

Tutorial de ENLUM en Lenguaje C x How to Use Git and GitHub - Ud... x juanjoselena/Tecnicas2020-1Jf... x GitHub x Cómo crear un repositorio local x +

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22. Reflexiona: Usando Git para v...
23. Prueba: Mapa conceptual: re...
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27. Entrevista con Lewis Kaneshiro
28. Git Workspace
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30. Configuración de su espacio d...
31. Reflexiona: ¿Cómo quieres us...
32. Resumen de la lección 1
33. Prueba: encuesta dice!

Mapa conceptual: repositorio, clon, registro

ENVIAR COMENTARIOS

Concept Map

type-of
part-of
operates-on

repository

clone

commit

log

diff

operates-on

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3. Quiz: Old File Plus Diff
4. Quiz: Tracking Versions Using Git
5. Quiz: Git Command Review
6. Quiz: Behavior of git clone
7. Quiz: Behavior of git log
8. Quiz: Behavior of git diff
9. Quiz: Behavior of git checkout
10. Quiz: Cloning a New Repository
11. Quiz: Identifying a Bug
12. Quiz: Fixing the Bug
13. Quiz: Identifying a Second Bug
14. Quiz: Fixing the Second Bug

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

SEND FEEDBACK

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 diff

SEND FEEDBACK

```
commit 7be5a12f1567866bd77ccdf2055d1a33831da78
Date:   Fri Jul 11 12:56:26 2014 -0300

    Add sound for the wing.

commit 06d72e1f95f046002ec46f41cf7195722711141
Date:   Wed Jul 9 23:42:55 2014 -0300

    Add mute button.

commit 3d4d45b246aad5a1cd0afaf7cfae26966110727e
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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Concept Map: init, add, staging area

init

staging area

add

status

working directory

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10. Quiz: 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

Working directory: File1, File2

Staging area: File1, File2

Repository: Commit1, ..., Commit2, ...

working directory, staging area, commit1, commit2

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18. Quiz: Reachability

Reachability

commits listed for branch a: 3fc, f26, e3d

commits listed for branch b: 4d9, 7dc, 2c4, e3d

unreachable commits: f36

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21. Quiz: Combining Simple Files

Combining Simple Files

SEND FEEDBACK

Merging files

Jake
B
D
E

In final? Yes, no, or unknown

A unknown
B yes
C unknown
D yes
E unknown

Rachel
A
B
C
D

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22. Quiz: Combining Simple Files ...

Combining Simple Files Using Original

SEND FEEDBACK

Merging files

Original: A B D

Jake
B
D
E

In final? Yes, no, or unknown

A no
B Yes
C yes
D Yes
E yes

Rachel
A
B
C
D

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23. Quiz: Merging Coins into Mas...

24. Quiz: Merging on the Comma...

25. Reflect: Merging Two Branches

26. Quiz: Merge Conflicts

27. Conflict Detection

28. Quiz: Update Easy Mode

29. Quiz: Resolving Merge Conflicts

30. Quiz: Committing the Conflict ...

31. Quiz: Concept Map: branch, m...

32. Reflect: Automatic vs. Manual ...

33. Interview with Jeffrey Middleton

34. Lesson 2 Summary

Merging Coins into Master

SEND FEEDBACK

A hand-drawn commit history diagram showing a sequence of commits. The main line of development is labeled 'easy-mode' in orange. Commits include 'revert controls', 'first coins commit', 'helper fix', 'coin collection', 'ships on coins', 'fix screen hypo', 'ipad', 'frame interval', 'animation', and 'color'. A branch 'easy' is shown diverging from 'color'. A question in blue ink asks 'which commits would appear in log for master?'. The diagram shows that only the commits on the 'easy' branch (from 'color' onwards) would appear in the master log.

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Concept Map: branch, merge

SEND FEEDBACK

A hand-drawn concept map for Git. The central node is 'commit'. Other nodes include 'repository', 'staging area', 'working directory', 'branch', 'diff', 'log', 'add', 'merge', 'status', 'init', and 'clone'. Arrows indicate relationships: 'init' and 'clone' lead to 'repository'; 'repository' leads to 'commit'; 'commit' leads to 'staging area'; 'staging area' leads to 'add'; 'add' leads to 'commit'; 'commit' leads to 'branch'; 'branch' leads to 'diff'; 'diff' leads to 'merge'; 'merge' leads to 'commit'; 'commit' leads to 'log'; 'log' leads to 'diff'; 'diff' leads to 'status'; 'status' leads to 'merge'; 'merge' leads to 'commit'; 'commit' leads to 'working directory'; 'working directory' leads to 'status'; 'status' leads to 'merge'; 'merge' leads to 'commit'. A legend on the left defines arrow types: blue for 'type-of', green for 'part-of', purple for 'operates-on', and red for 'refers-to'.

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4. Quiz: Keeping Repositories in Sync

Keeping Repositories in Sync

SEND FEEDBACK

Syncing Repositories

local

GitHub

push

a

a3b

Check the commits that will be sent

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6. Editing Files on GitHub

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

8. Quiz: Pulling Changes

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

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

Concept Map: GitHub, Push, Pull, Remote

SEND FEEDBACK

Concept Map

type-of

part-of

operates-on

refers-to

Git

GitHub

repository

clone

commit

branch

merge

push

pull

remote

pull

GitHub

remote

push

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8. Quiz: Pulling Changes

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16. Quiz: Change the Chili Recipe

17. Sarah Changes the Chili Recipe

18. Quiz: Simulate Sarah's Changes

Forking a Repository

SEND FEEDBACK

Clone, Branch, or Fork?

branch

Local

clone

local

fork

GitHub

clone

GitHub

local

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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...

23. Quiz: Making a Pull Request

24. Quiz: Updating a Pull Request

Push Changes to the Recipes Repository

SEND FEEDBACK

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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Fast-Forward Merges

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

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Making a Pull Request

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 type="checkbox"/>	<input checked="" 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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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 Separ...
32. Modifying the Adventure Repo...
33. Quiz: Keeping a Fork Up-To-Da...
34. Lesson 3 Summary

Concept Map: Fork, Fetch, Pull Request

SEND FEEDBACK

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

```
graph TD
    remote([remote])
    clone([clone])
    push([push])
    pull([pull])
    fetch([fetch])
    branch([branch])
    commit([commit])
    merge([merge])
    pull_request([pull request])
    repository(repository)
    fork(fork)
    fast_forward_merge(fast-forward merge)

    remote -- type-of --> clone
    clone -- part-of --> repository
    push -- operates-on --> remote
    pull -- operates-on --> remote
    pull -- operates-on --> repository
    fetch -- operates-on --> remote
    fetch -- operates-on --> repository
    branch -- operates-on --> repository
    commit -- operates-on --> branch
    merge -- operates-on --> branch
    merge -- operates-on --> pull_request
    pull_request -- refers-to --> repository
    fork -- refers-to --> repository
    fork -- refers-to --> clone
    fast_forward_merge -- refers-to --> branch
    fast_forward_merge -- refers-to --> merge
```

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