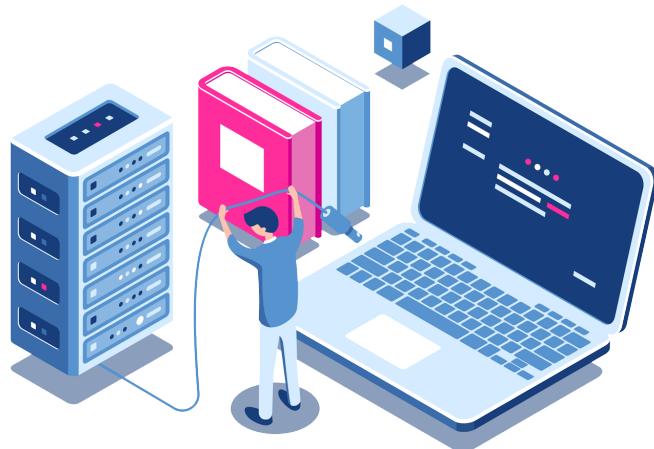


GIT



Actividad nº 4
Javier González Zarza
2º DAW

Requerimiento 1

Se pide que el alumno versiones y recupere los documentos creados en las actividades anteriores. Para ello se hará uso del repositorio GIT creado al inicio de las actividades. Se deberán crear:

1. Una etiqueta que contenga la última versión de todos los documentos
2. Una etiqueta que contenga la primera versión de cada documento
3. Una rama que contenga únicamente la última versión de todos los documentos sin ningún commit histórico.
4. Una rama que contenga la primera versión de cada documento
5. Un fichero README.md que contenga la historia de commits del repositorio (formato de una línea)

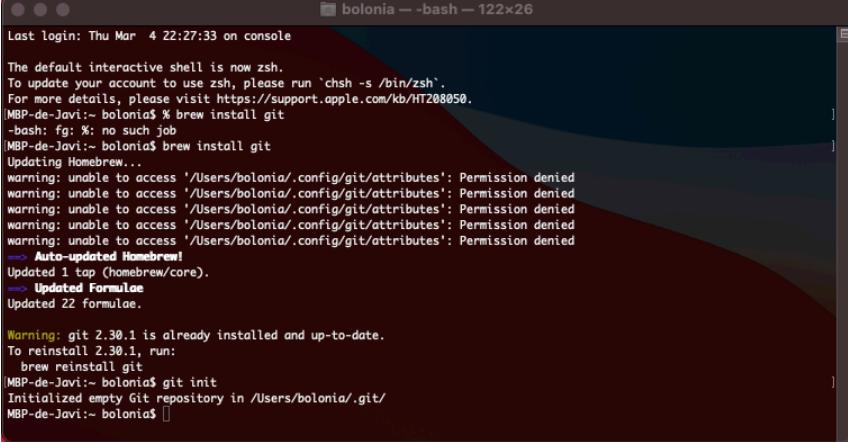
Consideraciones

Para toda la actividad se valorará el orden y la claridad de la documentación, así como la facilidad de uso.

Para la entrega, se subirá un fichero comprimido con el código de Github a la plataforma.

Para la entrega, es necesario la creación de un pequeño documento formal sobre la actividad (portada, explicación, etc.), indicando los comandos ejecutados para cada consulta y una captura de pantalla de la salida.

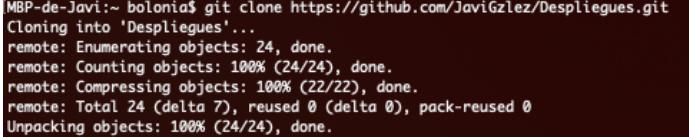
Vamos a comprobar que esta instalado en nuestro terminal GIT y vamos a iniciar GIT con los siguientes comandos



```
Last login: Thu Mar  4 22:27:33 on console
The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
[MBP-de-Javi:~ bolonia]$ brew install git
[bash: fg: %: no such job
[MBP-de-Javi:~ bolonia]$ brew install git
Updating Homebrew...
warning: unable to access '/Users/bolonia/.config/git/attributes': Permission denied
=> Auto-updated Homebrew!
Updated 1 tap (homebrew/core).
=> Updated Formulae
Updated 22 formulae.

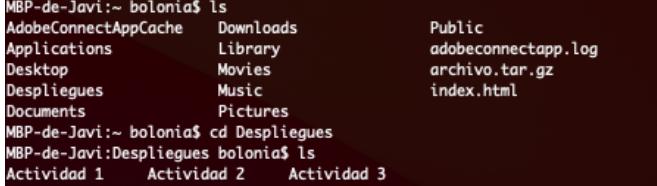
Warning: git 2.30.1 is already installed and up-to-date.
To reinstall 2.30.1, run:
brew reinstall git
[MBP-de-Javi:~ bolonia]$ git init
Initialized empty Git repository in /Users/bolonia/.git/
[MBP-de-Javi:~ bolonia$ ]
```

Lo siguiente que vamos hacer es clonar nuestro repositorio en el terminal



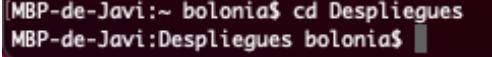
```
[MBP-de-Javi:~ bolonia]$ git clone https://github.com/JaviGzlez/Despliegues.git
Cloning into 'Despliegues'...
remote: Enumerating objects: 24, done.
remote: Counting objects: 100% (24/24), done.
remote: Compressing objects: 100% (22/22), done.
remote: Total 24 (delta 7), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (24/24), done.
```

Vemos los directorios y las carpetas que tenemos



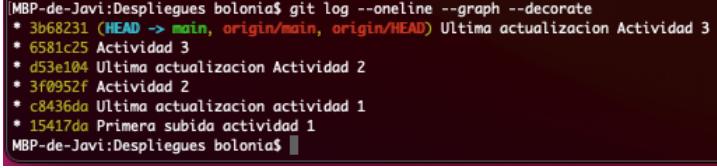
```
[MBP-de-Javi:~ bolonia]$ ls
AdobeConnectAppCache    Downloads          Public
Applications           Library           adobeconnectapp.log
Desktop                Movies            archivo.tar.gz
Despliegues             Music             index.html
Documents               Pictures
[MBP-de-Javi:~ bolonia]$ cd Despliegues
[MBP-de-Javi:Despliegues bolonia]$ ls
Actividad 1   Actividad 2   Actividad 3
```

Entramos en nuestro repositorio



```
[MBP-de-Javi:~ bolonia]$ cd Despliegues
[MBP-de-Javi:Despliegues bolonia$ ]
```

Comprobamos el historial de nuestro repositorio



```
[MBP-de-Javi:Despliegues bolonia]$ git log --oneline --graph --decorate
* 3b68231 (HEAD -> main, origin/main, origin/HEAD) Ultima actualizacion Actividad 3
* 6581c25 Actividad 3
* d53e104 Ultima actualizacion Actividad 2
* 3f0952f Actividad 2
* c8436da Ultima actualizacion actividad 1
* 15417da Primera subida actividad 1
[MBP-de-Javi:Despliegues bolonia$ ]
```

Voy a crear una etiqueta para la ultima versión de las actividades de la ultima versión

```
MBP-de-Javi:Despliegues bolonia$ git tag
MBP-de-Javi:Despliegues bolonia$ git tag -a ver3.3 -m 'ultima version actividad 3' 3b68231
MBP-de-Javi:Despliegues bolonia$ git tag -a ver2.3 -m 'ultima version actividad 2' d53e104
MBP-de-Javi:Despliegues bolonia$ git tag -a ver1.3 -m 'ultima version actividad 1' c8436da
MBP-de-Javi:Despliegues bolonia$
```

Y ahora procedemos a subirla

```
MBP-de-Javi:Despliegues bolonia$ git push --tags
Username for 'https://github.com': JaviGlez
Password for 'https://JaviGlez@github.com':
warning: unable to access '/Users/bolonia/.config/git/attributes': Permission denied
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 499 bytes | 499.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/JaviGlez/Despliegues.git
 * [new tag]      ver1.3 -> ver1.3
 * [new tag]      ver2.3 -> ver2.3
 * [new tag]      ver3.3 -> ver3.3
```

Y ahora hacemos lo mismo para los primeros documentos

```
MBP-de-Javi:Despliegues bolonia$ git tag -a ver1.1 -m 'Primera subida actividad 1' 15417do
fatal: Failed to resolve '15417do' as a valid ref.
MBP-de-Javi:Despliegues bolonia$ git tag -a ver1.1 -m 'Primera subida actividad 1' 15417da
MBP-de-Javi:Despliegues bolonia$ git tag -a ver2.1 -m 'Actividad 2' 310952f
fatal: Failed to resolve '310952f' as a valid ref.
MBP-de-Javi:Despliegues bolonia$ git tag -a ver2.1 -m 'Actividad 2' 3f0952f
MBP-de-Javi:Despliegues bolonia$ git tag -a ver3.1 -m 'Actividad 3' 6581c25
MBP-de-Javi:Despliegues bolonia$
```

Subimos de nuevo

```
MBP-de-Javi:Despliegues bolonia$ git push --tags
warning: unable to access '/Users/bolonia/.config/git/attributes': Permission denied
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 477 bytes | 477.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/JaviGlez/Despliegues.git
 * [new tag]      ver1.1 -> ver1.1
 * [new tag]      ver2.1 -> ver2.1
 * [new tag]      ver3.1 -> ver3.1
MBP-de-Javi:Despliegues bolonia$
```

Y ahora vemos el listado de todas nuestras etiquetas

```
MBP-de-Javi:Despliegues bolonia$ git tag
ver1.1
ver1.3
ver2.1
ver2.3
ver3.1
ver3.3
MBP-de-Javi:Despliegues bolonia$
```

Podemos ver las etiquetas en las diferentes versiones

```
MBP-de-Javi:Despliegues bolonia$ git log --oneline --graph --decorate
* 3b68231 (HEAD -> main, tag: ver3.3, origin/main, origin/HEAD) Ultima actualizacion Actividad 3
* 6581c25 (tag: ver3.1) Actividad 3
* d53e104 (tag: ver2.3) Ultima actualizacion Actividad 2
* 3f0952f (tag: ver2.1) Actividad 2
* c8436da (tag: ver1.3) Ultima actualizacion actividad 1
* 15417da (tag: ver1.1) Primera subida actividad 1
MBP-de-Javi:Despliegues bolonia$
```

Vamos a realizar una rama que contenga la ultima actualización sin ningún commit histórico, para ello vamos a crear la rama donde queremos llevar nuestro commits

```
MBP-de-Javi:Despliegues bolonia$ git checkout --orphan lastupdate
warning: unable to access '/Users/bolonia/.config/git/attributes': Permission denied
Switched to a new branch 'lastupdate'
MBP-de-Javi:Despliegues bolonia$
```

Vamos a crear un commit para insertar contenido

```
MBP-de-Javi:Despliegues bolonia$ echo "Initial Commit" > test.md && git add test.md && git commit -m "Initial Commit"
warning: unable to access '/Users/bolonia/.config/git/attributes': Permission denied
warning: unable to access '/Users/bolonia/.config/git/attributes': Permission denied
[Lastupdate (root-commit) 5bec4b7] Initial Commit
Committer: Javi González <bolonia@MBP-de-Javi.home>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

git config --global --edit

After doing this, you may fix the identity used for this commit with:

git commit --amend --reset-author
warning: unable to access '/Users/bolonia/.config/git/attributes': Permission denied
7 files changed, 1 insertion(+)
create mode 100644 Actividad 1/Actividad Nº 1 Javi Glez.doc
create mode 100644 Actividad 1/Actividad Nº 1 Javi Glez.pdf
create mode 100644 Actividad 2/Actividad 2 Javi Glez.doc
create mode 100644 Actividad 2/Actividad 2 Javi Glez.pdf
create mode 100644 Actividad 3/Actividad Nº 3 Javi Glez.docx
create mode 100644 Actividad 3/Actividad Nº 3 Javi Glez.pdf
create mode 100644 test.md
MBP-de-Javi:Despliegues bolonia$
```

Comprobamos en qué rama nos encontramos

```
MBP-de-Javi:Despliegues bolonia$ git branch
* lastupdate
  main
MBP-de-Javi:Despliegues bolonia$
```

Introduzco git log para ver la lista de nuestro commits, con sus códigos SHA

```
|MBP-de-Javi:Despliegues bolonia$ git log
commit 3b68231bbf3bc5e714cedc2add9c3f87f4ca4a52 (HEAD -> main, origin/main, origin/HEAD)
Author: JaviGlez <45563715+JaviGlez@users.noreply.github.com>
Date:   Fri Mar 5 10:10:25 2021 +0100

    Ultima actualizacion Actividad 3

commit d581c2553287bea07089460a6b6fbde64c306779
Author: JaviGlez <45563715+JaviGlez@users.noreply.github.com>
Date:   Fri Mar 5 10:09:06 2021 +0100

    Actividad 3

commit d53e10453bb42a74509fcdf3d97e32d821104b2
Author: JaviGlez <45563715+JaviGlez@users.noreply.github.com>
Date:   Fri Mar 5 10:07:43 2021 +0100

    Ultima actualizacion Actividad 2

commit 3f0952f7a35d0db93884b655650a25a619e19a4e
Author: JaviGlez <45563715+JaviGlez@users.noreply.github.com>
Date:   Fri Mar 5 10:05:15 2021 +0100

    Actividad 2

commit c8436da99e11f7c3c54fef52124bad93376a6d84
Author: JaviGlez <45563715+JaviGlez@users.noreply.github.com>
Date:   Fri Mar 5 10:03:02 2021 +0100

    Ultima actualizacion actividad 1

commit 15417dad105b9f3683f13dd316f4143d0f647d9f
Author: JaviGlez <45563715+JaviGlez@users.noreply.github.com>
Date:   Fri Mar 5 10:00:05 2021 +0100
```

Copiamos el código SHA del commit que queremos mover a nuestra rama.

3b68231bbf3bc5e714cedc2add9c3f87f4ca4a52 – Ultima actualización Actividad 3

d53e10453bb42a74509fcdf3d97e32d821104b2 – Ultima actualización Actividad 2

c8436da99e11f7c3c54fef52124bad93376a6d84 – Ultima actualización Actividad 1

Y vamos a regresar a la rama lastupdate que es donde queremos poner los commits

```
|MBP-de-Javi:Despliegues bolonia$ git checkout lastupdate
Already on 'lastupdate'
MBP-de-Javi:Despliegues bolonia$
```

Vamos a usar el cherry-pick seguido del SHA

Actividad Nº 1

```
|MBP-de-Javi:Despliegues bolonia$ git cherry-pick c8436da99e11f7c3c54fef52124bad93376a6d84
On branch lastupdate
You are currently cherry-picking commit c8436da.

nothing to commit, working tree clean
The previous cherry-pick is now empty, possibly due to conflict resolution.
If you wish to commit it anyway, use:

  git commit --allow-empty

Otherwise, please use 'git reset'
MBP-de-Javi:Despliegues bolonia$
```

Actividad Nº 2

```
MBP-de-Javi:Desplieges bolonia$ git cherry-pick d53e10453bb42a74509fcdf3d97e32d821104b2
On branch lastupdate
You are currently cherry-picking commit d53e104.

nothing to commit, working tree clean
The previous cherry-pick is now empty, possibly due to conflict resolution.
If you wish to commit it anyway, use:

    git commit --allow-empty

Otherwise, please use 'git reset'
MBP-de-Javi:Desplieges bolonia$
```

Actividad Nº 3

```
MBP-de-Javi:Desplieges bolonia$ git cherry-pick 3b68231bbf3bc5e714cedc2add9c3f87f4ca4a52
On branch lastupdate
You are currently cherry-picking commit 3b68231.

nothing to commit, working tree clean
The previous cherry-pick is now empty, possibly due to conflict resolution.
If you wish to commit it anyway, use:

    git commit --allow-empty

Otherwise, please use 'git reset'
MBP-de-Javi:Desplieges bolonia$
```

Agregamos los cambios

```
[MBP-de-Javi:Desplieges bolonia$ git add -A
MBP-de-Javi:Desplieges bolonia$ ]
```

Subimos al repositorio remoto

```
MBP-de-Javi:Desplieges bolonia$ git push --set-upstream origin lastupdate
warning: unable to access '/Users/bolonia/.config/git/attributes': Permission denied
Counting objects: 12, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (11/11), done.
Writing objects: 100% (12/12), 17.93 MiB | 9.51 MiB/s, done.
Total 12 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), done.
remote:
remote: Create a pull request for 'lastupdate' on GitHub by visiting:
remote:     https://github.com/JaviGzlez/Desplieges/pull/new/lastupdate
remote:
To https://github.com/JaviGzlez/Desplieges.git
 * [new branch]      lastupdate -> lastupdate
Branch 'lastupdate' set up to track remote branch 'lastupdate' from 'origin'.
MBP-de-Javi:Desplieges bolonia$ ]
```

Y comprobamos que efectivamente nos ha subido los 3 commits de la ultima versión

The screenshot shows a GitHub repository interface. At the top, it says 'lastupdate had recent pushes 4 minutes ago' and has a 'Compare & pull request' button. Below that, there are buttons for 'main' (selected), '2 branches', '6 tags', 'Go to file', 'Add file', and 'Code'. The main area shows a list of commits from 'JaviGzlez' with the message 'Ultima actualizacion Actividad 3'. Each commit is dated 'yesterday' and shows changes to files named 'Actividad 1', 'Actividad 2', and 'Actividad 3'. A note at the bottom encourages adding a README, with a 'Add a README' button.

El siguiente paso que vamos a realizar es otra rama, de las primeras versiones, por lo que vamos a crear otra rama huérfana con firstupdate y creamos los commit que encontramos en el git log con primeras versiones.

15417dad105b9f3683f13dd316f4143d0f647d9f – Primera subida Actividad N° 1

3f0952f7a35d0db93884b655650a25a619e19a4e – Segunda subida Actividad N° 2

6581c2553287bea07089460a6b6fbde64c306779 – Tercera subida Actividad N° 3

Ahora procedemos a repetir los pasos anteriores

```
MBP-de-Javi:Despliegues bolonia$ git checkout --orphan firstupdate
Switched to a new branch 'firstupdate'
MBP-de-Javi:Despliegues bolonia$ echo "Initial Commit" > test.md && git add test.md && git commit -m "Initial Commit"
warning: unable to access '/Users/bolonia/.config/git/attributes': Permission denied
warning: unable to access '/Users/bolonia/.config/git/attributes': Permission denied
[firstupdate (root-commit) ede386b] Initial Commit
MBP-de-Javi:Despliegues bolonia$ git cherry-pick 15417dad105b9f3683f13dd316f4143d0f647d9f
warning: unable to access '/Users/bolonia/.config/git/attributes': Permission denied
warning: unable to access '/Users/bolonia/.config/git/attributes': Permission denied
On branch firstupdate
You are currently cherry-picking commit 15417da.

nothing to commit, working tree clean
The previous cherry-pick is now empty, possibly due to conflict resolution.
If you wish to commit it anyway, use:

    git commit --allow-empty

Otherwise, please use 'git reset'.
MBP-de-Javi:Despliegues bolonia$ git cherry-pick 3f0952f7a35d0db93884b655650a25a619e19a4e
On branch firstupdate
You are currently cherry-picking commit 3f0952f.

nothing to commit, working tree clean
The previous cherry-pick is now empty, possibly due to conflict resolution.
If you wish to commit it anyway, use:

    git commit --allow-empty

Otherwise, please use 'git reset'.
MBP-de-Javi:Despliegues bolonia$ git cherry-pick 6581c2553287bea07089460a6b6fbde64c306779
On branch firstupdate
You are currently cherry-picking commit 6581c25.

nothing to commit, working tree clean
The previous cherry-pick is now empty, possibly due to conflict resolution.
If you wish to commit it anyway, use:

    git commit --allow-empty

Otherwise, please use 'git reset'.
MBP-de-Javi:Despliegues bolonia$
```

Vemos la historia de commits

```
MBP-de-Javi:Desplieges bolonia$ git log --oneline --graph --decorate
* 3b68231 (HEAD -> main, tag: ver3.3, origin/main, origin/HEAD) Ultima actualizacion Actividad 3
* 6581c25 (tag: ver3.1) Actividad 3
* d53e104 (tag: ver2.3) Ultima actualizacion Actividad 2
* 3f0952f (tag: ver2.1) Actividad 2
* c8436da (tag: ver1.3) Ultima actualizacion actividad 1
* 15417da (tag: ver1.1) Primera subida actividad 1
MBP-de-Javi:Desplieges bolonia$ git checkout --orphan lastupdate
warning: unable to access '/Users/bolonia/.config/git/attributes': Permission denied
Switched to a new branch 'lastupdate'
MBP-de-Javi:Desplieges bolonia$ echo "Initial Commit" > test.md && git add test.md && git commit -m "Initial Commit"
warning: unable to access '/Users/bolonia/.config/git/attributes': Permission denied
warning: unable to access '/Users/bolonia/.config/git/attributes': Permission denied
[ lastupdate (root-commit) 5bec4b7] Initial Commit
Committer: Javi González <bolonia@MBP-de-Javi.home>
```

Vamos a meter estos commits en un fichero README.MD

The screenshot shows a GitHub repository interface. At the top, there's a commit history table:

Author	Commit Message	Date
JaviGzlez	Update README.md	f32e68d 1 minute ago
	Actividad 1	yesterday
	Actividad 2	yesterday
	Actividad 3	yesterday
	README.md	1 minute ago

Below the table is a code editor window containing the README.md file:

```
README.md

• 3b68231 (HEAD -> main, tag: ver3.3, origin/main, origin/HEAD) Ultima actualizacion Actividad 3
• 6581c25 (tag: ver3.1) Actividad 3
• d53e104 (tag: ver2.3) Ultima actualizacion Actividad 2
• 3f0952f (tag: ver2.1) Actividad 2
• c8436da (tag: ver1.3) Ultima actualizacion Actividad 1
• 15417da (tag: ver1.1) Primera subida actividad 1
```

Descargamos nuestro repositorio local

```
MBP-de-Javi:Desplieges bolonia$ git pull
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/JaviGzlez/Desplieges
 3b68231..745d3dd main      -> origin/main
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.

git pull <remote> <branch>

If you wish to set tracking information for this branch you can do so with:

  git branch --set-upstream-to=origin/<branch> firstupdate

MBP-de-Javi:Desplieges bolonia$
```

