66 hours of Rust

THE GOOD, THE BAD AND THE UGLY



About Me

- Claudia Saxer
- Software Engineer







"But you know, the pity is, when I'm paid, I always follow my job through"



Journey

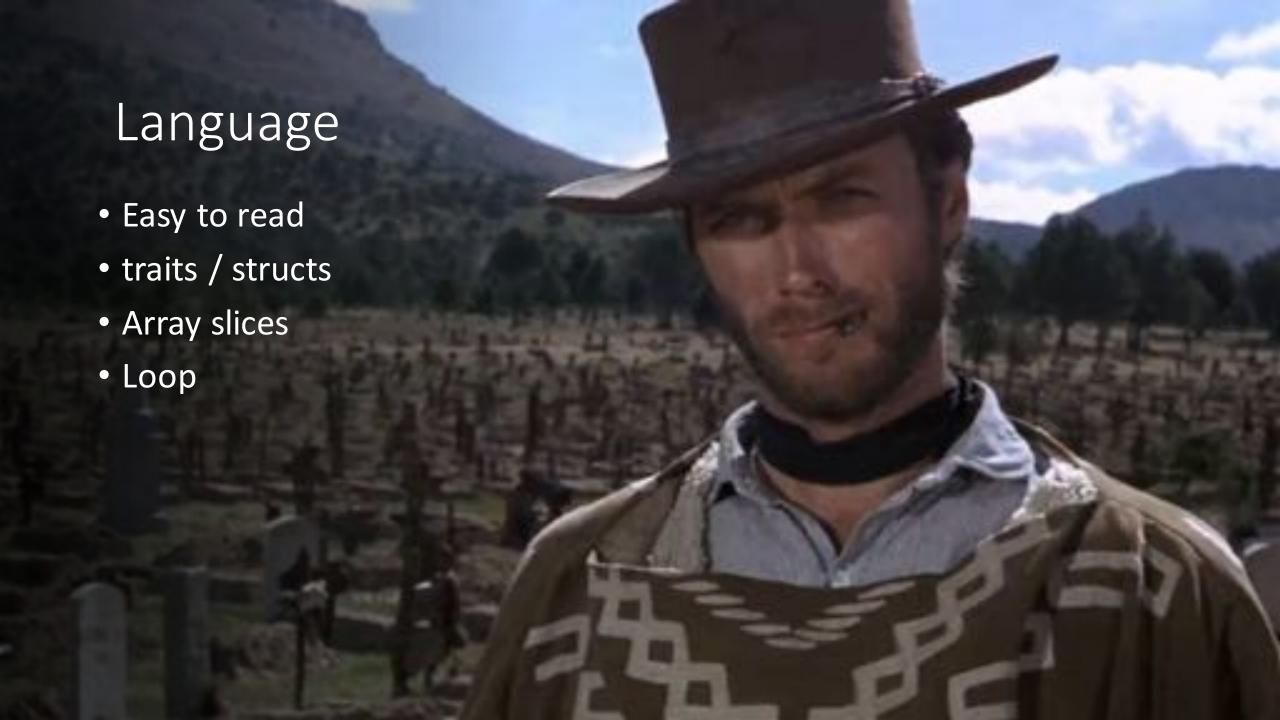
- Language
- Tooling
- Frontend (Wasm)

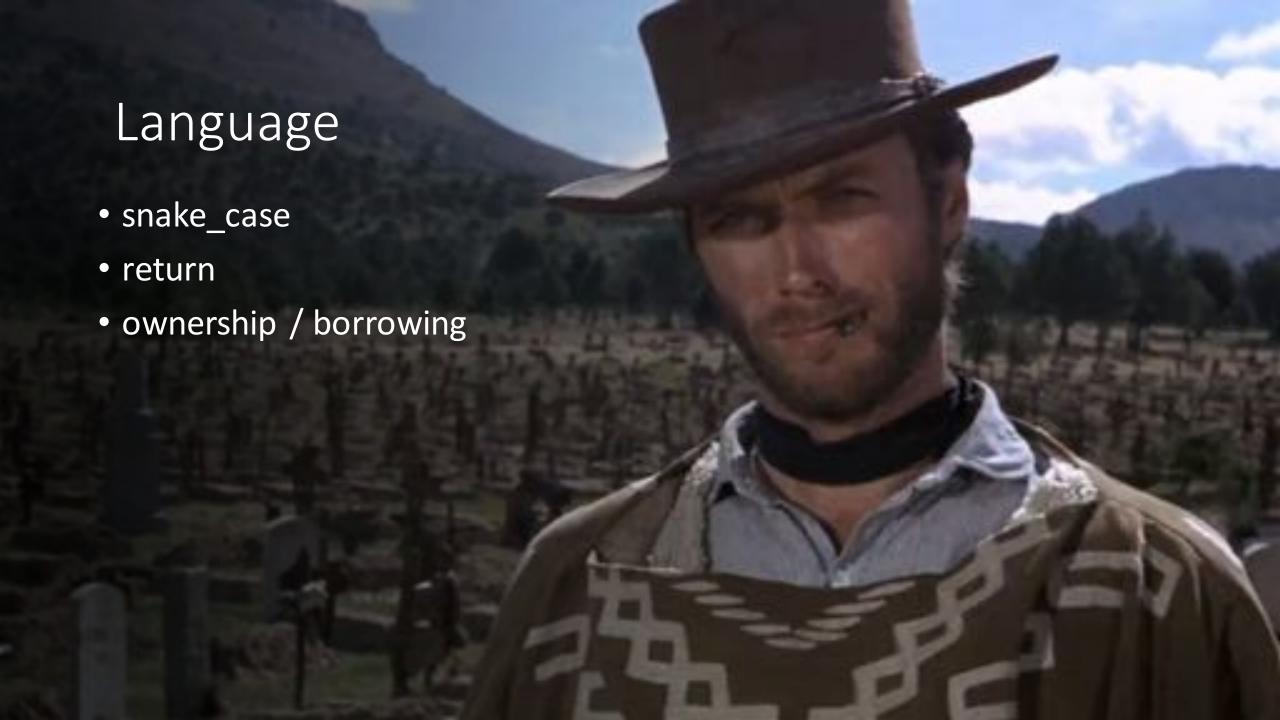


Journey

"The way back to town is only seventy miles. So if you save your breath, I feel a man like you can manage it. Adios..."











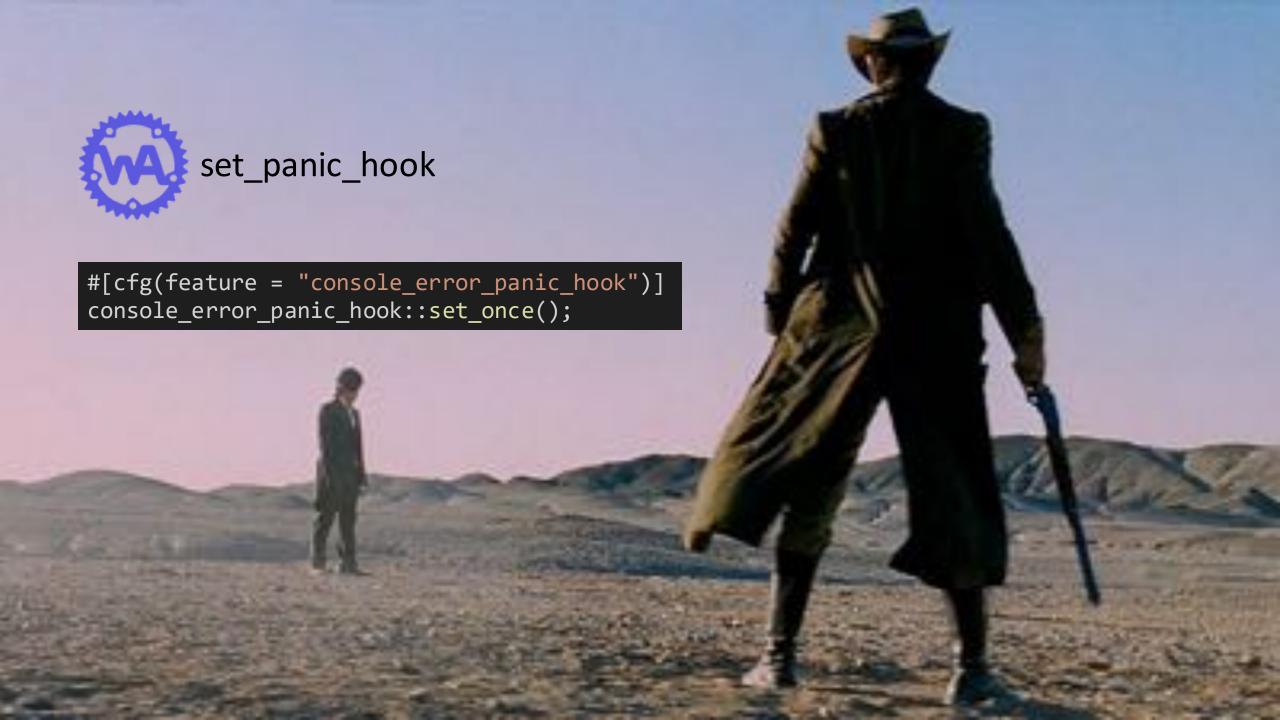
Tooling



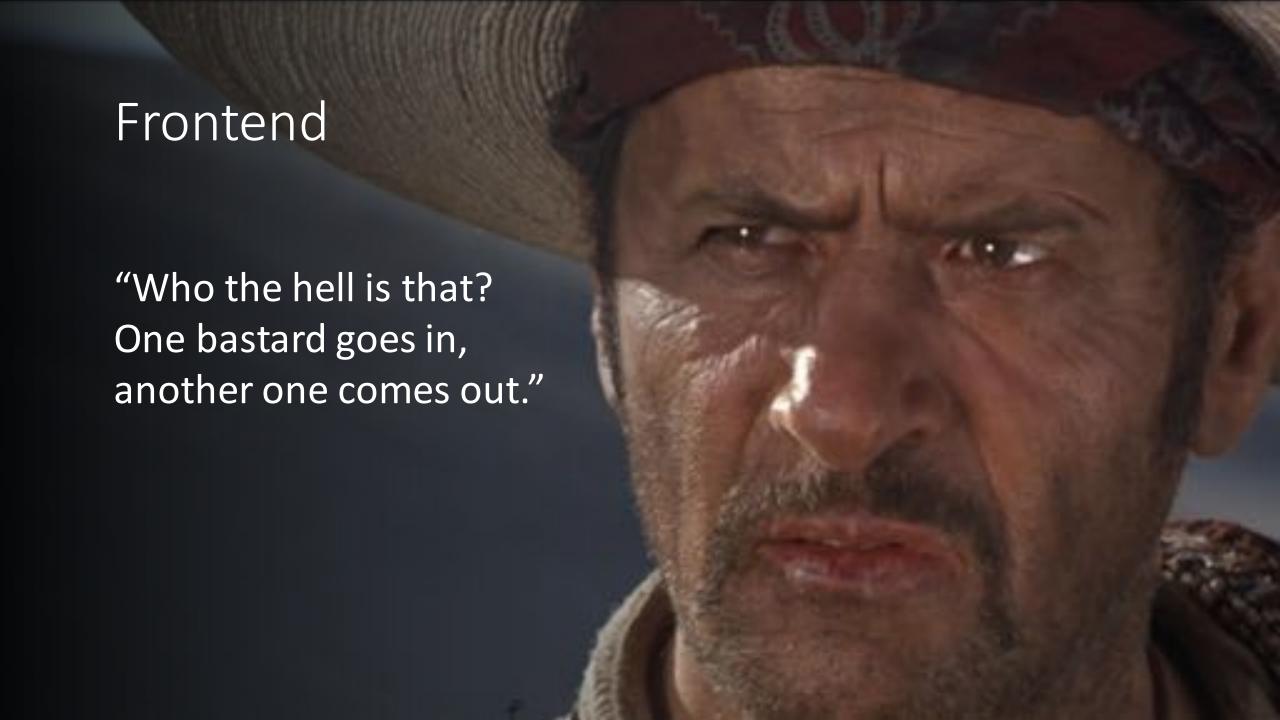












Frontend

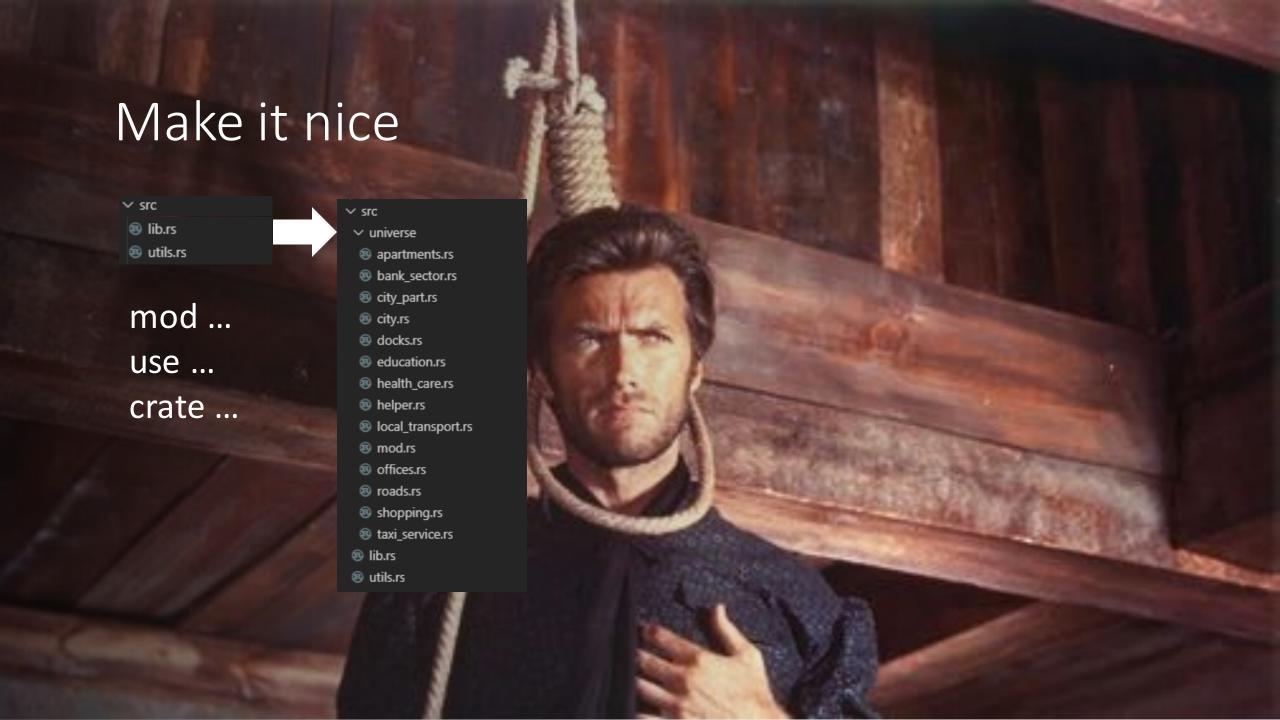
lib.rs

```
#[wasm_bindgen(module = "/defined-in-js.js")]
extern "C" {
    #[wasm_bindgen(getter)]
    fn get_current_time_in_milliseconds() -> u32;
}
```

defined-in-js.js

```
export function get_current_time_in_milliseconds() {
    return (new Date()).getTime();
}
```







Make it nice

```
#[derive(Clone)]
pub struct Part {
    pub count: u16, ...
pub struct Apartments {
   pub content: Part,
   pub number: u16,
pub struct Roads{
   pub content: Part,
   pub length: u16,
```

Nested structs?

```
pub struct Part {
    pub count: u16, ...
pub struct Apartments for Part {
   pub number: u16,
pub struct Roads for Part {
   pub length: u16,
Apartments {count: 0, number: 3}
Roads {count: 0, length: 10024}
```

```
"I'm your friend, please don't die"
Frror importing `index.js`: Error: Cannot find module 'city_inc_next'
                                                                                      bootstrap.js:5
   at webpackMissingModule (index.js:2)
```

```
at eval (index.js:2)
      at Module../index.js (0.bootstrap.js:11)
      at webpack_require_ (bootstrap.js:64)
Failed to load resource: the server responded with a status of 404 (Not Found)
```

[WDS] Live Reloading enabled. [WDS] Errors while compiling. Reload prevented.

client:150

:8080/favicon.ico:1

client:52

client:159 \ \rightarrow\index.js

Module not found: Error: Can't resolve 'city_inc_next' in 'D:\zBuilds\66HoursOfRust\CityIncRust\city-inc-next\www'

"I'm your friend, please don't die"



cargo generate --git https://github.com/rustwasm/wasm-pack-template

Key takeaways

- Recommended
- I want to learn more
- Steep learning curve



Questions?

