

Mastering Git

THE FOUR AREAS: INTRODUCTION



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FREELANCE DEVELOPER

@nusco

Git Commands

git filter-branch
git commit
git add
git bisect
git grep
git status
git mv
git fetch
git diff
git log
git clean
git help
git clone
git merge
git rebase
git blame
git reflog
git rerere
git clean
git help
git clone
git merge
git reset
git push
git remote
git init
git branch
git rm
git cherry-pick
git config
git checkout
git revert

We will focus on the Git
“way of thinking”.

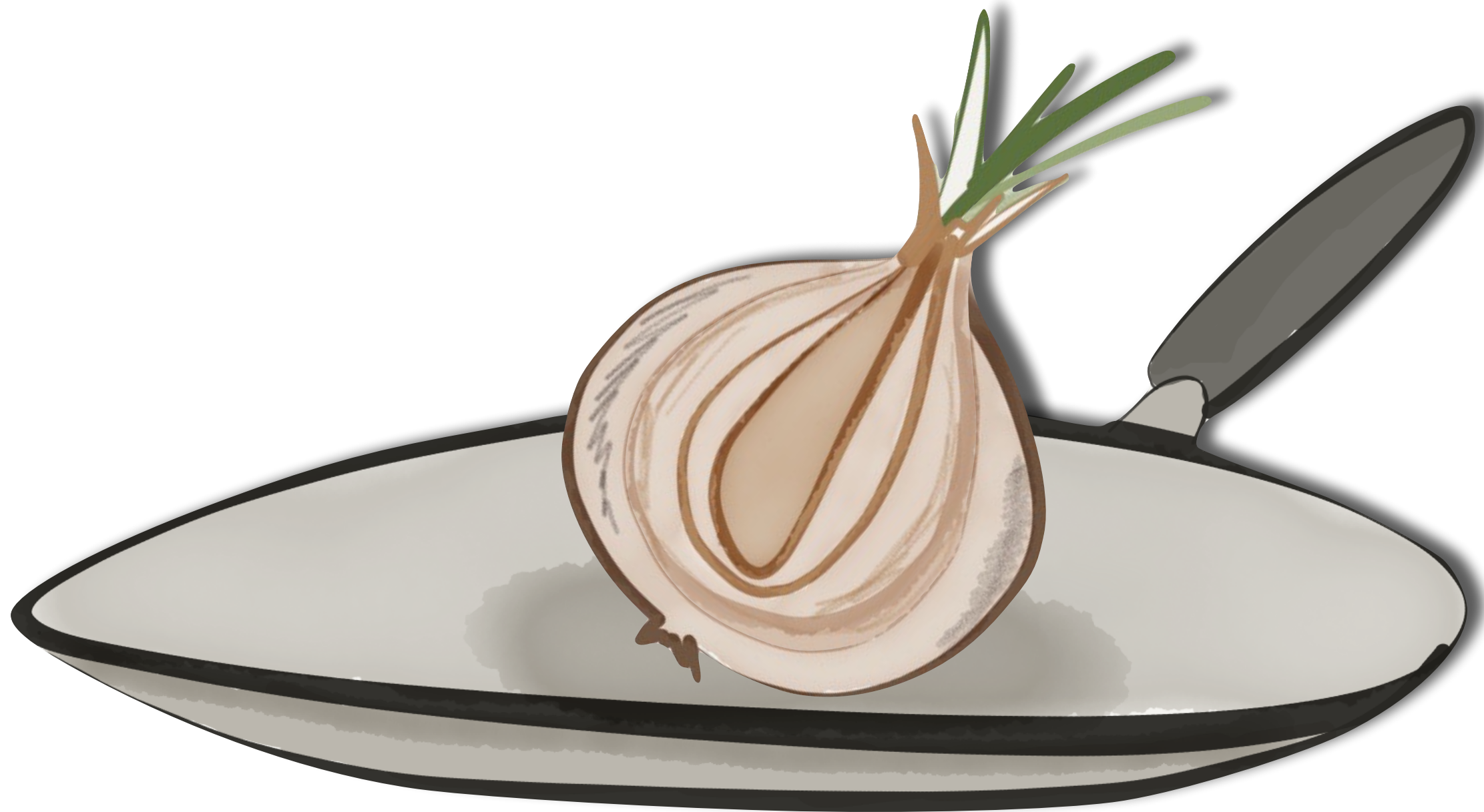
The Previous Training

The screenshot shows the course page for "How Git Works" by Paolo Perrotta. The page includes a navigation bar with icons for Home, Browse, Search, Paths, Channels, Bookmarks, and Q&A. The main content area features the course title and a description: "This course is for developers and system administrators who want to really understand Git. Whether you just started using Git, or you've been using it every day for months - this course will give you the knowledge you need to become a Git master." The course author's name, Paolo Perrotta, is listed, along with a brief bio. The page also includes buttons for "Resume Course", "Bookmarked", "Add to Channel", and "Download Course".

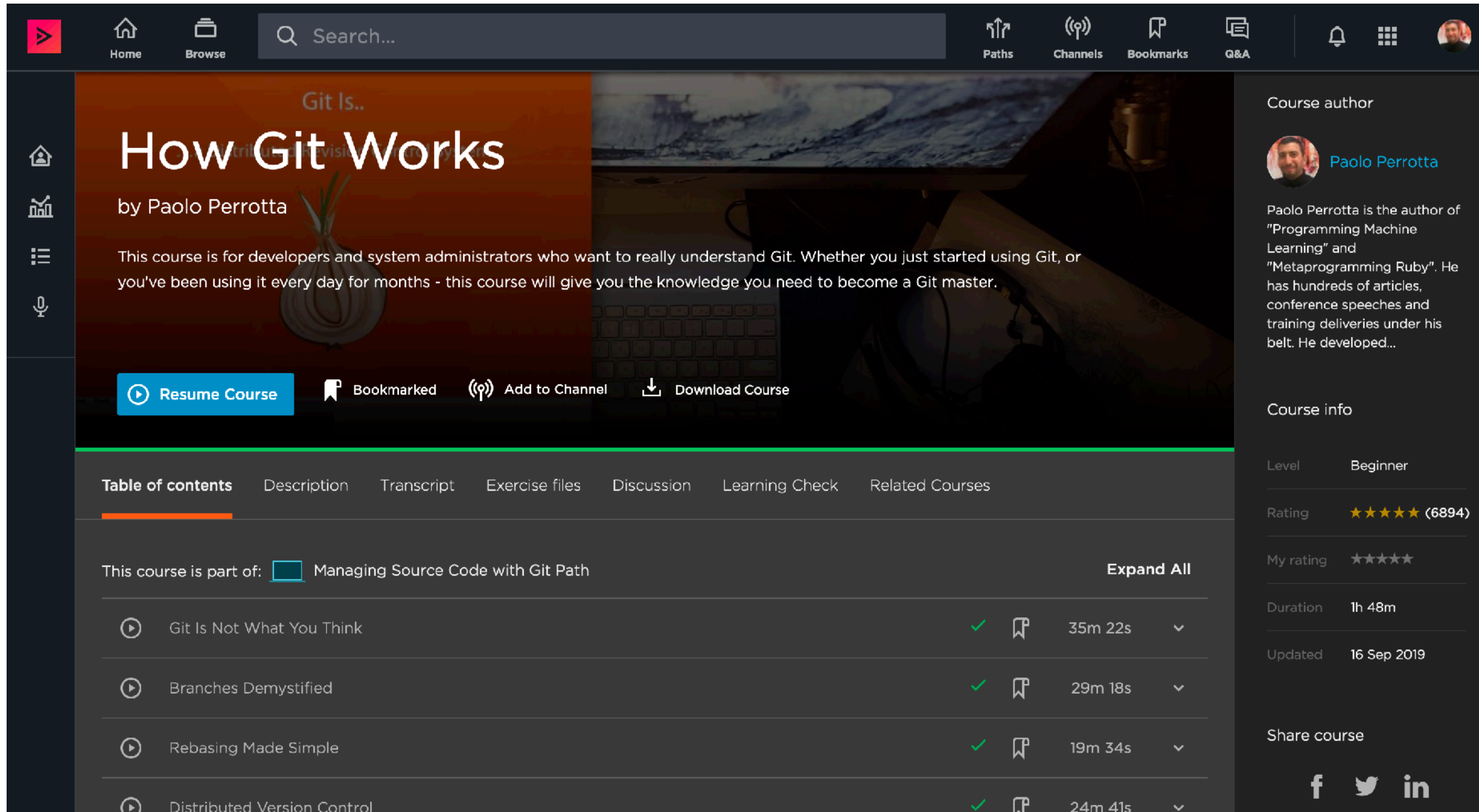
Three hand-drawn diagrams are overlaid on the page:

- Diagram 1 (Left):** Illustrates the relationship between commits, trees, and blobs. Two red circles labeled "commit" point to two yellow circles labeled "tree". One "tree" points to a blue circle labeled "blob", and the other "tree" points to another blue circle labeled "blob".
- Diagram 2 (Middle):** Illustrates branching. A vertical sequence of red circles represents a main branch. Two yellow arrows labeled "branch1" and "branch2" point to specific red circles in the sequence. The top red circle is labeled "HEAD".
- Diagram 3 (Right):** Illustrates a "spaghetti" merge. A vertical sequence of red circles represents a main branch. A yellow arrow labeled "master" points to the top red circle. A green arrow labeled "spaghetti" points to a blue circle, which then points to another blue circle, and so on, illustrating a complex, non-linear merge history.

The “Onion” Metaphor



The Previous Training (Again)



The screenshot shows the Udacity course page for "How Git Works" by Paolo Perrotta. The page features a dark theme with a large hero image of a desk with a laptop and a cup. The course title "How Git Works" is prominently displayed in white text. Below the title, a description states: "This course is for developers and system administrators who want to really understand Git. Whether you just started using Git, or you've been using it every day for months - this course will give you the knowledge you need to become a Git master." Action buttons include "Resume Course", "Bookmarked", "Add to Channel", and "Download Course". A "Table of contents" section lists four lessons: "Git Is Not What You Think", "Branches Demystified", "Rebasing Made Simple", and "Distributed Version Control", each with a play icon, a green checkmark, a bookmark icon, and a duration. The right sidebar provides course details: author Paolo Perrotta, level "Beginner", a 5-star rating from 6894 users, a duration of 1h 48m, and an update date of 16 Sep 2019. Social sharing icons for Facebook, Twitter, and LinkedIn are at the bottom.

Home Browse Search...

Paths Channels Bookmarks Q&A

Git Is..

How Git Works

by Paolo Perrotta

This course is for developers and system administrators who want to really understand Git. Whether you just started using Git, or you've been using it every day for months - this course will give you the knowledge you need to become a Git master.


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Table of contents Description Transcript Exercise files Discussion Learning Check Related Courses

This course is part of: [Managing Source Code with Git Path](#) **Expand All**

Git Is Not What You Think	✓	🔖	35m 22s	▼
Branches Demystified	✓	🔖	29m 18s	▼
Rebasing Made Simple	✓	🔖	19m 34s	▼
Distributed Version Control	✓	🔖	24m 41s	▼

Course author

 [Paolo Perrotta](#)

Paolo Perrotta is the author of "Programming Machine Learning" and "Metaprogramming Ruby". He has hundreds of articles, conference speeches and training deliveries under his belt. He developed...

Course info

Level Beginner

Rating ★★★★★ (6894)

My rating ★★★★★

Duration 1h 48m

Updated 16 Sep 2019

Share course

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Course Overview

The Four Areas

- Introduction
- Basic Workflow
- *git reset*
- Advanced Tools

Managing History

- Exploring the Past
- Fixing Mistakes

Git Workflows

- Finding Your Workflow

The Command Line



The Four Areas

Stash

Working Area

Index

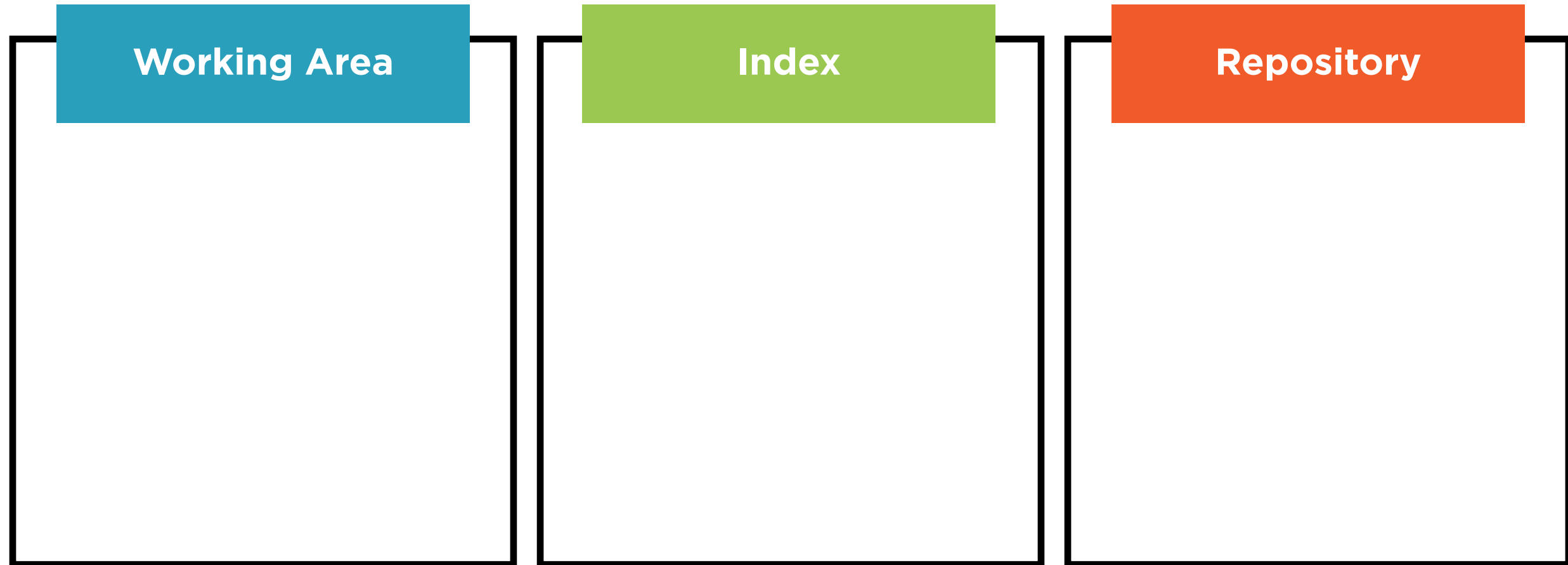
Repository

The Two Questions

**How does this command move
information across the Four Areas?**

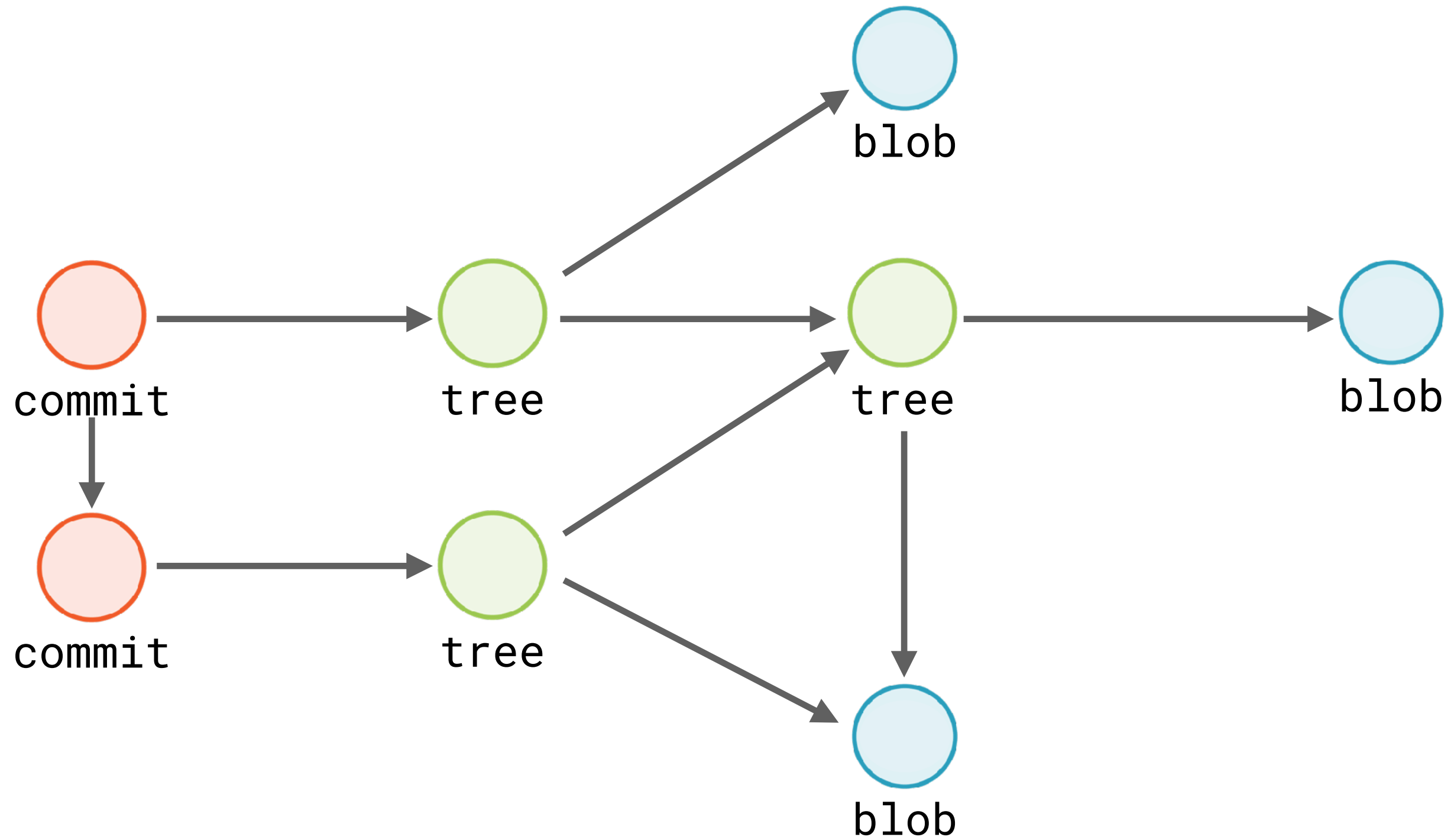
**How does this command change
the Repository?**

The Three Main Areas

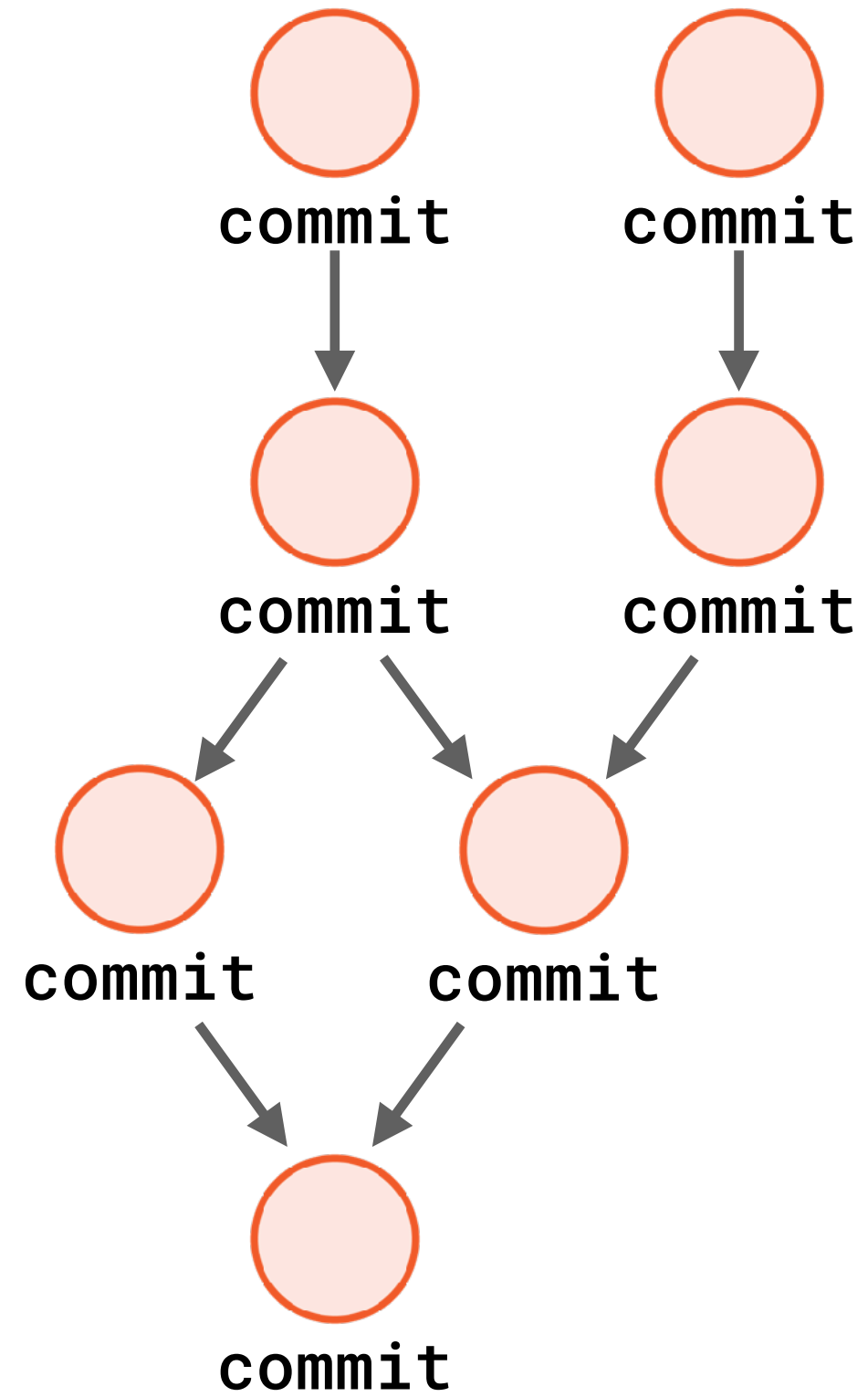


If you have trouble following
this section, then watch
“How Git Works” first.

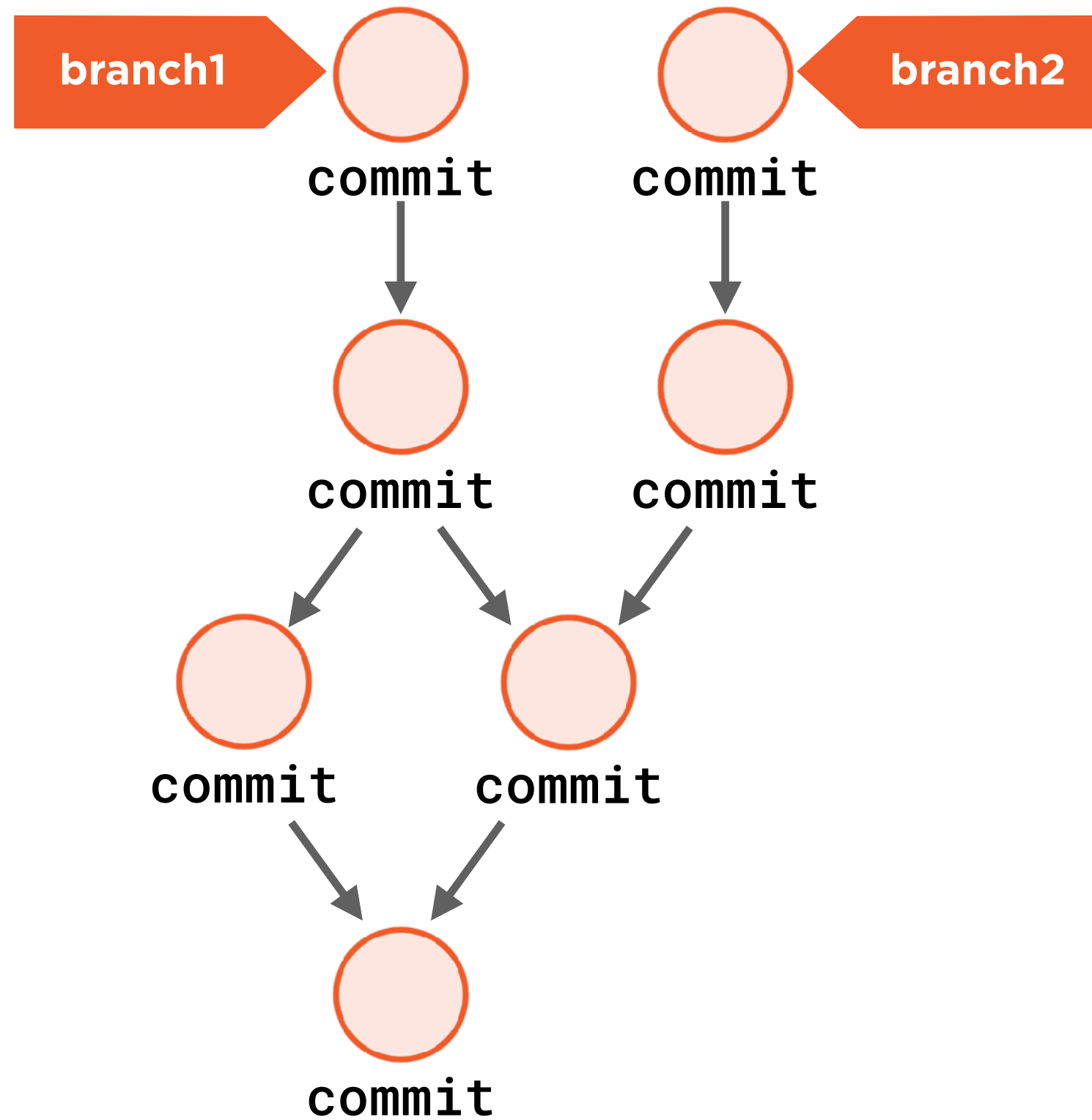
The Project History



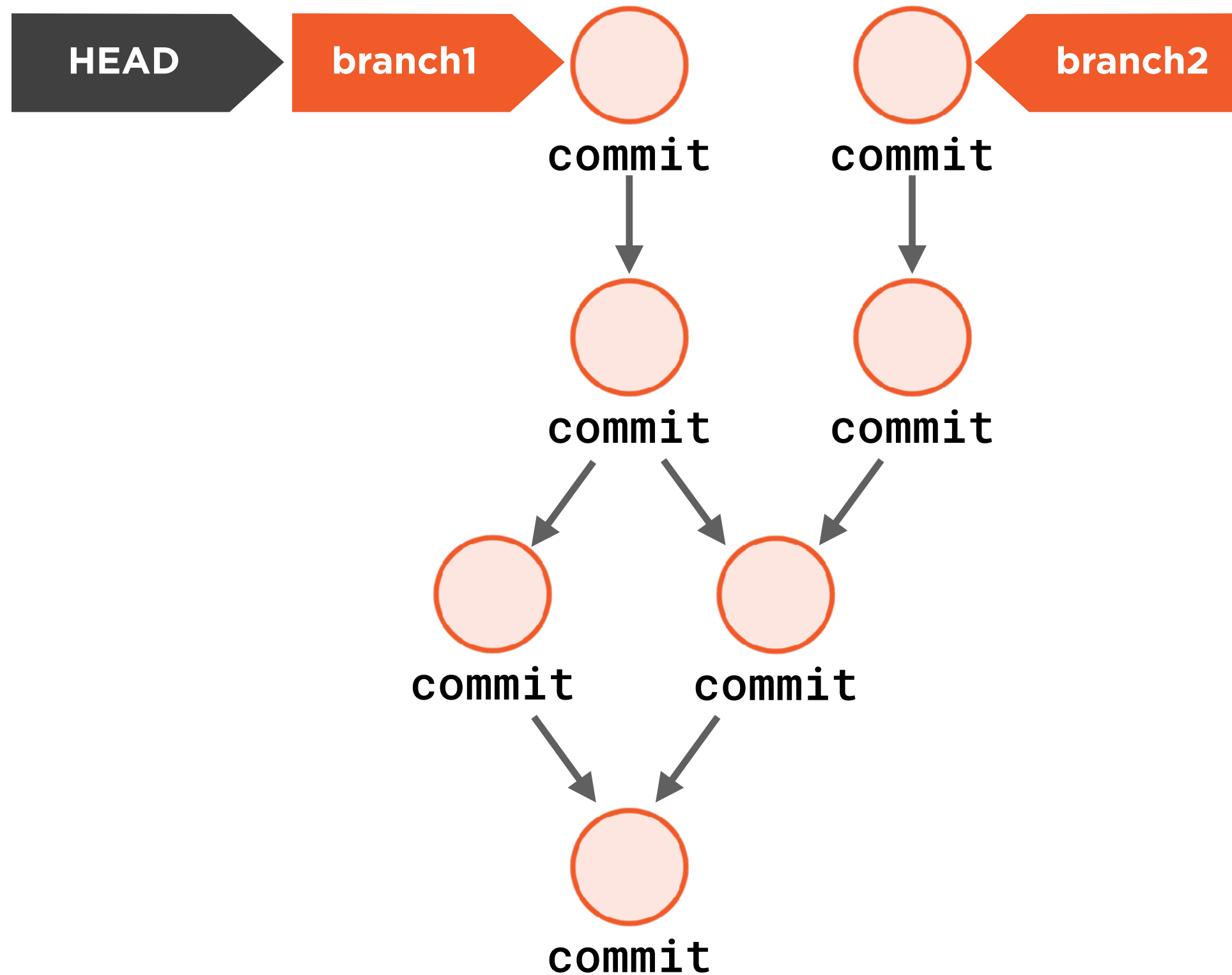
Commits



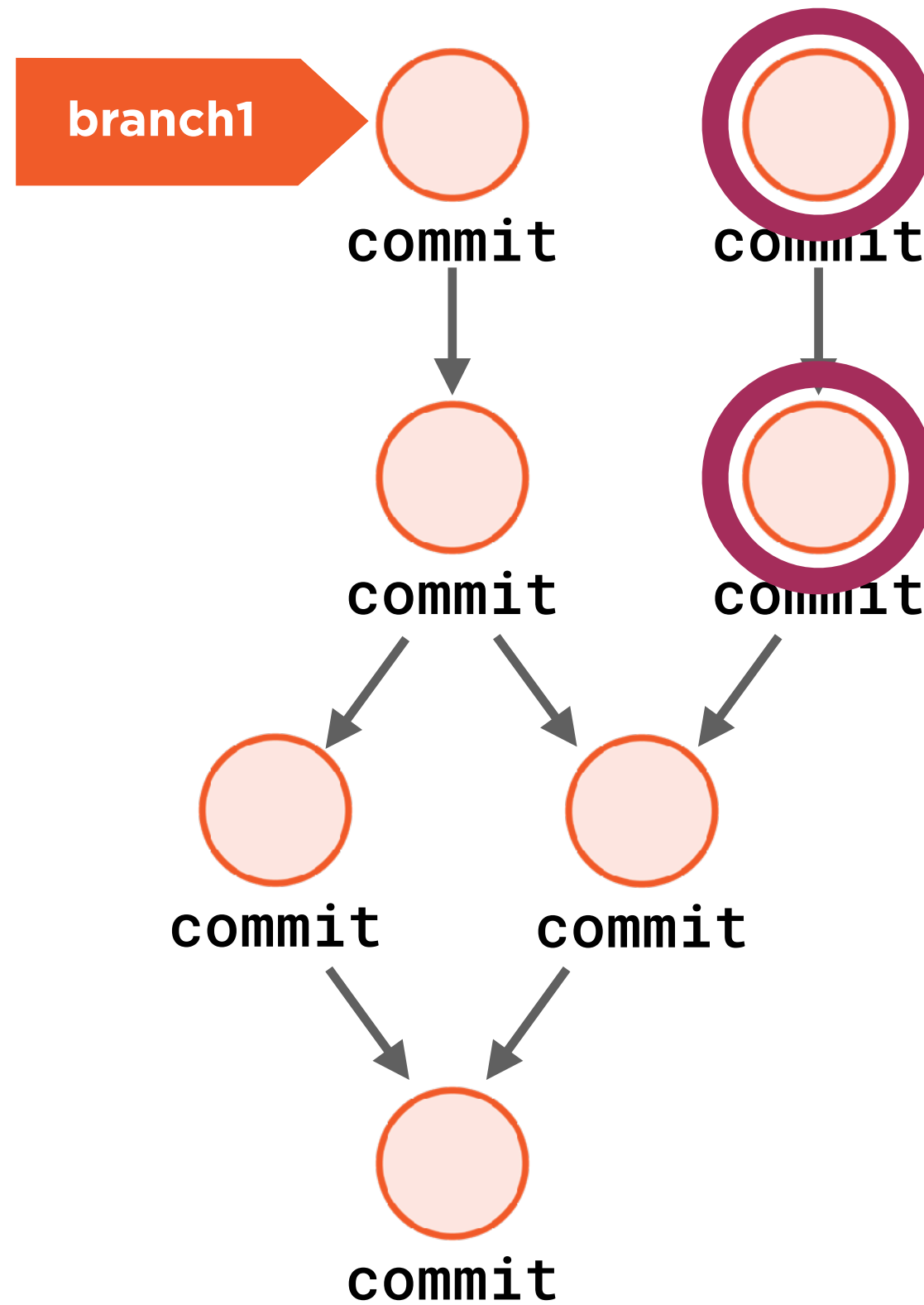
Branches



HEAD and the Current Commit



Unreachable Commits



If you could follow this
recap, then move on
with this training.

