

>>>

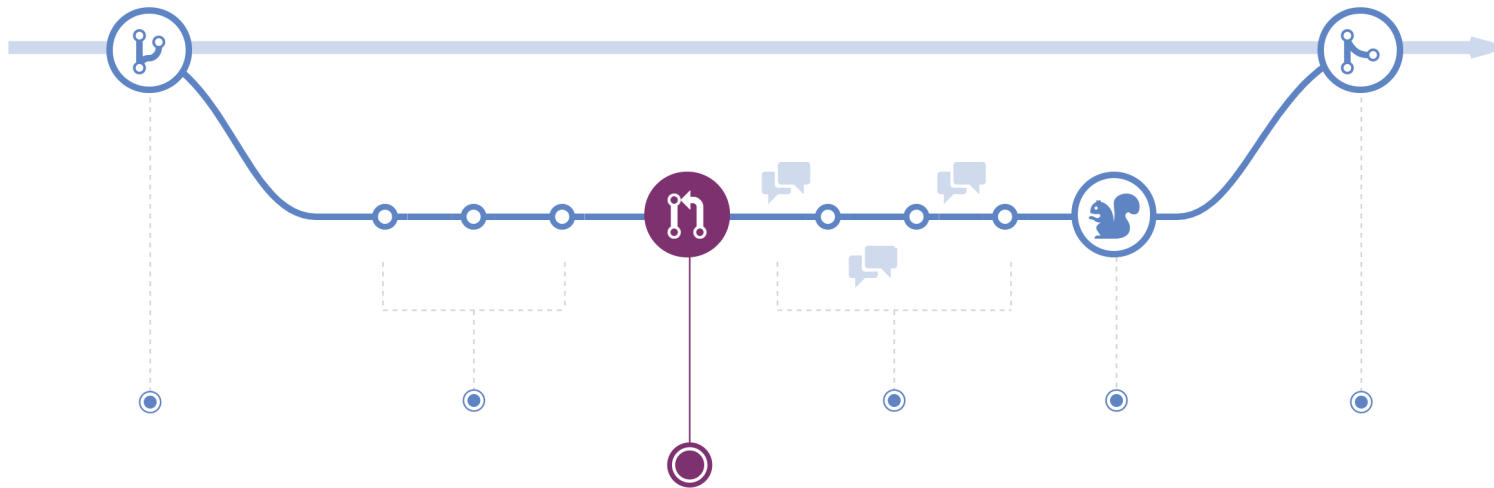
[https://twitter.com/mauro\\_lepore](https://twitter.com/mauro_lepore)

- Todo disponible en <http://bit.ly/FIXME>.
- Presentación en [FIXME](#).
- [Licencia CCO](#)

# Ayuda para solicitudes de fusión en GitHub

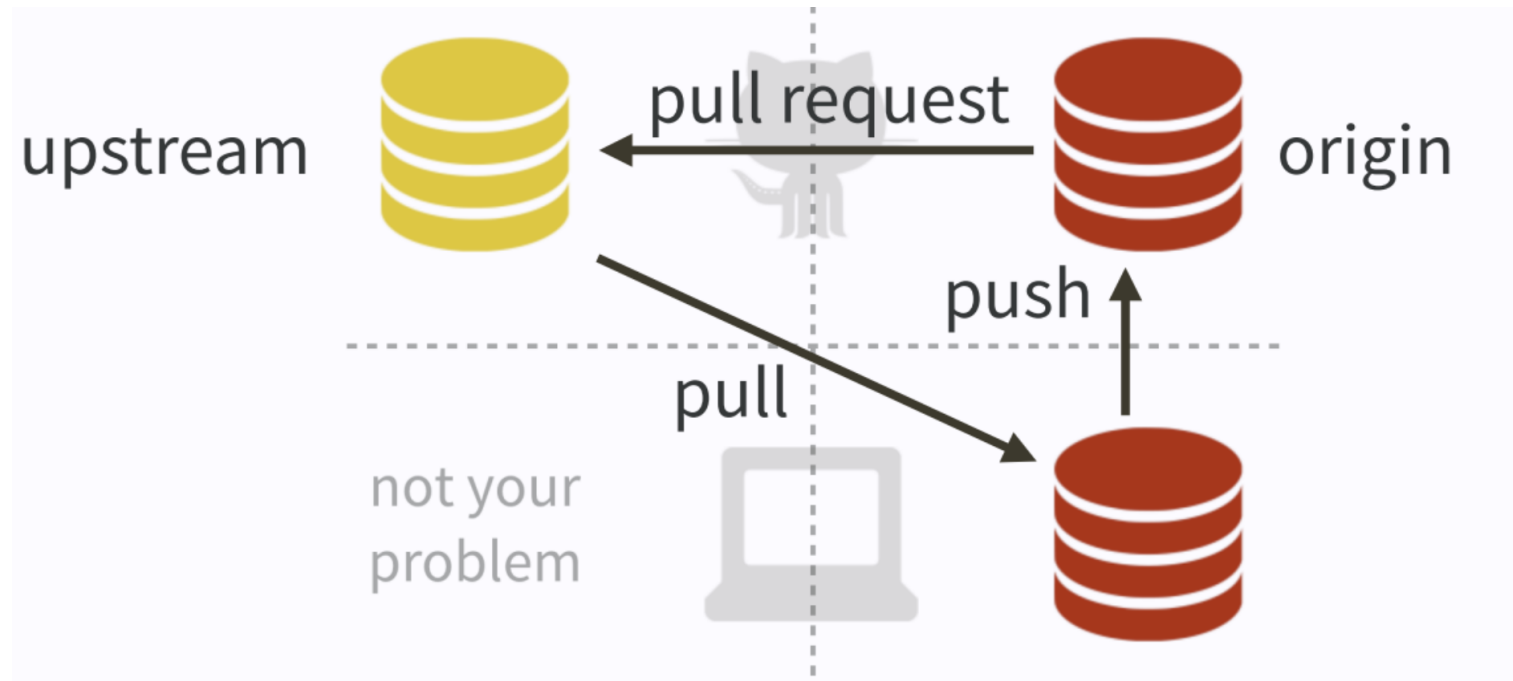
# Por que usar solicitudes de fusión?

Las solicitudes de fusión (PR: *pull requests*) son el componente central de las contribuciones al código abierto.



# Por que use this?

Las conexiones son complejas y es fácil equivocarse.



# Por que use this?

## Las ayudantes para solicitudes de fusión de GitHub:

- Automatizan lo automatizable.
- Implementan las mejores practicas.
- Evitan errores.

# Ejemplo

@forestgeoguest contribuye a an-org/abc:

- Bifurca y clona el repositorio.
- Hace cambios y somete una PR.
- Nota conflictos.
- Sincroniza, soluciona, y actualiza la PR.
- Nota que la PR fue aceptada.
- Finaliza la PR.

# create\_from\_github()

```
Console Terminal x Jobs x
~/
> library(usethis)
> create_from_github("an-org/abc")
Warning: `recursive` is deprecated, please use `recurse` instead
✓ Creating '/home/rstudio/abc/'
✓ Forking 'an-org/abc'
Which git protocol to use? (enter 0 to exit)

1: ssh    <-- presumes that you have set up ssh keys
2: https  <-- choose this if you don't have ssh keys (or don't know if you do)

Selection: 2
• Tip: To suppress this menu in future, put
  `options(usethis.protocol = "https")`
  in your script or in a user- or project-level startup file, '.Rprofile'.
  Call `usethis::edit_r_profile()` to open it for editing.
✓ Cloning repo from 'https://github.com/forestgeoguest/abc.git' into '/home/rstudio/abc'
✓ Setting active project to '/home/rstudio/abc'
✓ Adding 'upstream' remote: 'https://github.com/an-org/abc.git'
✓ Pulling changes from GitHub source repo 'upstream/master'
✓ Opening '/home/rstudio/abc/' in new RStudio session
✓ Setting active project to '<no active project>'
> |
```

...

■ ■ ■

# Bifurca (Fork) el repositorio fuente en GitHub.

# Luego:

```
git clone https://github.com/forestgeoguest/abc.git
```

```
cd abc
```

```
# forestgeoguest@LAPTOP ~/abc (master)
```

```
git remote add upstream https://github.com/an-org/abc.git
```

```
git pull upstream master
```

```
git branch --set-upstream-to=upstream/master
```

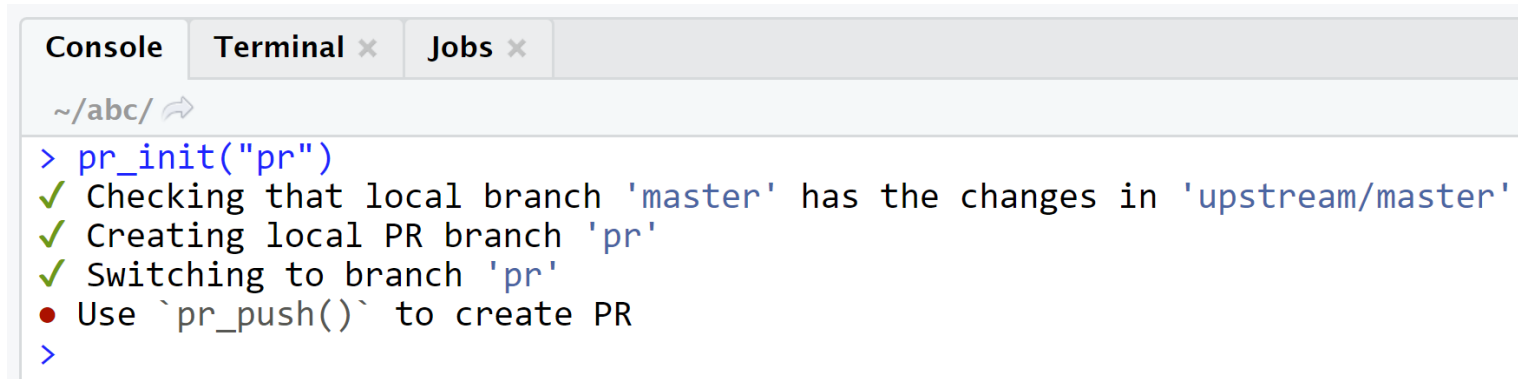


# git\_sitrep()

```
Console Terminal x Jobs x
~/abc/ ↗
> library(usethis)
> git_sitrep()
Git user
* Name: 'Demo user'
* Email: 'forestgeoguest@gmail.com'
* Vaccinated: FALSE
usethis + git2r
* Default usethis protocol: <unset>
* git2r supports SSH: TRUE
* Credentials: '<usethis + git2r default behaviour>'
GitHub
* Personal access token: '<found in env var>'
* User: 'forestgeoguest'
* Name: <unset>
Repo
* Path: '/home/rstudio/abc/.git'
* Local branch -> remote tracking branch: 'master' -> 'origin/master'
GitHub pull request readiness
* origin: forestgeoguest/abc, can push, forked from an-org/abc
* upstream: an-org/abc, read only
> |
```

```
# forestgeoguest@LAPTOP ~/abc (master)
git remote -v
```

# pr\_init("pr")

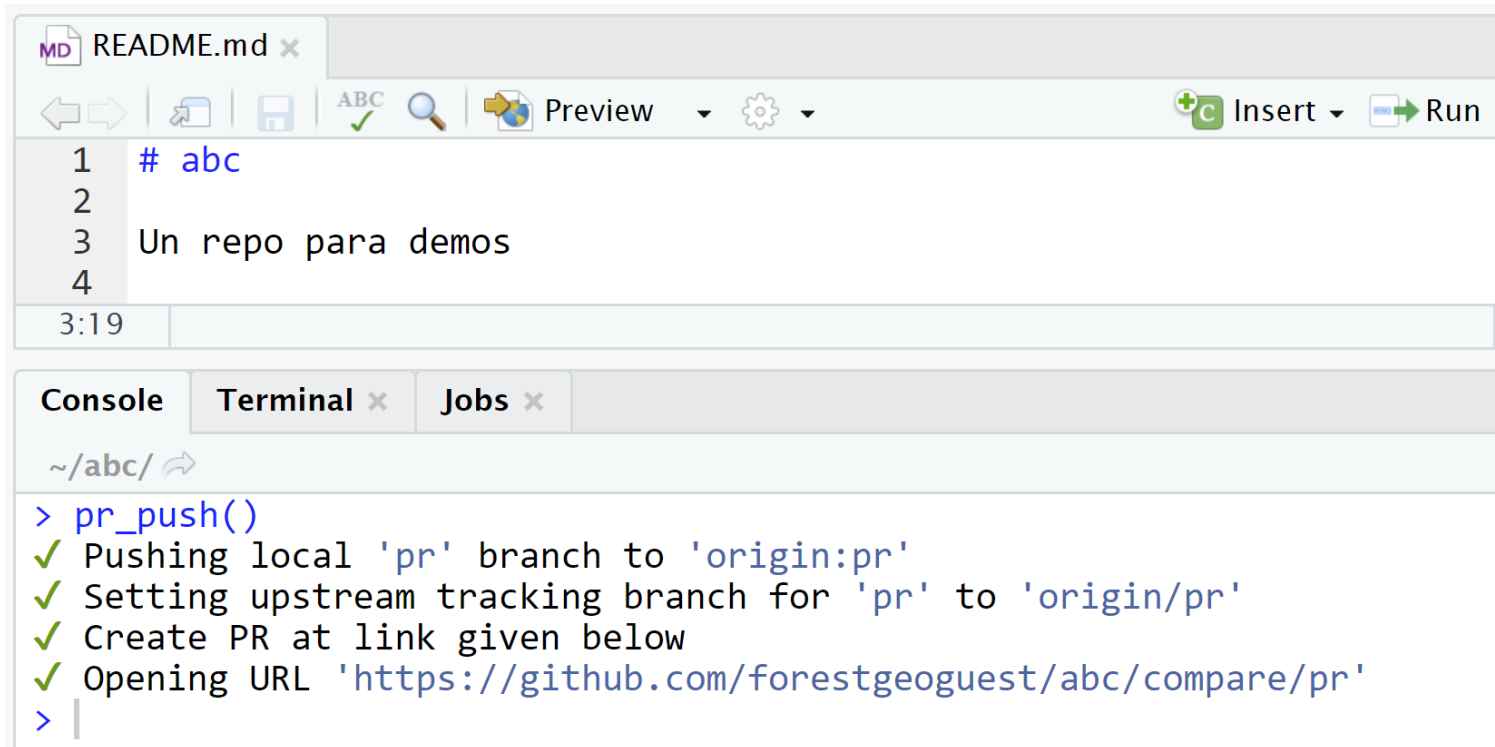


The screenshot shows a terminal window with three tabs: 'Console', 'Terminal x', and 'Jobs x'. The 'Console' tab is active, showing the prompt '~ /abc/ ↵'. Below the prompt, the command '> pr\_init("pr")' has been executed. The output consists of four lines: a green checkmark followed by 'Checking that local branch 'master' has the changes in 'upstream/master'', a green checkmark followed by 'Creating local PR branch 'pr'', a green checkmark followed by 'Switching to branch 'pr'', and a red dot followed by 'Use `pr\_push()` to create PR'. The prompt '>' is shown again on the final line.

```
~/abc/ ↵
> pr_init("pr")
✓ Checking that local branch 'master' has the changes in 'upstream/master'
✓ Creating local PR branch 'pr'
✓ Switching to branch 'pr'
● Use `pr_push()` to create PR
>
```

```
# forestgeoguest@LAPTOP ~/abc (master)
git pull upstream master
git branch pr
git checkout pr
```

# pr\_push()



The screenshot shows a code editor with a tab for 'README.md'. The editor contains the following text:


```
1 # abc
2
3 Un repo para demos
4
```

Below the editor is a terminal window with the following output:

```
> pr_push()
✓ Pushing local 'pr' branch to 'origin:pr'
✓ Setting upstream tracking branch for 'pr' to 'origin/pr'
✓ Create PR at link given below
✓ Opening URL 'https://github.com/forestgeoguest/abc/compare/pr'
> |
```

```
# forestgeoguest@LAPTOP ~/abc (pr)
git push origin
git branch --set-upstream-to=origin/pr
```

<https://github.com/forestgeoguest/abc/compare/pr>

 base repository: an-org/abc ▾


base: master ▾

←


head repository: forestgeoguest/abc ▾

compare: pr ▾


✓ **Able to merge.** These branches can be automatically merged.


 **Create pull request**


Discuss and review the changes in this comparison with others.


 an-org / abc


Watch ▾ 1


 Code


 Issues 0


 Pull requests 1

 Actions

 Projects 0

 Wiki

 Security


 Insights

Filters ▾

is:pr is:open

Labels 9

Milestones 0

 1 Open

✓ 8 Closed


Author ▾

Labels ▾

Projects ▾

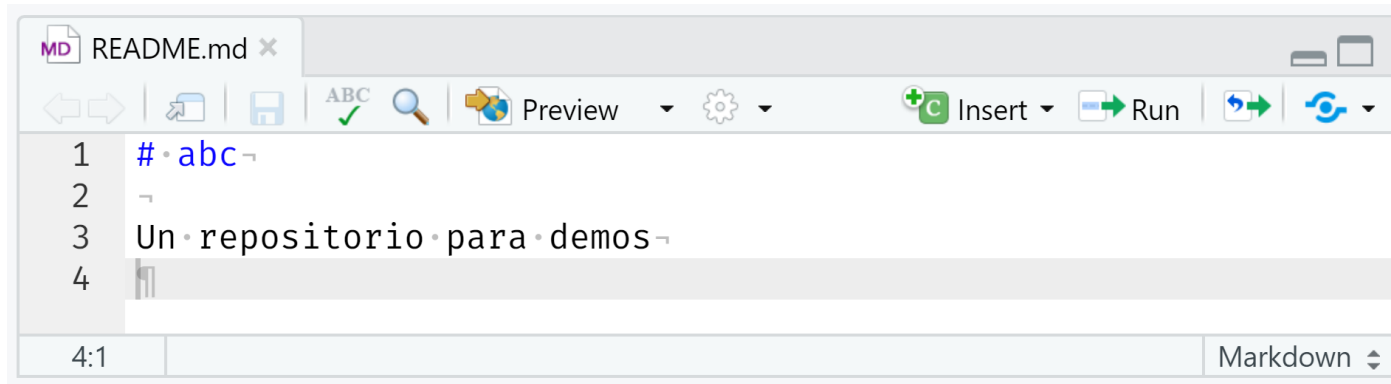
Milestones ▾

Reviews ▾

 **Edita README.md**

#9 opened 10 seconds ago by forestgeoguest

Pero antes de fusionar la PR, la administradora del repositorio agrega un cambio al repositorio fuente.



```
1 # abc
2 ,
3 Un repositorio para demos
4 .
```

Y ese cambio entra en conflicto con la PR.

 **Edita README.md #9**  
forestgeoguest wants to merge 1 commit into `an-org:master` from `forestgeoguest:pr`

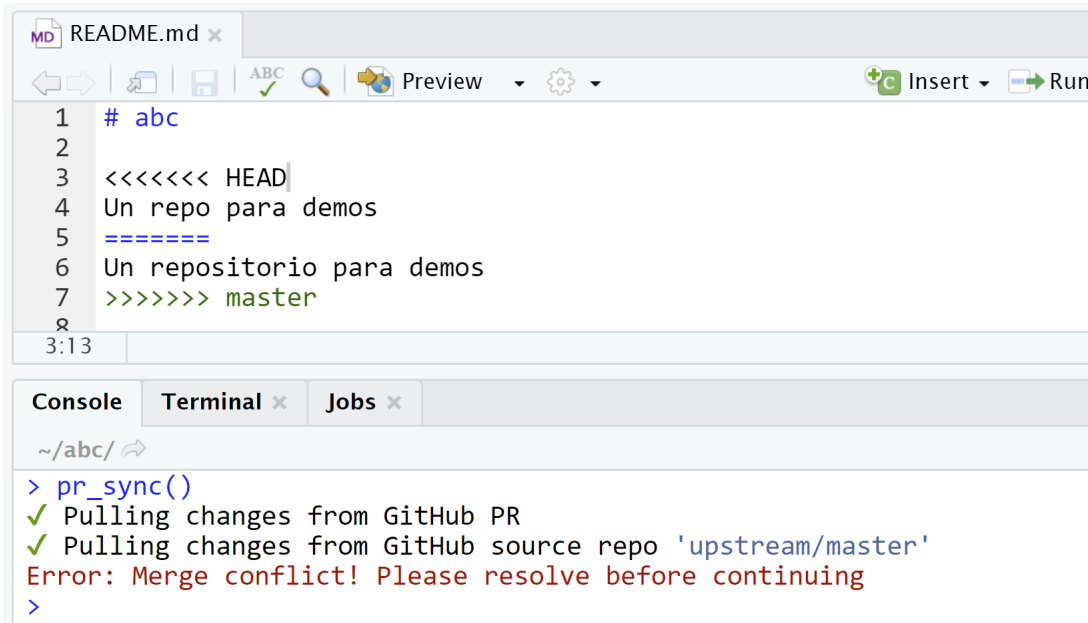


**This branch has conflicts that must be resolved**  
Only those with [write access](#) to this repository can merge pull requests.

Resolve conflicts

**Conflicting files**  
README .md

# pr\_sync()



The screenshot shows a code editor with a file named README.md. The editor has a toolbar with icons for undo, redo, save, search, and a preview button. The code in the editor is as follows:

```
1 # abc
2
3 <<<<<<< HEAD
4 Un repo para demos
5 =====
6 Un repositorio para demos
7 >>>>>> master
```





Below the editor is a terminal window with tabs for Console, Terminal, and Jobs. The terminal shows the following output:

```
> pr_sync()
✓ Pulling changes from GitHub PR
✓ Pulling changes from GitHub source repo 'upstream/master'
Error: Merge conflict! Please resolve before continuing
>
```

```
# forestgeoguest@LAPTOP ~/abc (pr)
# Usando el remoto por defecto "origin", y la rama "pr"
# `git pull` es un atajo para `git fetch && git merge FETCH_HEAD`
git pull
git pull upstream master
git push
```

# Resolver conflictos de fusión

Changes History pr ▾ (all commits) ▾ 🔄 🔍 Search 📶 Pull

	Subject	Author	Date	SHA
	Resolver el conflicto de fusion	Demo user <forestgeoguest@gma	2019-11-26	98fcdc8a
	Edita README.md	Mauro Lepore <maurolepore@gm	2019-11-27	b8f2873b
	Edita README.md	Demo user <forestgeoguest@gma	2019-11-26	ac906aeb
	Agrega README.md	Mauro Lepore <maurolepore@gm	2019-11-27	717dcff5

⏮ ⏪ Commits 1-4 of 4 ⏩ ⏭ ⏮


**SHA** 98fcdc8a


**Author** Demo user <forestgeoguest@gmail.com>

**Date** 2019-11-26 20:32

**Subject** Resolver el conflicto de fusion

**Parent** ac906aeb b8f2873b

 [README.md](#)

 **README.md**

[View file @ 98fcdc8a](#)

			@@@ -1,3 -1,3 +1,3 @@@
1	1	1	# abc
2	2	2	
3			Un repo para demos
	3		Un repositorio para demos
		3	Un repositorio para demostraciones

# pr\_push()



The screenshot shows a web-based terminal window with three tabs: 'Console', 'Terminal x', and 'Jobs x'. The 'Console' tab is active, displaying the prompt '~ /abc/' with a refresh icon. Below the prompt, the following commands and their outputs are shown:



```
> pr_push()  
✓ Checking that local branch 'pr' has the changes in 'origin/pr'  
✓ Pushing local 'pr' branch to 'origin:pr'  
✓ View PR at 'https://github.com/an-org/abc/pull/9' or call `pr_view()`  
> pr_view()
```

```
# forestgeoguest@LAPTOP ~/abc (pr)  
# Reintenta sincronizar  
git pull  
git pull upstream master  
git push
```






# La solicitud de fusión es aceptada

[pr] ya no tiene conflictos con [upstream/master]



 **Edita README.md #9**  
forestgeoguest wants to merge 2 commits into `an-org:master` from `forestgeoguest:pr` 

---

 **forestgeoguest** added 2 commits 28 minutes ago

  Edita README.md


ac906ae

  Resolver el conflicto de fusion

98fcdc8


---

Add more commits by pushing to the **pr** branch on **forestgeoguest/abc**.



Edita README.md (#9)

Gracias @forestgeoguest  
Signed-off-by: Mauro Lepore <maurolepore@gmail.com>


maurolepore@gmail.com 


Choose which email address to associate with this commit


Confirm squash and merge


Cancel


# Historia del repositorio fuente


 **an-org** / **abc**


 Code

 Issues **0**


 Pull requests **0**

 Actions


 Projects **0**

 Wiki

Branch: master ▼

 Commits on Nov 26, 2019


Edita README.md (#9) ...

 forestgeoguest authored and **maurolepore** committed 1 minute ago


Gracias **@forestgeoguest**

Signed-off-by: Mauro Lepore <maurolepore@gmail.com>

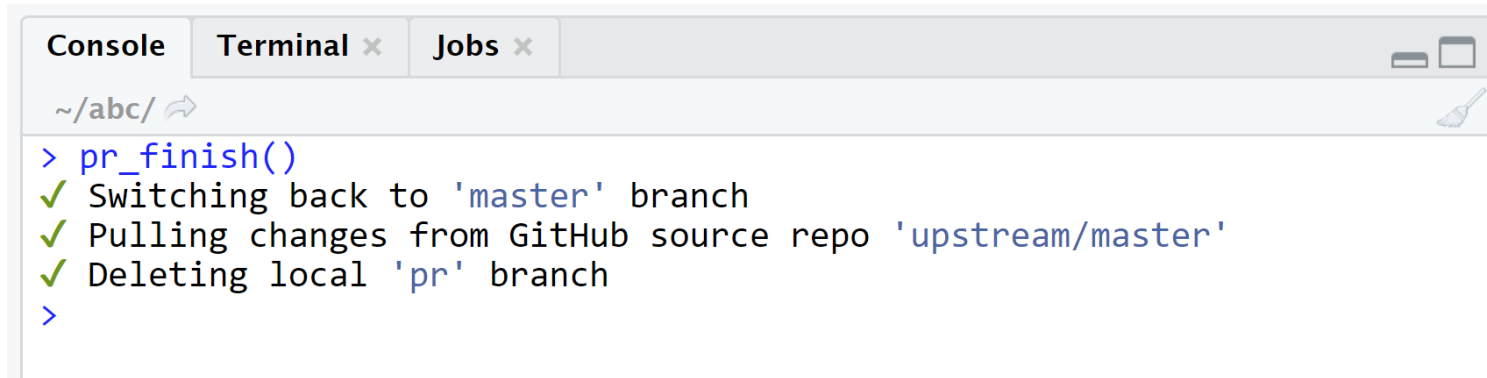
Edita README.md

 **maurolepore** committed 15 minutes ago


Agrega README.md

 **maurolepore** committed 25 days ago

# pr\_finish()



A terminal window with tabs for 'Console', 'Terminal x', and 'Jobs x'. The current directory is ~/abc/. The command > pr\_finish() has been executed, resulting in three green checkmark messages: 'Switching back to 'master' branch', 'Pulling changes from GitHub source repo 'upstream/master'', and 'Deleting local 'pr' branch'. The prompt > is shown again.

```
~/abc/   
> pr_finish()  
✓ Switching back to 'master' branch  
✓ Pulling changes from GitHub source repo 'upstream/master'  
✓ Deleting local 'pr' branch  
>
```

```
# forestgeoguest@LAPTOP ~/abc (pr)  
git checkout master
```

```
# forestgeoguest@LAPTOP ~/abc (master)  
git pull upstream master  
git push -d origin pr  
git branch -d pr
```

“No subes al nivel de tus metas. Caes el nivel de tus sistemas.” - [James Clear](#)

Déjate ayudar por usethis