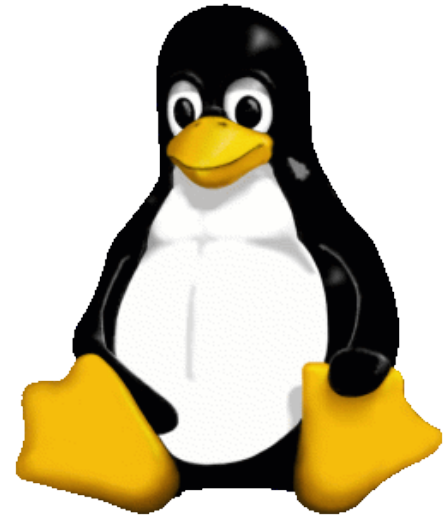# Yes, you can become a Linux Kernel developer!

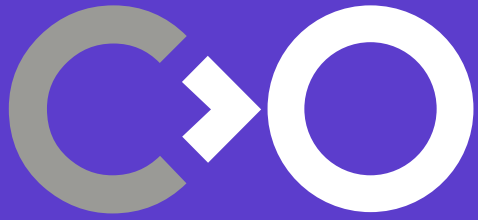**Buzzconf 2018 – Ezequiel Garcia**
ezequiel@collabora.com

Por qué hablar del kernel?

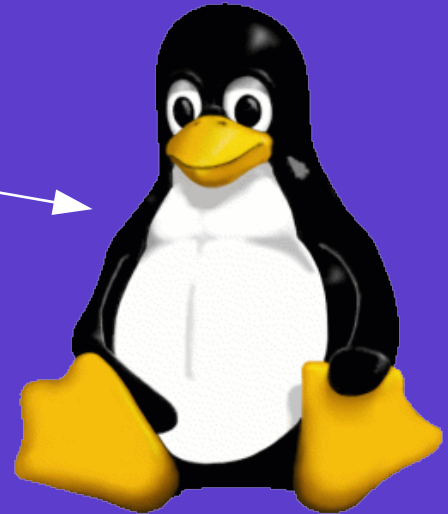# Por qué hablar del Open Source?

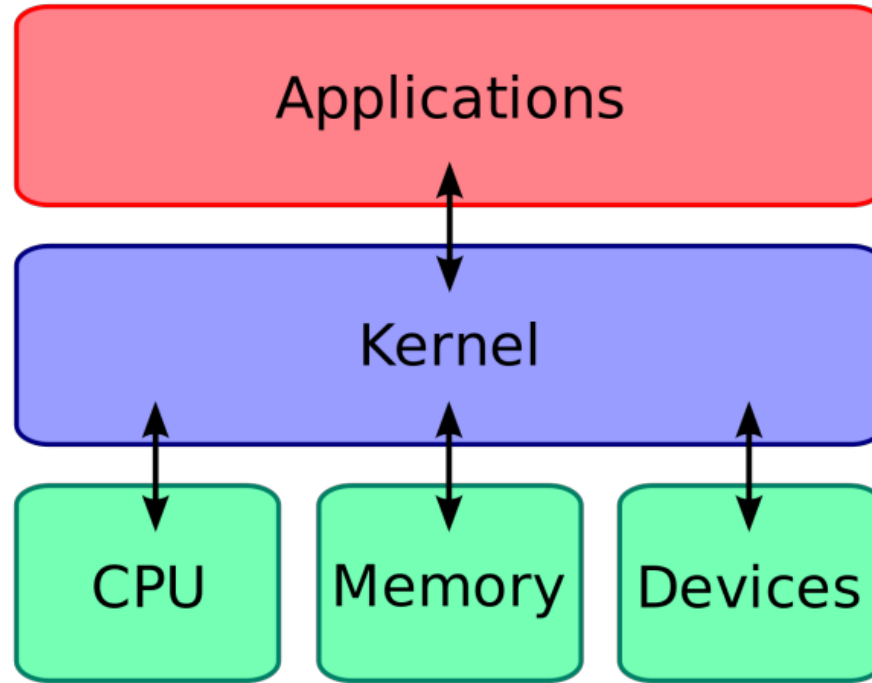COLLABORA

git log --author=Ezequiel

...   ...

Qué es Linux Kernel?

Qué es Linux Kernel?

© 2007-2009 Constantine Shulyupin http://www.MakeLinux.net/kernel/diagram
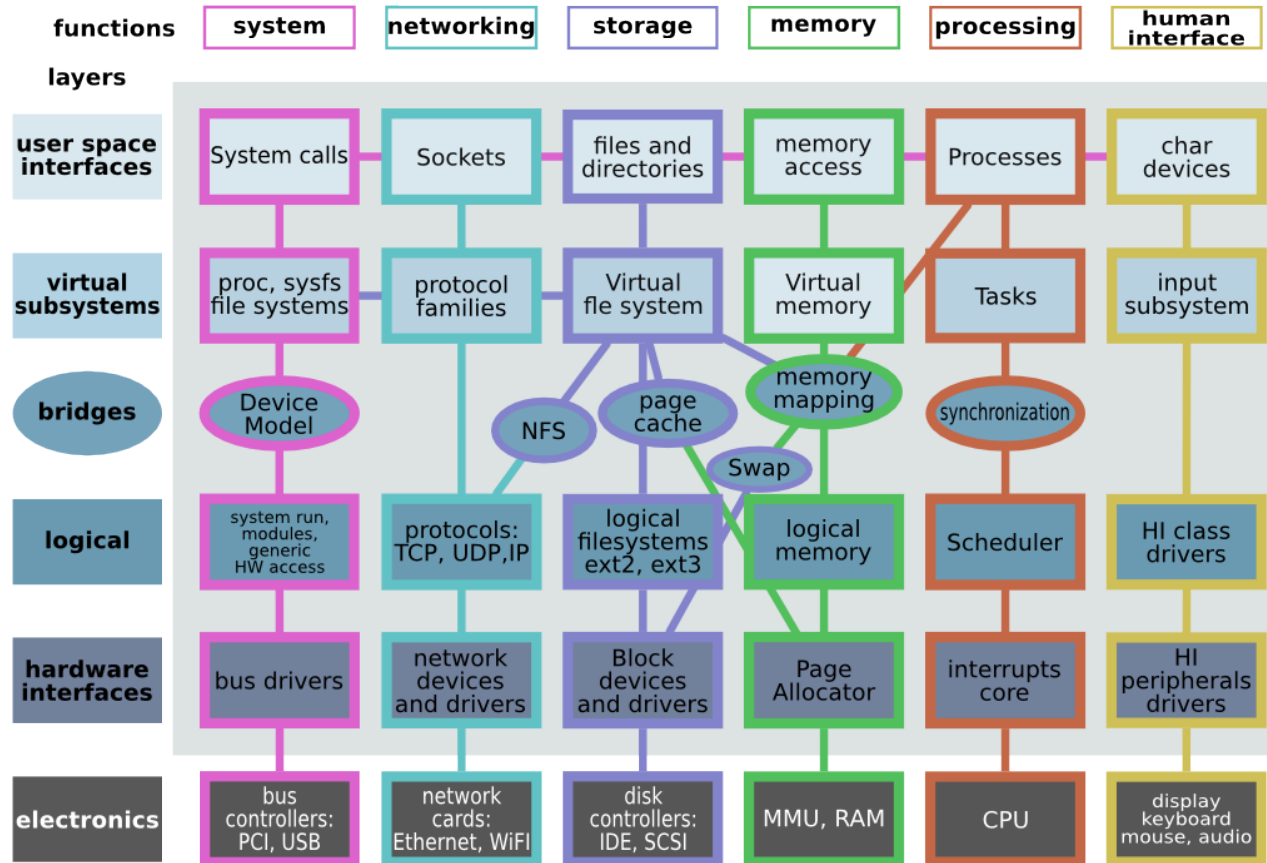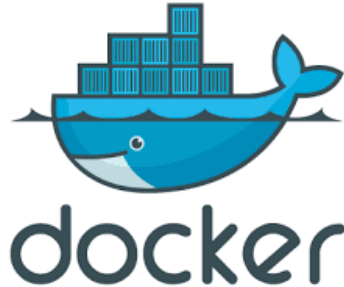
Free Open Source Software

Free
Open
Source
Software

Freedom
La libertad de usar, modificar y redistribuir las mejoras.

https://es.**wikipedia**.org/wiki/Software_libre#Las_cuatro_libertades_del_software_libre

Modelos de negocios
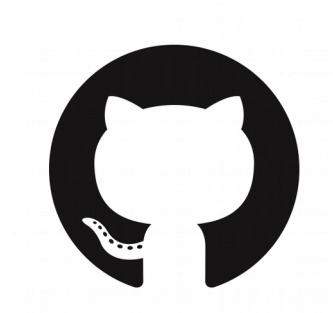
Linux Kernel

- Tamaño del kernel
- Tasa de cambio
- Qué es un parche
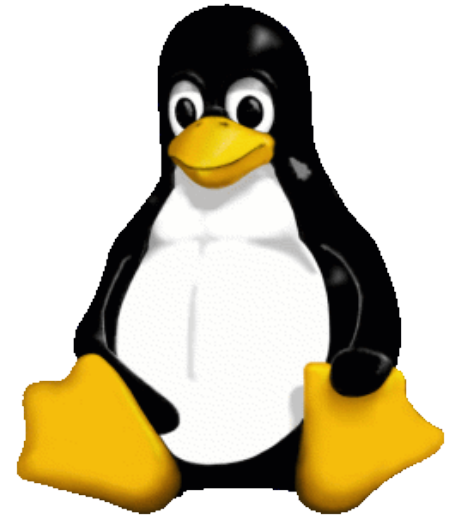
Linux Kernel. Tamaño.

Linux 4.13

- 1,681 .... **Developers**
- 225 .... **Companies**
- 24,766,703 .... **Lines of Code**

https://www.linuxfoundation.org/2017-linux-kernel-report-landing-page/

Linux Kernel. Cambios (commits) por hora.

4.8 .... 7.97
4.9 .... 9.65
4.10 .... 7.63
4.11 .... 7.57
4.12 .... 9.64
4.13 .... 8.52

Linux Kernel. Cómo se cocina?

- Parches incrementales
- Reglas claras
- Ciclo de release regular

Linux Kernel. Cómo se cocina?

- **Parches incrementales**
- Reglas claras
- Ciclo de release regular

commit **da779513d33575fc43a9ae87a95af6b4354cebaa**
Author: Geert Uytterhoeven <geert+renesas@glider.be>
Date: Wed Mar 21 09:07:23 2018 +0100

spi: sh-msiof: Use correct enum for DMA transfer direction

Use enum dma_transfer_direction as required by
dmaengine_prep_slave_sg() instead of enum dma_data_direction.
 This won't change behavior in practice as the enum values
are equivalent.

[..]

Signed-off-by: Geert Uytterhoeven <geert+renesas@glider.be>
Reviewed-by: Stefan Agner <stefan@agner.ch>
Signed-off-by: Mark Brown <broonie@kernel.org>

Tienes un e-mail.

Linux Kernel. Cómo se cocina?

- Parches incrementales
- **Ciclo de release regular**
- Reglas claras

Linux Kernel. Releases regulares.

- 4.8   2016-10-02   70 días
- 4.9   2016-12-11   70
- 4.10   2017-02-19   70
- 4.11   2017-04-30   70
- 4.12   2017-07-02   63
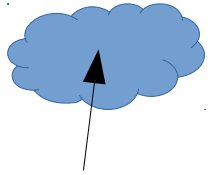- 4.13   2017-09-03   63

Linux Kernel. Releases regulares

Charlas de Greg Kroah-Hartman

- Linux Kernel Development, Git Merge 2016
- Linux Kernel release model Kernel Recipes 2017
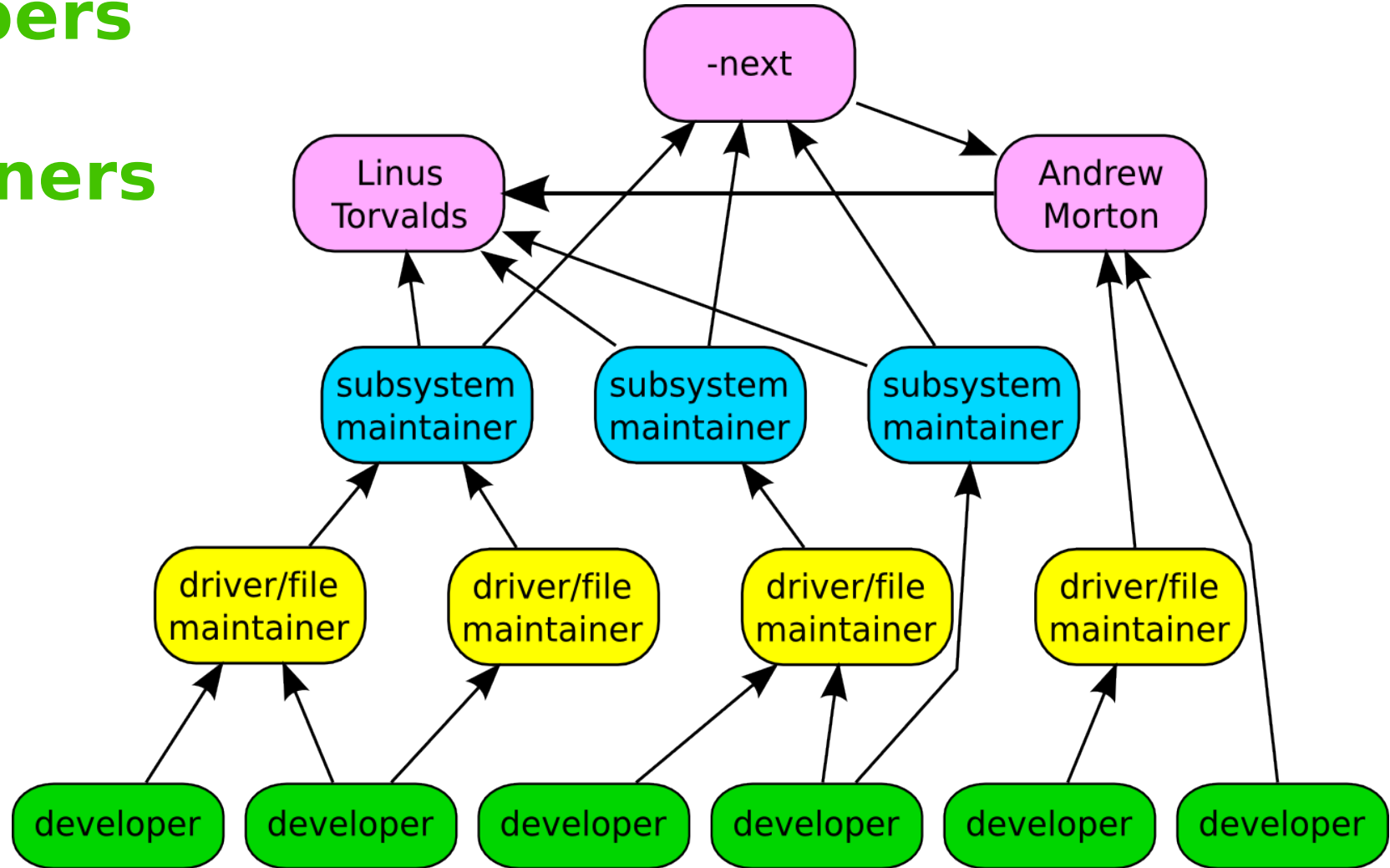
Linux Kernel. Reglas claras.

Working with the kernel development community

So you want to be a Linux kernel developer? Welcome! While there is a lot to be learned about the kernel in a technical sense, it is also important to learn about **how our community works**. Reading these documents will make it much easier for you to get your changes merged with a minimum of trouble.
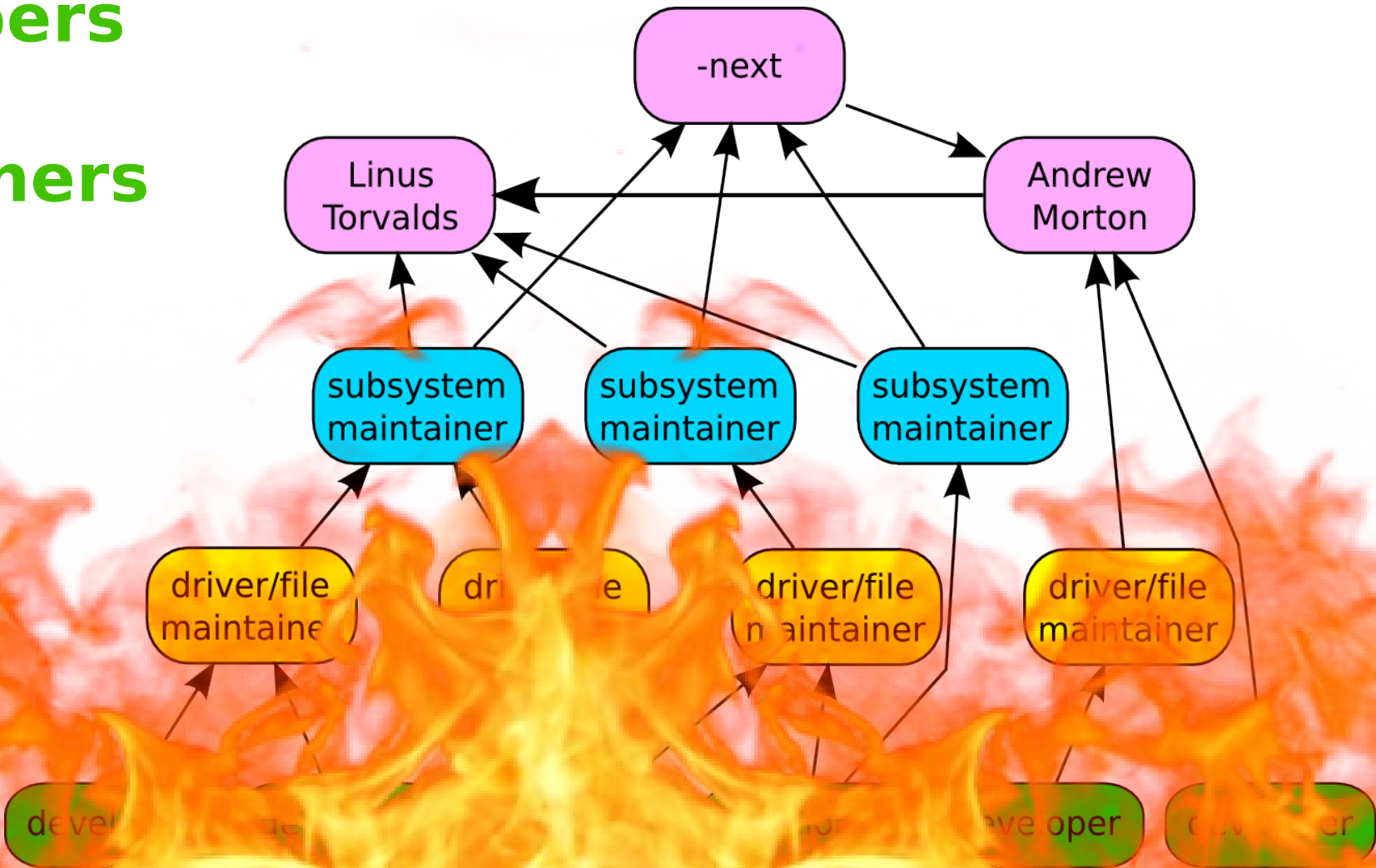
Below are the essential guides that every developer should read.

 [..]

Developers & Maintainers

-next

Linus Torvalds

Andrew Morton

subsystem maintainer

subsystem maintainer

subsystem maintainer

driver/file maintainer

driver/file maintainer

driver/file maintainer

driver/file maintainer

developer

developer

developer

developer

developer

developer

Developers & Maintainers

Por qué participar del kernel?

Por qué participar del open source?

- Crecimiento profesional
- Visibilidad
- Desarrollo de *soft-skills*

El stack de software es

MUY alto.

Hay mucho más que Linux Kernel.

¿Preguntas? ezequiel@collabora.com