

Clase 1: Navigating a Commit History

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RECURSOS

CONTENIDO

✓ 20. Installing Git

✓ 21. Cloning and Exploring The Repo

✓ 22. Reflect: Using Git to View History

✓ 23. Concept Map: repository, clo...

★ 24. Git Errors and Warnings

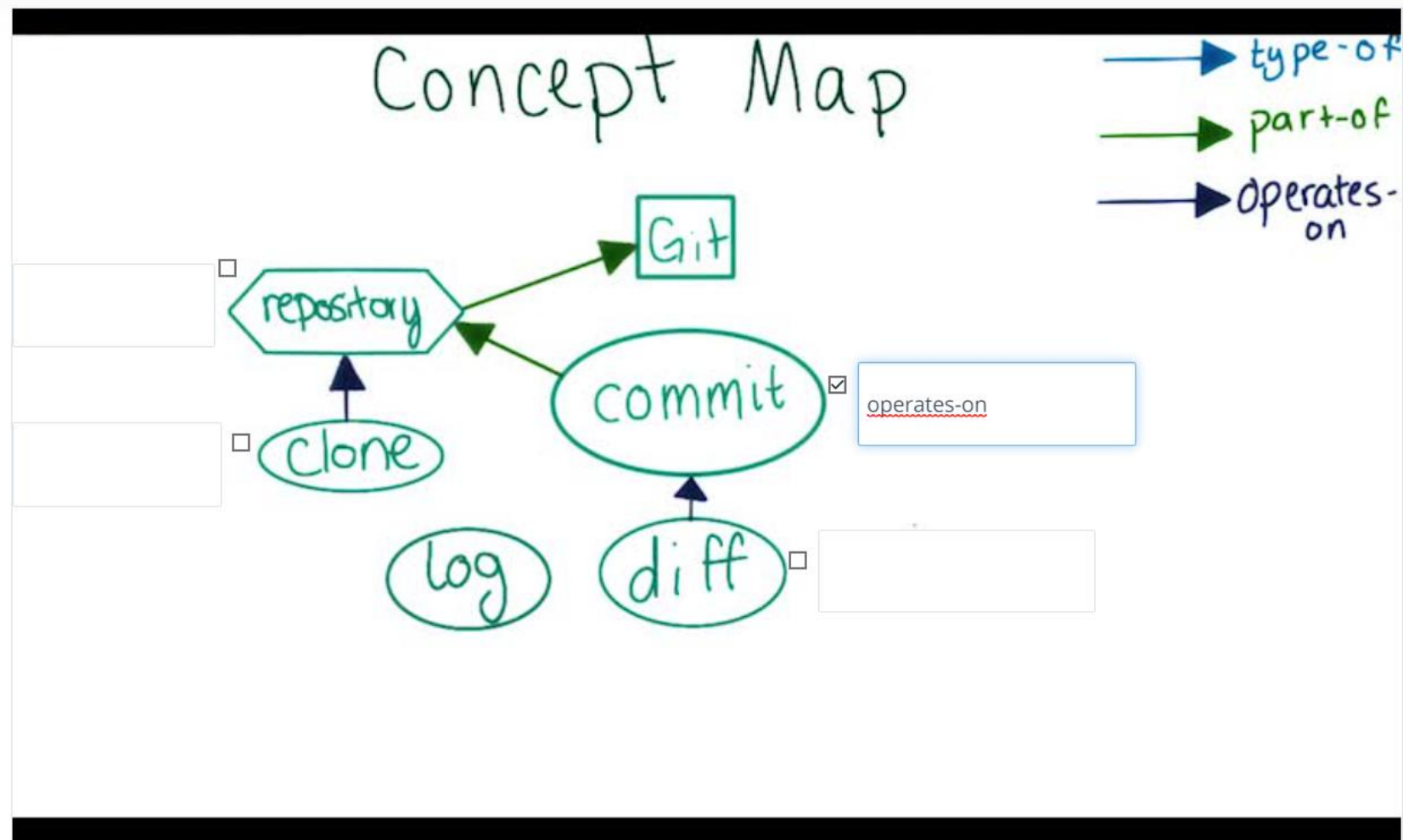
★ 25. Checking Out Old Versions of ...

- 26. Reflect: Confidence from Versi...

- 27. Interview with Lewis Kaneshiro

Concept Map: repository, clone, log

SEND FEEDBACK





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✓ 23. Concept Map: repository, clo...

✓ 24. Git Errors and Warnings

✓ 25. Checking Out Old Versions of ...

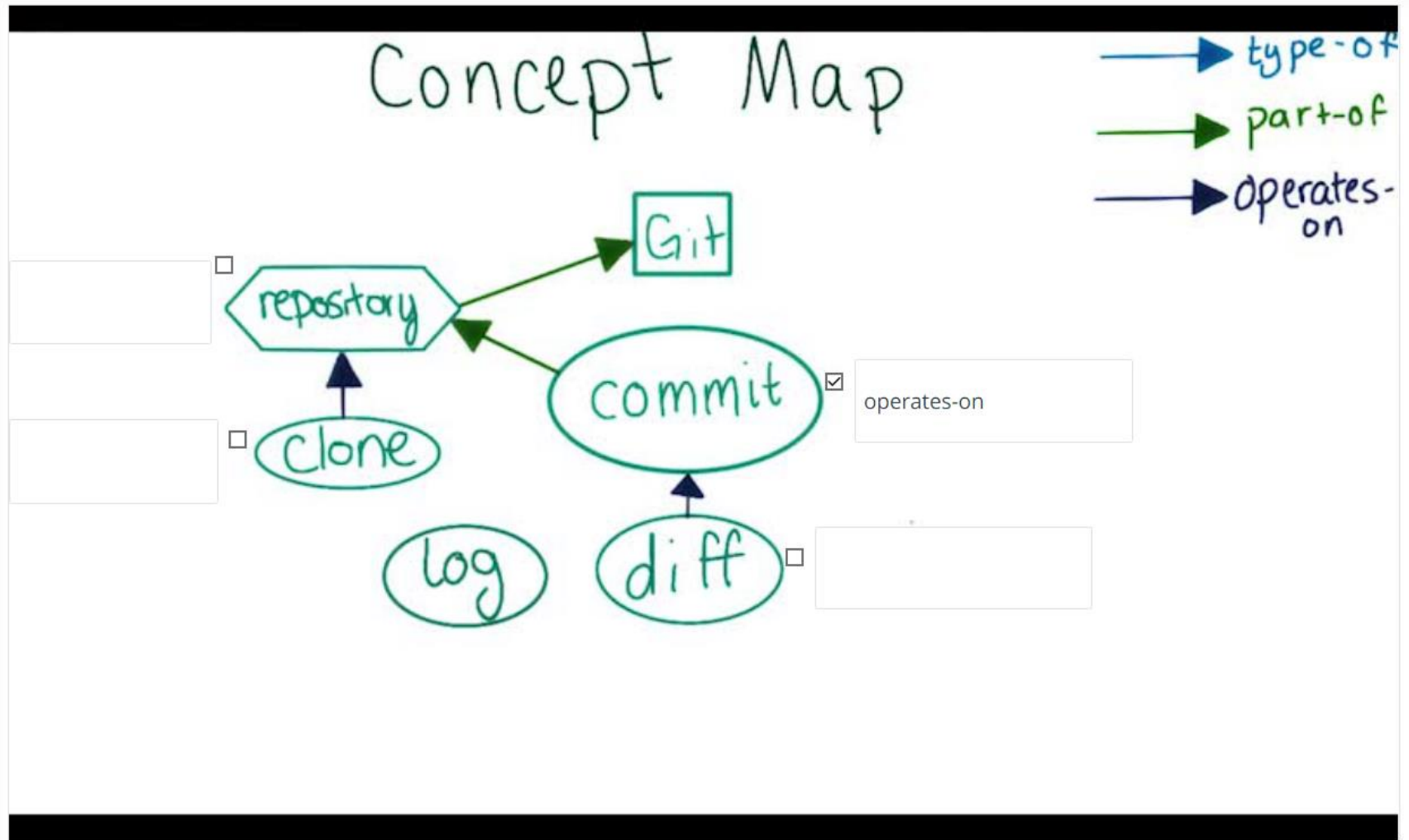
✓ 26. Reflect: Confidence from Versi...

✓ 27. Interview with Lewis Kaneshiro

✓ 28. Git Workspace

✓ 29. Setting Up Your Workspace on...

✓ 30. Setting Up Your Workspace on...



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1. Lesson 2 Intro



2. Problem Set Introduction



3. Old File Plus Diff



4. Tracking Versions Using Git



5. Git Command Review



6. Behavior of git clone



7. Behavior of git log



8. Behavior of git diff

Git command review

For each action, type the name of the corresponding Git command.

- Compare two commits, printing each line that is present in one commit but not the other.

- Make a copy of an entire Git repository, including the history, onto your own computer.

- Temporarily reset all files in a repository to their state at the time of a specific commit.

- Show the commits made in a repository, starting with the most recent.

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✓ 3. Old File Plus Diff

✓ 4. Tracking Versions Using Git

✓ 5. Git Command Review

✓ 6. Behavior of git clone

✓ 7. Behavior of git log

✓ 8. Behavior of git diff

✓ 9. Behavior of git checkout

✓ 10. Cloning a New Repository

✓ 11. Identifying a Bug

```
commit 7be5a12f1567866b0d77ccdf2055d1a33831da78
```

```
Date:   Fri Jul 11 12:56:26 2014 -0300
```

Add sound for the wing.

```
commit 06d72e1f95f046002ec46f41cf71957227111141
```

```
Date:   Wed Jul 9 23:42:55 2014 -0300
```

Add mute button.

```
commit 3d4d45b246aad6a1cd0afaf7cf7ae26966110727e
```

```
Date:   Mon Jul 7 17:35:47 2014 -0300
```

Fix leaderboard button

Select the command for which the mute button code lines would be shown as additions.

- ☐ `git diff 7be5a1 06d72e`
- ☐ `git diff 06d72e 7be5a1`
- ☐ `git diff 06d72e 3d4d45`
- ☒ `git diff 3d4d45 06d72e`

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✓ 5. Git Command Review

✓ 6. Behavior of git clone

✓ 7. Behavior of git log

✓ 8. Behavior of git diff

✓ 9. Behavior of git checkout

✓ 10. Cloning a New Repository

✓ 11. Identifying a Bug

✓ 12. Fixing the Bug

✓ 13. Identifying a Second Bug

Behavior of git checkout

Select when each statement would be true.

	Never true	Sometimes true	Always true
Checking out an earlier commit will change the state of at least one file.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Checking out an earlier commit will change the state of more than one file.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Checking out an earlier commit will change the state of every file in the repository.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
After checking out a commit, the state of all the files in the repository will be from the same point in time.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

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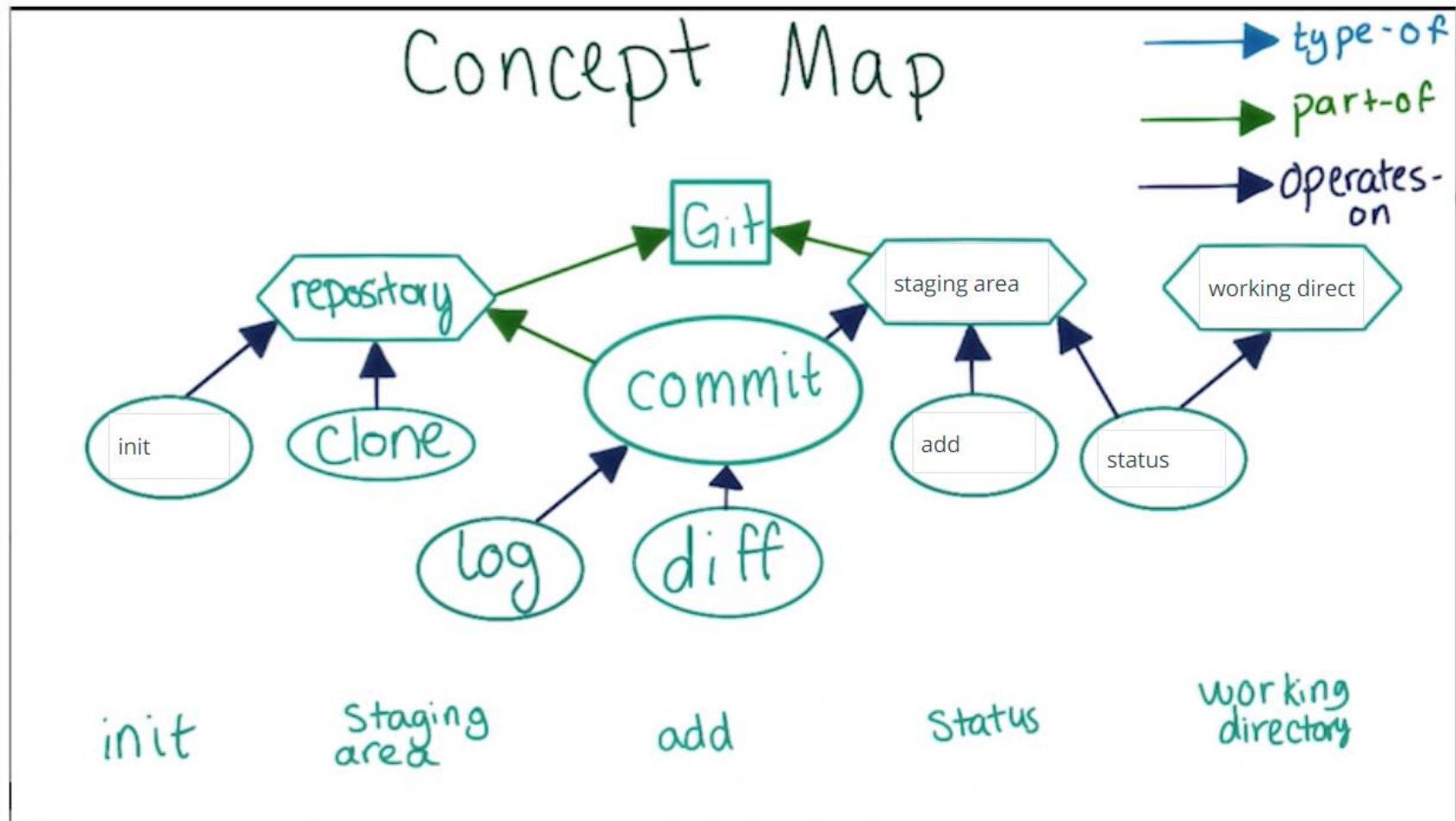
RECURSOS



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- ✓ 1. What Makes a Repository a Rep...
- ✓ 2. Initializing a Repository
- ✓ 3. Examining the New Repository
- ✓ 4. Reflect: Initializing a Repository
- ✓ 5. Staging Area
- ✓ 6. Concept Map: init, add, staging...
- ✓ 7. Reflect: Staging Area
- ✓ 8. Writing Good Commit Messages



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- ✓ 7. Reflect: Staging Area
- ✓ 8. Writing Good Commit Messages
- ✓ 9. Committing Changes
- ✓ 10. **git diff Revisited**
- ✓ 11. Commit the Bug Fix
- ✓ 12. Reflect: Commit Size
- ✓ 13. Branches
- ✓ 14. Making a Branch

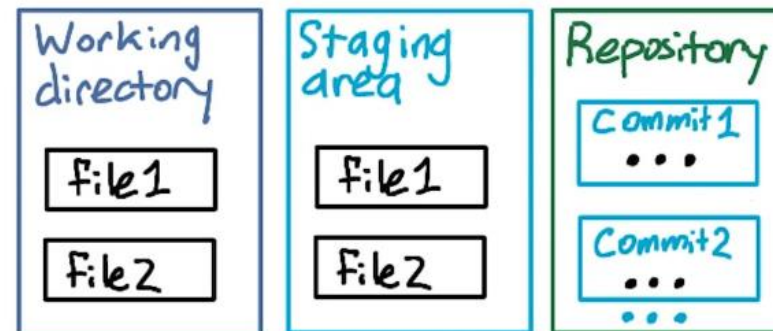
What two versions does
each form of git diff compare?

Choices: working directory
staging area
commit 1.
commit 2

git diff

git diff --staged

git diff commit1 commit2



working directory	staging area
staging area	commit1
commit1	commit2

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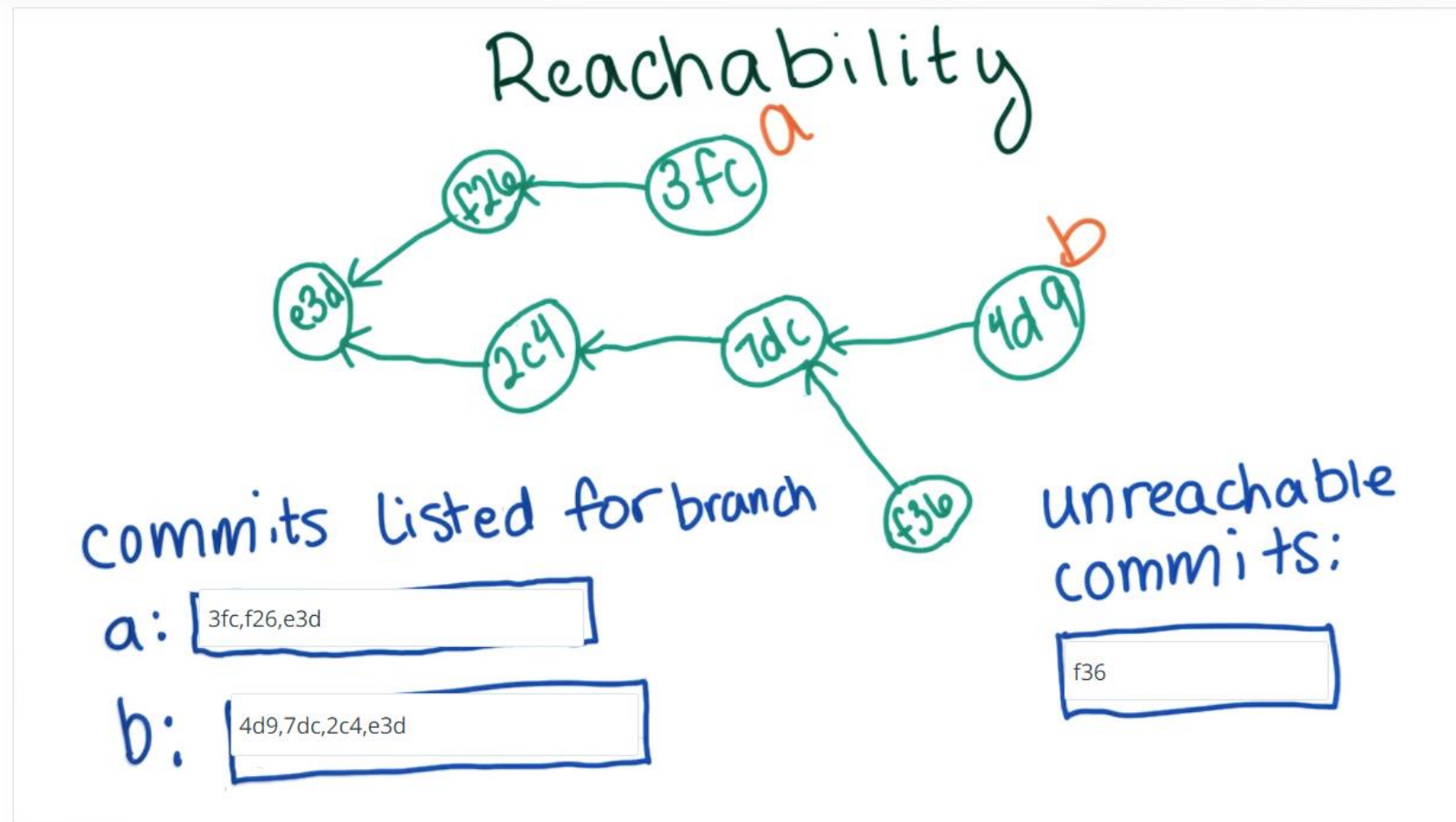
RECURSOS



CONTENIDO



- ✓ 13. Branches
- ✓ 14. Making a Branch
- ✓ 15. Reflect: When to Use Branches
- ✓ 16. Interview with Mike Wales
- ✓ 17. Branches for Collaboration
- ✓ **18. Reachability**
- ✓ 19. Detached HEAD Revisited
- ✓ 20. Reflect: Visualizing with Diagrams



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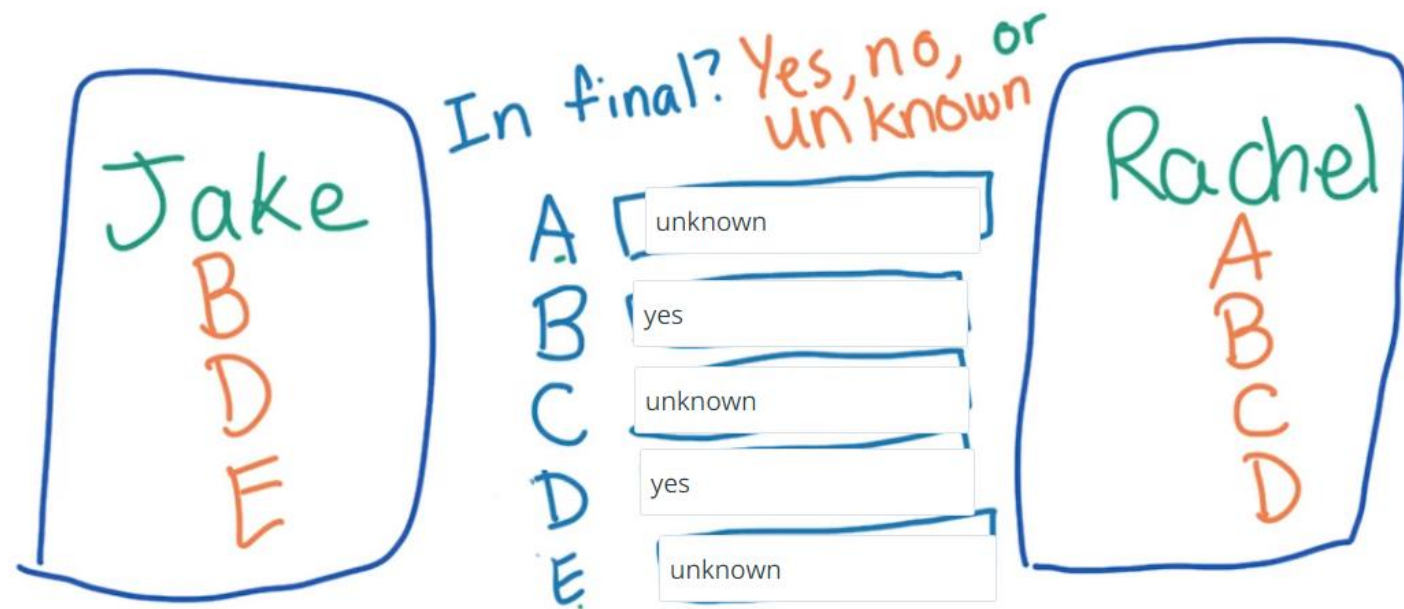


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- ✓ 16. Interview with Mike Wales
- ✓ 17. Branches for Collaboration
- ✓ 18. Reachability
- ✓ 19. Detached HEAD Revisited
- ✓ 20. Reflect: Visualizing with Diagra...
- ✓ 21. Combining Simple Files
- ✓ 22. Combining Simple Files Using ...
- ✓ 23. Merging Coins into Master

Merging files



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- ✓ 19. Detached HEAD Revisited
- ✓ 20. Reflect: Visualizing with Diagra...
- ✓ 21. Combining Simple Files
- ✓ 22. Combining Simple Files Using...
- ✓ 23. Merging Coins into Master
- ✓ 24. Merging on the Command Line
- ✓ 25. Reflect: Merging Two Branches
- ★ 26. Merge Conflicts

Merging files

Original: A
B
D

In final? Yes, no, or unknown

Jake
B
D
E

Rachel
A
B
C
D

A	<input type="text" value="no"/>
B	<input type="text" value="Yes"/>
C	<input type="text" value="yes"/>
D	<input type="text" value="Yes"/>
E	<input type="text" value="yes"/>

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✓ 16. Interview with Mike Wales

✓ 17. Branches for Collaboration

✓ 18. Reachability

✓ 19. Detached HEAD Revisited

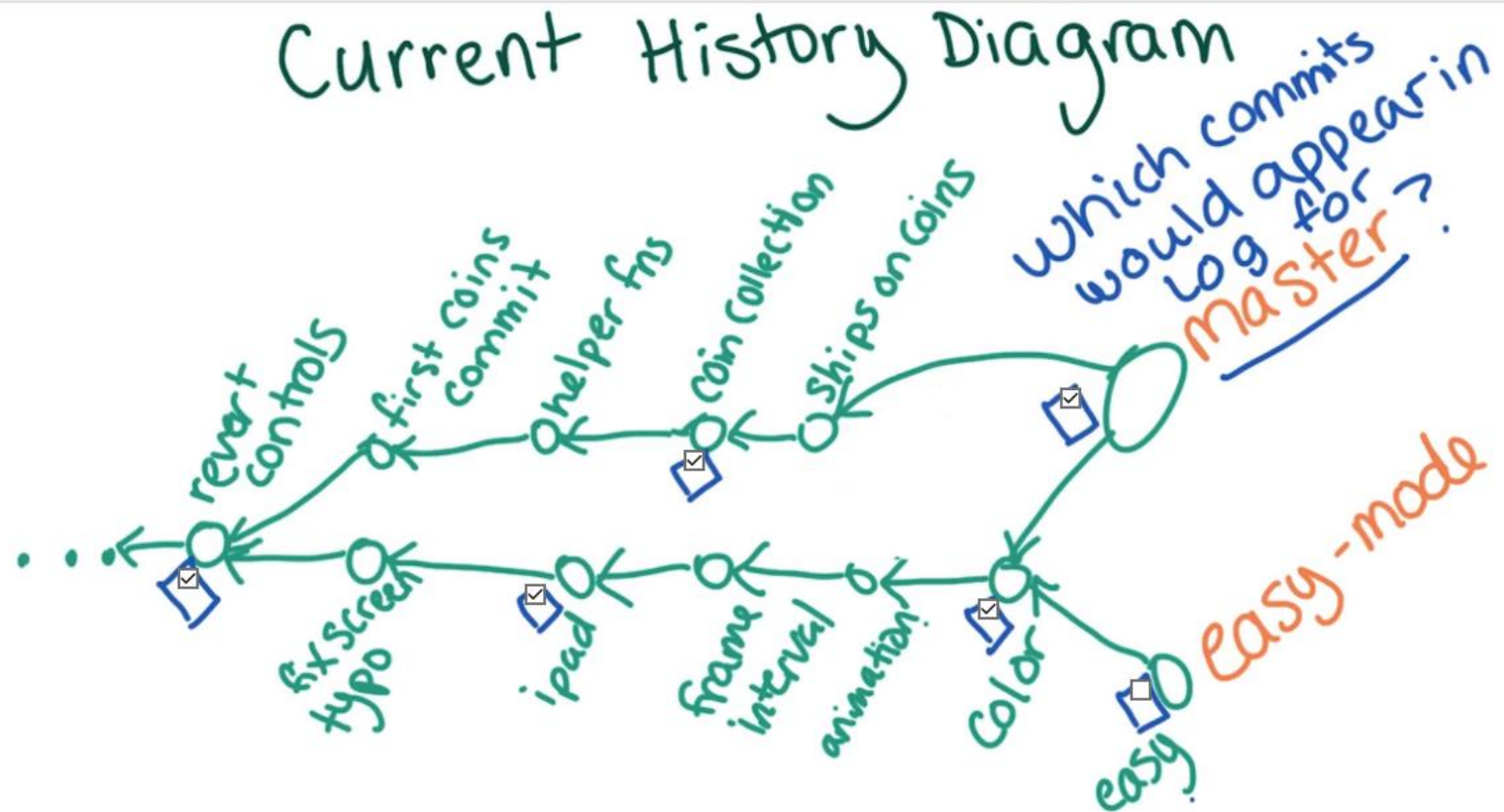
✓ 20. Reflect: Visualizing with Diagram...

✓ 21. Combining Simple Files

✓ 22. Combining Simple Files Using ...

✓ 23. Merging Coins into Master

✓ 24. Merging on the Command Line



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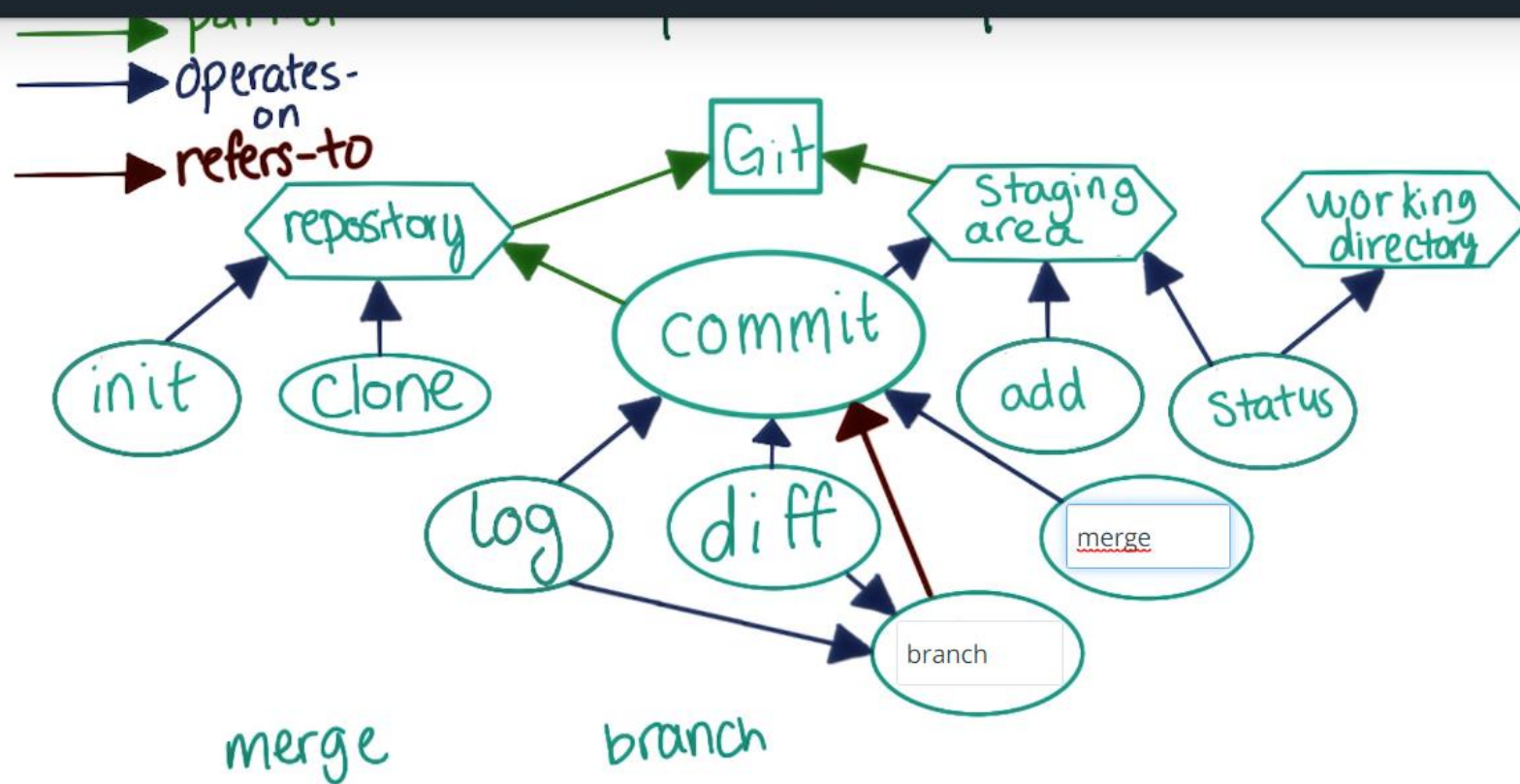
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- ✓ 27. Conflict Detection
- ✓ 28. Update Easy Mode
- ✓ 29. Resolving Merge Conflicts
- ✓ 30. Committing the Conflict Resol...
- ✓ 31. Concept Map: branch, merge
- ✓ 32. Reflect: Automatic vs. Manual ...
- ✓ 33. Interview with Jeffrey Middleton
- ✓ 34. Lesson 2 Summary



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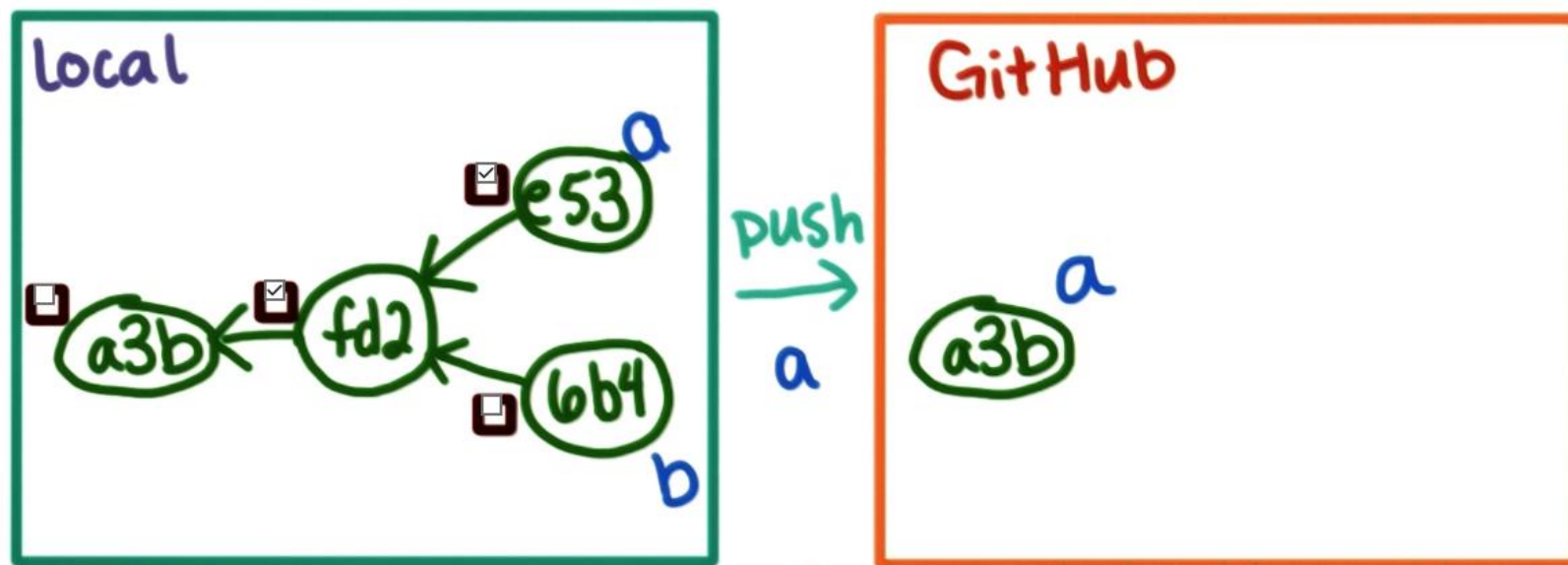


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- ✓ 4. Keeping Repositories in Sync
- ✓ 5. Adding a Remote
- ✓ 6. Editing Files on GitHub
- ✓ 7. Reflect: When to Use a Remote ...
- ✓ 8. Pulling Changes
- ✓ 9. Concept Map: GitHub, Push, Pul...
- ✓ 10. Reflect: Manual vs. Automatic ...
- ✓ 11. Forking a Repository
- ✓ 12. Fork the Recines Repository

Syncing Repositories



Check the commits that will be sent

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11. Forking a Repository

12. Fork the Recipes Repository

13. Push Changes to the Recipes R...

14. Reflect: Forks, Clones, and Bra...

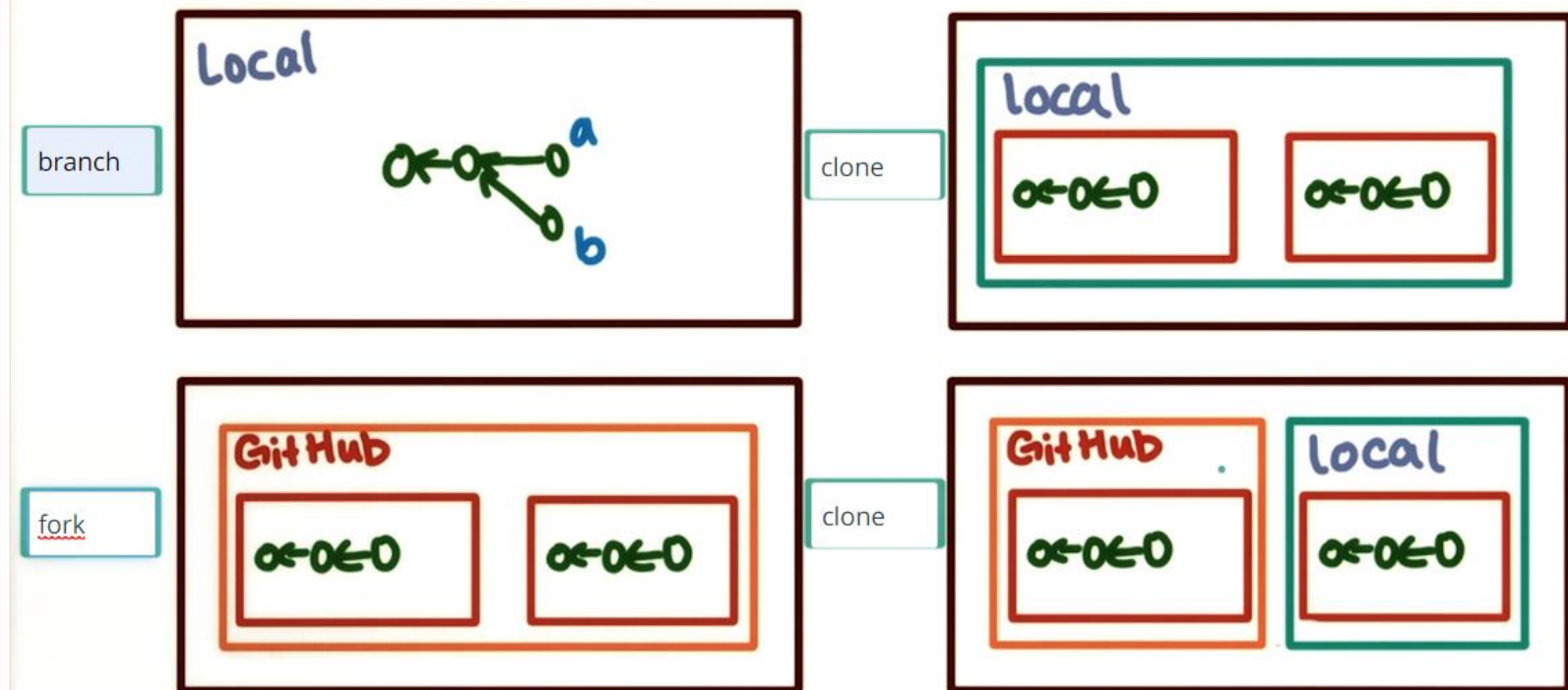
15. Collaborations Cause Conflict

16. Change the Chili Recipe

17. Sarah Changes the Chili Recipe

18. Simulate Sarah's Changes

Clone, Branch, or Fork?



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- ✓ 11. Forking a Repository
- ✓ 12. Fork the Recipes Repository
- ✓ 13. Push Changes to the Recipes ...
- ✓ 14. Reflect: Forks, Clones, and Bra...
- ✓ 15. Collaborations Cause Conflict
- ✓ 16. Change the Chili Recipe
- ✓ 17. Sarah Changes the Chili Recipe
- ✓ 18. Simulate Sarah's Changes
- ✓ 19. Updating Local Copies of Rem...

Where was your commit present?

Right before you ran `git push`, where do you think your commit adding a new recipe was present? Similarly, now that you have run `git push`, where do you think this commit is present? Check all that apply, and remember that it's possible for a commit to be present in a repository both before and after running `git push`.

	Right before running <code>git push</code>	Right after running <code>git push</code>
In your local repository (visible via <code>git log</code>)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
On your fork (visible via the commit history on GitHub)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
On Larry's repository (visible via the commit history on GitHub)	<input type="checkbox"/>	<input type="checkbox"/>

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✓ 21. Fast-Forward Merges

✓ 22. Reflect: Local Copies of Remot...

✓ 23. Making a Pull Request

✓ 24. Updating a Pull Request

✓ 25. Reflect: Collaboration Using Gi...

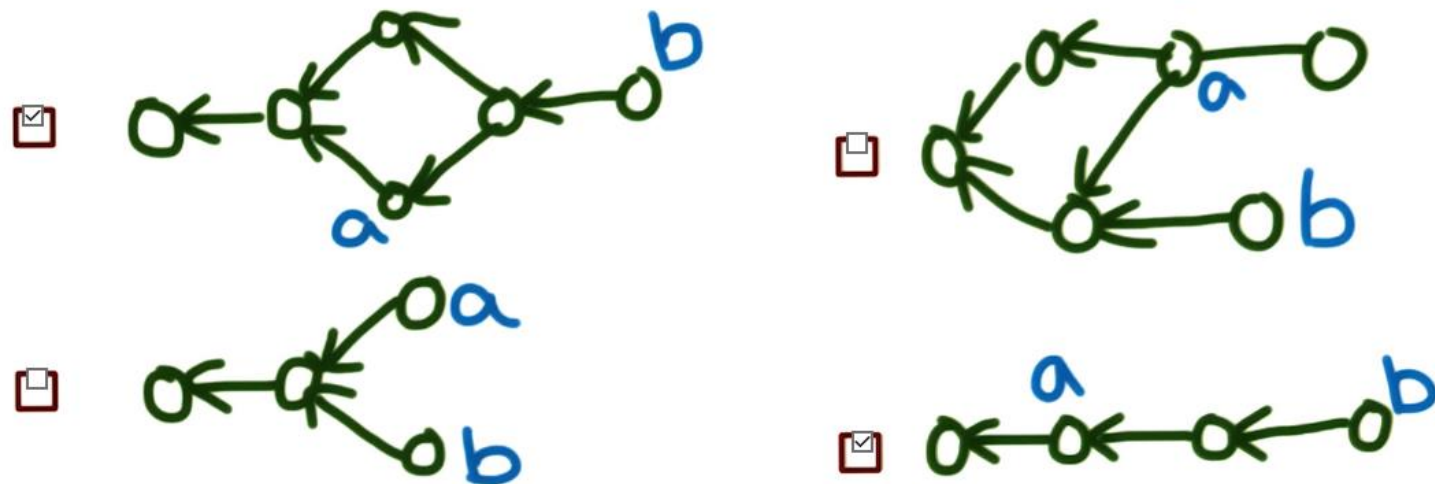
✓ 26. Conflicting Changes

✓ 27. Updating Your Local Repository

✓ 28. Merging a Pull Request

✓ 29. Concept Maps: Fast-Forward Pull

Fast-forward Merges



Check if merging **b** into **a** would be a fast-forward

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- ✓ 20. Merging the Changes Together
- ✓ 21. Fast-Forward Merges
- ✓ 22. Reflect: Local Copies of Remot...
- ✓ 23. Making a Pull Request
- ✓ 24. Updating a Pull Request
- ✓ 25. Reflect: Collaboration Using Gi...
- ✓ 26. Conflicting Changes
- ✓ 27. Updating Your Local Repository

What gets Changed?

local working directory
b
staging area
b
Commit history
master
alt
origin
GitHub
Commit history
master
alt

	Local working directory	Local staging area	Local master branch	GitHub master branch
edit and save README.md	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
git add README.md	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
git commit	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
git pull origin master	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
git push origin master	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
merge alt pull request	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

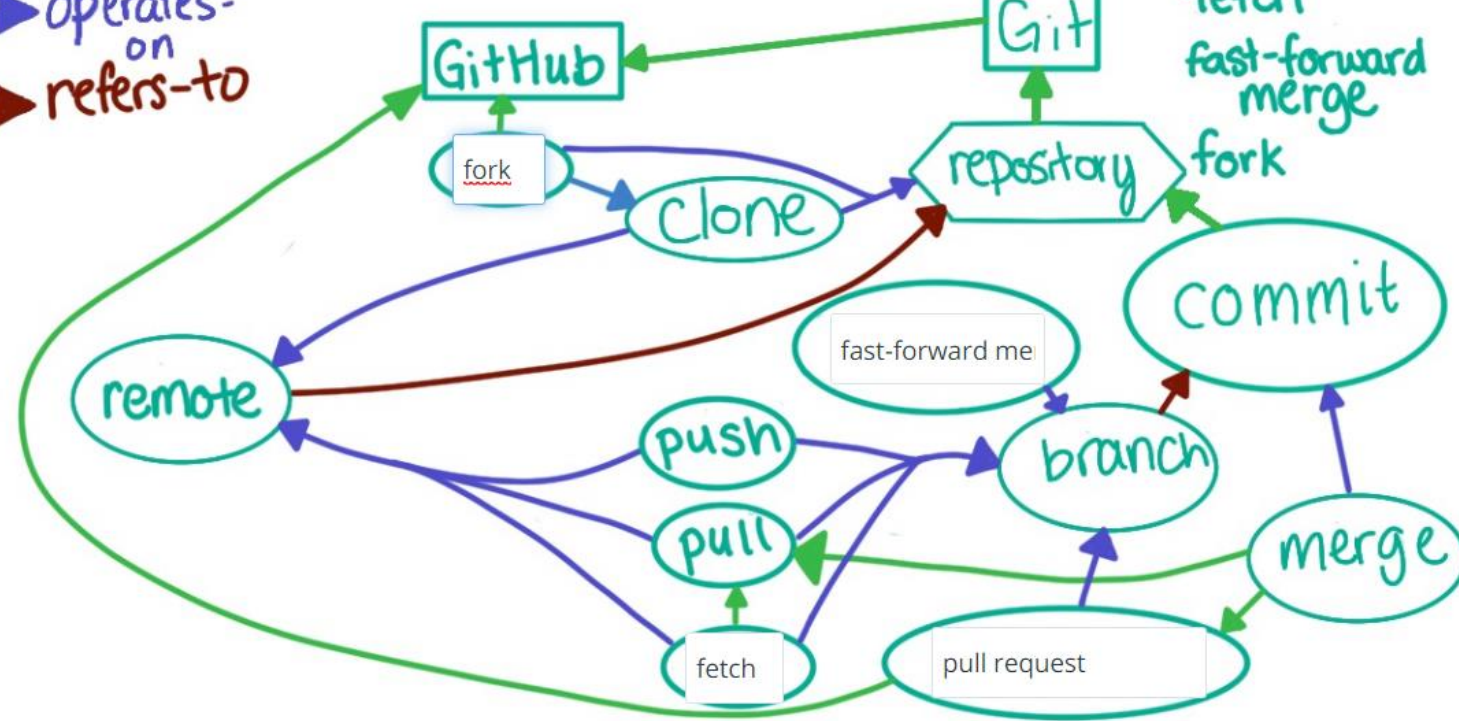
assume these commands are run with local master checked out

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- pull request
- fetch
- fast-forward merge
- > fork



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