

TareaGit

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Concept Map: repository, clone, log

SEND FEEDBACK

Concept Map

Legend:

- type-of
- part-of
- operates-on

Diagram:

```
graph TD
    Git[Git] -- type-of --> repository{{repository}}
    repository -- part-of --> clone((clone))
    repository -- part-of --> commit((commit))
    clone -- operates-on --> commit
    log((log)) -- operates-on --> repository
    diff((diff)) -- operates-on --> commit
```

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Old File Plus Diff

SEND FEEDBACK

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

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Git Command Review

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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Behavior of git log

```
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)

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Behavior of git diff

commit 7be5a12f1567866b0d77ccdf2055d1a33831da78
Date: Fri Jul 11 12:56:26 2014 -0300

Add sound for the wing.

commit 06d72e1f95f04600ec46f41cf7195722711141
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

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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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6. Quiz: Concept Map: init, add, s...

7. Reflect: Staging Area

8. Writing Good Commit Messages

9. Quiz: Committing Changes

10. Quiz: git diff Revisited

11. Commit the Bug Fix

12. Reflect: Commit Size

13. Branches

14. Quiz: Making a Branch

15. Reflect: When to Use Branches

16. Interview with Mike Wales

17. Quiz: Branches for Collaborati...

Concept Map: init, add, staging area

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10. Quiz: git diff Revisited

11. Commit the Bug Fix

12. Reflect: Commit Size

13. Branches

14. Quiz: Making a Branch

15. Reflect: When to Use Branches

16. Interview with Mike Wales

17. Quiz: Branches for Collaborati...

18. Quiz: Reachability

19. Detached HEAD Revisited

20. Reflect: Visualizing with Diagrams

git diff Revisited

What two versions does each form of git diff compare?

Choices: working directory
staging area
commit1
commit2

git diff

git diff --staged

git diff commit1 commit2

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18. Quiz: Reachability

Reachability

commits listed for branch

a:

b:

unreachable commits:

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21. Quiz: Combining Simple Files

Combining Simple Files

Merging files

In final? Yes, no, or unknown

A	<input type="text" value="unknown"/>
B	<input type="text" value="yes"/>
C	<input type="text" value="unknown"/>
D	<input type="text" value="yes"/>
E	<input type="text" value="unknown"/>

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Combining Simple Files Using Original

Merging files

Original: A B D

Jake: B D E

Rachel: A B C D

In final? Yes, no, or unknown

A	no
B	Yes
C	yes
D	Yes
E	yes

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Merging Coins into Master

Current History Diagram

which commits would appear in log for master?

easy-mode

easy

Color

animation

frame interval

ipad

fix screen type

revert controls

first coins commit

helper fix

coin collection

ships on coins

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Concept Map: branch, merge

SEND FEEDBACK

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

Concept Map

init clone commit log diff branch merge add status Staging area Working directory Git

merge branch

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Keeping Repositories in Sync

SEND FEEDBACK

Syncing Repositories

local GitHub

push

Check the commits that will be sent

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

10. Reflect: Manual vs. Automatic ...

11. Quiz: Forking a Repository

12. Quiz: Fork the Recipes Reposit...

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

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

15. Collaborations Cause Conflict

16. Quiz: Change the Chili Recipe

17. Sarah Changes the Chili Recipe

18. Quiz: Simulate Sarah's Changes

19. Quiz: Updating Local Copies of...

20. Quiz: Merging the Changes To...

Concept Map: GitHub, Push, Pull, Remote

SEND FEEDBACK

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

Concept Map

Git

repository

clone

commit

branch

merge

push

pull

remote

GitHub

remote

push

pull

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11. Quiz: Forking a Repository

12. Quiz: Fork the Recipes Reposit...

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

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

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16. Quiz: Change the Chili Recipe

17. Sarah Changes the Chili Recipe

18. Quiz: Simulate Sarah's Changes

19. Quiz: Updating Local Copies of...

20. Quiz: Merging the Changes To...

21. Quiz: Fast-Forward Merges

22. Reflect: Local Copies of Remot...

Forking a Repository

SEND FEEDBACK

Clone, Branch, or Fork?

Local

branch

clone

Local

clone

GitHub

clone

GitHub

Local

clone

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23. Quiz: Making a Pull Request

24. Quiz: Updating a Pull Request

25. Reflect: Collaboration Using Git...

26. Conflicting Changes

27. Quiz: Updating Your Local Rep...

28. Quiz: Merging a Pull Request

29. Quiz: Concept Map: Fork, Fet...

30. Interview with Brent Beer of G...

31. Reflect: When to Use a Separa...

32. Modifying the Adventure Repo...

33. Quiz: Keeping a Fork Up-To-Da...

34. Lesson 3 Summary

Making a Pull Request

What gets Changed?

Local working directory: b
staging area: b
Commit history: master, alt

GitHub commit history: master, alt

assume these commands are run with local master checked out

	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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>

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23. Quiz: Making a Pull Request

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34. Lesson 3 Summary

Concept Map: Fork, Fetch, Pull Request

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

pull request fetch fast-forward merge fork

remote repository clone commit merge branch push pull fetch

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