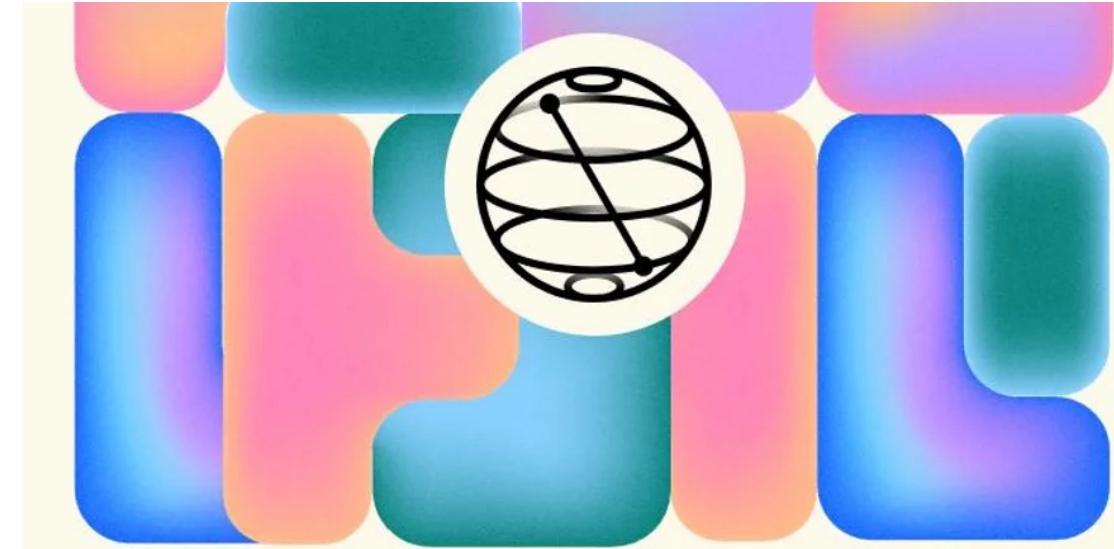


# Open source 101

¿Qué es y por qué contribuir?

Eric Arellano  
3 de nov, 2023



# Cronograma

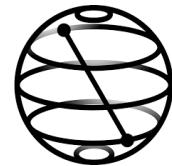
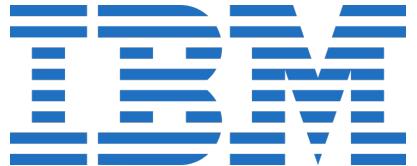
1. ¿Qué es open source?
2. Tipos de contribuciones
3. ¿Por qué otros invierten en open source?
4. ¿Por qué debes contribuir a open source?
5. ¿Cómo contribuir a open source?

# ¡Hola! Soy Eric Arellano (elle/él)

Ingeniere de software  
con un enfoque de  
open source



 toolchain



# ¿Qué es open source?

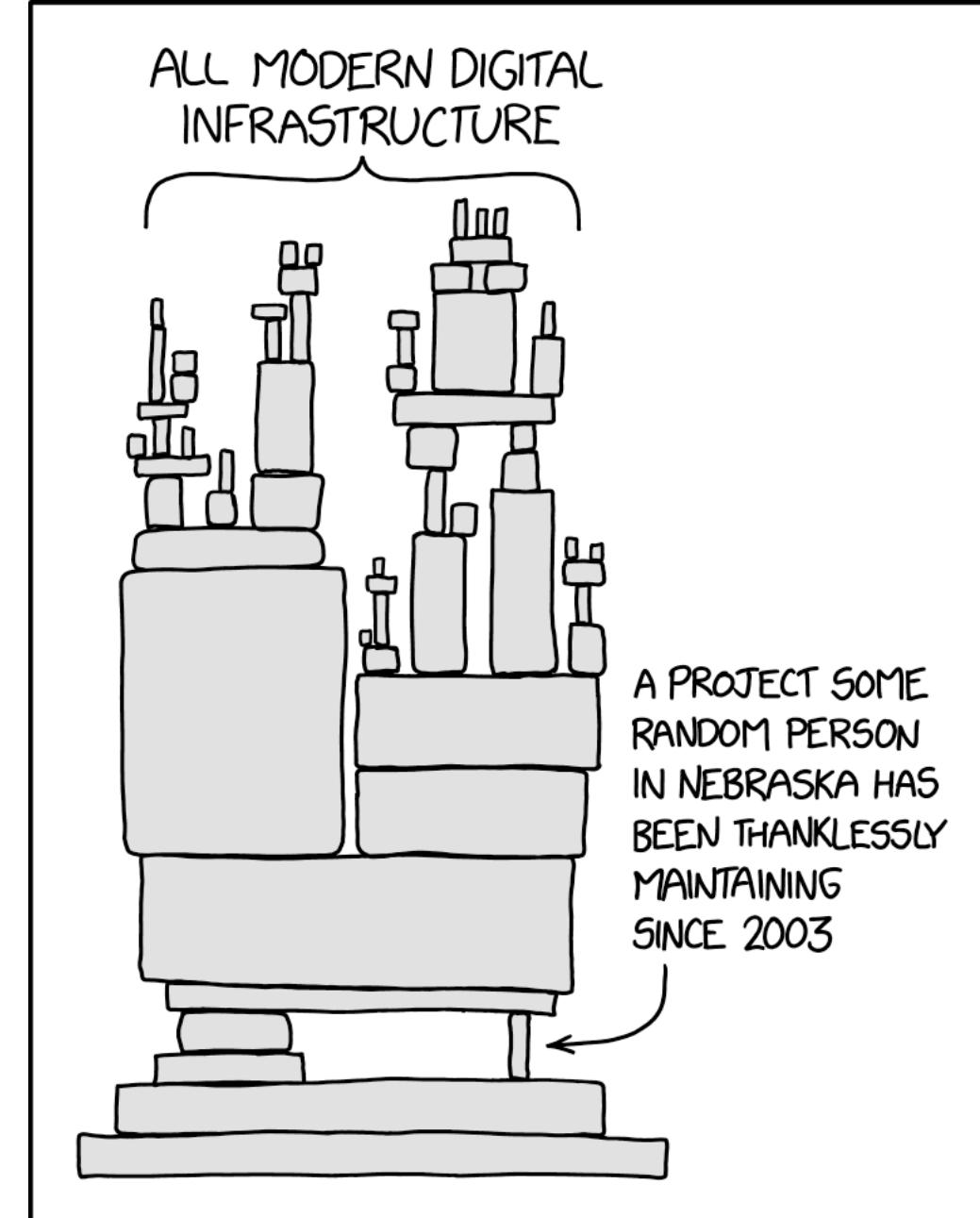
---



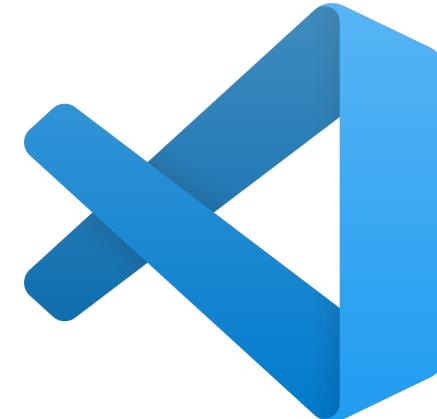
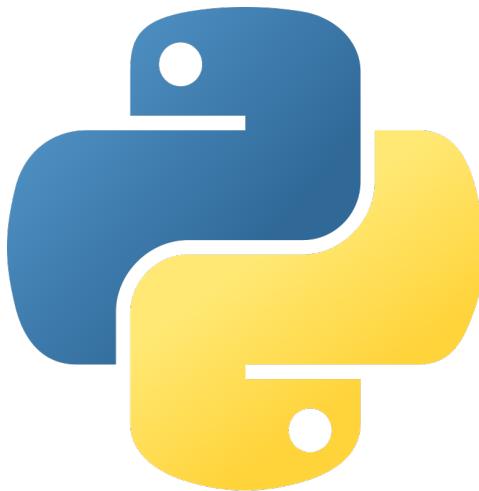
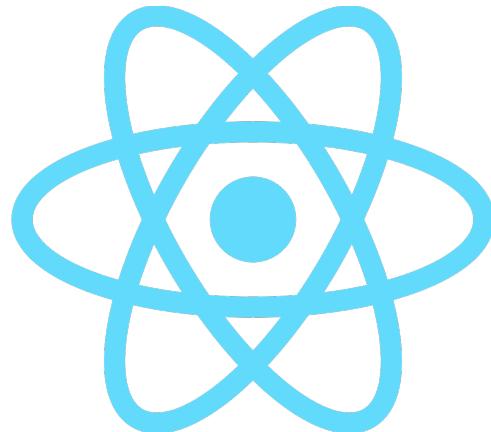
“Software open source significa código que está accessible públicamente y lo cual se puede modificar y compartir.”

The Linux Foundation  
2020 report: “*Why open source  
matters to your business*” (traducido)

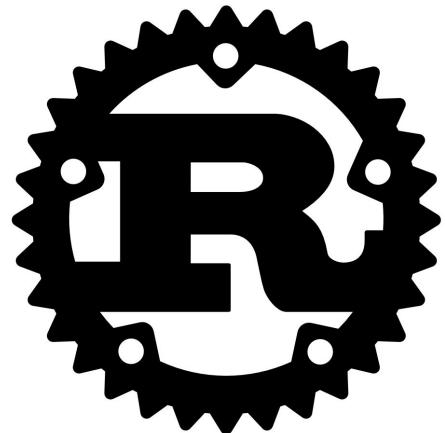
El mundo  
depende en  
open  
source.



# Algunos proyectos reconocidos



kubernetes



Linux™



# “The Open Source Definition”

- 1. Distribución gratis
- 2. Código fuente accesible
- 3. Obras derivadas permitidas
- 4. Integridad del código original permitido
- 5. No discrimina contra ninguna persona ni grupo
- 6. No discrimina contra ámbitos de aplicación
- 7. Distribución de licencia
- 8. Licencia no es específica a un producto
- 9. Licencia no restringe otro software
- 10. Licencia es tecnológicamente neutra



**open source  
initiative®**

<https://opensource.org/osd/>

# Licencias de open source

**La licencia nombra que está permitido y prohibido.**

Algunos populares de <https://opensource.org/licenses/> :

- MIT
- GPL
- Apache
- BSD

# Tipos de contribuciones

---

# Informes de bugs

## Issue: Bug

File a bug report. If this doesn't look right, [choose a different type](#).



Title

Before opening a bug report, please search for the behaviour in the existing issues.

Thank you for taking the time to file a bug report. To address this bug as fast as possible, we need some information.

### Operating system \*

Which operating system do you use? Please provide the version as well.

macOS Big Sur 11.5.2

### Laravel Version \*

Please provide the full Laravel version of your project.

v8.6.1

### PHP Version \*

Please provide the full PHP version that is powering Tinkerwell.

PHP 8.0.7, built: Jun 4 2021 01:50:04

### Project Location \*

Where is the project located?

Selection: ▾

### Bug description \*

What happened?

### Steps to reproduce

Which steps do we need to take to reproduce this error?

### Relevant log output

If applicable, provide relevant log output. No need for backticks here.

#### Assignees

No one—assign yourself

#### Labels

None yet

#### Projects

None yet

#### Milestone

No milestone

#### Linked pull requests

Successfully merging a pull request may close this issue.

None yet

#### Helpful resources

[GitHub Community Guidelines](#)

You're using an [issue form](#), a new type of issue template.

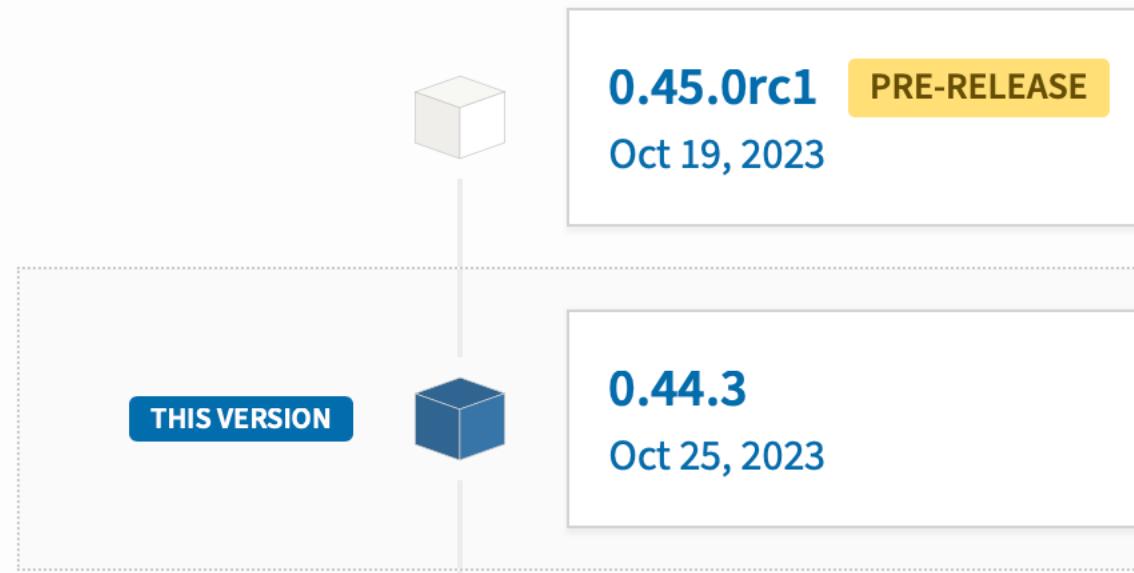
Fields marked with an asterisk (\*) are required.

[Submit new issue](#)

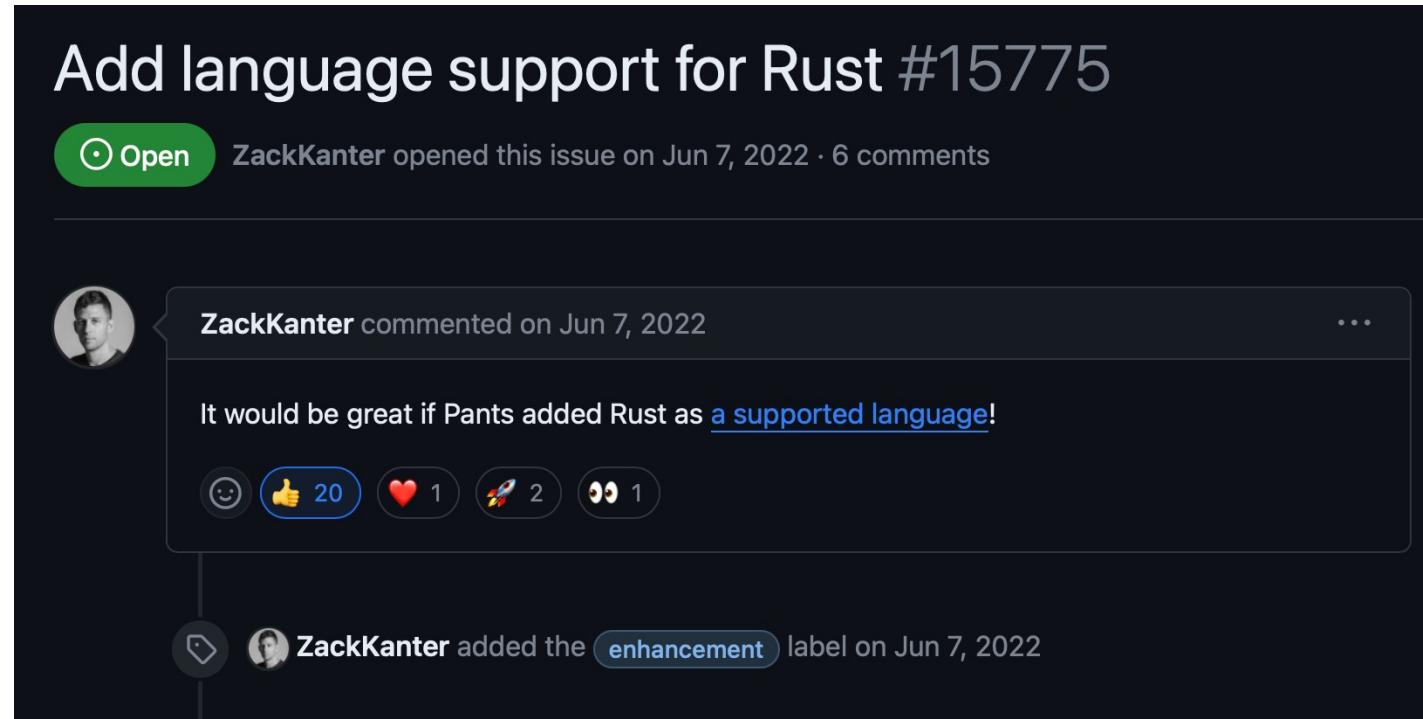
Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

# Probar nuevas versiones

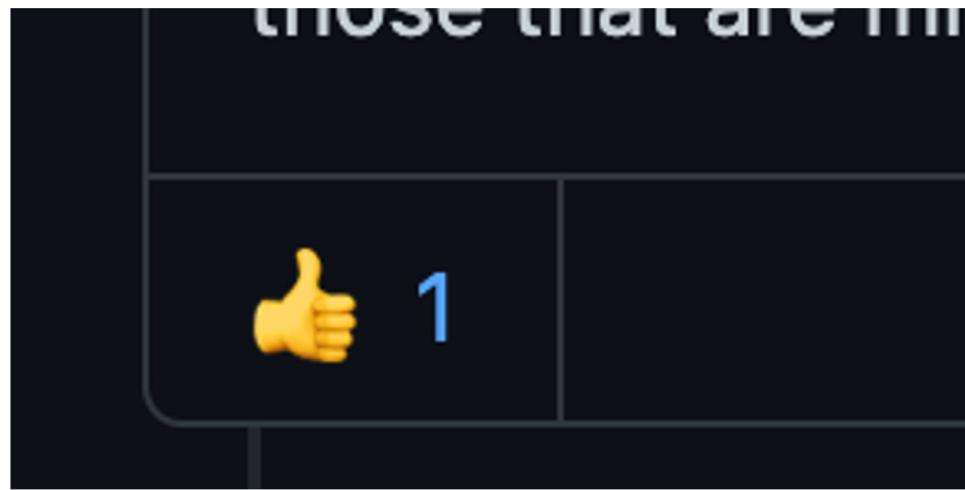
## Release history



# Ideas para mejoras

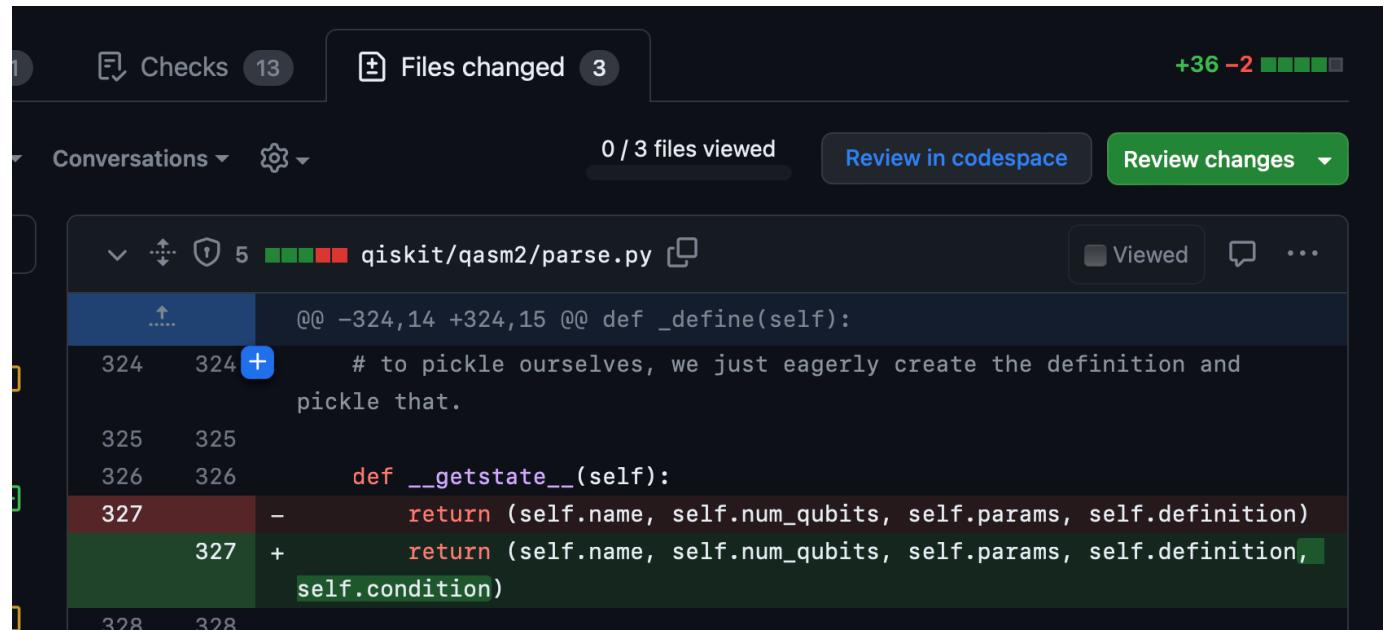


# Votar por prioridades en GitHub



# Código:

- Bugs
- Nuevas funcionalidades
- Refactor
- Rendimiento



A screenshot of a GitHub pull request interface. At the top, there are status indicators: 'Checks 13' (green), 'Files changed 3' (green), and '+36 -2' with a progress bar. Below this, there are buttons for 'Conversations', 'Review in codespace', and 'Review changes'. The main area shows a diff view of a file named 'qiskit/qasm2/parse.py'. The diff highlights changes in lines 324, 326, and 327. Line 324 is a new addition: `# to pickle ourselves, we just eagerly create the definition and pickle that.` Line 326 is a new addition: `def \_\_getstate\_\_(self):`. Line 327 has two changes: it is marked as deleted with a minus sign and then added with a plus sign: `return (self.name, self.num\_qubits, self.params, self.definition)` and `return (self.name, self.num\_qubits, self.params, self.definition, self.condition)`.

```
@@ -324,14 +324,15 @@ def __define(self):  
     # to pickle ourselves, we just eagerly create the definition and  
     pickle that.  
  
@@ -326,1 +326,1 @@ def __getstate__(self):  
     return (self.name, self.num_qubits, self.params, self.definition)  
  
@@ -327,1 +327,2 @@ def __getstate__(self):  
     return (self.name, self.num_qubits, self.params, self.definition,  
             self.condition)
```

# Seguridad

Add file ▾

Code ▾

days ago ⏱ 41 commits

14 months ago

15 months ago

2 months ago

14 months ago

13 months ago

11 days ago



About

No description, website, or topics provided.

 Readme

 Security policy

 Cite this repository ▾

 1 star

 1 watching

 2 forks

---

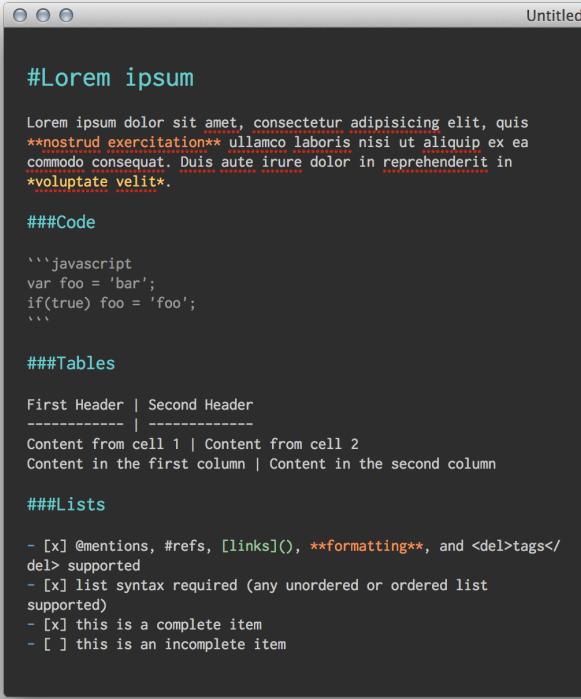
Releases

 1 tags

Create a new release

# Documentación

- Typos
- Bug de código
- Enlaces rotos
- Contenido desactualizado
- Nuevo contenido



The screenshot shows a dark-themed text editor window titled "Untitled 2 — Edited". The document contains the following content:

```
#Lorem ipsum
Lorem ipsum dolor sit amet, consectetur adipisicing elit, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit.

###Code
```javascript
var foo = 'bar';
if(true) foo = 'foo';
```

###Tables
First Header	Second Header
Content from cell 1 | Content from cell 2
Content in the first column | Content in the second column

###Lists
- [x] @mentions, #refs, [links](), **formatting**, and <del>tags</del> supported
- [x] list syntax required (any unordered or ordered list supported)
- [x] this is a complete item
- [ ] this is an incomplete item
```

To the right of the editor, there is a preview area with the following content:

**Lorem ipsum**

Lorem ipsum dolor sit amet, consectetur adipisicing elit, quis **nostrud exercitation** ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in *voluptate velit*.

**Code**

```
var foo = 'bar';
if(true) foo = 'foo';
```

**Tables**

| First Header                | Second Header                |
|-----------------------------|------------------------------|
| Content from cell 1         | Content from cell 2          |
| Content in the first column | Content in the second column |

**Lists**

- ✓ @mentions, #refs, [links](#), **formatting**, and **tags** supported
- ✓ list syntax required (any unordered or ordered list supported)
- ✓ this is a complete item

# Traducciones

The screenshot shows a Crowdin translation interface. At the top, it displays "FRENCH > EN.YML". On the left, there's a sidebar titled "Search in file" containing a list of items related to "life list first". The main area is divided into "SOURCE STRING" and "TRANSLATION". The "SOURCE STRING" section shows two entries: "Form: One" followed by the string "%{count} life list first" in green, and "Form: Other" followed by "%{count} life list firsts" in green. Below these are sections for "CONTEXT" and "REQUEST", with "root -> x\_life\_list\_firsts". A "FORM:" dropdown is set to "ONE". The "TRANSLATION" section has a text input field with placeholder "Enter translation here". At the bottom right, there are icons for saving and a progress bar showing "24 / 0". To the right of the main interface, there's a "COMMENTS" sidebar with three entries:

- Konrad Kalużyński (@kaluzynski) says: "This one is confusing. I don't understand why the word 'first' becomes plural here." (2 months ago, Polish)
- carrieseltzer (@kaluzynski) responds: "yeah, I can see why this is confusing. A 'life list first' means a species that is new to you. Essentially, a 'first spotting' of a species gets shortened to a 'first'. So if you see 3 new-to-you species, you have 3 'life list firsts'." (2 months ago, Polish)
- Konrad Kalużyński (@kaluzynski) replies: "Hmm, ok. But I still find the whole phrase confusing ;P" (2 months ago, Polish)

The "FRENCH TRANSLATIONS" section below the comments shows "No translations suggested yet". The "TM AND MT SUGGESTIONS" section shows a suggestion from "Crowdin Translate (beta)" with the text "%{count} liste de vie en premier".

# Repasos de código



I Am Devloper  
@iamdevloper

...

10 lines of code = 10 issues.

500 lines of code = "looks fine."

Code reviews.

11:58 AM · Nov 5, 2013 · Tweetbot for iOS

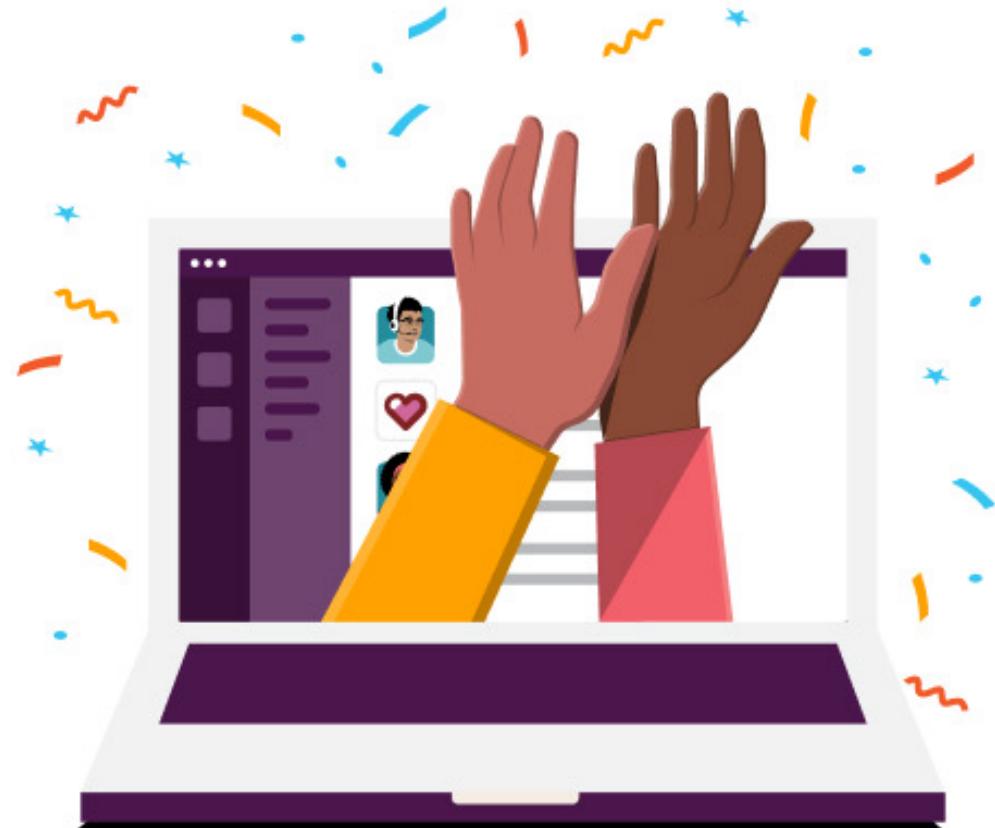
---

**8,294** Retweets   **168** Quote Tweets   **6,773** Likes

# “Dev rel”: pláticas, blogs, etc



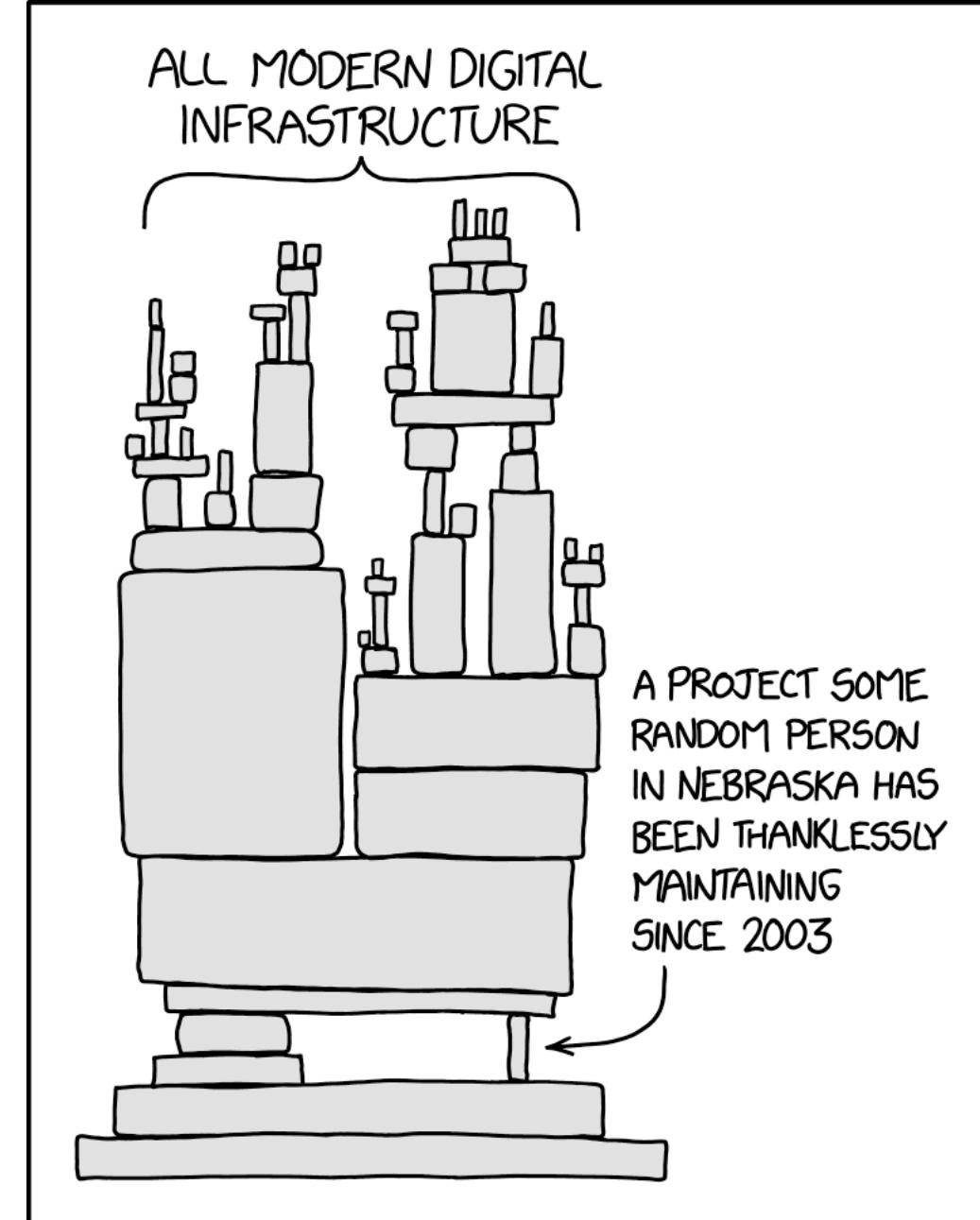
# Ayudar a otros usuarios



# ¿Por qué otros invierten en open source?

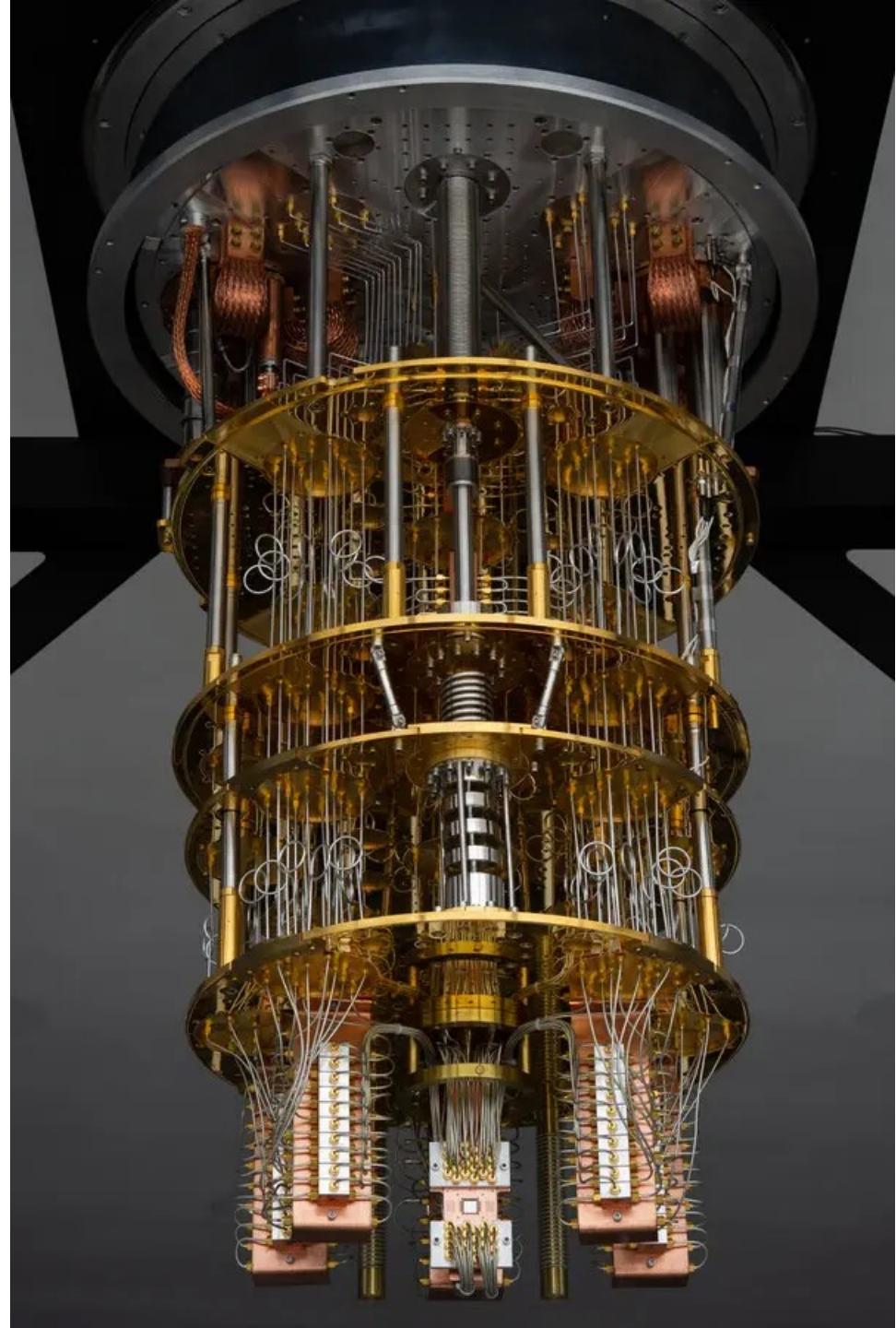
---

# Apoyar el ecosistema y los productos open source que usan

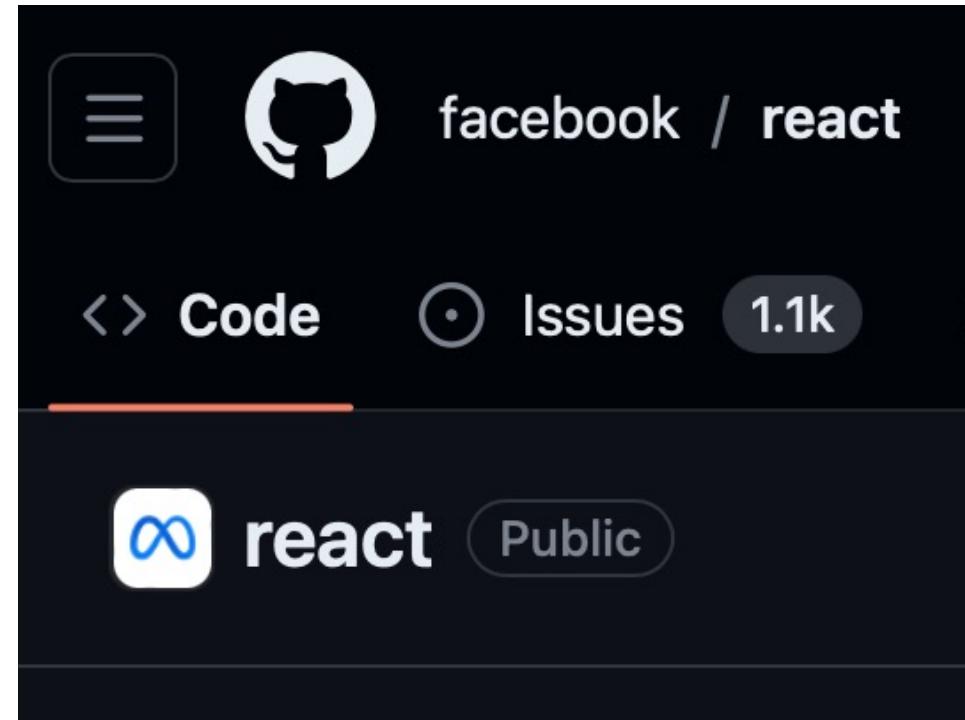


# Mejorar su propio producto open source

- Reciben contribuciones
- Diversas perspectivas



# Prestigio y contrataciones

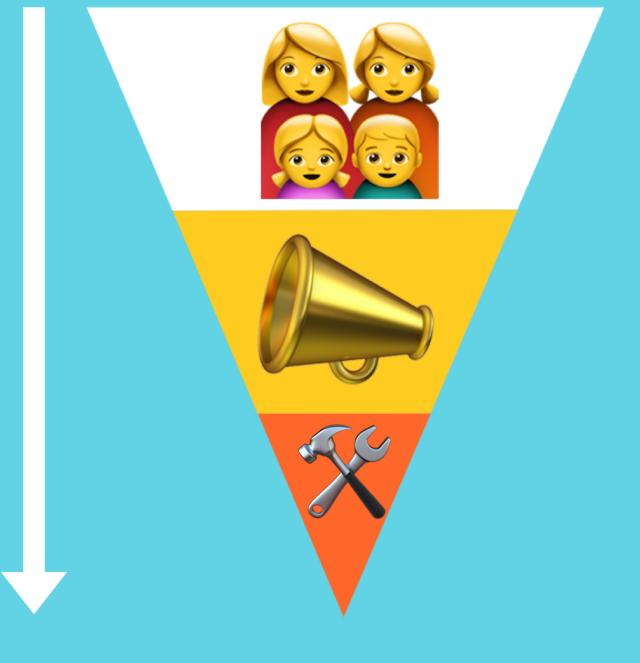


Conseguir  
consumidores,  
p. ej. servicios  
premium

users

contributors

maintainers



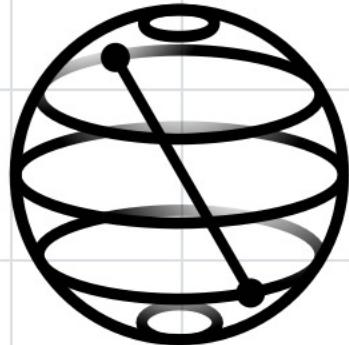
El embudo open source

<https://mikemcquaid.com/the-open-source-contributor-funnel-why-people-dont-contribute-to-your-open-source-project/>

# ¿Por qué debes contribuir a open source?

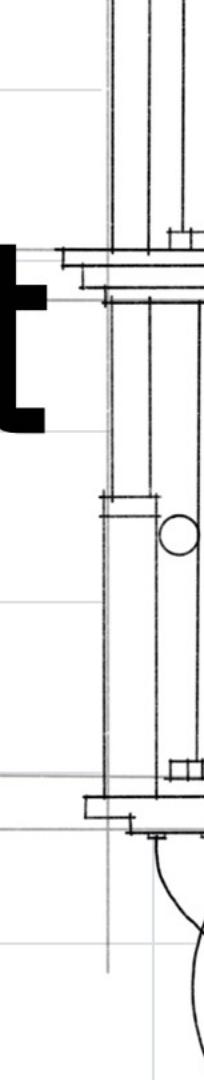
---

# Mejorar algo que usas

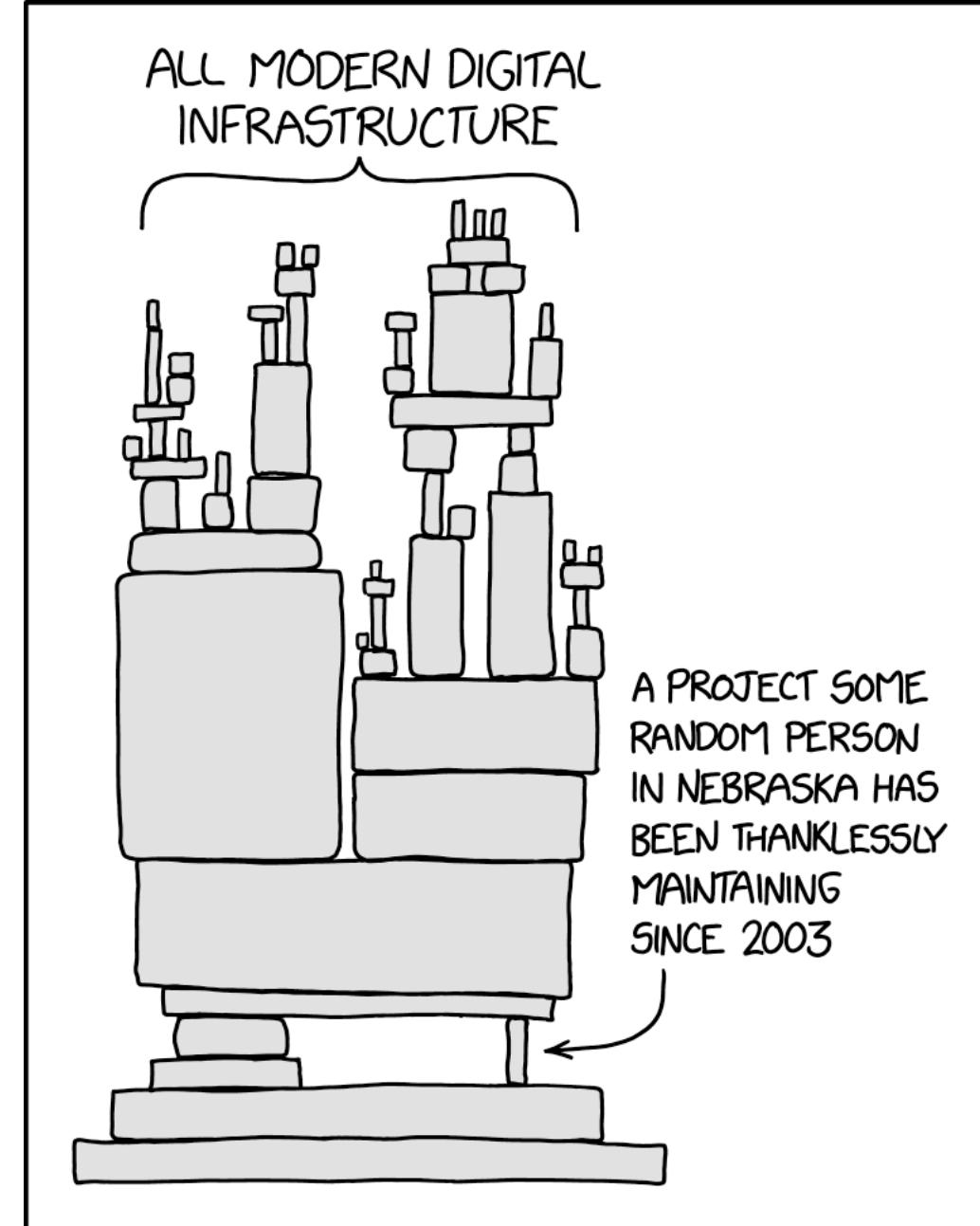


# Qiskit

[kiss-kit] *noun, software*

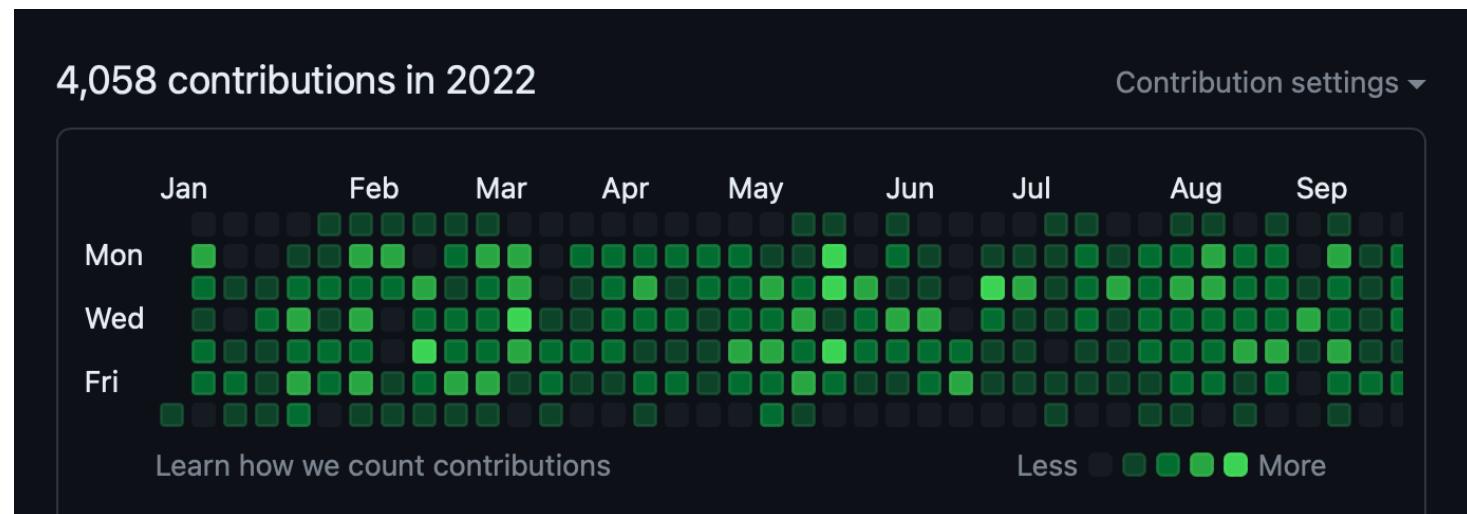
- 
1. open-source toolkit for useful quantum computing.
  2. production-ready circuit compiler.
- 
- A partial quantum circuit diagram is visible on the right side of the slide. It consists of several vertical lines representing qubits, with various quantum gates (represented by small rectangles) placed along them. One gate is clearly labeled with a 'C' (Control) and a 'Z' (Phase) symbol, indicating a CNOT gate. The circuit continues off the edge of the slide.

# Mejorar algo que el mundo usa



# Puede avanzar tu carrera

- Tu curriculum y GitHub
- Aprendizajes
- Networking



# ¿Cómo contribuir a open source?

---

Open  
source =  
trabajar  
en público

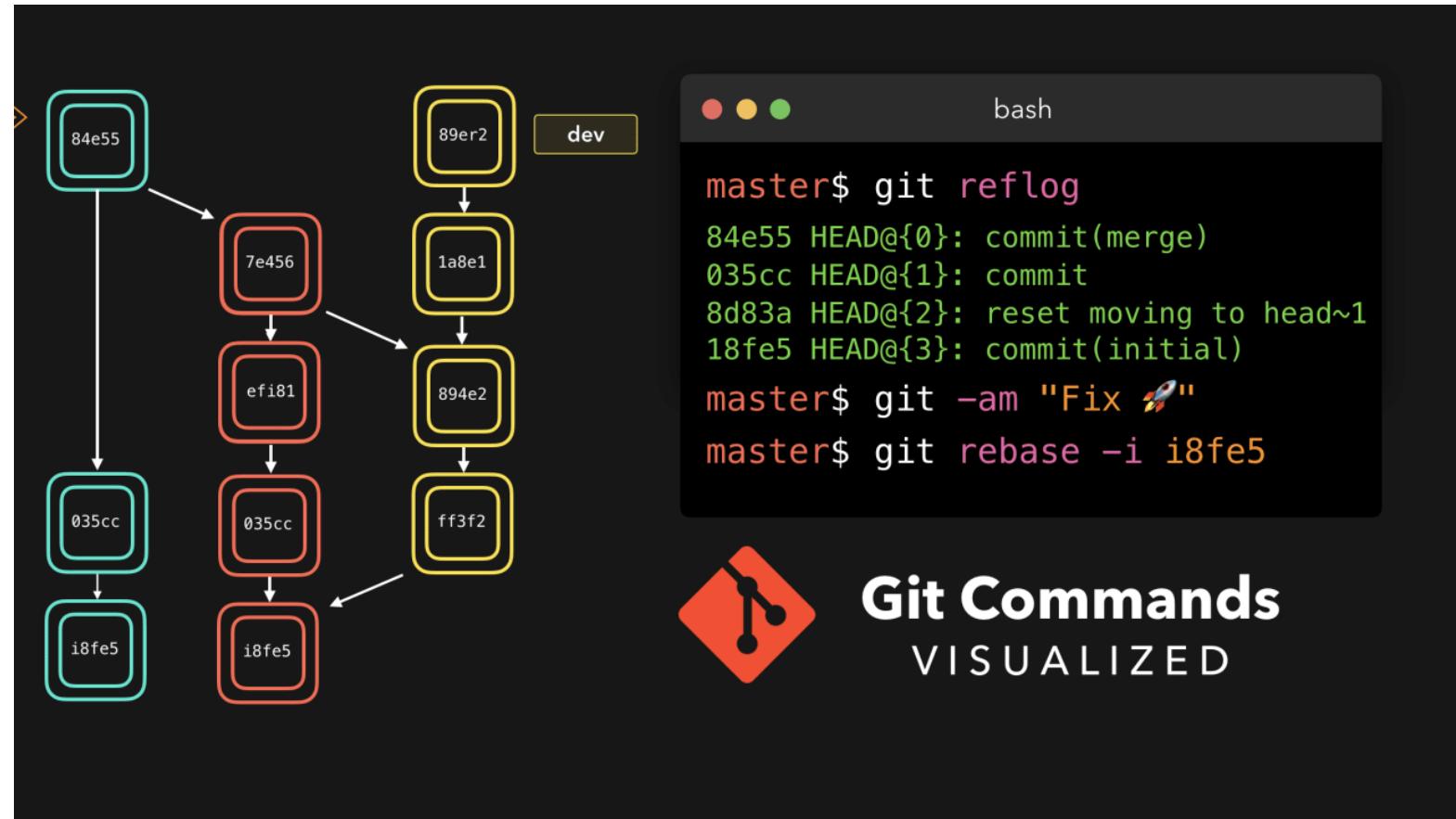


# Sea cortés



- Ten paciencia, incluyendo en horarios no laborales
- “gentle bump” / “suave recordatorio”
- Entiende que muchas colaboradores son voluntaries y faltan recursos – ¡no debes exigir!
- No tengas vergüenza – somos nerds amigables 😎💜

# Paso 0: Aprender Git



**Git Commands**  
VISUALIZED

# Paso 1: Encontrar un proyecto

- Algo que tú usas
- “Call for participation” – listas de proyectos
- Hacktoberfest

## Call for Participation

Always wanted to contribute to open-source projects but did not know where to start? Every week we highlight some tasks from the Rust community for you to pick and get started!

Some of these tasks may also have mentors available, visit the task page for more information.

- pubgrub - Move to edition 2021
- pubgrub - Fix CI for conventional commits
- pubgrub - Rename v0.3 Range into BoundedRange
- pubgrub - `OfflineDependencyProvider` should get its own module
- Ockam - Library - Slim down the `NodeManagerWorker` for `node` / `tcp`
- Ockam - Make `ockam vault delete` (no args) interactive by asking the user to choose from a list of vaults to delete (tuify)
- Ockam - Command - refactor to use typed interfaces to implement commands for `services`

If you are a Rust project owner and are looking for contributors, please submit tasks [here](#).

Rust Weekly

# Paso 2: Leer su guía de contribuciones

README.md

CONTRIBUTING.md

También checa su  
sitio web

CODE\_OF\_CONDUCT.md

LICENSE

## Contributing to Qiskit

Qiskit is an open-source project committed to bringing  
describes how you can join the Qiskit community in this

### Before You Start

If you are new to Qiskit contributing we recommend yo

1. Read the [Code of Conduct](#)

# Paso 3: Escoger una tarea

good first issue

help wanted

The screenshot shows a GitHub search interface with the following details:

- Search Query:** is:open is:issue label:"good first issue"
- Results Summary:** 34 Open, 370 Closed
- Issues List:** A list of 10 open issues, each with a title, a brief description, and labels. Some issues have additional metadata like "opened yesterday" or "opened 2 days ago". Labels include "bug", "good first issue", "performance", "type: feature request", "documentation", and "mod: fake\_provider".
- Filter by label Sidebar:** A modal window titled "Filter by label" containing a "Filter labels" input field and a list of available labels with descriptions:
  - Unlabeled**
  - good first issue** (selected, checked)
  - API** (affects user-facing API change)
  - bug** (Something isn't working)
  - Changelog: API Change** (Include in the "Changed" section of t...)
  - Changelog: Bugfix** (Include in the "Fixed" section of the ...)
  - Changelog: Deprecation** (Include in "Deprecated" section of c...)
- Help Text:** At the bottom of the sidebar, instructions for using keyboard shortcuts: "Use ⌘ + click/return to exclude labels" and "or ⌘ + click/return for logical OR".

# Paso 3: Escoger una tarea

¡Comunícate antes de invertir mucho tiempo!

## Porting to Python 3 #6062

Closed

12 tasks done

Eric-Arellano opened this issue on Jul 2, 2018 · 15 comments



Eric-Arellano commented on Jul 2, 2018 · edited

Member

...

Hello, I'm an intern from Foursquare working with [@mateor](#) and [@iantabolt](#) to migrate internally to Python 3, and one of our blockers is not being able to import Pants within Python 3.

I'm hoping to be able to spearhead migrating Pants to Python 3 that is backwards compatible with 2.7.

### Scope

- Convert source code to Python 3.6+
- Maintain library compatibility with Python 2.7

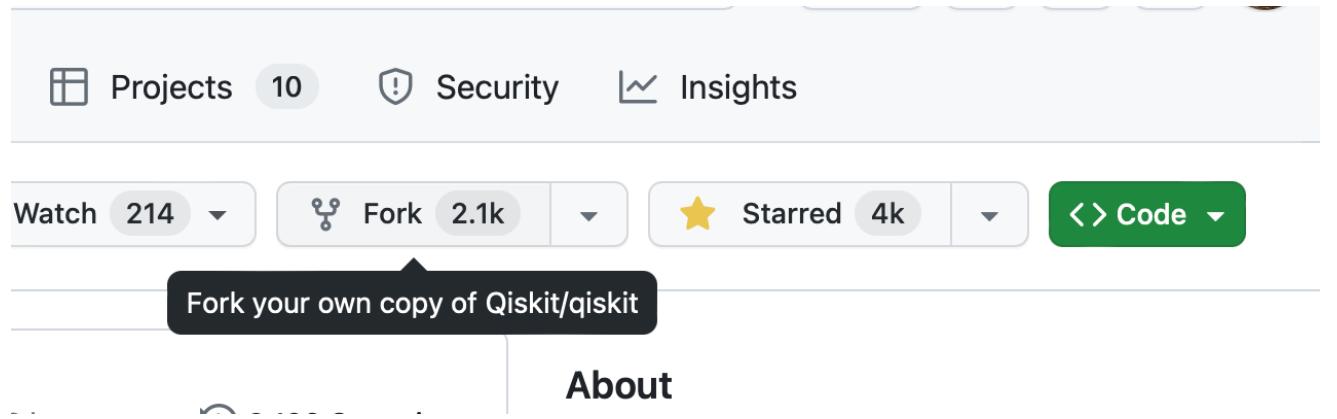
"Attempting to write Python 3 code that's compatible with Python 2 is much more rewarding than the opposite" ([Django authors](#))

### Porting guides

[Official Python guide](#)

[Python-future library](#), tools and imports to maintain interoperable codebase

# Paso 4: Crear un fork



<https://docs.github.com/es/get-started/quickstart/contributing-to-projects>



tox



## Paso 5: Instalar el proyecto

1. `git clone`
2. Sigue su guía de instalación para contribuidores
3. Ejecuta las pruebas y herramientas como linters

# Paso 6: Hacer tu cambio localmente



- 1.Crea una rama de Git
- 2.Haz tu cambio
- 3.Ejecuta las pruebas y herramientas
- 4.git push a tu fork

```
Checking formatting...
All matched files use Prettier code style!
```

# Paso 7: Abrir un PR

Título: resuma el cambio

Descripción:

- Enlace al Issue original
- Incluye detalles relevantes como benchmarks (rendimiento), capturas de pantalla
- Puedes mencionar otras alternativas exploradas

## Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#). [Learn more here](#).

The screenshot shows the GitHub interface for opening a pull request. At the top, there are dropdown menus for 'base: main' and 'compare: kjf/preset-passmanagers'. A green checkmark indicates 'Able to merge. These branches can be automatically merged.' Below this, there are sections for 'Add a title' (containing 'Mejorar el rendimiento del pass manager') and 'Add a description' (containing 'Cierra https://github.com/Qiskit/documentation/issues/278.', 'Antes, `tox -e docs`: 280s', 'Después, `tox -e docs`: 180s', and '## Otras estrategias que probé...'). To the right, there are columns for 'Reviewers' (No reviews—at least 1 app), 'Assignees' (No one—assign yourself), 'Labels' (None yet), 'Projects' (None yet), and 'Milestone' (No milestone).

# Paso 8: Darte un repaso a ti mismo

```
17    17
18 - <Admonition type="note" title="Note">
18 + <Admonition type="note">
```

 **Eric-Arellano** yesterday

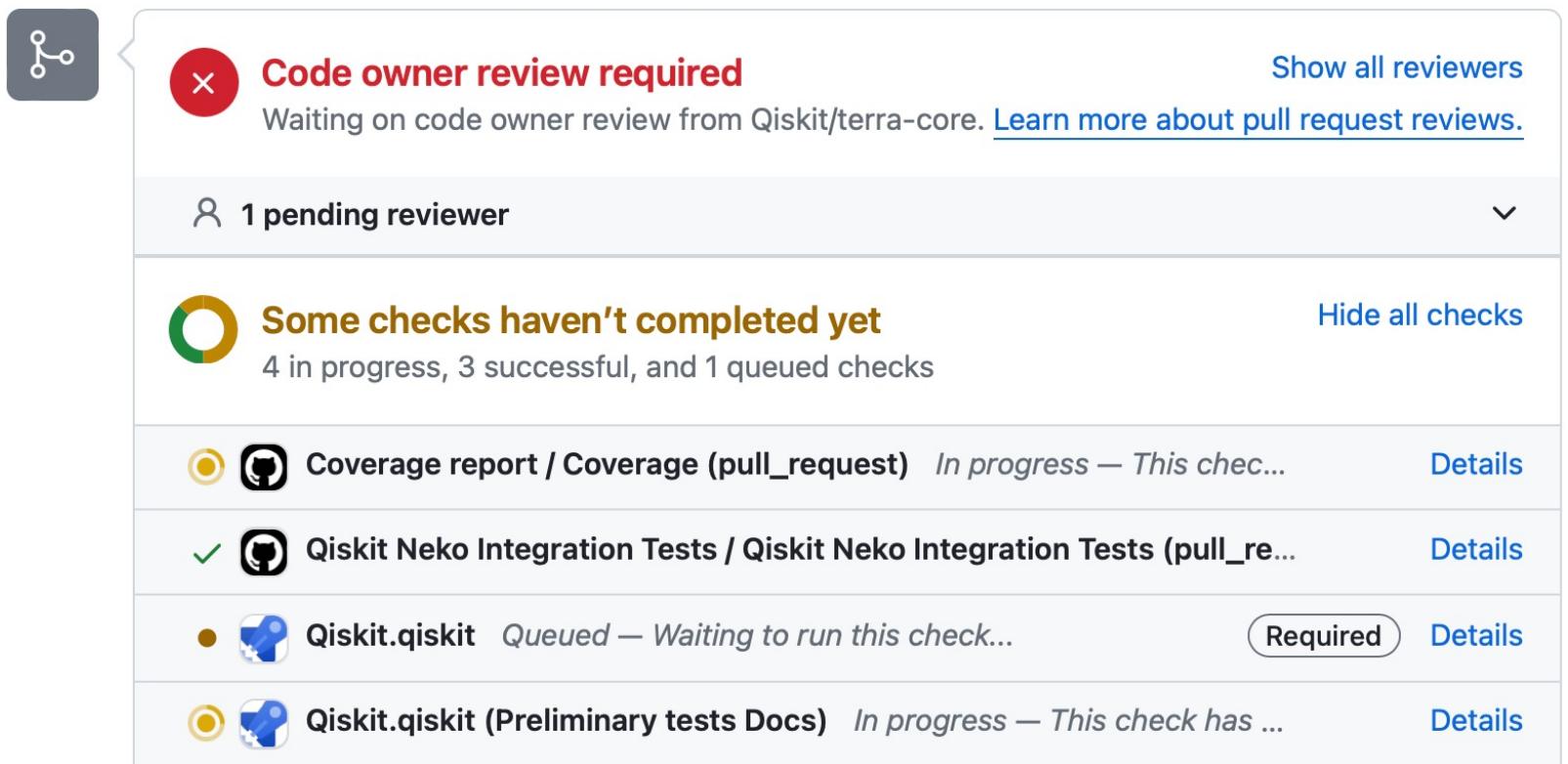
The Admonition type will auto-set the title to this.



# Paso 9: integración continua (IC / CI) y repasos

✓ sigue los consejos de colaboradores (generalmente)

⚠️ pruebas “flaky”: pregúntales si no entiendes algo

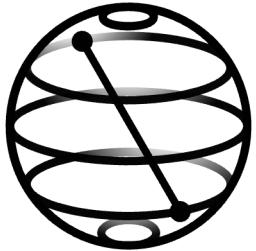


The screenshot shows a GitHub pull request interface. At the top, there's a green checkmark icon followed by the text "sigue los consejos de colaboradores (generalmente)". Below this, there's a yellow warning icon followed by the text "pruebas ‘flaky’: pregúntales si no entiendes algo". To the right, a screenshot of a GitHub pull request review interface is displayed. The interface shows a "Code owner review required" status with a red 'X' icon. It says "Waiting on code owner review from Qiskit/terra-core." and provides a link to "Learn more about pull request reviews.". Below this, it shows "1 pending reviewer". Under "Some checks haven't completed yet", it lists four checks: "Coverage report / Coverage (pull\_request)" (In progress), "Qiskit Neko Integration Tests / Qiskit Neko Integration Tests (pull\_request)" (Successful), "Qiskit.qiskit" (Queued), and "Qiskit.qiskit (Preliminary tests Docs)" (In progress). There are "Details" and "Required" buttons next to some of the check entries.

# Paso 10: Merge



- Un colaborador tendrá que hacerlo
- ¿Cómo usar tu nuevo cambio?
  - Esperar, o
  - Instalación de fuente



# Qiskit | Ecosystem

- [Qiskit/qiskit](#): el compilador
- [Qiskit/documentation](#): [docs.quantum-computing.ibm.com](https://docs.quantum-computing.ibm.com)
- [qiskit.org/ecosystem](#)
- [qiskit-community/qiskit-translations](#)