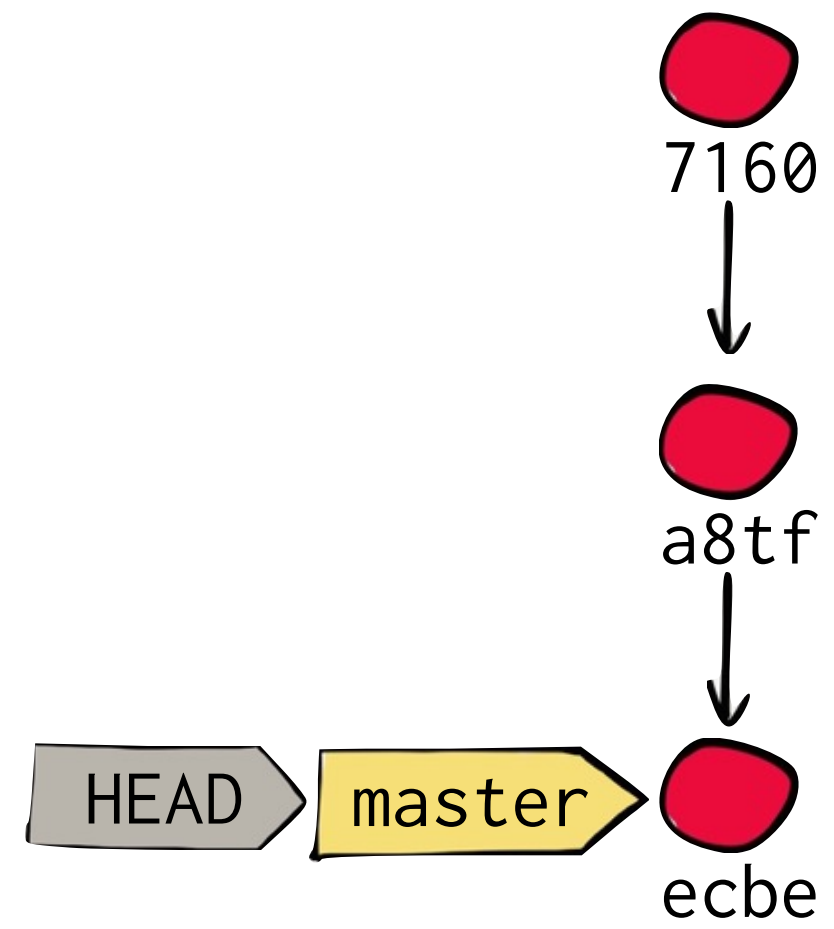


Detached HEAD

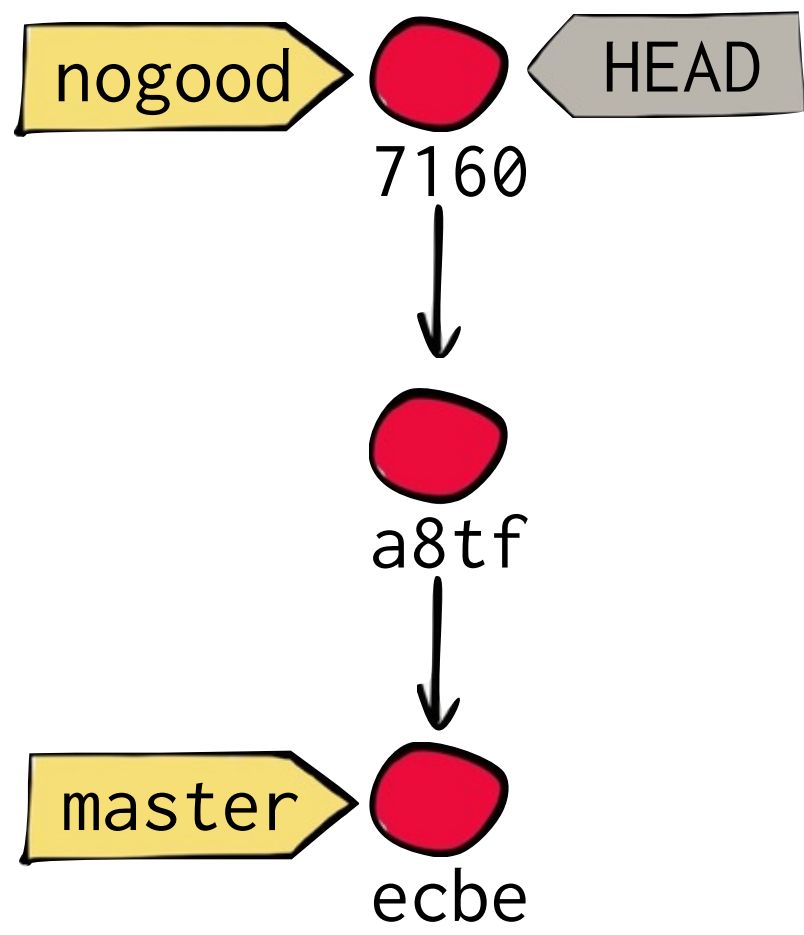


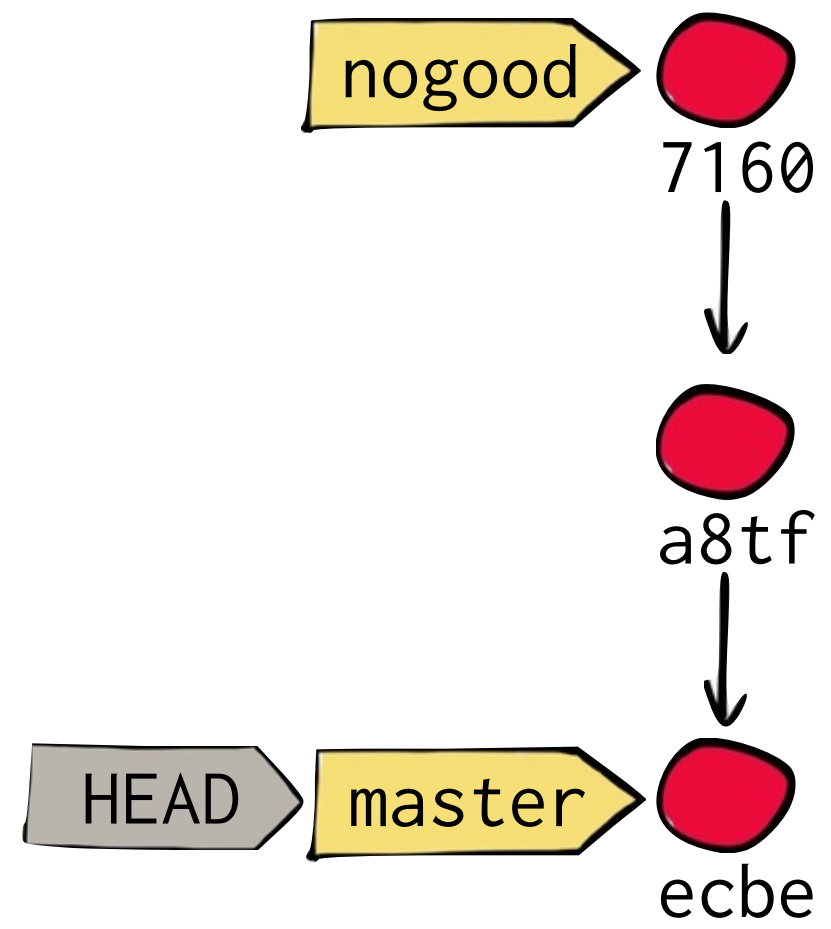
Detached HEAD



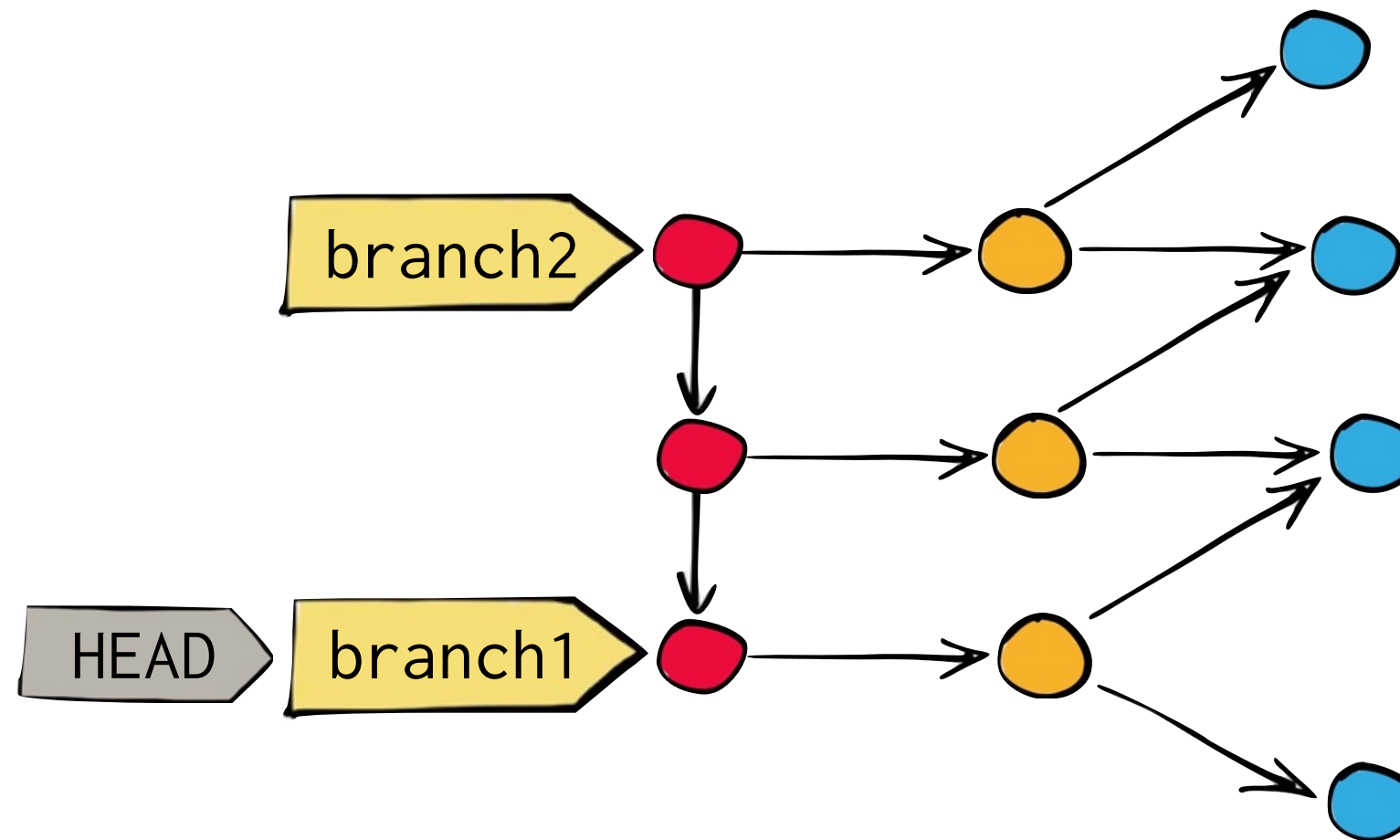








The Git Object Model, Extended



Three Rules

1. The current branch tracks new commits
2. When you move to another commit, Git updates your working directory
3. Unreachable objects are garbage collected