

Link GitHub: <https://github.com/heomsanchezpa>

Lesson 1:  
Navigating a Commit History

- ✓ 1. Introduction
- ✓ 2. Course Overview
- ✓ 3. Quiz: Differences Between Two Fil...
- ✓ 4. Quiz: Finding Diffs Between Large...
- ✓ 5. Reflections
- ✓ 6. Reflect: Using diff to Find Bugs
- ✓ 7. Where Do Versions Come From?
- ✓ 8. Reflect: Using History for Efficiency
- ✓ 9. Quiz: Properties of a VCS for Code
- ✓ 10. Manual Commits in Git
- ✓ 11. Creating a Concept Map
- ✓ 12. Using Git to View History
- ✓ 13. Quiz: Concept Map: diff

Introduction

I'm Carolyn, one of your instructors for the course.

Lesson 1:  
Navigating a Commit History

- ✓ 21. Quiz: Cloning and Exploring The ...
- ✓ 22. Reflect: Using Git to View History
- ✓ 23. Quiz: Concept Map: repository, c...
- ✓ 24. Quiz: Git Errors and Warnings
- ✓ 25. Quiz: Checking Out Old Versions ...
- ✓ 26. Reflect: Confidence from Version...
- ✓ 27. Interview with Lewis Kaneshiro
- ✓ 28. Git Workspace
- ✓ 29. Setting Up Your Workspace on ...
- ✓ 30. Setting Up Your Workspace on ...
- ✓ 31. Reflect: How Do You Want to Us...
- ✓ 32. Lesson 1 Summary
- ✓ 33. Quiz: Survey Says!

Survey Says!

So... What do you think?

*Do you like the course so far? Have a suggestion? Share your opinions in this short survey: <http://goo.gl/Kygr2N>*

Click here when you're done

Quiz: Survey Says!

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## Lesson 2: Problem Set 1

### Fixing the Second Bug

#### Changes introduced

As before, you can use `git diff` to find the lines introduced by the buggy commit. Again, you'll need the ID of the buggy commit, which is `003c8c197cd3b1e5b28b58f53ee14d7ebaa9bb3a`, and the ID of the previous commit, which is `746f762e38b5bbb7d0b837464ef6ec3f8ee5bf91`.

Thus, by running `git diff 746f762e38b5bbb7d0b837464ef6ec3f8ee5bf91 003c8c197cd3b1e5b28b58f53ee14d7ebaa9bb3a`, you can find out that the change made by the buggy commit was:

```
- clone.x += utils.randomNumber(5, 10);
- clone.y += utils.randomNumber(-20, 20);
+ clone.x += utils.randomNumber(500, 1000);
+ clone.y += utils.randomNumber(-2000, 2000);
```

That is, the **x and y coordinate of each clone is changed by a larger random amount**. This will have the effect of making the clones move more quickly, or speed up, since their positions change more quickly.

#### File changed

Near the top of the `git diff` output, you can see the lines:

```
--- a/js/pappu.js
+++ b/js/pappu.js
```

This indicates that the file changed was '`js/pappu.js`', that is, the file '`pappu.js`' in the directory '`js`'. ## What caused the bug Based on the change that was made, one possible bug is that the clones move **too quickly** - so quickly they have left the screen before you see them.

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## Lesson 3: Creating and Modifying a Repository

### Lesson 2 Intro



In the first lesson, you learned what version control is and

#### Lesson 2 Intro

- 1. Lesson 2 Intro
- 2. What Makes a Repository a Repository
- 3. Quiz: Initializing a Repository
- 4. Quiz: Examining the New Repository
- 5. Reflect: Initializing a Repository
- 6. Quiz: Staging Area
- 7. Quiz: Concept Map: init, add, stage, commit
- 8. Reflect: Staging Area
- 9. Writing Good Commit Messages
- 10. Quiz: Committing Changes
- 11. Quiz: git diff Revisited
- 12. Commit the Bug Fix
- 13. Reflect: Commit Size

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Lesson 3: Creating and Modifying a Repository

Lesson 2 Summary

You also learned to use the staging area to control exactly what changes go into

23. Quiz: Combining Simple Files Us...

24. Quiz: Merging Coins into Master

25. Quiz: Merging on the Command ...

26. Reflect: Merging Two Branches

27. Quiz: Merge Conflicts

28. Conflict Detection

29. Quiz: Update Easy Mode

30. Quiz: Resolving Merge Conflicts

31. Quiz: Committing the Conflict Re...

32. Quiz: Concept Map: branch, mer...

33. Reflect: Automatic vs. Manual M...

34. Interview with Jeffrey Middleton

35. Lesson 2 Summary

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Lesson 4: Using GitHub to Collaborate

Lesson 3 Introduction

a product designed specifically for achieving those goals.

1. Lesson 3 Introduction

2. Intro to GitHub

3. Creating a GitHub Account

4. Quiz: Keeping Repositories in Sync

5. Quiz: Adding a Remote

6. Editing Files on GitHub

7. Reflect: When to Use a Remote Re...

8. Quiz: Pulling Changes

9. Quiz: Concept Map: GitHub, Push,...

10. Reflect: Manual vs. Automatic Pull

11. Quiz: Forking a Repository

12. Quiz: Fork the Recipes Repository

13. Quiz: Push Changes to the Recip...

A screenshot of a web browser window titled "Lesson 3 Summary". The main content is a video of a woman with long blonde hair, wearing a red shirt, speaking. Overlaid on the video is a black rectangular box containing white text: "You also got practice using pull request to collaborate with other people." To the left of the video, there is a sidebar with a list of 34 items, each preceded by a checkmark and a small icon. The items are numbered 22 through 34, representing various activities and quizzes related to GitHub.

- ✓ 22. Reflect: Local Copies of Remote ...
- ✓ 23. Quiz: Making a Pull Request
- ✓ 24. Quiz: Updating a Pull Request
- ✓ 25. Reflect: Collaboration Using Gith...
- ✓ 26. Conflicting Changes
- ✓ 27. Quiz: Updating Your Local Repos...
- ✓ 28. Quiz: Merging a Pull Request
- ✓ 29. Quiz: Concept Map: Fork, Fetch, ...
- ✓ 30. Interview with Brent Beer of Git...
- ✓ 31. Reflect: When to Use a Separate ...
- ✓ 32. Modifying the Adventure Reposit...
- ✓ 33. Quiz: Keeping a Fork Up-To-Date
- ✓ 34. Lesson 3 Summary

A screenshot of a web browser window showing a user's "YOUR LATEST ACTIVITY" feed. The feed lists four items, each with a small icon, a title, a brief description, and a status indicator. The items are numbered 1 through 4. Item 1 is a card titled "Navigating a Commit History" with a "VIEW >" button and a progress bar showing "100% VIEWED". Item 2 is a card titled "Problem Set 1" with a green checkmark and the word "COMPLETED". Item 3 is a card titled "Creating and Modifying a Repository" with a green checkmark and the word "COMPLETED". Item 4 is a card titled "Using GitHub to Collaborate" with a green checkmark and the word "COMPLETED". A vertical sidebar on the left contains icons for navigation and settings. A blue button labeled "RESUME LEARNING" is located at the top right of the activity feed area.

- 1 Navigating a Commit History  
Learn what makes Git such a useful tool for developers and dive right into working with Git commit histories using an existing project.  
[VIEW >](#) 100% VIEWED [SHRINK CARD](#)
- 2 Problem Set 1 ✓ COMPLETED
- 3 Creating and Modifying a Repository ✓ COMPLETED
- 4 Using GitHub to Collaborate ✓ COMPLETED