



escuela técnica superior
de ingeniería informática

Gestión del código fuente e Integración Continua

*Departamento de
Lenguajes y Sistemas Informáticos*

**Evolución y gestión de la configuración
4º Grado en Ingeniería Informática -
Ingeniería del Software**

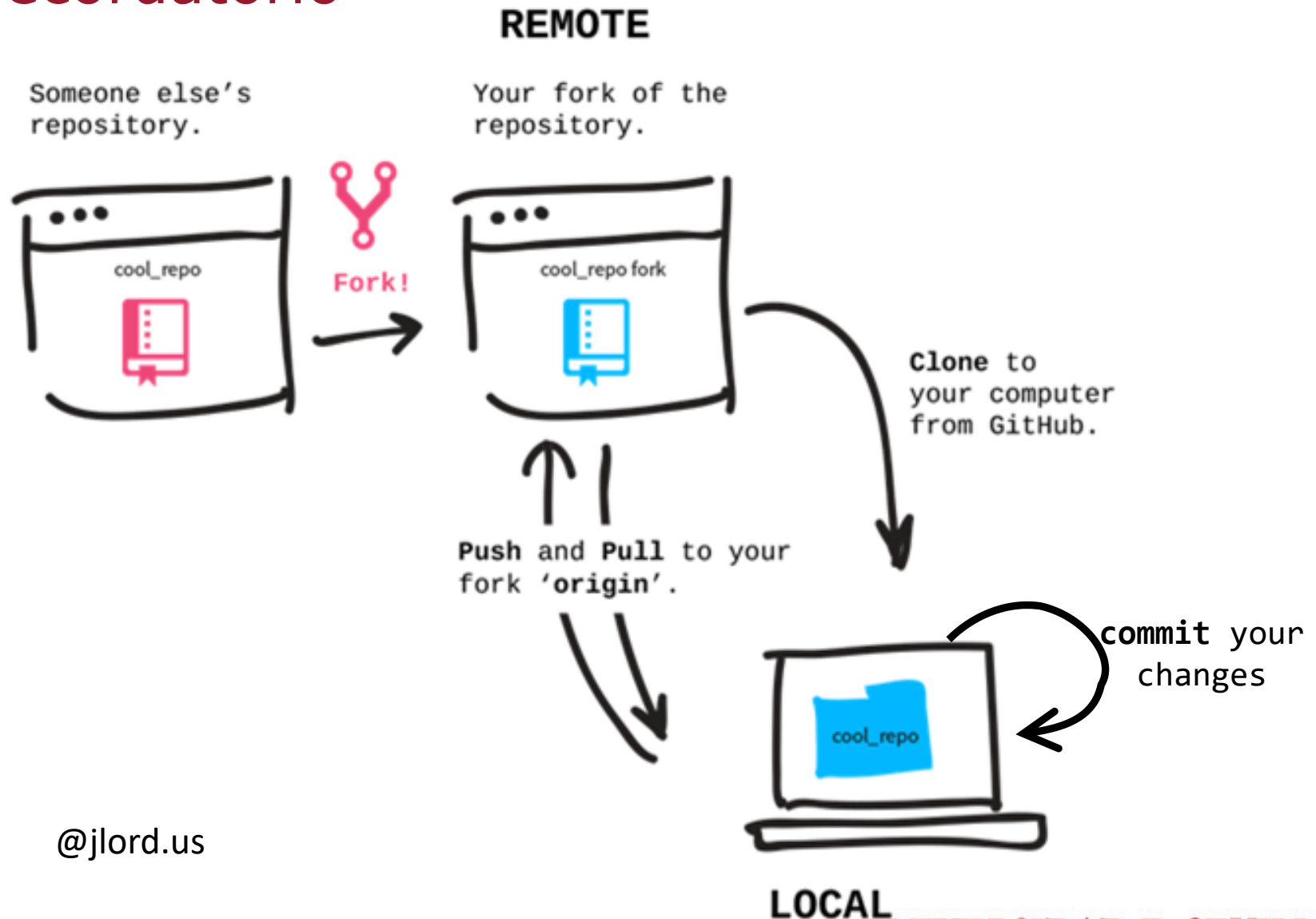
UNIVERSIDAD DE SEVILLA

Índice

- Casos de uso para la gestión del código fuente
- Integración continua:
 - Github Actions
 - Codacy

Gestión del código fuente

Un recordatorio



@jlord.us

My git commit messages!

```
git log --graph --oneline
```

	COMMENT	DATE
○	CREATED MAIN LOOP & TIMING CONTROL	14 HOURS AGO
○	ENABLED CONFIG FILE PARSING	9 HOURS AGO
○	MISC BUGFIXES	5 HOURS AGO
○	CODE ADDITIONS/EDITS	4 HOURS AGO
○	MORE CODE	4 HOURS AGO
○	HERE HAVE CODE	4 HOURS AGO
○	AAAAAAAAA	3 HOURS AGO
○	ADKFJSLKDFJSDKLFJ	3 HOURS AGO
○	MY HANDS ARE TYPING WORDS	2 HOURS AGO
○	HAAAAAAAAAANDS	2 HOURS AGO

AS A PROJECT DRAGS ON, MY GIT COMMIT MESSAGES GET LESS AND LESS INFORMATIVE.

Porqué es importante

jagalindo / SPLIT-crawler

Unwatch 1 Unstar 1 Fork 0

Code Issues 3 Pull requests 0 Projects 0 Wiki Security Insights Settings

Branch: master

Commits on Nov 4, 2019

Travis built jagalindo committed 5 days ago ✖	6b9cabf	<>
Update .travis.yml jagalindo committed 5 days ago ✖	Verified 9e6872d	<>
Update .travis.yml jagalindo committed 5 days ago ✖	Verified b2cf41c	<>
uploading new found files automatically Unknown authored and Unknown committed 5 days ago ✖	6c2046e	<>
uploading new found files automatically Unknown authored and Unknown committed 5 days ago ✖	8643283	<>
uploading new found files automatically Unknown authored and Unknown committed 5 days ago ✖	3af1cf9	<>
uploading new found files automatically Unknown authored and Unknown committed 5 days ago ✖	2fb49fb	<>
uploading new found files automatically Unknown authored and Unknown committed 5 days ago ✖	4bf9d57	<>
uploading new found files automatically Unknown authored and Unknown committed 5 days ago ✖	85597cc	<>
uploading new found files automatically Unknown authored and Unknown committed 5 days ago	76a9875	<>
uploading new found files automatically Unknown authored and Unknown committed 5 days ago ✖	6c63ad5	<>

Porqué es importante

torvalds / linux

Watch

6.8k

Star

82.4k

Fork

28.9k

Code

Pull requests 299

Projects 0


Security

Insights

Branch: master

Commits on Nov 7, 2019

Merge branch 'for-linux' of git://git.kernel.org/pub/scm/linux/kernel... [...](#)

 torvalds committed 21 hours ago



847120f



Commits on Nov 6, 2019

HID: wacom: generic: Treat serial number and related fields as unsigned [...](#)

 jigpu authored and Jiri Kosina committed 2 days ago



ff47973



Merge branch 'akpm' (patches from Andrew) [...](#)

 torvalds committed 2 days ago



4dd5815



mm: memcontrol: fix network errors from failing __GFP_ATOMIC charges [...](#)


 hnaz authored and torvalds committed 2 days ago



869712f



mm/memory_hotplug: fix updating the node span [...](#)

 davidhildenbrand authored and torvalds committed 2 days ago



656d571



scripts/gdb: fix debugging modules compiled with hot/cold partitioning [...](#)


 iii-i authored and torvalds committed 2 days ago



8731acc



mm: slab: make page_cgroup_ino() to recognize non-compound slab pages... [...](#)


 rgushchin authored and torvalds committed 2 days ago



221ec5c



MAINTAINERS: update information for "MEMORY MANAGEMENT" [...](#)


 liu-song-6 authored and torvalds committed 2 days ago



6981b76



dump_stack: avoid the livelock of the dump_lock [...](#)


 haokexin authored and torvalds committed 2 days ago



5cbf2ff



zswap: add Vitaly to the maintainers list [...](#)

 vwool authored and torvalds committed 2 days ago



a316313



mm/page_alloc.c: ratelimit allocation failure warnings more aggressively [...](#)

 hnaz authored and torvalds committed 2 days ago



1be334e



mm/khugepaged: fix might_sleep() warn with CONFIG_HIGHPT=y [...](#)



ec649c9



Las siete reglas de un gran mensaje de commit de git

- .Separa el título del cuerpo con una línea en blanco
- .Limita título a 50 caracteres
- .Capitaliza el título
- .No termines el título con un punto
- .Utiliza el modo imperativo en el título
- .Limita el cuerpo a 72 caracteres
- .Utiliza el cuerpo para explicar qué y por qué vs cómo

<https://gist.github.com/robertpainsi/b632364184e70900af4ab688decf6f53>

https://mirrors.edge.kernel.org/pub/software/scm/git/docs/git-commit.html#_discussion

Una posible convención de mensajes

The reasons for these conventions:

- automatic generating of the changelog
- simple navigation through git history (eg. ignoring style changes)

Format of the commit message:

```
<type>(<scope>): <subject>  
  
<body>  
  
<footer>
```

Message subject (first line)

First line cannot be longer than 70 characters, second line is always blank and other lines should be wrapped at 80 characters.

Allowed `<type>` values:

- **feat** (new feature)
- **fix** (bug fix)
- **docs** (changes to documentation)
- **style** (formatting, missing semi colons, etc; no code change)
- **refactor** (refactoring production code)
- **test** (adding missing tests, refactoring tests; no production code change)
- **chore** (updating grunt tasks etc; no production code change)

Example `<scope>` values:

- init

<http://karma-runner.github.io/0.10/dev/git-commit-msg.html>

¡Podemos usar plantillas!

Podemos crear una plantilla en un fichero `.txt` para que git lo use como mensaje inicial cuando realizamos un commit. Esto es útil para no olvidarnos durante el Desarrollo sobre cómo hacer un buen mensaje de commit que este de acuerdo a las normas del grupo.

Por ejemplo, Podemos escribir la plantilla en `~/.gitmessage.txt` que indique lo siguiente:

- Subject line (try to keep under 50 characters)

- Multi-line description of commit,

- feel free to be detailed.

- [Ticket: X]

- Note how this commit template reminds the committer to keep the subject line short (for the sake of `git log --oneline` output), to add further detail under that, and to refer to an issue or bug tracker ticket number if one exists.

- To tell Git to use it as the default message that appears in your editor when you run `git commit`, set the `commit.template` configuration value:

```
$ git config --global commit.template ~/.gitmessage.txt
```

```
$ git commit
```

Además de los ejercicios de la wiki

<https://stackoverflow.com/questions/tagged/git?tab=Votes>

7213

votes

41

answers

5.4m views

How do I revert a Git repository to a previous commit?

How do I revert from my current state to a snapshot made on a certain commit? If I do git log, then I get the following output: `$ git log commit a867b4af366350be2e7c21b8de9cc6504678a61b` Author: Me &...`

git

git-checkout

git-reset

git-revert

asked Nov 6 '10 at 16:58



Crazy Serb

35.6k ● 6 ● 30 ● 43

4818

votes

24

answers

1.1m views

How to make Git "forget" about a file that was tracked but is now in .gitignore?

There is a file that was being tracked by git, but now the file is on the .gitignore list. However, that file keeps showing up in git status after it's edited. How do you force git to completely ...

git

gitignore

git-rm

asked Aug 13 '09 at 19:23



Ivan

31k ● 15 ● 44 ● 53

640

votes

16

answers

218k views

How to remove/delete a large file from commit history in Git repository?

Occasionally I dropped a DVD-rip into a website project, then carelessly git commit -a -m ..., and, zap, the repo was bloated by 2.2 gigs. Next time I made some edits, deleted the video file, and ...

git

version-control

git-rebase

git-rewrite-history

asked Jan 20 '10 at 11:18



culebrón

15.7k ● 16 ● 59 ● 88

20239

votes

81

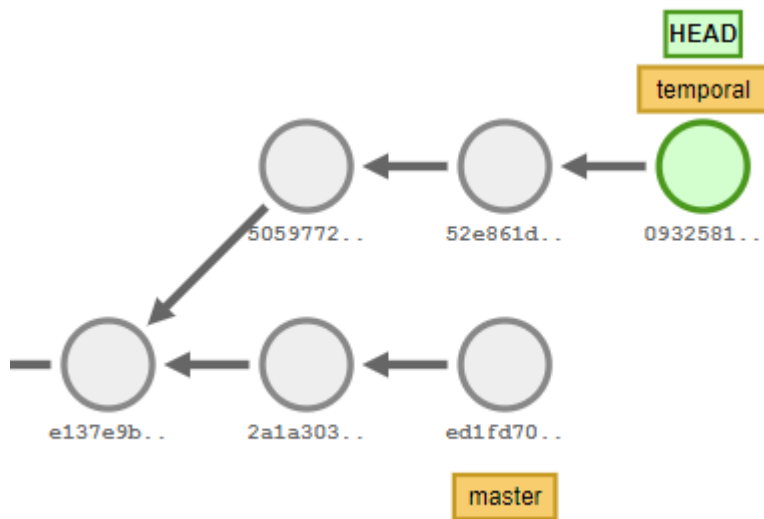
How do I undo the most recent local commits in Git?

I accidentally committed the wrong files to Git, but I haven't pushed the commit to the server yet. How can I undo those commits from the local repository?

Casos de Uso en GIT. 1

Tenemos una rama local pendiente de integrar en master antes de hacer push ¿Cómo lo integras en master?

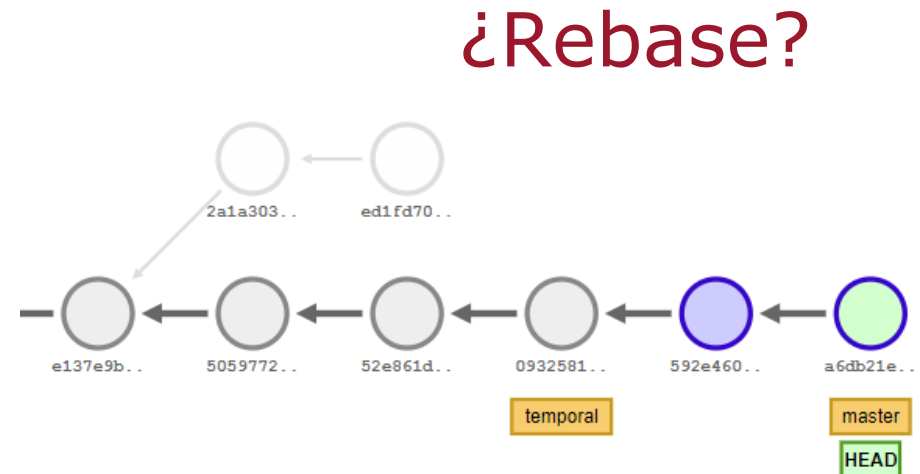
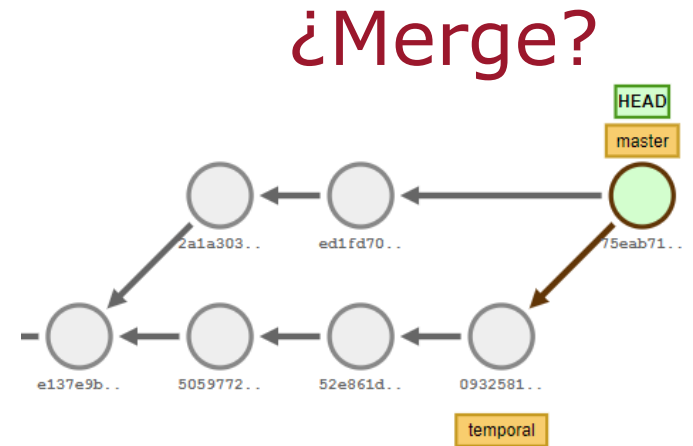
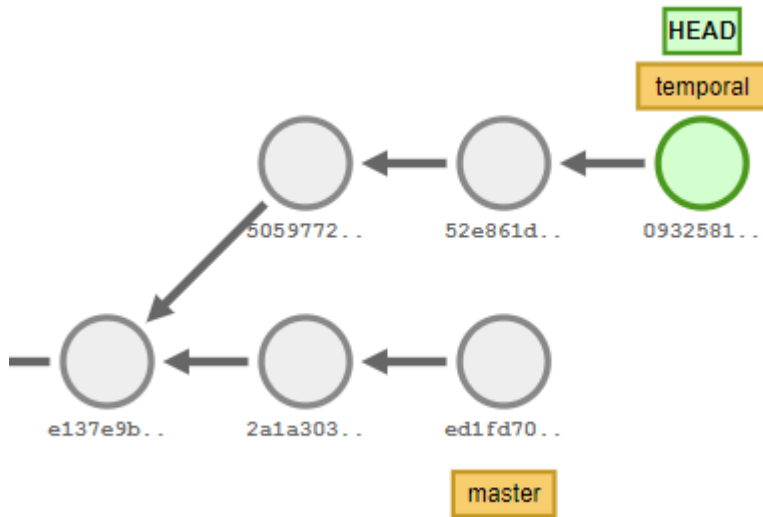
¿Merge?



¿Rebase?

Casos de Uso en GIT. 1

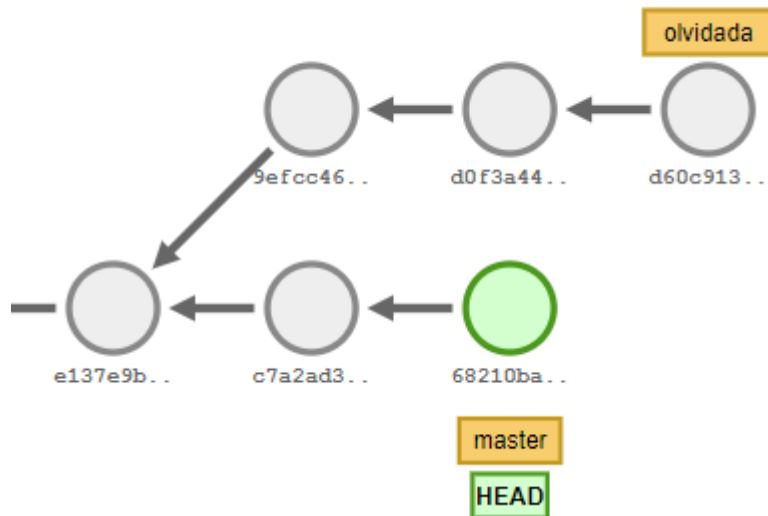
Tenemos una rama local pendiente de integrar en master antes de hacer push ¿Cómo lo integras en master?



Casos de Uso en GIT. 2

Hay una rama con varios commits, ninguno te interesa salvo uno, por ejemplo, que cambia BASEURL. ¿Cómo te traes sólo ese cambio a la rama master?

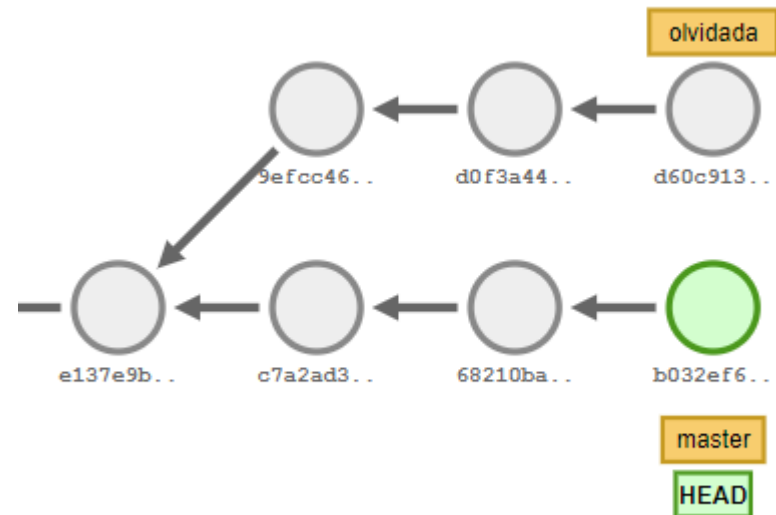
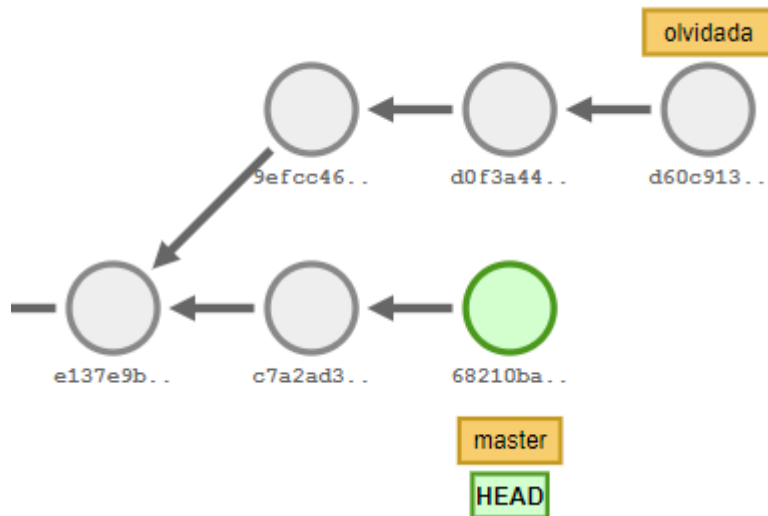
¿cherry-pick?



Casos de Uso en GIT. 2

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¿cherry-pick?



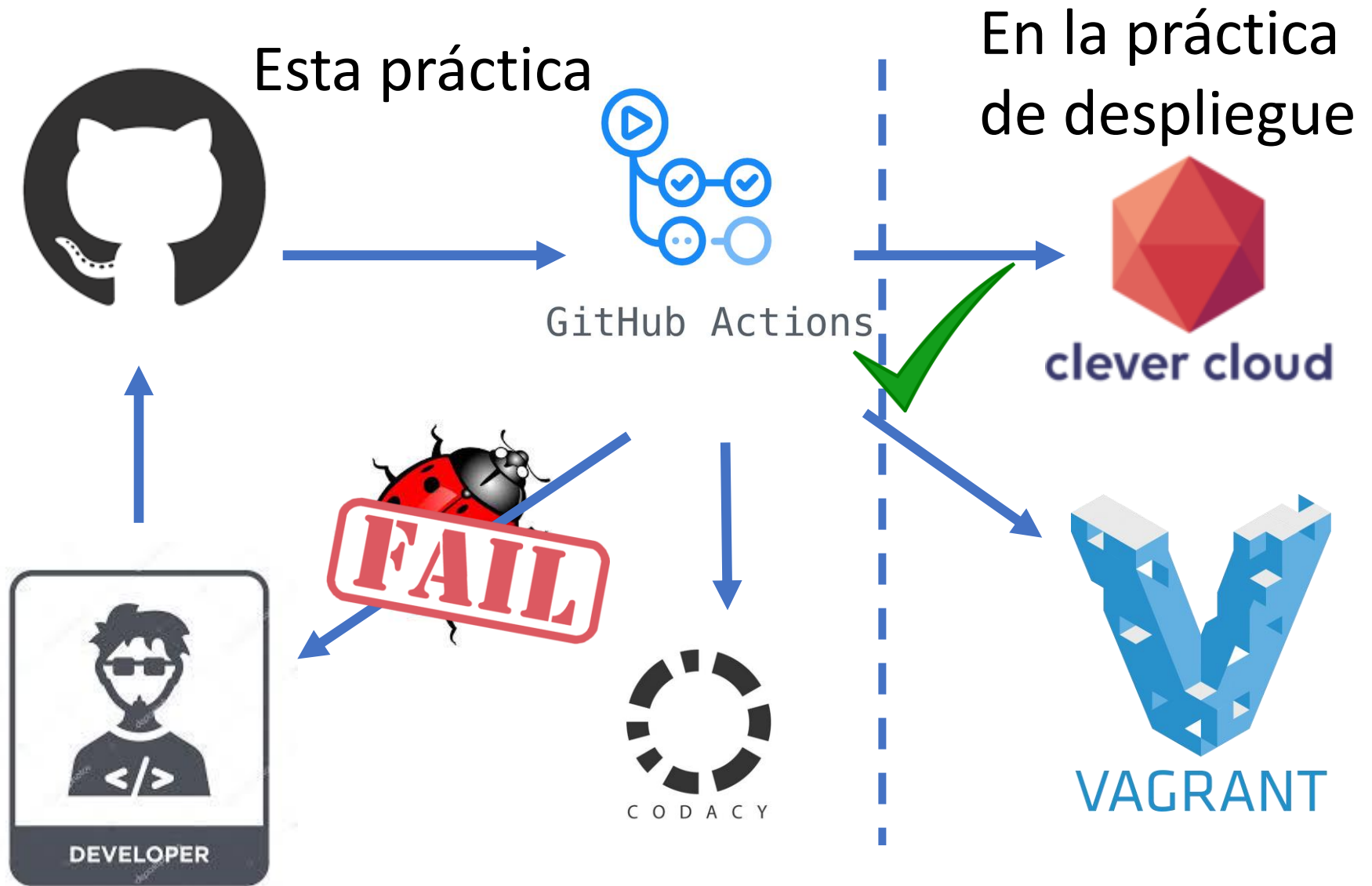
Que es la integración continua



In [software engineering](#), **continuous integration (CI)** is the practice of merging all developers' working copies to a shared [mainline](#) several times a day.

[Grady Booch](#)

Integración continua con TRAVIS-CI





Análisis de código con Codacy

The screenshot displays the Codacy interface for a repository named 'decide_2'. At the top, there is a navigation bar with 'My Repositories' and 'decide'. A notification banner states: "Seems like there are some contributions to this repository not being analyzed because these users don't belong to an organization. [Learn how to work with organizations](#)".

The repository name 'decide_2' is shown with a 'master' branch. There are 'Badge' and 'Share' buttons. Below this is the 'Repository certification' section, which includes a 'Quality evolution' chart. The chart shows four metrics: Issues (71%), Complex Files (2%), Duplicated code (7%), and Coverage (86%). The chart also includes a legend for 'Trend for the next 31 days', 'Pull request prediction', and 'Quality standard'. The x-axis represents 'Days' from 25 to 26, and the y-axis represents percentage from 0 to 80.

On the right side, there is a 'Hotspots' section with an illustration of a volcano and the text: "All calm for now! Hotspots help you know where to focus next. [Learn more about hotspots here](#)". Below this is a 'Logs' section.

The left sidebar contains navigation options: Dashboard, Commits, Files, Issues, Pull Requests, Security, Code patterns, and Settings.



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