

Técnicas de programación

GIT – TAREA

Cuando termine el curso de Git disponible en: <https://classroom.udacity.com/courses/ud775> usted estará en capacidad de crear un repositorio local y un repositorio remoto usando git. Una vez tenga la cuenta debe crear un repositorio en GitHub que se llame Tecnicas2020-1Iniciales. Por ejemplo, si yo tuviera que crear un proyecto mi nombre sería Tecnicas2020-2LFRP. Este proyecto será el lugar donde serán los subidos los ejercicios prácticos del este curso, por esa razón debe darme dentro del proyecto permisos para que yo pueda hacer push y pull.

Dentro del proyecto deberá crear una carpeta llamada GIT y dentro de esa carpeta deberá adicionar un documento con extensión .doc o .pdf que contenga las pantallas que den solución a las siguientes preguntas que son formuladas durante el curso de GIT.

Como resultado de este trabajo deberán escribirme por Telegram a más tardar el sábado 28 de marzo con la URL del proyecto que crearon en GITHUB, y dentro del proyecto debo encontrar el documento con las respuestas.

1)

The screenshot shows a web browser window with multiple tabs. The active tab is a Udacity classroom page titled "Concept Map: repository, clone, log". The page displays a hand-drawn concept map for Git. The map includes the following nodes and relationships:

- repository** (hexagon) is connected to **clone** (oval) by a blue arrow (type-of).
- clone** (oval) is connected to **repository** (hexagon) by a green arrow (part-of).
- clone** (oval) is connected to **commit** (oval) by a purple arrow (operates-on).
- log** (oval) is connected to **commit** (oval) by a purple arrow (operates-on).
- diff** (oval) is connected to **commit** (oval) by a purple arrow (operates-on).
- Git** (rectangle) is connected to **repository** (hexagon) by a green arrow (part-of).
- commit** (oval) is connected to **repository** (hexagon) by a green arrow (part-of).

A legend on the right side of the map explains the arrow types:

- Blue arrow: type-of
- Green arrow: part-of
- Purple arrow: operates-on

At the bottom of the page, there are buttons for "Ver introducción", "VER RESPUESTA", and "ENVIAR RESPUESTA".

3)

The screenshot shows a web browser window with the address bar displaying `classroom.udacity.com/courses/ud775/lessons/3394248803/concepts/34080188590923`. The browser has several tabs open, including 'Técnicas y prácticas de...', 'How to Use Git and...', 'Ifiricon/material/Tec...', 'Ifiricon/TareaGit.docx', 'GitHub', 'Correo: carlos andres', and '(2) WhatsApp'. The page title is 'Old File Plus Diff' and it includes a 'SEND FEEDBACK' link.

On the left side, there is a sidebar with a list of quizzes, each preceded by a star icon. The first three quizzes are checked: '3. Quiz: Old File Plus Diff', '4. Quiz: Tracking Versions Using Git', and '5. Quiz: Git Command Review'. The remaining quizzes are '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', and '14. Quiz: Fixing the Second Bug'.

The main content area is titled 'Old File Plus Diff' and contains three columns: 'Original File', 'Output of diff -u', and 'Final File'.

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

At the bottom of the main content area, there are three buttons: 'Ver introducción', 'VER RESPUESTA', and 'ENVIAR RESPUESTA'.

4)

The screenshot shows a web browser window with the address bar displaying `classroom.udacity.com/courses/ud775/lessons/3394248803/concepts/33816788120923`. The browser has several tabs open, including 'Técnicas y prácticas de...', 'Ifiricon/material/Tec...', 'Ifiricon/TareaGit.docx', 'GitHub', 'Correo: carlos andres', 'How to Use Git and...', and '(2) WhatsApp'. The page title is 'Git Command Review' and it includes a 'SEND FEEDBACK' link.

On the left side, there is a sidebar with a list of quizzes, each preceded by a star icon. The first five quizzes are checked: '3. Quiz: Old File Plus Diff', '4. Quiz: Tracking Versions Using Git', '5. Quiz: Git Command Review', '6. Quiz: Behavior of git clone', and '7. Quiz: Behavior of git log'. The remaining quizzes are '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', and '14. Quiz: Fixing the Second Bug'.

The main content area is titled 'Git command review' and contains the following text: '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.

At the bottom of the main content area, there are three buttons: 'Ver introducción', 'VER RESPUESTA', and 'ENVIAR RESPUESTA'.

5)

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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6)

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

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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7)

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"/>

Ver introducción

VER RESPUESTA ENVIAR RESPUESTA

8)

Concept Map: init, add, staging area

init staging area add status working directory

Ver introducción

VER RESPUESTA ENVIAR RESPUESTA

9)

git diff Revisited

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: File1, File2
Staging area: File1, File2
Repository: Commit1, ..., Commit2, ...

working directory staging area
staging area commit 1
commit 1 commit 2

Ver introducción VER RESPUESTA ENVIAR RESPUESTA

10)

Reachability

Reachability

commits listed for branch
a: 3fc, f26, e3d
b: 4d9, 7dc, 2c4, e3d

unreachable commits:
f36

Ver introducción VER RESPUESTA ENVIAR RESPUESTA

11)

classroom.udacity.com/courses/ud775/lessons/2969618657/concepts/29605487910923

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

Ver introducción

VER RESPUESTA

ENVIAR RESPUESTA

12)

classroom.udacity.com/courses/ud775/lessons/2969618657/concepts/29796485910923

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

Ver introducción

VER RESPUESTA

ENVIAR RESPUESTA

13)

classroom.udacity.com/courses/ud775/lessons/2969618657/concepts/29605487950923

23. Quiz: Merging Coins into Mas... SEND FEEDBACK

Current History Diagram

revert controls
first coins commit
helper fix
coin collection
ships on coins
fix screen typo
ipad
frame interval
animation
color
easy
easy-mode
easy

which commits would appear in log for master?

Ver introducción VER RESPUESTA ENVIAR RESPUESTA

14)

classroom.udacity.com/courses/ud775/lessons/2969618657/concepts/29625086400923

31. Quiz: Concept Map: branch, merge SEND FEEDBACK

Concept Map

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

repository
init
clone
commit
log
diff
branch
merge
add
status
staging area
working directory

Ver introducción VER RESPUESTA ENVIAR RESPUESTA

15)

classroom.udacity.com/courses/ud775/lessons/3105028581/concepts/30736788890923

Keeping Repositories in Sync

SEND FEEDBACK

Syncing Repositories

```
graph LR
    subgraph Local
        e53((e53)) --> a3b((a3b))
        a3b --> fd2((fd2))
        fd2 --> 6b4((6b4))
    end
    fd2 -- push --> a3b_github((a3b))
    subgraph GitHub
        a3b_github
    end
```

Check the commits that will be sent

Ver introducción

VER RESPUESTA

ENVIAR RESPUESTA

16)

classroom.udacity.com/courses/ud775/lessons/3105028581/concepts/3154688350923

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

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

GitHub

Git

repository

clone

commit

remote

push

branch

merge

pull

GitHub

remote

push

VER INTRODUCCIÓN

VER RESPUESTA

ENVIAR RESPUESTA

17)

classroom.udacity.com/courses/ud775/lessons/3105028581/concepts/30736789010923

11. Quiz: Forking a Repository

Forking a Repository

Clone, Branch, or Fork?

The diagram shows the following relationships:

- A **Local** repository (with a branch) can be **cloned** to a **GitHub** repository.
- A **GitHub** repository can be **cloned** to a **Local** repository.
- A **GitHub** repository can be **forked** to create a new **GitHub** repository.

Ver introducción

VER RESPUESTA

ENVIAR RESPUESTA

18)

classroom.udacity.com/courses/ud775/lessons/3105028581/concepts/30770389910923

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

Push Changes to the Recipes Repository

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"/>

Ver introducción

VER RESPUESTA

ENVIAR RESPUESTA

19)

Fast-Forward Merges

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

Ver introducción

VER RESPUESTA

ENVIAR RESPUESTA

20)

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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
origin master	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
git push	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
origin master	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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"/>

assume these commands are run with local master checked out

Ver introducción

VER RESPUESTA

ENVIAR RESPUESTA

21)

classroom.udacity.com/courses/ud775/lessons/3105028581/concepts/31382785430923

Aplicaciones Facebook YouTube Anime Online - Ani... Netflix

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 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
    GitHub[GitHub] -- type-of --> Git[Git]
    GitHub -- part-of --> repository(repository)
    GitHub -- part-of --> clone(clone)
    GitHub -- part-of --> remote(remote)
    repository -- part-of --> clone
    repository -- part-of --> commit(commit)
    repository -- part-of --> branch(branch)
    repository -- part-of --> pull_request(pull request)
    clone -- operates-on --> repository
    clone -- operates-on --> remote
    remote -- operates-on --> clone
    remote -- operates-on --> push(push)
    remote -- operates-on --> pull(push)
    remote -- operates-on --> fetch(fetch)
    push -- operates-on --> repository
    pull -- operates-on --> repository
    fetch -- operates-on --> repository
    branch -- operates-on --> repository
    branch -- operates-on --> commit
    branch -- operates-on --> merge(merge)
    commit -- operates-on --> branch
    merge -- operates-on --> branch
    pull_request -- operates-on --> branch
    pull_request -- operates-on --> merge
    pull_request -- refers-to --> repository
    pull_request -- refers-to --> clone
    pull_request -- refers-to --> remote
    pull_request -- refers-to --> fetch
    pull_request -- refers-to --> push
    pull_request -- refers-to --> merge
```

pull request
fetch
fast-forward
merge
fork

Ver introducción

VER RESPUESTA

ENVIAR RESPUESTA

ESP 5:30 p.m.