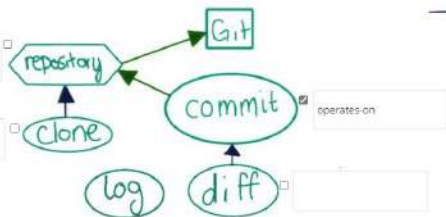


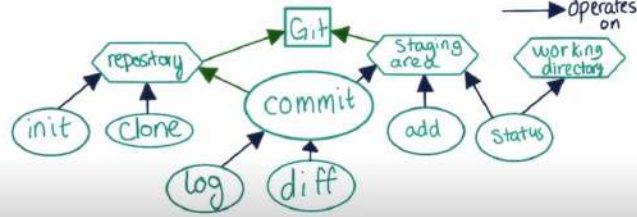
Concept Map

→ type-of
 → part-of
 → operates-on



Concept Map

→ type-of
 → part-of
 → operates-on



Original File	Output of diff -u	Final File
A	---file.txt	A
B	+++updated.txt	B
C	B	C
D	+\$	#
E	-D	%
F	+#	E
	+%	F
	E	

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



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.

git diff

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

git clone

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

git checkout

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

git log

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"/>

Behavior of git clone

Select when each statement would be true:

	True when you copy	True when you clone	True in both cases
If someone else gives you the location of their directory or repository, you can copy or clone it to your own computer.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
The history of changes to the directory or repository is copied.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If you make changes to the copied directory or cloned repository, the original will not change.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
The state of every file in the directory or repository is copied.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

```
commit 7be5a12f1567866b0d77ccdf2855d1a33831da78
Date:   Fri Jul 11 12:56:26 2014 -0300
```

Add sound for the wing.

```
commit 06d72e1f95f846002ec46f41cf71957227111141
Date:   Wed Jul 9 23:42:55 2014 -0300
```

Add mute button.

```
commit 3d4d45b246aad6a1cd0afaf7cfae26966110727e
Date:   Mon Jul 7 17:35:47 2014 -0300
```

Fix leaderboard button

For this `git log` output, check all the commits you would expect to contain code for a mute button.

- ☒ commit 7be5a12f1567866b0d77ccdf2855d1a33831da78 (the top commit listed)
- ☒ commit 06d72e1f95f846002ec46f41cf71957227111141 (the middle commit listed)
- ☒ commit 3d4d45b246aad6a1cd0afaf7cfae26966110727e (the bottom commit listed)

```
commit 7be5a12f1567866b0d77ccdf2855d1a33831da78
Date:   Fri Jul 11 12:56:26 2014 -0300
```

Add sound for the wing.

```
commit 06d72e1f95f846002ec46f41cf71957227111141
Date:   Wed Jul 9 23:42:55 2014 -0300
```

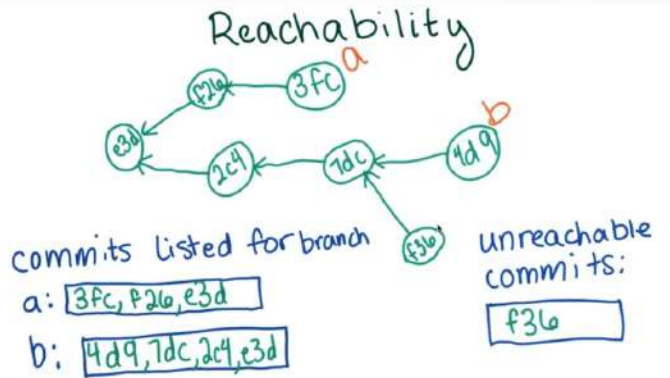
Add mute button.

```
commit 3d4d45b246aad6a1cd0afaf7cfae26966110727e
Date:   Mon Jul 7 17:35:47 2014 -0300
```

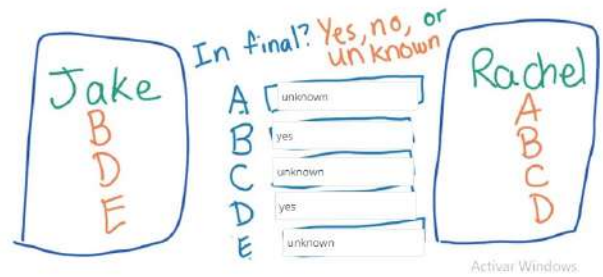
Fix leaderboard button

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

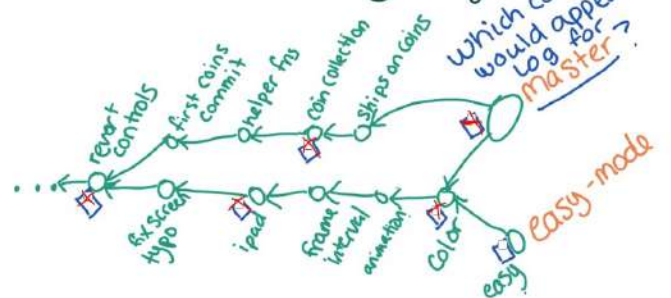
- ☐ `git diff 7be5a1 06d72e`
- ☐ `git diff 06d72e 7be5a1`
- ☐ `git diff 06d72e 3d4d45`
- ☒ `git diff 3d4d45 06d72e`



Merging files



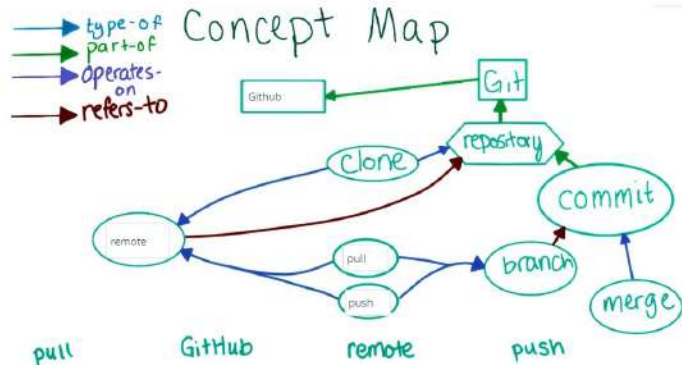
Current History Diagram



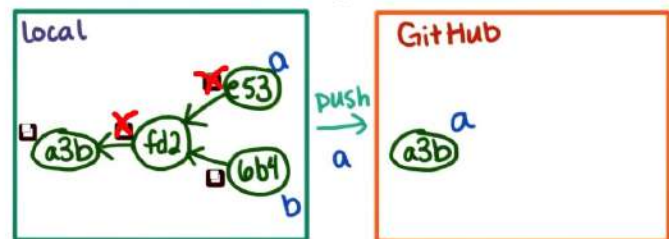
Concept Map



Concept Map

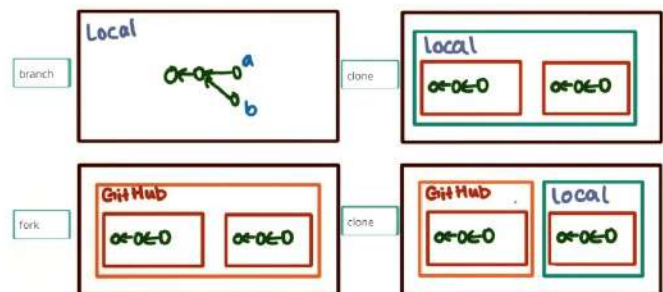


Syncing Repositories



Check the commits that will be sent

Clone, Branch, or Fork?

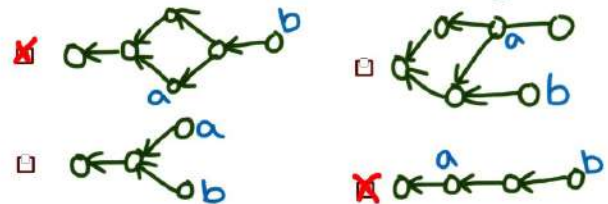


Where was your commit present?

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"/>

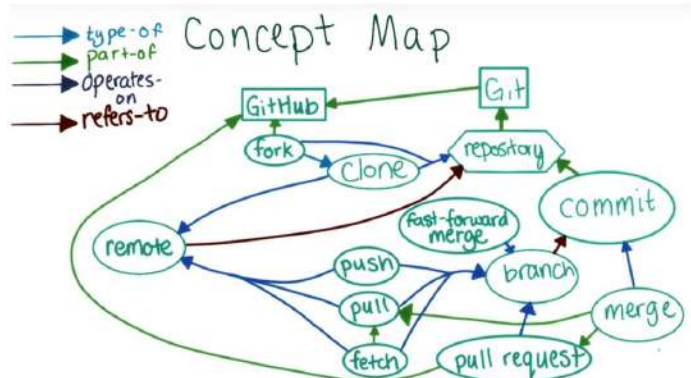
Fast-forward Merges



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

What gets Changed?

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



Merging files

Original: A
B
D

In final? Yes, no, or unknown

Jake

B
D
E

A

no

B

Yes

C

yes

D

Yes

E

yes

Rachel

A
B
C
D