Fundamentos de GIT I

Versión:

```
C:\Users\Aspire5>git --version
git version 2.42.0.windows.2
```

Configuración de GIT:

```
C:\Users\Aspire5>git config --global user.name Alberto Meseguer
C:\Users\Aspire5>git config --global user.email albmesrod@alu.edu.gva.es
C:\Users\Aspire5>git config --global core.editor "'C:/Program Files/Notepad++/notepad++.exe' -multiInst -notabbar -noses
sion -noPlugin"
```

Creo carpeta, entro y ejecuto "git init" (no se muestra)

```
C:\Users\Aspire5\gitcurso\S1R1>git status
On branch main
No commits yet
Untracked files:
   (use "git add <file>..." to include in what will be committed)
        libros.txt
nothing added to commit but untracked files present (use "git add" to track)
C:\Users\Aspire5\gitcurso\S1R1>
```

Hacemos el add, luego primer commit, modificamos el archivo con el Notepad y hacemos un segundo commit (hasta el paso e)

```
C:\Users\Aspire5\gitcurso\S1R1>git add libros.txt
C:\Users\Aspire5\gitcurso\S1R1>git commit -m "v1"
[main (root-commit) b0672c1] v1
  1 file changed, 3 insertions(+)
create mode 100644 libros.txt
C:\Users\Aspire5\gitcurso\S1R1>git status
On branch main
nothing to commit, working tree clean
C:\Users\Aspire5\gitcurso\S1R1>git status
On branch main
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
no changes added to commit (use "git add" and/or "git commit -a")
C:\Users\Aspire5\gitcurso\S1R1>git add .
C:\Users\Aspire5\gitcurso\S1R1>git commit -m "v2"
[main 32d78f8] v2
1 file changed, 3 insertions(+), 1 deletion(-)
```

Símbolo del sistema [main 32d78f8] v2 1 file changed, 3 insertions(+), 1 deletion(-) C:\Users\Aspire5\gitcurso\S1R1>git log commit 32d78f87ba65fc3b6e7fa79df79e4269c9558b1d (HEAD -> main) Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es> Date: Tue Oct 3 13:45:16 2023 +0200 v2 commit b0672c1d2e5be3cdf4fc3ee29a2ae0732d4f8718 Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es> Date: Tue Oct 3 13:42:42 2023 +0200 v1 C:\Users\Aspire5\gitcurso\S1R1>git show b0672c1d2e5be3cdf4fc3ee29a2ae0732d4f8718 mit b0672c1d2e5be3cdf4fc3ee29a2ae0732d4f8718 Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es> Date: Tue Oct 3 13:42:42 2023 +0200 v1 diff --git a/libros.txt b/libros.txt new file mode 100644 index 0000000..a7ef5ee --- /dev/null +++ b/libros.txt @@ -0,0 +1,3 @@ +Los Asquerosos \ No newline at end of file

```
C:\Users\Aspire5\gitcurso\S1R1>git status
On branch main
Untracked files:
 (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
C:\Users\Aspire5\gitcurso\S1R1>git commit -m "añado peliculas y comidas"
On branch main
Untracked files:
 (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
C:\Users\Aspire5\gitcurso\S1R1>git add .
C:\Users\Aspire5\gitcurso\S1R1>git commit -m "añado peliculas y comidas"
[main baf0782] añado peliculas y comidas
2 files changed, 6 insertions(+)
create mode 100644 comidas.txt
create mode 100644 peliculas.txt
C:\Users\Aspire5\gitcurso\S1R1>git status
On branch main
Changes not staged for commit:
 (use "git add/rm <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
```

Paso m a ñ:

Paso o a q:

Paso rat:

```
C:\Users\Aspire5\gitcurso\S1R1>git status
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
C:\Users\Aspire5\gitcurso\S1R1>git commit -m "v4"
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
C:\Users\Aspire5\gitcurso\S1R1>git add .
C:\Users\Aspire5\gitcurso\S1R1>git commit -m "v4"
[main ac70348] v4
1 file changed, 2 insertions(+)
 create mode 100644 .gitignore
C:\Users\Aspire5\gitcurso\S1R1>
```

Contenido del .gitignore

```
*.bak
cutput/
```

Paso u: Histórico de cambios del repositorio (git log –graph):

```
:\Users\Aspire5\gitcurso\S1R1>git log --graph
commit ac7034838e69ae6a2f80288cbc21d9b8fa05d9cb (HEAD -> main)
Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
        Tue Oct 3 14:07:44 2023 +0200
Date:
    v4
 commit 02c4d96a3b25f5b2a4479e1f57f5d6d1045d7ab2
Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
        Tue Oct 3 13:58:59 2023 +0200
    v3
 commit baf0782f056c1c19fe91973e87727342be54b022
Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
        Tue Oct 3 13:52:56 2023 +0200
    añado peliculas y comidas
 commit 32d78f87ba65fc3b6e7fa79df79e4269c9558b1d
 Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
Date: Tue Oct 3 13:45:16 2023 +0200
    v2
 commit b0672c1d2e5be3cdf4fc3ee29a2ae0732d4f8718
Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
        Tue Oct 3 13:42:42 2023 +0200
    v1
:\Users\Aspire5\gitcurso\S1R1>
```

Fundamentos de GIT II

Git Branch test

Git checkout test

```
C:\Users\Aspire5\gitcurso>cd s2r1
C:\Users\Aspire5\gitcurso\S2R1>git init
Initialized empty Git repository in C:/Users/Aspire5/gitcurso/S2R1/.git/
C:\Users\Aspire5\gitcurso\S2R1>git add .
C:\Users\Aspire5\gitcurso\S2R1>git commit -m "v1"
[main (root-commit) 59f6c93] v1
1 file changed, 3 insertions(+)
create mode 100644 actores.txt
C:\Users\Aspire5\gitcurso\S2R1>
C:\Users\Aspire5\gitcurso\S2R1>git branch test
C:\Users\Aspire5\gitcurso\S2R1>git checkout test
Switched to branch 'test'
C:\Users\Aspire5\gitcurso\S2R1>git add .
C:\Users\Aspire5\gitcurso\S2R1>git commit -m "v2 con actrices en rama test"
[test 2013318] v2 con actrices en rama test
1 file changed, 3 insertions(+)
create mode 100644 actrices.txt
```

```
C:\Users\Aspire5\gitcurso\S2R1>git log --graph --all

* commit 2013318ea3b2586490c2b2bce88144622d85ac2b (HEAD -> test)
| Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
| Date: Wed Oct 4 09:42:20 2023 +0200

| v2 con actrices en rama test
| * commit 59f6c93d2e0cfdd4fb9480a047aebabce8ceb6c7 (main)
| Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
| Date: Tue Oct 3 16:29:14 2023 +0200
```

```
C:\Users\Aspire5\gitcurso\S2R1>git checkout main Switched to branch 'main'
C:\Users\Aspire5\gitcurso\S2R1>git merge test Updating 59f6c93..2013318
Fast-forward actrices.txt | 3 +++
C 1 file changed, 3 insertions(+) create mode 100644 actrices.txt
```

Paso j a n)

```
C:\Users\Aspire5\gitcurso\S2R1>git add .
C:\Users\Aspire5\gitcurso\S2R1>git commit -m "v4 añadida actriz en test2"
[test2 09e7e84] v4 añadida actriz en test2
1 file changed, 2 insertions(+), 1 deletion(-)
C:\Users\Aspire5\gitcurso\S2R1>git log --graph --all
 commit 09e7e84feac5605a1de2dc2b3eb2fa16a8b6c496 (HEAD -> test2)
  Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
  Date:
         Wed Oct 4 09:52:41 2023 +0200
     v4 añadida actriz en test2
  * commit 26f7684d3d7a520fed18344e6f18ec13f362bc4e (main)
   Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
           Wed Oct 4 09:49:33 2023 +0200
       v3 añadida actriz
  commit 2013318ea3b2586490c2b2bce88144622d85ac2b (test)
  Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
  Date:
         Wed Oct 4 09:42:20 2023 +0200
     v2 con actrices en rama test
 commit 59f6c93d2e0cfdd4fb9480a047aebabce8ceb6c7
  Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
  Date: Tue Oct 3 16:29:14 2023 +0200
     v1
```

```
C:\Users\Aspire5\gitcurso\S2R1>git checkout main
Switched to branch 'main'
C:\Users\Aspire5\gitcurso\S2R1>checkout merge test2
"checkout" no se reconoce como un comando interno o externo,
programa o archivo por lotes ejecutable.
C:\Users\Aspire5\gitcurso\S2R1>git merge test2
Auto-merging actrices.txt
CONFLICT (content): Merge conflict in actrices.txt
Automatic merge failed; fix conflicts and then commit the result.
C:\Users\Aspire5\gitcurso\S2R1>git status
On branch main
You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)
Unmerged paths:
  (use "git add <file>..." to mark resolution)
no changes added to commit (use "git add" and/or "git commit -a")
```

Hacemos add y commit en un mismo comando commit -a

```
C:\Users\Aspire5\gitcurso\S2R1>git branch
* main
  test
  test2
C:\Users\Aspire5\gitcurso\S2R1>git commit -a -m "v5 corregido conflicto"
[main c6a4069] v5 corregido conflicto
C:\Users\Aspire5\gitcurso\S2R1>git status
On branch main
nothing to commit, working tree clean
C:\Users\Aspire5\gitcurso\S2R1>git log --graph --all
    commit c6a4069a0afbc5682432aad3ad1cf9eeeffd4303 (HEAD -> main)
   Merge: 26f7684 09e7e84
   Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
   Date: Wed Oct 4 10:22:22 2023 +0200
       v5 corregido conflicto
  * commit 09e7e84feac5605a1de2dc2b3eb2fa16a8b6c496 (test2)
    Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
    Date: Wed Oct 4 09:52:41 2023 +0200
       v4 añadida actriz en test2
   commit 26f7684d3d7a520fed18344e6f18ec13f362bc4e
    Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
          Wed Oct 4 09:49:33 2023 +0200
    Date:
       v3 añadida actriz
  commit 2013318ea3b2586490c2b2bce88144622d85ac2b (test)
  Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
  Date:
         Wed Oct 4 09:42:20 2023 +0200
     v2 con actrices en rama test
  commit 59f6c93d2e0cfdd4fb9480a047aebabce8ceb6c7
  Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
  Date: Tue Oct 3 16:29:14 2023 +0200
     v1
```

Como la rama test2 ha quedado por detrás, hacemos merge con main, ahora no hay conflicto. En la siguiente captura, vemos que las dos ramas apuntan al mismo lugar.

```
C:\Users\Aspire5\gitcurso\S2R1>git checkout test2
Switched to branch 'test2'
C:\Users\Aspire5\gitcurso\S2R1>git merge master
merge: master - not something we can merge
C:\Users\Aspire5\gitcurso\S2R1>git merge main
Updating 09e7e84..c6a4069
Fast-forward
 actrices.txt | 3 ++-
 1 file changed, 2 insertions(+), 1 deletion(-)
C:\Users\Aspire5\gitcurso\S2R1>git log --graph --all
    commit c6a4069a0afbc5682432aad3ad1cf9eeeffd4303 (HEAD -> test2, main)
    Merge: 26f7684 09e7e84
   Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
           Wed Oct 4 10:22:22 2023 +0200
    Date:
        v5 corregido conflicto
   commit 09e7e84feac5605a1de2dc2b3eb2fa16a8b6c496
    Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
           Wed Oct 4 09:52:41 2023 +0200
        v4 añadida actriz en test2
    commit 26f7684d3d7a520fed18344e6f18ec13f362bc4e
    Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
    Date:
           Wed Oct 4 09:49:33 2023 +0200
        v3 añadida actriz
  commit 2013318ea3b2586490c2b2bce88144622d85ac2b (test)
  Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
  Date: Wed Oct 4 09:42:20 2023 +0200
      v2 con actrices en rama test
  commit 59f6c93d2e0cfdd4fb9480a047aebabce8ceb6c7
  Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
  Date:
         Tue Oct 3 16:29:14 2023 +0200
      v1
```

2. S2R2-remoto

```
C:\Users\Aspire5\gitcurso\S2R2-remoto>git init --bare
Initialized empty Git repository in C:/Users/Aspire5/gitcurso/S2R2-remoto/
```

```
C:\Users\Aspire5\gitcurso>git clone S2R2-remoto S2R2
Cloning into 'S2R2'...
warning: You appear to have cloned an empty repository.
done.
```

3. a, b, c

```
C:\Users\Aspire5\gitcurso\S2R2>git log
commit 619b4fa7778114dab065b0102a5e7112541ab48e (HEAD -> main)
Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
       Wed Oct 4 11:04:24 2023 +0200
Date:
    tres directores
C:\Users\Aspire5\gitcurso\S2R2>git remote
origin
C:\Users\Aspire5\gitcurso\S2R2>git remote -v
origin C:/Users/Aspire5/gitcurso/S2R2-remoto (fetch)
origin C:/Users/Aspire5/gitcurso/S2R2-remoto (push)
C:\Users\Aspire5\gitcurso\S2R2>git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 268 bytes | 53.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To C:/Users/Aspire5/gitcurso/S2R2-remoto
                 main -> main
 * [new branch]
C:\Users\Aspire5\gitcurso\S2R2>git log
commit 619b4fa7778114dab065b0102a5e7112541ab48e (HEAD -> main, origin/main)
Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
Date:
       Wed Oct 4 11:04:24 2023 +0200
    tres directores
```

```
C:\Users\Aspire5\gitcurso\S2R2>
C:\Users\Aspire5\gitcurso\S2R2>git branch version1
C:\Users\Aspire5\gitcurso\S2R2>git checkout version1
Switched to branch 'version1'
C:\Users\Aspire5\gitcurso\S2R2>git add .
C:\Users\Aspire5\gitcurso\S2R2>git commit -m "v2 añado 2 directores más"
[version1 f5d9ed0] v2 añado 2 directores más
 1 file changed, 3 insertions(+), 1 deletion(-)
C:\Users\Aspire5\gitcurso\S2R2>git log
commit f5d9ed079e19b2dd2783caa5e3084b631c27af82 (HEAD -> version1)
Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
Date:
       Wed Oct 4 11:09:15 2023 +0200
    v2 añado 2 directores más
commit 619b4fa7778114dab065b0102a5e7112541ab48e (origin/main, main)
Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
Date:
        Wed Oct 4 11:04:24 2023 +0200
    tres directores
C:\Users\Aspire5\gitcurso\S2R2>
C:\Users\Aspire5\gitcurso\S2R2>git push origin version1
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 338 bytes | 84.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To C:/Users/Aspire5/gitcurso/S2R2-remoto
 * [new branch] version1 -> version1
```

```
C:\Users\Aspire5\gitcurso>git clone S2R2-remoto S2R3
Cloning into 'S2R3'...
done.

C:\Users\Aspire5\gitcurso>cd s2r3

C:\Users\Aspire5\gitcurso\S2R3>type directores.txt
almodovar
nolan
spielberg
C:\Users\Aspire5\gitcurso\S2R3>git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
```

4b,c

```
C:\Users\Aspire5\gitcurso\S2R3>git checkout version1
Switched to a new branch 'version1'
branch 'version1' set up to track 'origin/version1'.

C:\Users\Aspire5\gitcurso\S2R3>git branch
    main
* version1

C:\Users\Aspire5\gitcurso\S2R3>type directores.txt
almodovar
nolan
spielberg
eloy de la iglesa
george lucas
```

```
C:\Users\Aspire5\gitcurso\S2R3>git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

C:\Users\Aspire5\gitcurso\S2R3>git merge version1
Updating 619b4fa..f5d9ed0
Fast-forward
    directores.txt | 4 +++-
    1 file changed, 3 insertions(+), 1 deletion(-)

C:\Users\Aspire5\gitcurso\S2R3>git push
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To C:\Users\Aspire5/gitcurso\S2R2-remoto
    619b4fa..f5d9ed0 main -> main
```

5.a

Usamos FETCH

```
C:\Users\Aspire5\gitcurso\S2R2>git fetch origin
From C:/Users/Aspire5/gitcurso/S2R2-remoto
619b4fa..f5d9ed0 main -> origin/main
```

5b

Cambiamos a rama master local. Usamos MERGE

```
C:\Users\Aspire5\gitcurso\S2R2>git branch
    main
* version1

C:\Users\Aspire5\gitcurso\S2R2>git checkout master
error: pathspec 'master' did not match any file(s) known to git

C:\Users\Aspire5\gitcurso\S2R2>git checkout main
Switched to branch 'main'
Your branch is behind 'origin/main' by 1 commit, and can be fast-forwarded.
    (use "git pull" to update your local branch)
```

```
C:\Users\Aspire5\gitcurso\S2R2>type directores.txt
almodovar
nolan
spielberg
C:\Users\Aspire5\gitcurso\S2R2>git merge origin/main
Updating 619b4fa..f5d9ed0
Fast-forward
    directores.txt | 4 +++-
    1 file changed, 3 insertions(+), 1 deletion(-)

C:\Users\Aspire5\gitcurso\S2R2>type directores.txt
almodovar
nolan
spielberg
eloy de la iglesa
george lucas
```

```
C:\Users\Aspire5\gitcurso\S2R2>git log --graph --all

* commit f5d9ed079e19b2dd2783caa5e3084b631c27af82 (HEAD -> main, origin/version1, origin/main, version1)

| Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
| Date: Wed Oct 4 11:09:15 2023 +0200

| v2 añado 2 directores más

* commit 619b4fa7778114dab065b0102a5e7112541ab48e
| Author: Alberto Meseguer Rodríguez <albmesrod@alu.edu.gva.es>
| Date: Wed Oct 4 11:04:24 2023 +0200

| tres directores
```

```
C:\Users\Aspire5\gitcurso\S2R2>git status
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean
```

4. GITHUB

Hago un fork a mi cuenta de GITHUB AMR-2223

Añado mi nombre en el README.md desde Github

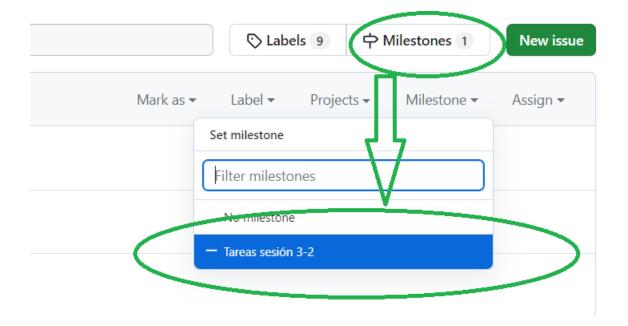
Clono mi repositorio remoto en local:

```
C:\Users\Aspire5\gitcurso>git clone https://github.com/AMR-2223/sesion3-practica.git
Cloning into 'sesion3-practica'...
remote: Enumerating objects: 13, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 13 (delta 0), reused 0 (delta 0), pack-reused 10
Receiving objects: 100% (13/13), done.
```

Creo 3 issues en Github:

AMR-22	23 /	sesion3-p	oractica					
Issue	s 3	Il Pu	ıll requests	Actions		□ Wiki	① Security	Ŀ
	Filters ▼ Q is:issue is:open							
	□ ⊙ 3 Open ✓ 0 Closed							
	☐							
			dir 3 discos pened 1 hour ag	go by AMR-2223				
			dir 3 libros pened 1 hour a	go by AMR-2223				

Asociamos las 3 issues al Milestone creado:

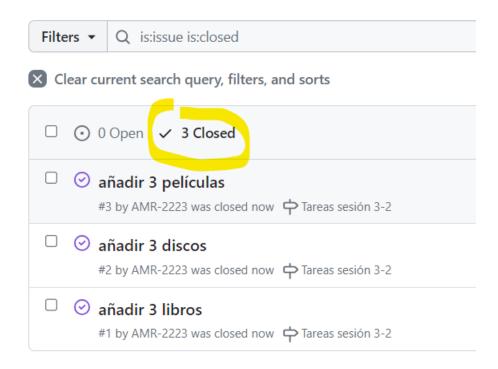


Modificamos los archivos en local y realizo commits:

```
C:\Users\Aspire5\gitcurso\sesion3-practica>git commit -m "actualizo discos Close #2"
[master 9a84f79] actualizo discos Close #2
1 file changed, 3 insertions(+), 3 deletions(-)
```

```
C:\Users\Aspire5\gitcurso\sesion3-practica>git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
no changes added to commit (use "git add" and/or "git commit -a")
C:\Users\Aspire5\gitcurso\sesion3-practica>git add .
C:\Users\Aspire5\gitcurso\sesion3-practica>git commit -m "modifico libros y peliculas. closes #1, closes #3"
 [master 13fd831] modifico libros y peliculas. closes #1, closes #3
 2 files changed, 8 insertions(+), 7 deletions(-)
C:\Users\Aspire5\gitcurso\sesion3-practica>git push
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 8 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (7/7), 816 bytes | 816.00 KiB/s, done.
Total 7 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To https://github.com/AMR-2223/sesion3-practica.git
   7f00916..13fd831 master -> master
```

Tras "git push", en github se cierran las 3 issues:



ΩF

El Milestone queda 100% cerrado:

