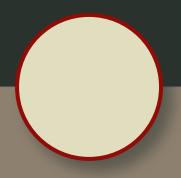
Introduction to Github/Gitlab



Javier Moldón

IAA-CSIC (Granada)

SKA Regional Centre Training Event Series
Hands-on Containerization
January 31, 2022



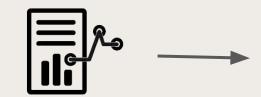


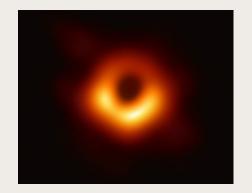








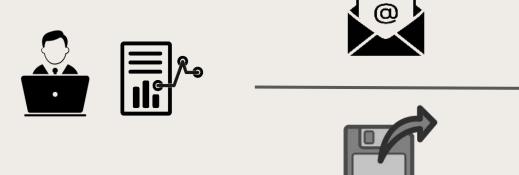








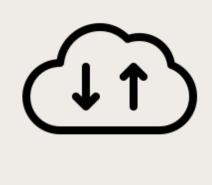








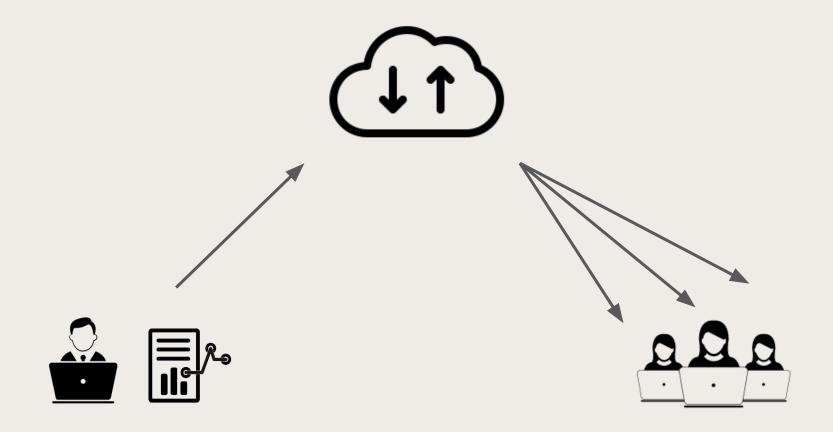


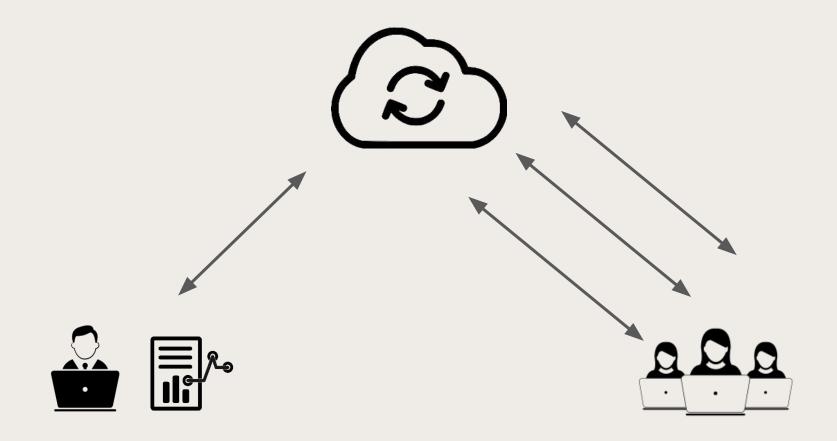












Software repositories

Github

Gitlab

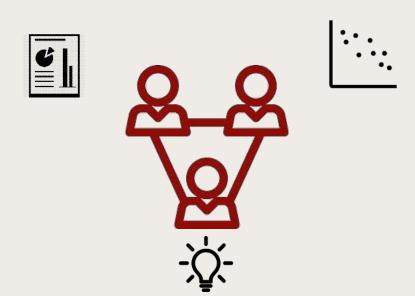
Bitbucket

. . .

They aim to provide an efficient collaborative platform

with powerful git management under the hood

and enabling personal or social coding



Software repositories

Github



- Now from Microsoft
- 40 million users
- 69.000.000+ repos
- More user friendly
- More limited CI integration, need third party

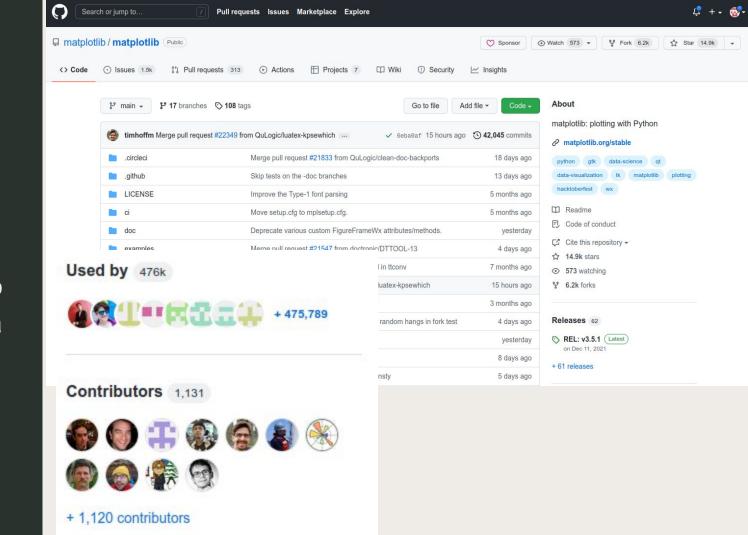
Gitlab



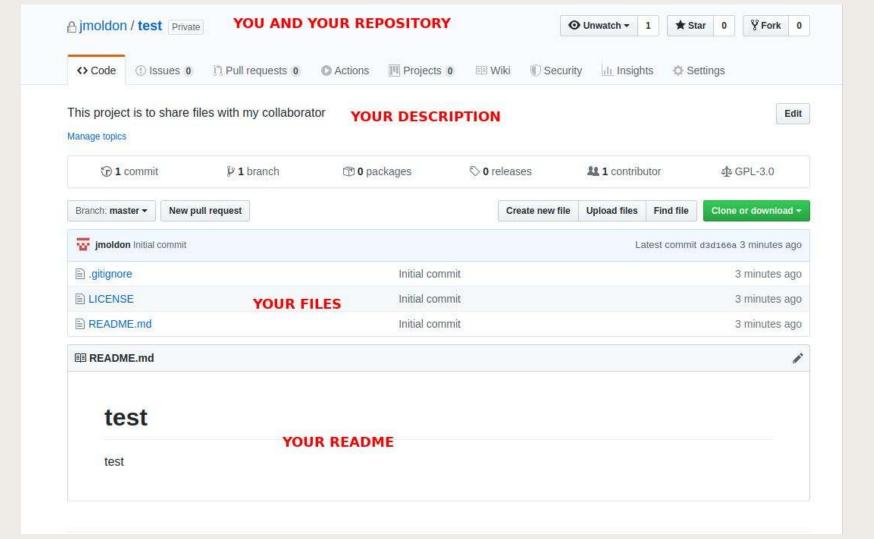
- Open Source
- 100,000 users
- 500.000+ repos
- More complex
- CI (continuous integration) and a DevOps workflow

Highly scalable

You can use it to version control a single file or...



Basic ingredients



README

Example README editor

First thing a visitor sees



Describe what is this, for who and why

Describe the structure or add links to relevant files

Include instructions

Project information

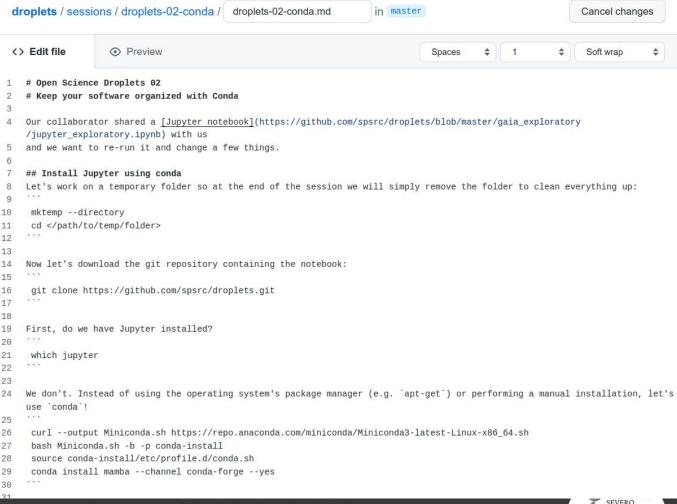




Markdown language

Useful and efficient syntax

For .md files, issues, pull requests, etc.



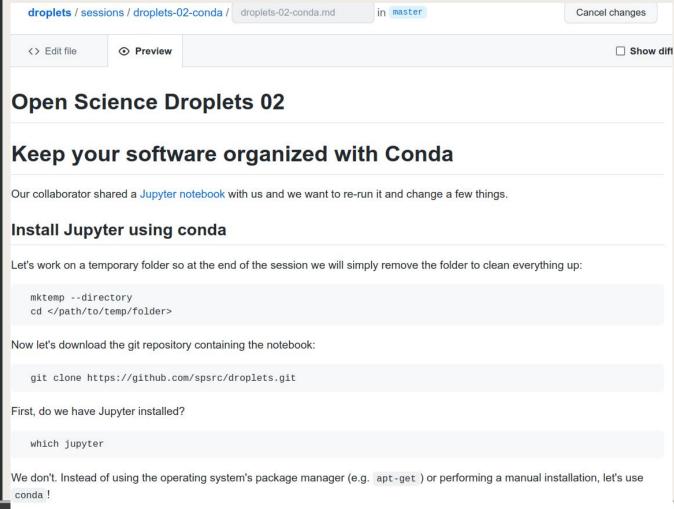




Markdown language

Useful and efficient syntax

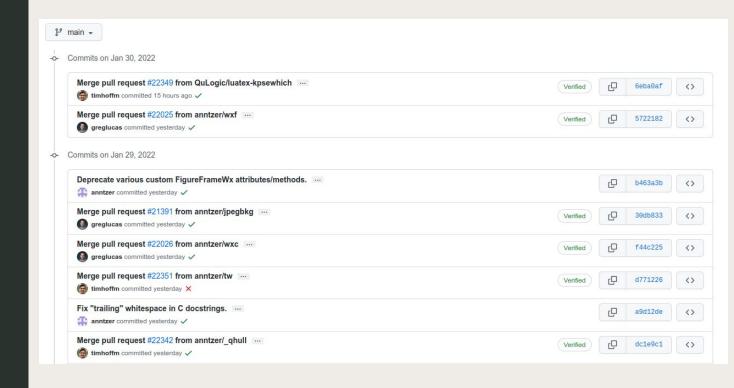
For .md files, issues, pull requests, etc.







Commit history







Issues

⊙ 1,462 Open ✓ 6,821 Closed	Author -	Label -	Projects ▼	Milestones ▼	Assignee -	Sort →
⊙ [Doc]: Deprecation note in get_cmap is non-actionable Documentation #22362 opened 9 hours ago by mwaskom						□ 1
○ [Bug]: text.usetex Vs. DateFormatter topic: date handling topic: text/usetex #22350 opened 2 days ago by leocirto				}} 1		□ 3
 [ENH]: Having more customization options for the FancyArrow class (specifically topic: arrow) #22344 opened 2 days ago by mapfiable 	different tail	S) New featu	пе			₽ 4
⊙ [MNT]: Delay (or make pending) the deprecation of set_constrained_layout/set_tig #22343 opened 3 days ago by annizer	ght_layout <mark>ſ</mark>	Maintenance		II 1		₽ 8
⊙ [Bug]: GridSpec or related change between 3.4.3 and 3.5.1 #22341 opened 3 days ago by KelSolaar						□ 2
⊙ [Bug]: rcParams['legend.loc'] can't use float-tuple like kwarg legend(loc) topic: rcg	params					
						□ 4
⊙ [Bug]: Data under cursor crashes on QuadMesh status: confirmed bug #22334 opened 3 days ago by Stassels ⇔ v3.5.2					æ	□ 3
⊙ [Bug]: First and or last minor ticks sometimes not plotted status: confirmed bug #22331 opened 4 days ago by bproxauf						Q 1





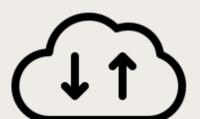
Pull/Merge requests

\$\$ 313 Open ✓ 13,745 Closed Author ← Label ← Projects ← Milestones ←	Reviews -	Assignee ▼	Sort →
Revert datetime usetex ticklabels to use default tex font. X (topic: date handling) (topic: text/lusetex) (topic: ticks axis labels) #22361 opened 12 hours ago by anntzer • Review required	⊙ 1		
Let TeX handle multiline strings itself. × status: waiting for other PR topic: text/usetex #22360 opened 12 hours ago by anntzer • Review required 6 tasks			
Slightly refactor TeX source generation. × Maintenance topic: text/usetex #22359 opened 12 hours ago by anntzer • Approved 🔁 6 tasks			
11 Cleanup tripcolor() Maintenance #22356 opened yesterday by timhoffm • Review required v3.6.0	⊙1		□ 2
Nauto font selection for system locale × #22355 opened yesterday by kmivan ◆ Review required ◆ 4 of 6 tasks			
12 correctly treat pan/zoom events of overlapping axes × #22347 opened 2 days ago by raphaelquast • Review required • 2 of 6 tasks • v3.6.0			□ 13
NNT: make layout deprecations pending ✓ Maintenance #22345 opened 2 days ago by jklymak • Approved ♠ 6 tasks ⇔ v3.6.0	⊙ 1		□ 5

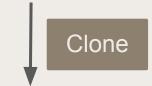




Clone vs Fork



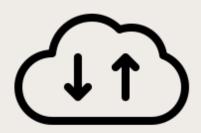




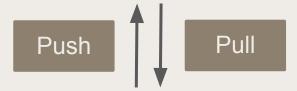


Α

B/myrepo

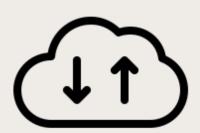




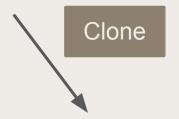




Α





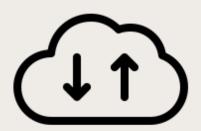




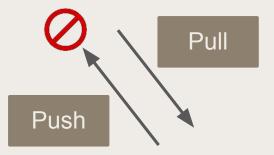




В





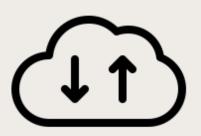








В

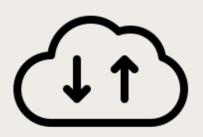








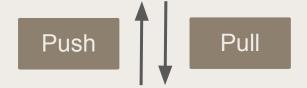
B





B/myrepo





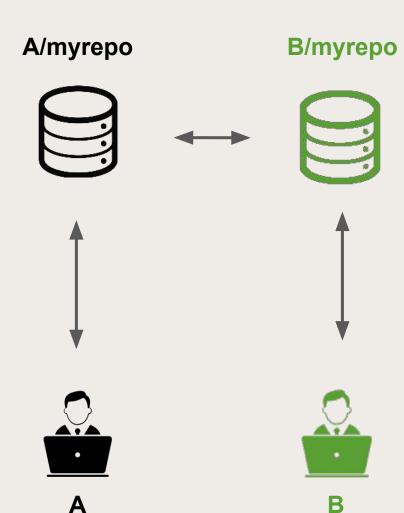


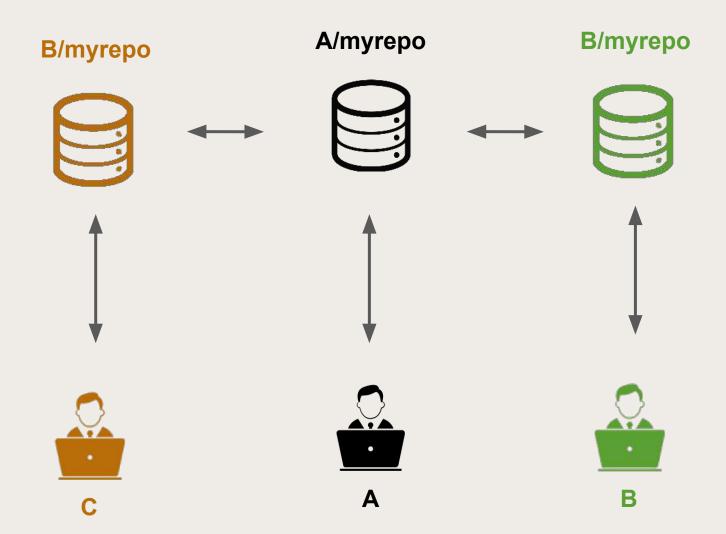




B



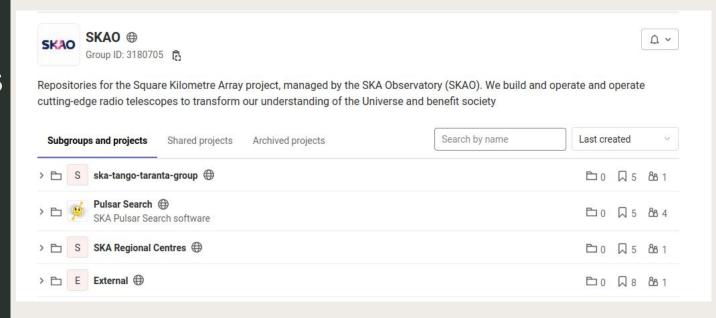




Additional considerations

Organizations |

A way to centralize the management and repo ownership

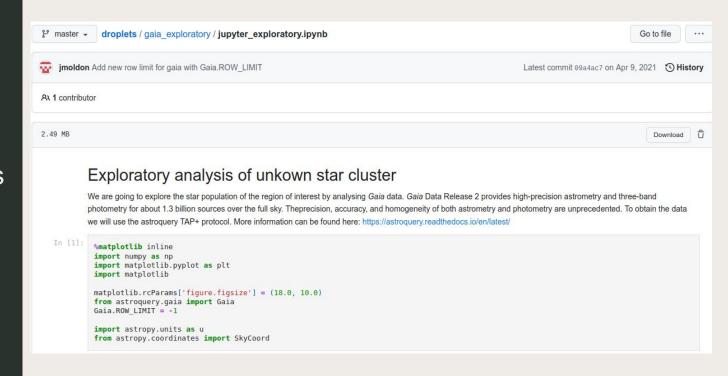


Automatic rendering of files

Jupyter notebooks

CSV

markdown



Repository visibility

Public



Private

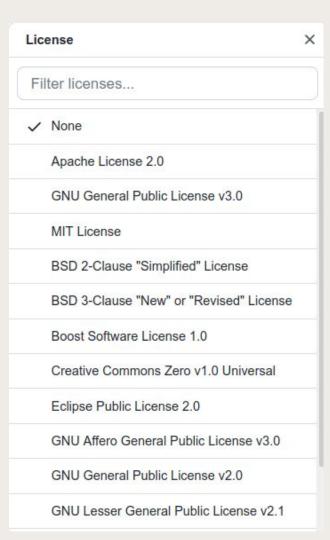


LICENSE

Choose <u>here</u>

If in doubt:

GNU General
Public License v3.0



.gitignore

Avoid storing not needed files in your repo

```
ழ main →
            matplotlib / .gitignore
```



18

QuLogic Remove generated file accidentally added in #20867

At 21 contributors ## 69 @ 69 ## 69 @ ## 69 69 +9



112 lines (99 sloc) | 1.74 KB

























```
# OS-specific temporary and backup files
   .DS_Store
   # Editor temporary/working/backup files #
   .#*
   [#]*#
   *5
   * . bak
   *.kdev4
   .project
   .pydevproject
15
   *.SWD
   .idea
17
   .vscode/
```





It's all about collaborating Enjoy!

