Uso común de Git, GitHub y RStudio

Mauro Lepore

Repositorio: http://bit.ly/git-comun

Este trabajo usa la licencia Creative Commons Attribution-ShareAlike 4.0 International License disponible en:

http://creativecommons.org/licenses/by-sa/4.0

_

Muchas ideas e imágenes vienen de:

https://jennybc.github.io/wtf-2019-rsc/

Aprender a colaborar

Aprender:

- Por que es importante usar Git/GitHub?
- · Que es un "commit"?
- · Bifurcar un repositorio
- · Trabajar en un tiquete
- · Solicitar fusión

Apéndice

- · Instalación
- · Configuraciones globales
- · Operaciones comunes
- · Demostraciones paso a paso

Por que Git/GitHub?

Como se siente trabajar con y sin Git.





•

Excuse me, do you have a moment to talk about version control? (Jenny Bryan; Ingles)

Arreglar URLs en README.Rmd

Tiquete modelo

Motivación

Camino corto (en GitHub)

Bifurcar un repositorio

```
upstream (ell@s) ---> origin (yo)
```

Trabajar en un tiquete

Solicitar fusión

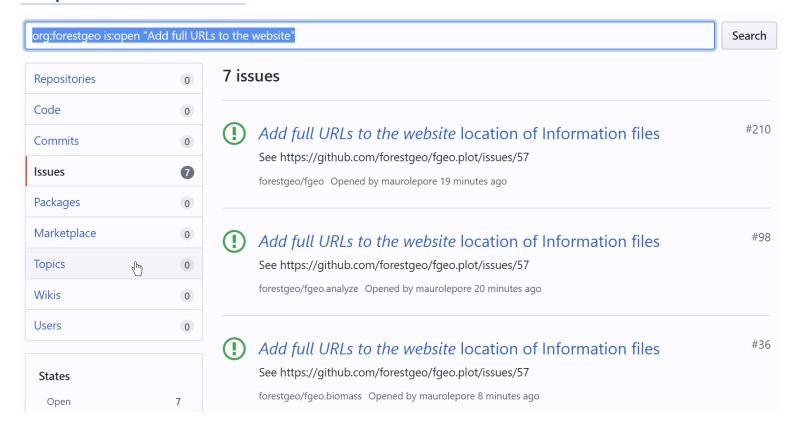
```
upstream (ell@s) <--- origin (yo)</pre>
```

_

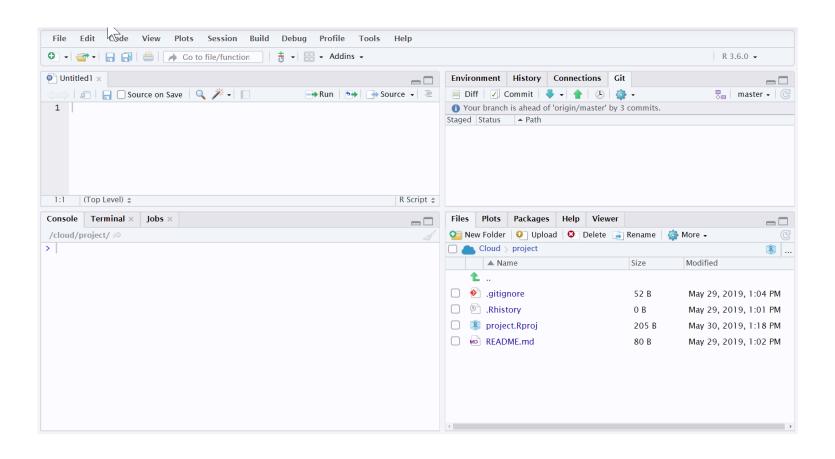
Demostrar con usuario fgeocom

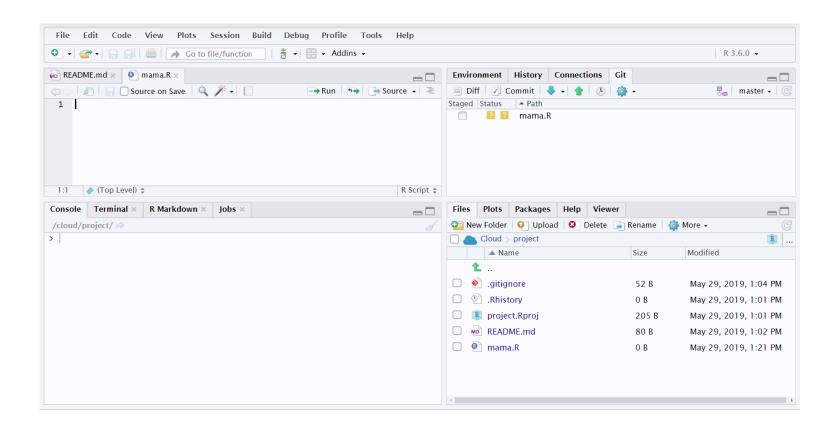
Quieres practicar?

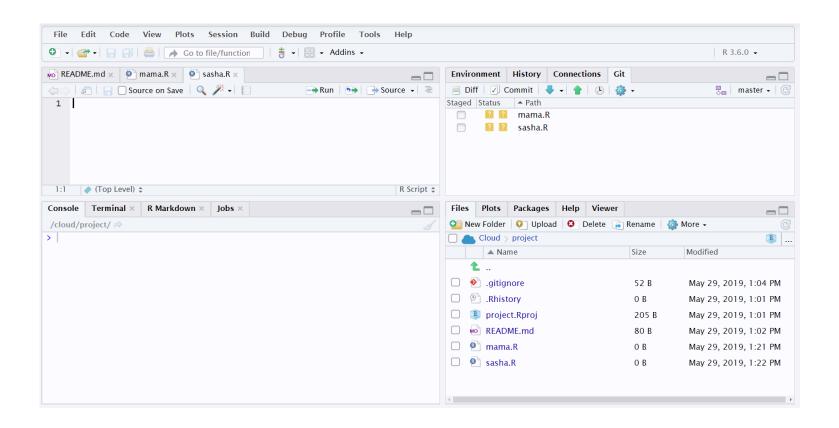
Tiquetes abiertos

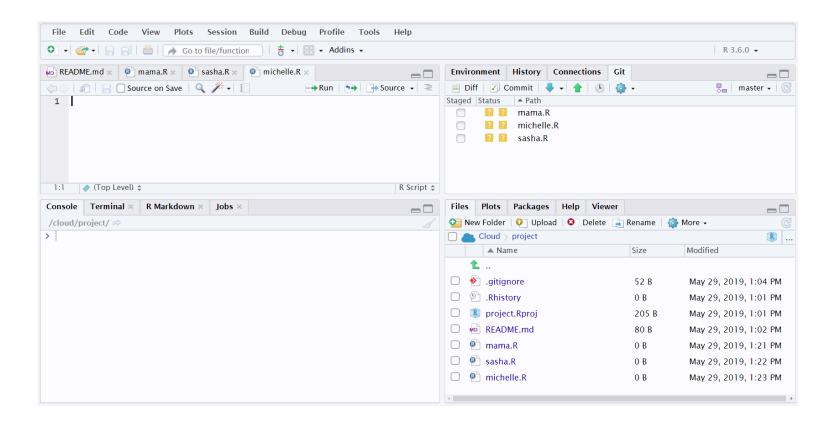


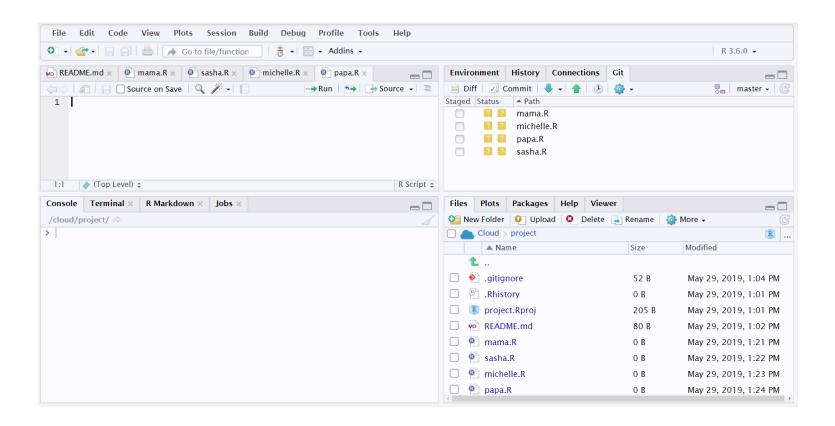


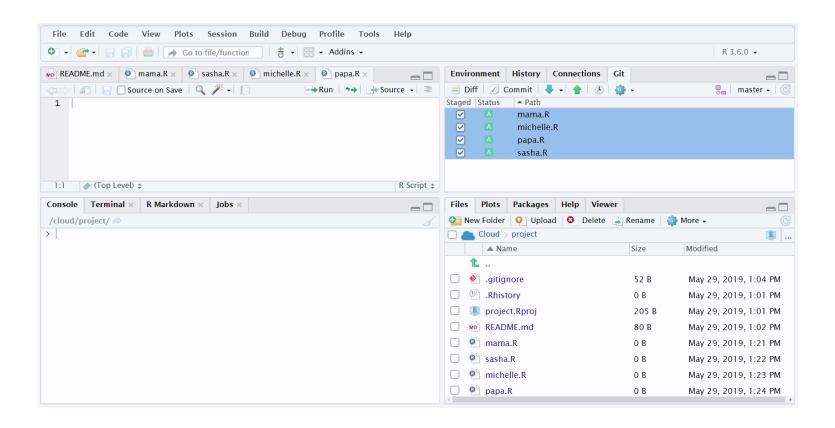


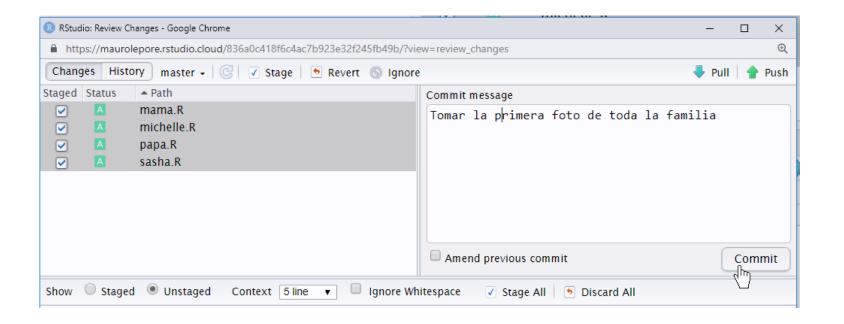






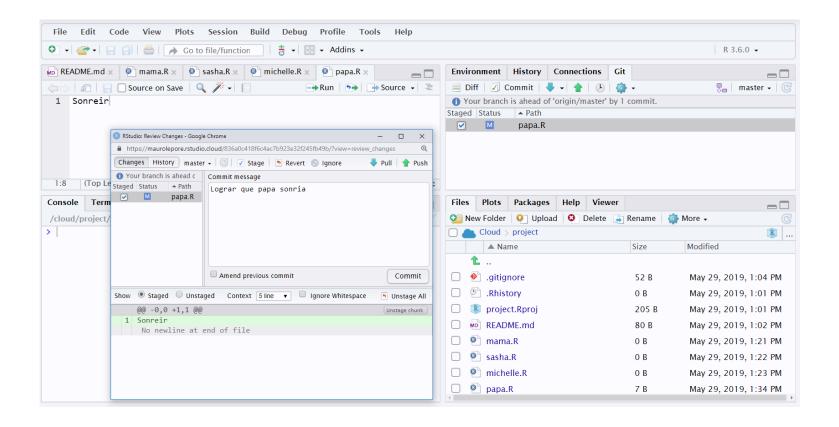


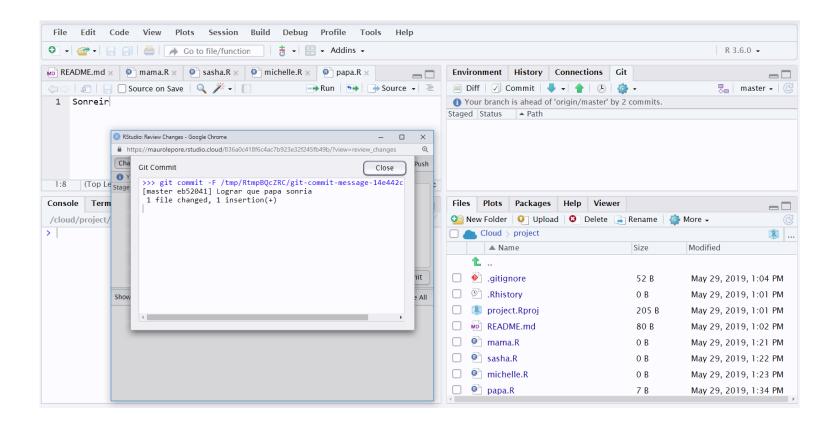




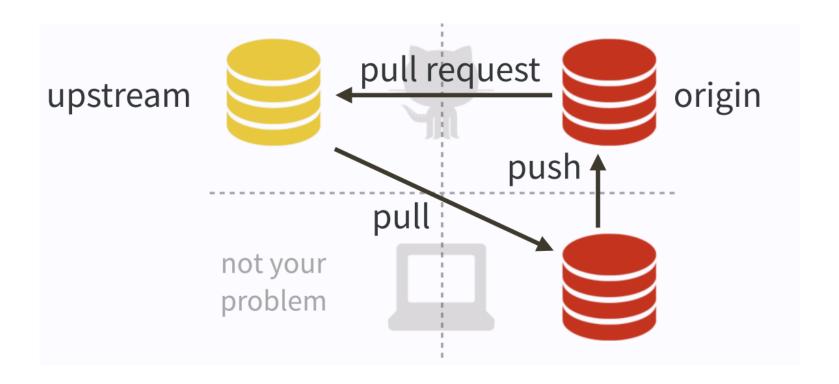
```
Close

>>> git commit -F /tmp/RtmpBQcZRC/git-commit-message-14e4543ca41.txt
[master 3cc758c] Tomar la primera foto de toda la familia
4 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 mama.R
create mode 100644 michelle.R
create mode 100644 papa.R
create mode 100644 sasha.R
```





Camino Largo



_

Demostrar

Ya podes contribuir!



Preguntas

Apéndice

Ver Pre-workshop set-up (Ingles)

Instalación

Configuraciones globales

```
# Ver la lista de configuraciones globales
git config --global -l

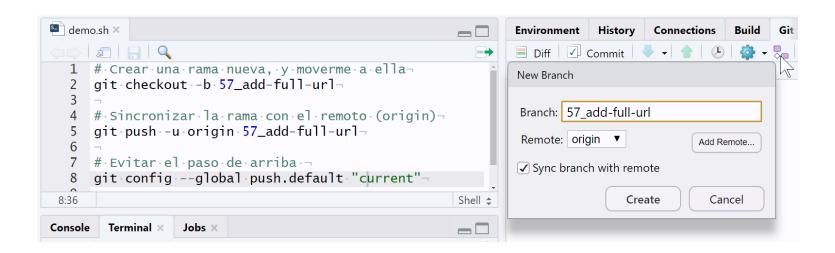
# Definir mi email y usuario
git config --global user.email "maurolepore@gmail.com"
git config --global user.name "maurolepore"
```

Configuraciones útiles

```
# Elegir un editor de texto amigable
core.editor=notepad
# Permite empujar cualquier rama directamente con `git push`
push.default=current
# Reduce las chances de crear conflictos
pull.ff=only
```

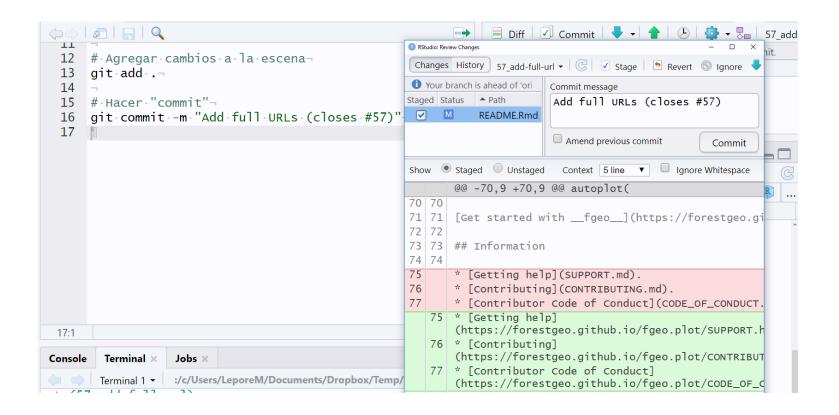
Operaciones comunes

Crear/checkear/sincronizar una rama



```
git checkout -b 57_add-full-url
git push -u origin 57_add-full-url
# Mejor aún:
git config --global push.default "current"
git push
```

Hacer "commit"



```
git add .
git commit -m "Add full URLs (closes #57)"
```

Editar el mensaje del ultimo "commit"

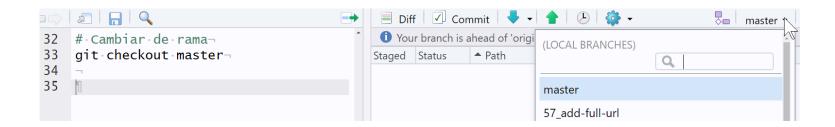
git commit --amend -m "Agregar URLs completos (closes #57)"

Descartar cambios en escena

```
■ Diff Ocenmit → → ↑ ↑ Diff → □
                                                             Run
 12 # Descartar cambios en escena (antes de hacer "commit")
                                                                     1 Your branch is ahead of 'origin/57_add-full-url' by 1 comm
 13 git reset -- hard
                                                                     Staged Status
                                                                                 ◆ Path
 14 ¬
                                                                              M README.Rmd
 15
                                                                                             Diff
                                                                                             Pevert.
                                                                                             ◎ Ignore...
                                                                          Plots Packages Help
                                                                                                Open File
```

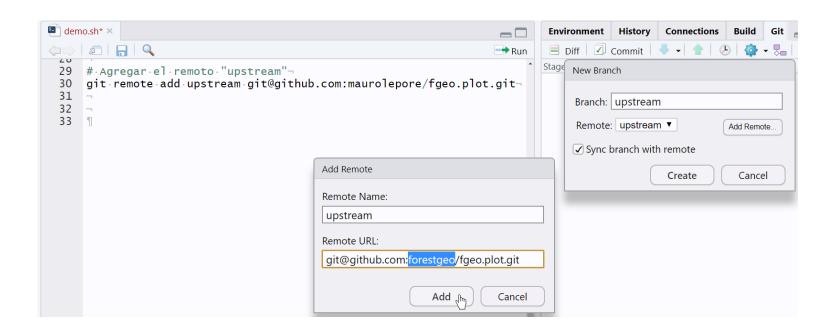
git reset --hard

Cambiar de rama



git checkout master

Agregar el remoto "upstream"



Agregar el remoto "upstream"

git remote add upstream git@github.com:maurolepore/fgeo.plot.git

Solo en la terminal

Actualizar contra el repositorio original

```
git fetch upstream
git checkout master
git rebase upstream/master
```

Lo que yo realmente hago esta explicado en https://www.atlassian.com/git/tutorials/comparing-workflows/feature-branch-workflow

Deshacer "commits"; guardar cambios

```
# ~1 deshace ultimo "commit"
# ~2 deshace ultimos 2 "commits"
# ~n deshace ultimos n "commits"
git reset HEAD~1
```

Contrarrestar un "commit"

```
# ~1 contrarresta el ultimo "commit"
# --no-edit escribe un mensaje automatico
git revert HEAD~1 --no-edit
# Contrarresta el "commit" con SHA a867f483
git revert a867f483 --no-edit
```

Elegir un commit especifico

Elegir el commit 63da5bb3
git cherry-pick 63da5bb3

Eliminar una rama

```
# Localmente
git branch -d nombre-de-la-rama
# Localmente, forzado
git branch -D nombre-de-la-rama
# Remotamente, en el remoto origin
git push -d origin nombre-de-la-rama
# Remotamente, en el remoto upstream
git push -d upstream nombre-de-la-rama
```

Manipular la historia interactivamente

```
# ~3 manipular la historia de los ultimos 3 "commits"
git rebase -i HEAD~3

# Commands:
# p, pick = use commit
# e, edit = use commit, but stop for amending
# s, squash = use commit, but meld into previous commit
# ...
#
# These lines can be re-ordered; they are executed from top to bottom.
#
# If you remove a line here THAT COMMIT WILL BE LOST.
```

(Traducción en la siguiente pagina)

https://about.gitlab.com/2018/06/07/keeping-git-commit-history-clean/

Manipular la historia interactivamente

Abortar y dejar todo tal como estaba

```
git rebase --abort
```

- s: Colapsar dos o mas "commits" contiguos
- · e: Editar el mensaje del "commit"

```
git commit --amend -m "Editar mensaje"
git rebase --continue
```

- · Re-ordenar linear para re-ordenar "commits"
- Borrar una linea para eliminar un "commit" (CUIDADO!)

Preguntas

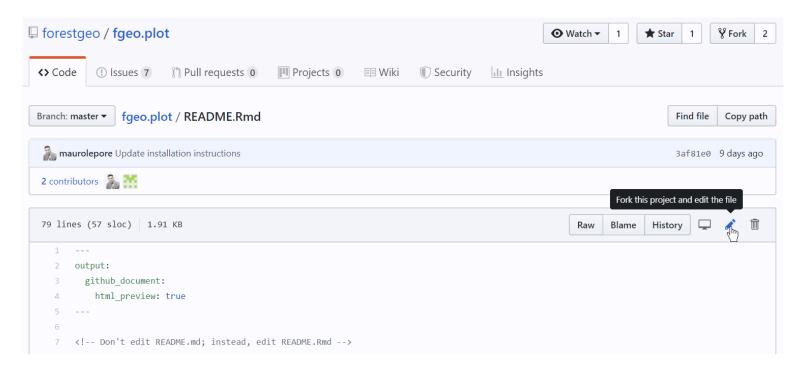
Mauro Lepore

http://bit.ly/git-comun

Demostraciones paso a paso

Camino corto: Auto-bifurcar

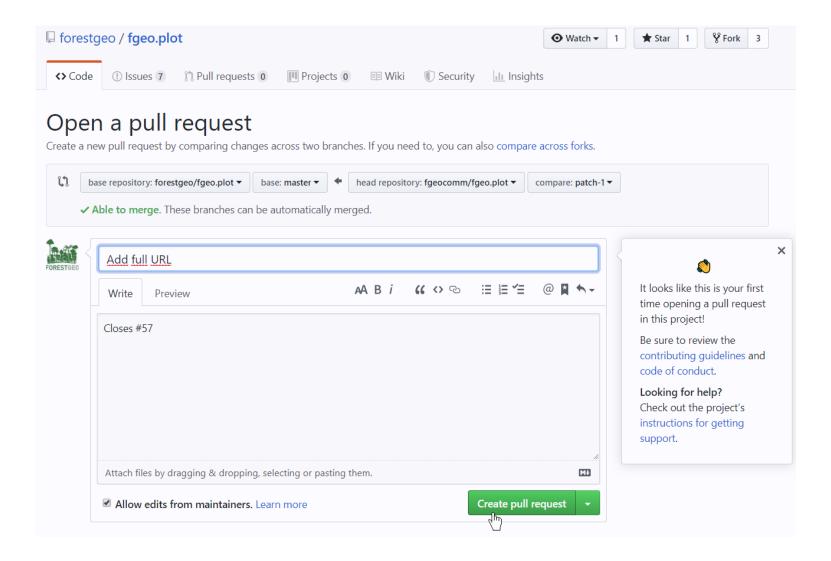
"You're editing a file in a project you don't have write access to. Submitting a change to this file will write it to a new branch in your fork fgeocomm/fgeo.plot, so you can send a pull request."



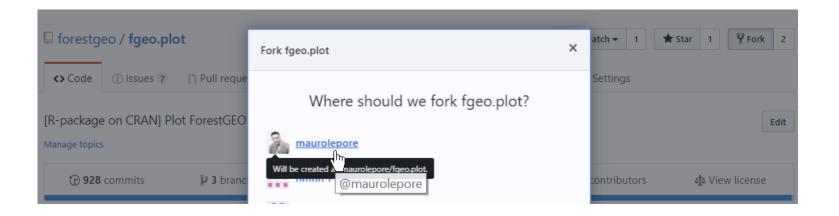
Camino corto: Trabajar en un tiquete

73 74	## Information
75 76 77 78	<pre>* [Getting help](https://forestgeo.github.io/fgeo.plot/SUPPORT.html). * [Contributing](https://forestgeo.github.io/fgeo.plot/CONTRIBUTING.html). * [Contributor Code of Conduct](https://forestgeo.github.io/fgeo.plot/CODE_OF_CONDUCT.html).</pre>
FORESTGEO	Propose file change
	Add full URL
	Closes #57
	Propose file change Cancel

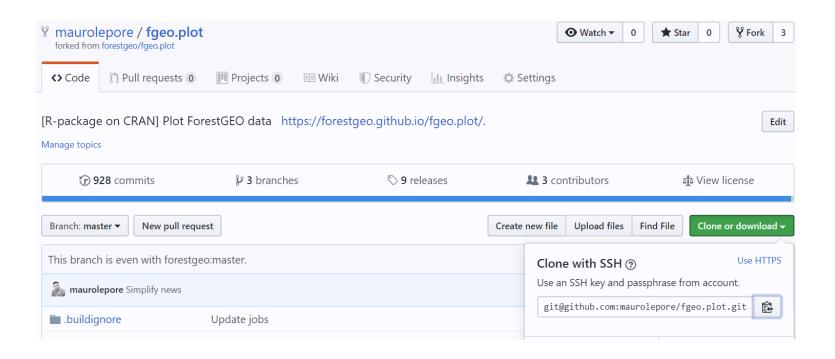
Camino corto: Solicitar fusión



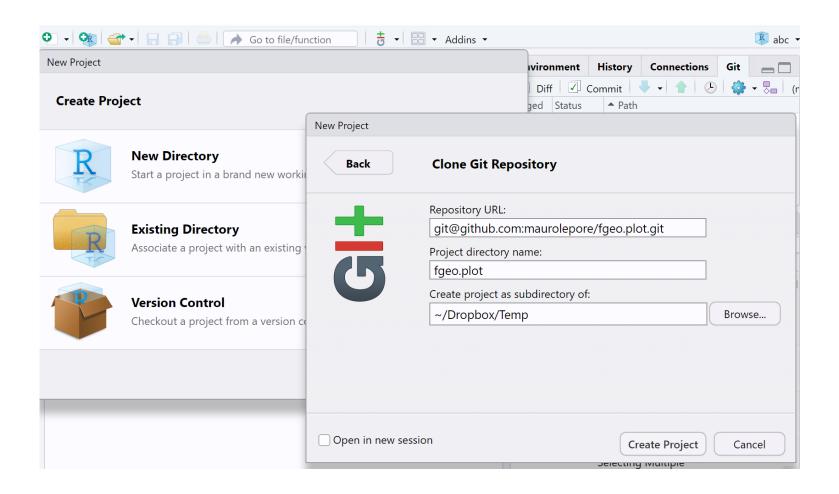
Camino Largo: Bifurcar



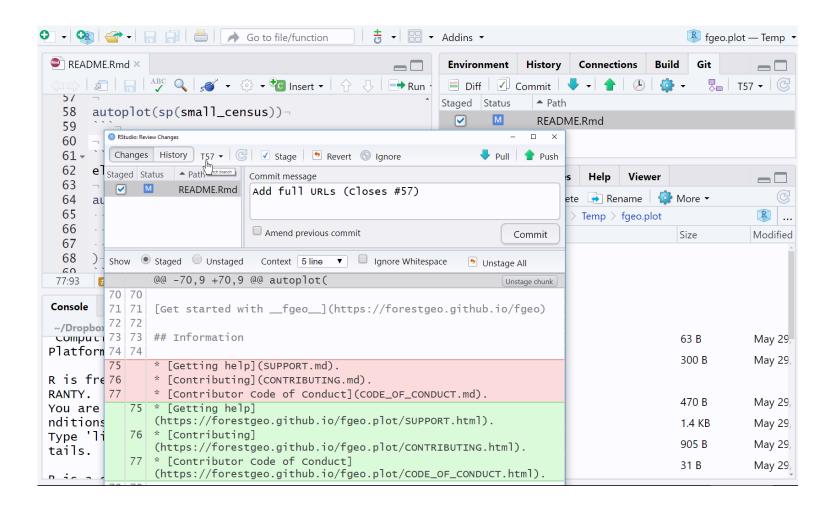
Camino Largo: Clonar (GitHub)



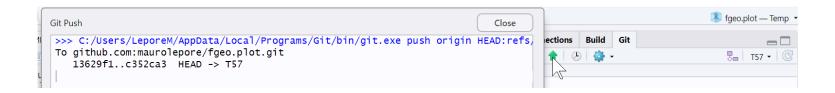
Camino Largo: Clonar (RStudio)



Camino Largo: Trabajar en un tiquete



Camino Largo: Hacer "Push"



Camino Largo: Solicitar fusión

