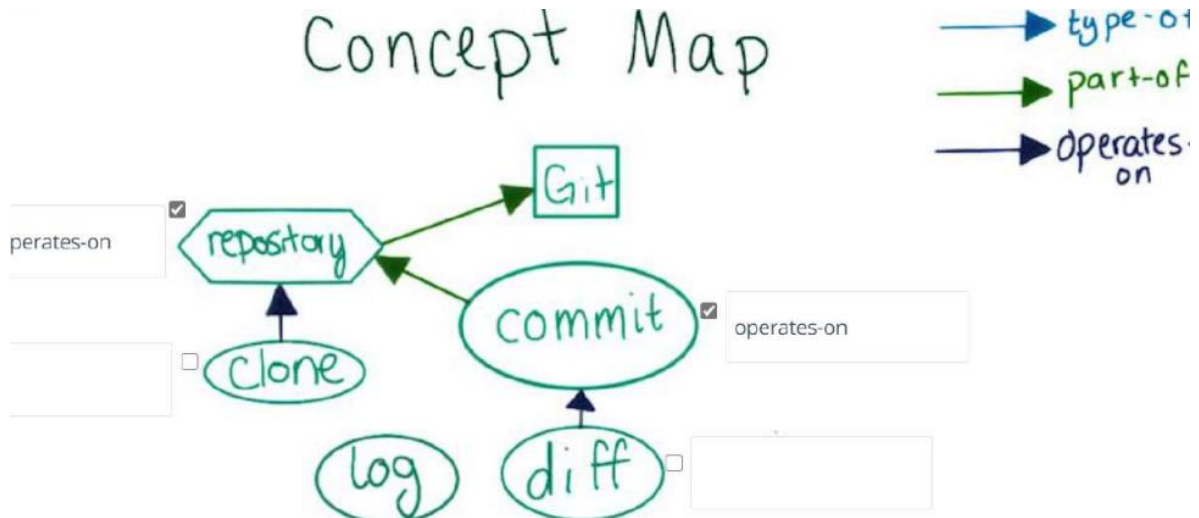


# Concept Map



Original File

Output of diff -u

Final File

A

---file.txt

A  
B  
\$  
C  
#  
%  
E  
F

B

+++updated.txt

B

C

+\$

C

D

-D

E

+#

F

+%

E

## 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.

```
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 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 `7be5a12f1567866b0d77ccdf2055d1a33831da78` (the top commit listed)
- ☒ commit `06d72e1f95f046002ec46f41cf71957227111141` (the middle commit listed)
- ☐ commit `3d4d45b246aad6a1cd0afaf7cfae26966110727e` (the bottom commit listed)

```
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 3d4d45b246aad6a1cd0afaf7cfae26966110727e
```

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

```
    Fix leaderboard button
```

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

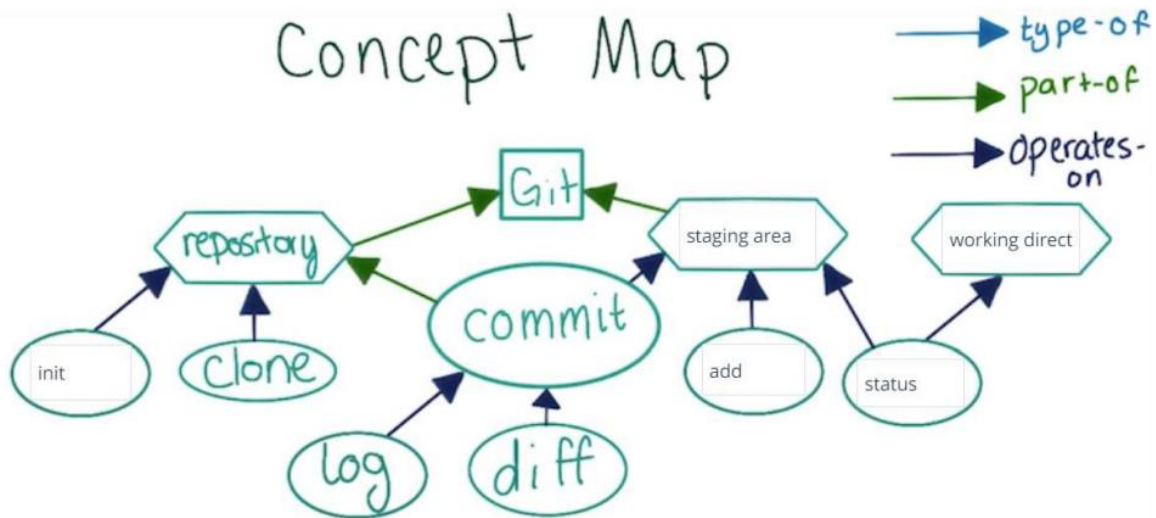
- ☐ `git diff 7be5a1 06d72e`
- ☐ `git diff 06d72e 7be5a1`
- ☐ `git diff 06d72e 3d4d45`
- ☒ `git diff 3d4d45 06d72e`

## 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"/>

# Concept Map



init      staging area      add      status      working directory

What two versions does each form of git diff compare?

Choices: working directory  
staging area  
commit 1  
commit 2



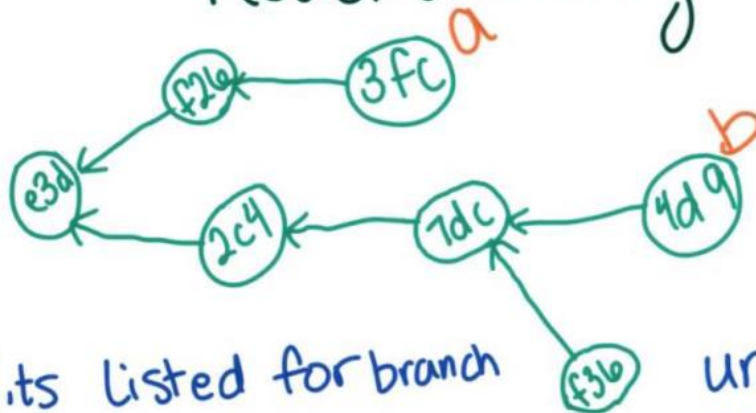
git diff

git diff --staged

git diff commit1 commit2



# Reachability



commits listed for branch

a:

b:

unreachable  
commits:

# Merging files

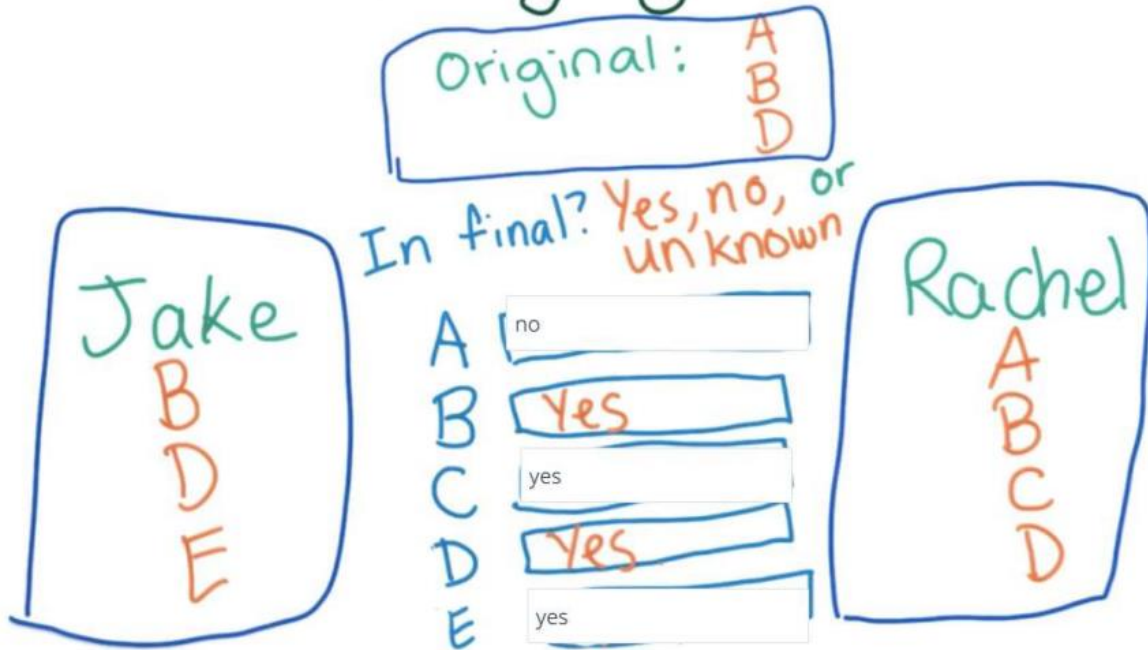
In final? Yes, no, or unknown

	A	B	C	D	E
Jake		B	D	E	
Rachel	A	B	C	D	

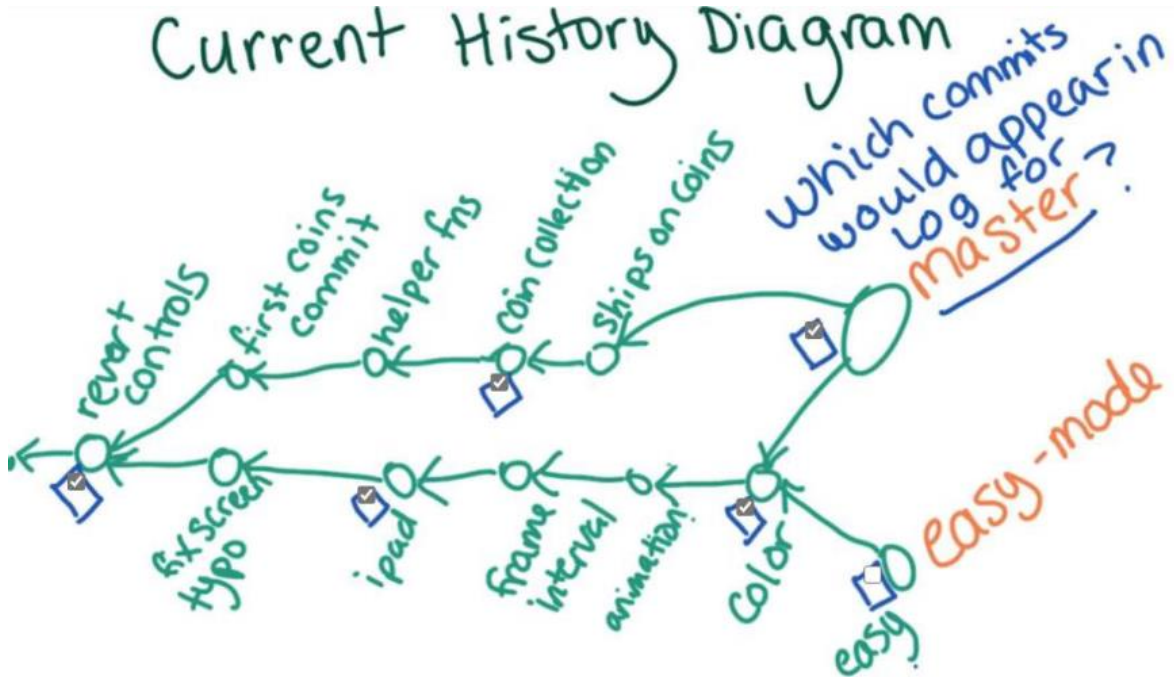
<input type="text" value="unknown"/>
<input type="text" value="yes"/>
<input type="text" value="unknown"/>
<input type="text" value="yes"/>
<input type="text" value="unknown"/>

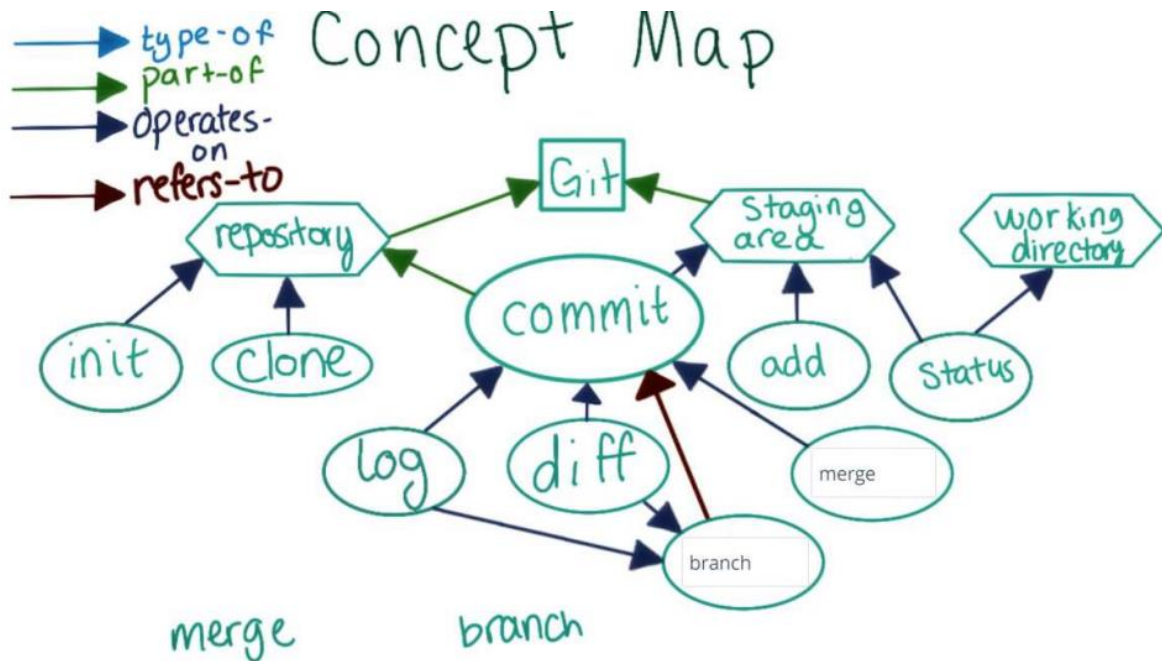


# Merging files

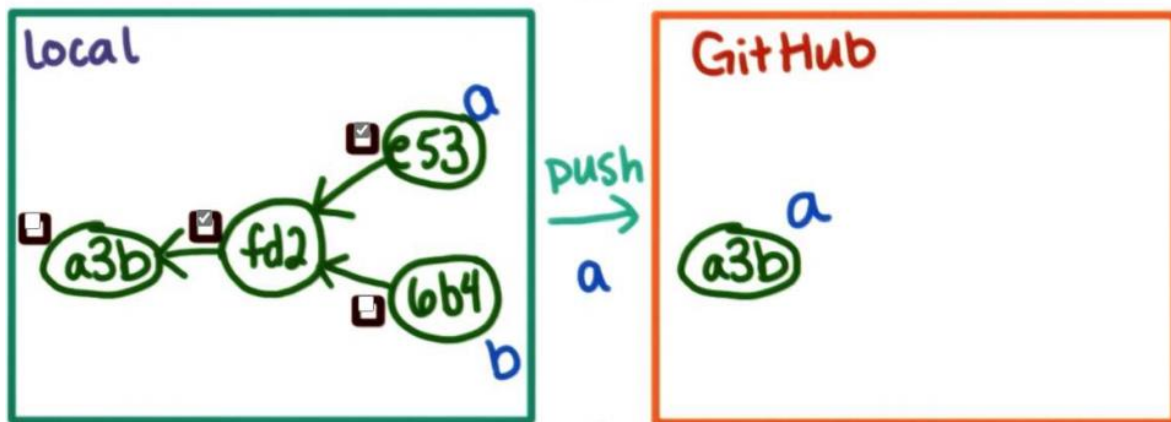


## Current History Diagram

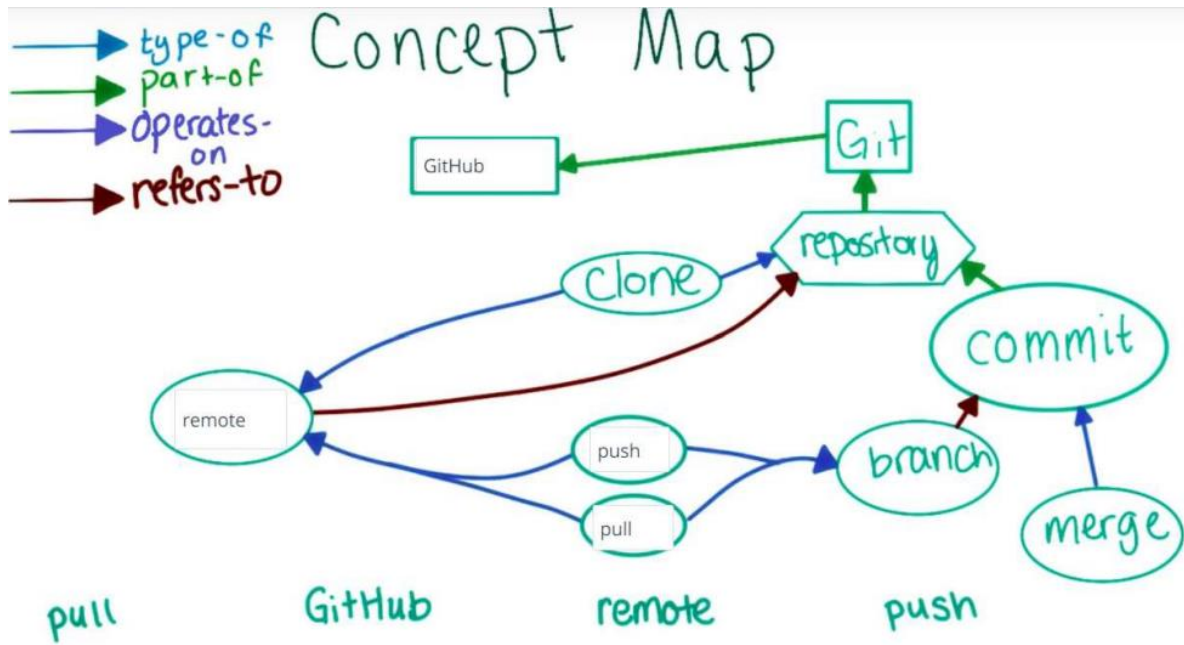




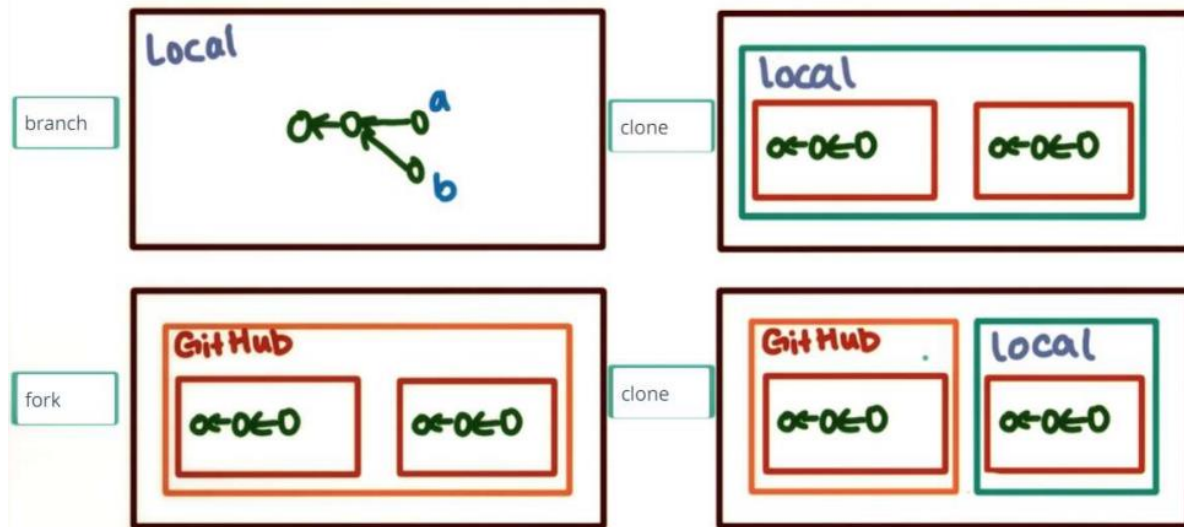
## Syncing Repositories



Check the commits that will be sent



## Clone, Branch, or Fork?



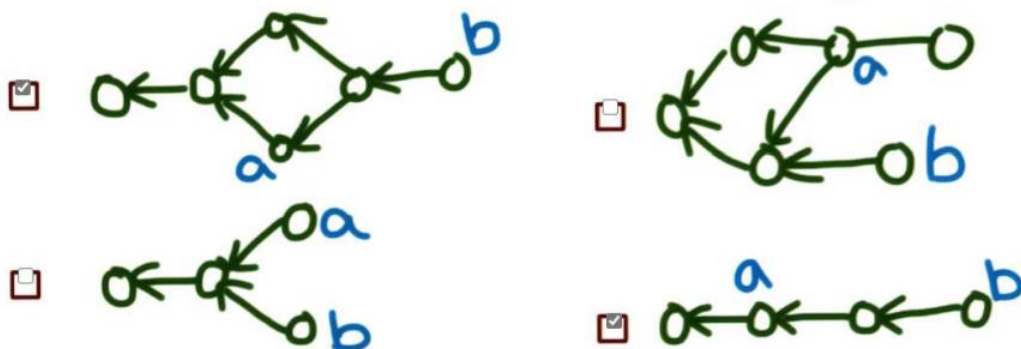


## Where was your commit present?

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



assume these commands are run with local master checked out

## What gets Changed?

	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"/>
git merge alt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
pull request	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- type-of
- part-of
- operates-on
- refers-to

## Concept Map

