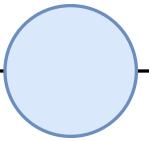


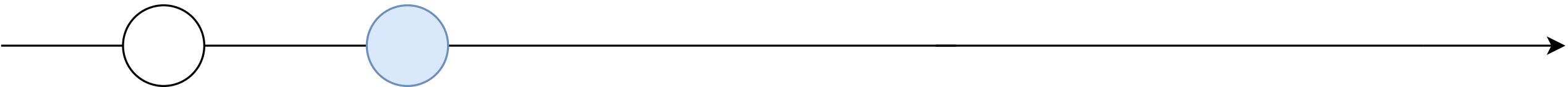
Cargo ou comment étendre le tooling Rust à l'infini !

Un peu d'histoire

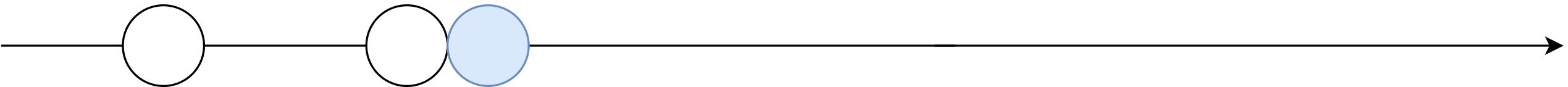




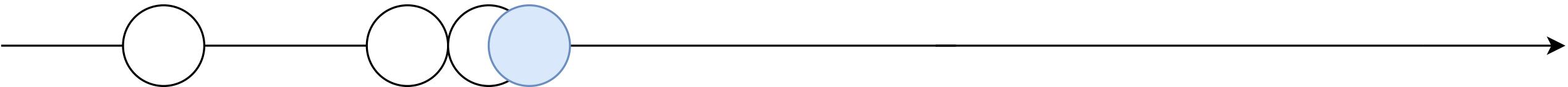
2006 : Cr ation de Rust



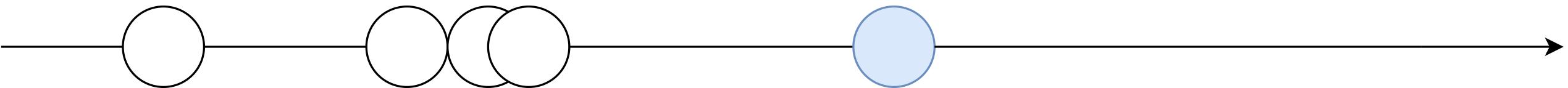
2009 : Mozilla s'intéresse à Rust



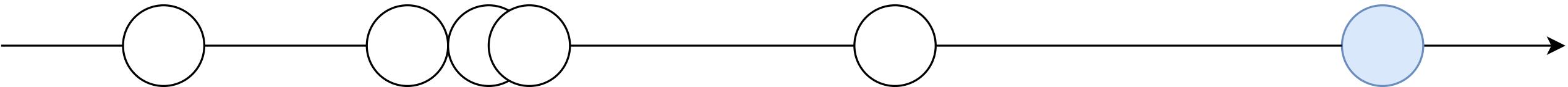
2010 : Mozilla annonce au Rust



2010 : Rust devient auto-hébergé

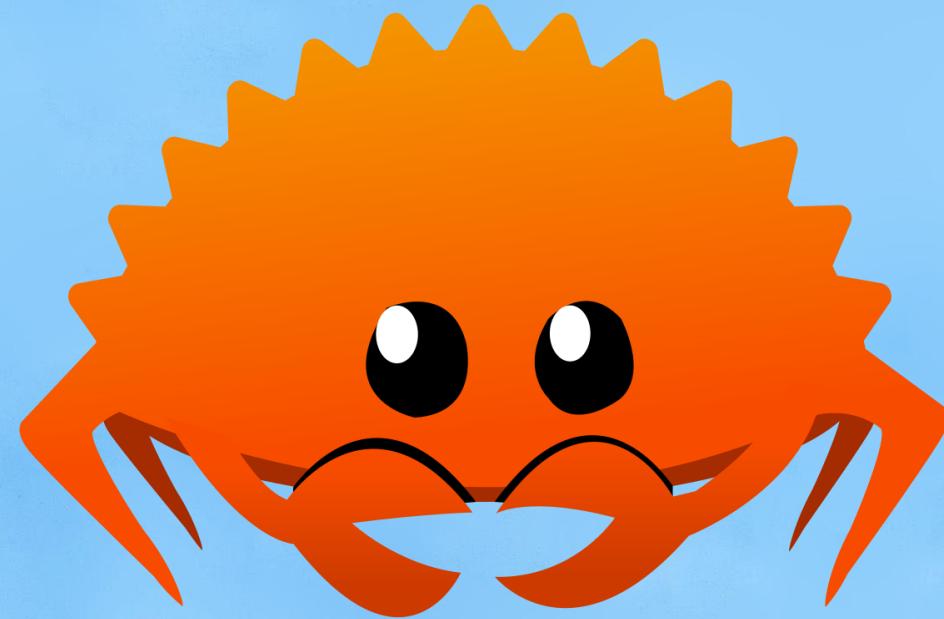


2015 : version 1.0.0 de Rust



2021 : ouverture de la Rust Foundation

Rustaceans (like Crustacean but with some Rust)





Rust un langage moderne



Performant



Fiable

Productif





Hello, world!

mais aussi...

```
if foo == "SFEIR" {
    // do something
}

for i in 0..10 {
    // do something
}
```

```
const check: u8 = if foo == "SFEIR" {
    1
} else {
    0
};
```

```
type City = String;
type Year = u16;

enum Conf {
    Devfest(City, Year),
    Devoxx(Year),
    None,
}
```

```
fn match_conf(conf: Conf) -> String {
    match conf {
        Devfest(city, year) => format!("Devfest {} {}", city, year),
        Devoxx(year @ 2020..) => format!("Devoxx {}", year),
        Devoxx(year) => format!("Devoxx {}", year),
        None => format!("-")
    }
}
```

Et encore beaucoup d'autres points...

Tooling

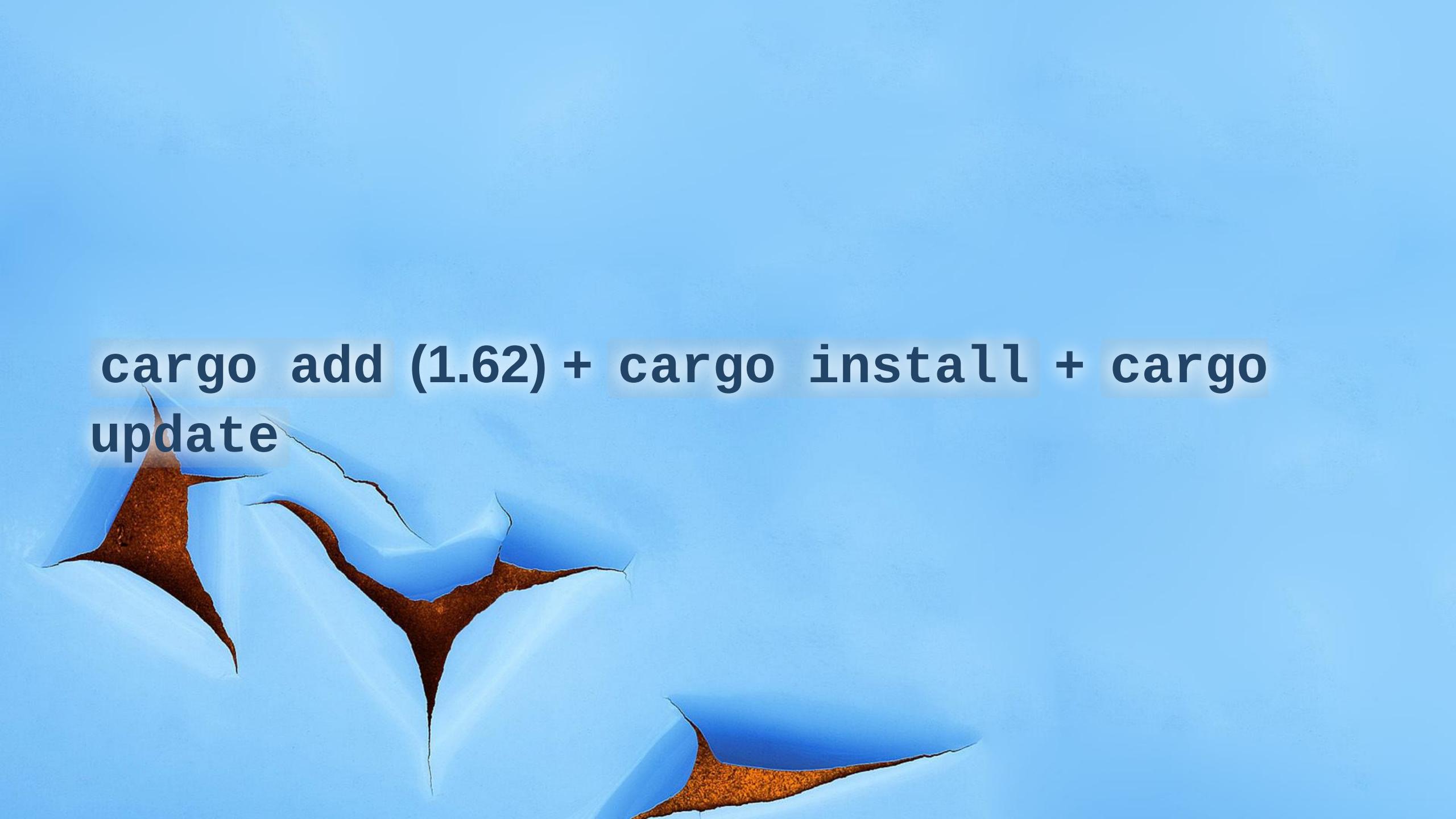
Rustup

```
rustup toolchain install stable # installer une toolchain
rustup update                 # la mettre à jour
rustup default nightly         # changer de toolchain
```



Cargo

`cargo init`



`cargo add (1.62) + cargo install + cargo update`

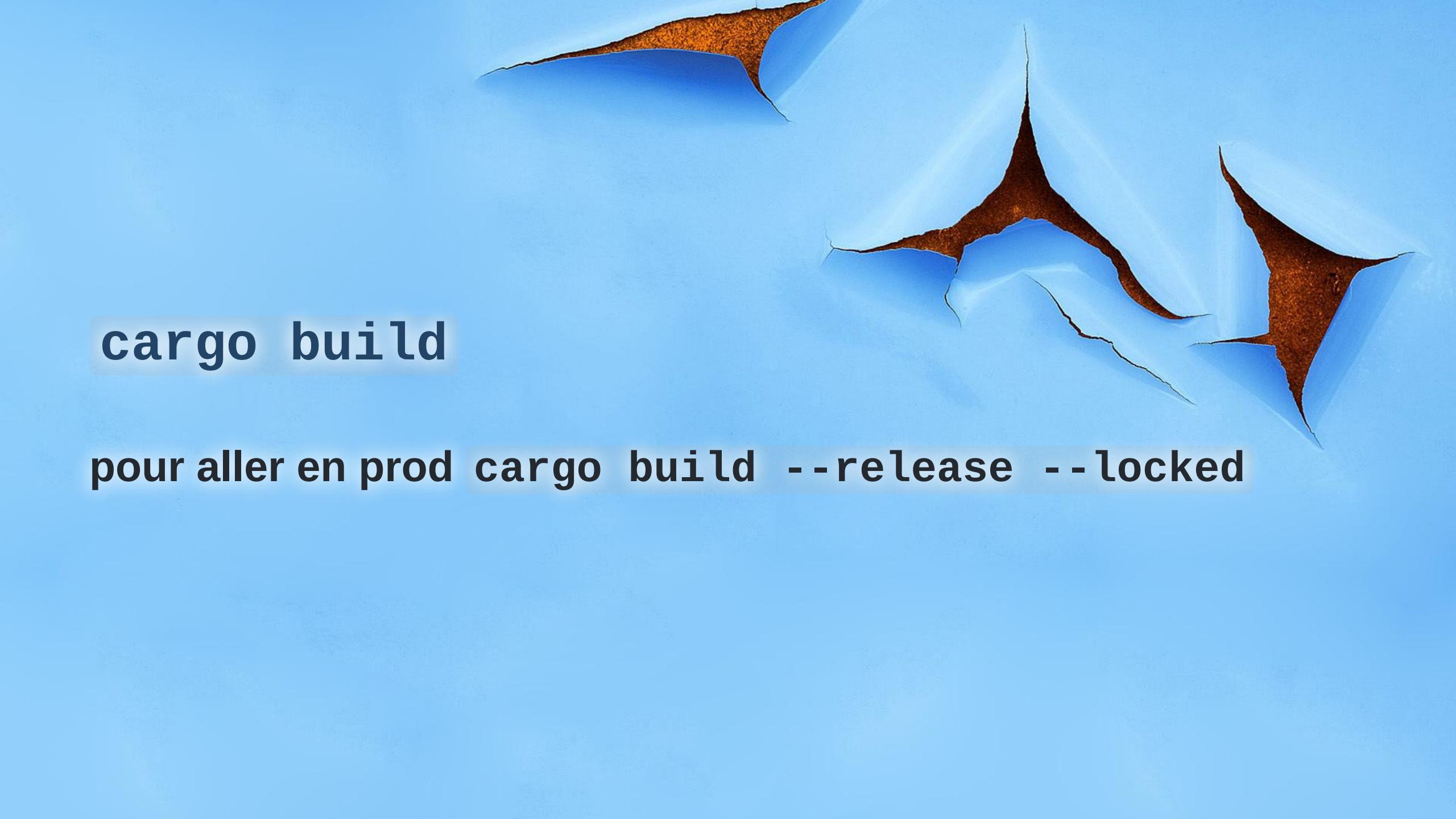
`cargo package + cargo publish`

cargo run



cargo test

pour faire des tests de perfs cargo bench



cargo build

pour aller en prod cargo build --release --locked



cargo fmt



cargo clippy

cargo fix





cargo hello ?

Conclusion





Anthony Pena

Développeur Web Fullstack @ 

 @_Anthony_Pena_

 @kuroidoruido

 @penaanthon

<https://k49.fr.nf>

<https://github.com/kuroidoruido/talks>



Thank you!

Crédit photos

- <https://pixabay.com/users/tama66-1032521>
 - fond de la slide de démarrage
 - fond diapos titre
 - usine abandonnée
- <https://pixabay.com/photos/lost-place-lokfriedhof-rust-3163912/>
 - train rouillé
- Kaamelott
 - Photo du Père Blaise