

## **Two Years stable**

Rust Zürichsee Meetup Locationsponsor: Liip.ch





### Beginners workshop:

- Speaker: Sebastian
- Topics:
  - Ownership & Borrowing

### Advanced workshop:

- Speaker: Stefan
- Topics:
  - CLI Argumentparsing with docopt
  - Async Networking with tokio

#### Cake:





### How to get from text

#### to a rust struct?

```
#[derive(Debug,RustcDecodable)]
struct Args {
    flag_port : u16,
    flag_listen: String,
}
```

## **Argument Parsing**



- 1. Import docopt and rustc-serialize
- 2. Add extern crate
- 3. Make string static and create the struct (The stuff from before)

```
[dependencies]
docopt = "^0.7"
rustc-serialize = "^0.3"
extern crate rustc_serialize;
extern crate docopt;
```

## 4. Add runtime-parsing:

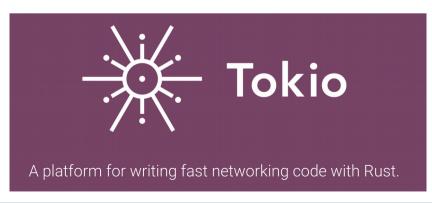




#### What kind of tools do we have?

- Sync IO with Threads using pools
- select
  man 3 select

event-loops







- Futures
- Tokio IO I/O Traits and Combinators
- Tokio Core Byte Streams, Frames
- Tokio Proto Independent Layers (eg. TLS)
- Tokio Service Request/Response (eg. HTTP)



## The story of this project

- Source Code: https://github.com/dns2utf8/shotgun
- Will be continued







# Cake

Thank you for your attention