»domain«

A toolbox for developing DNS in Rust.

NLNET**LABS**

How it started

The Idea

So, how is it going?

Modules

base	Handling of DNS data.
dep	Re-exports of dependencies
rdata	Record Data of Well-defined Record Types
resolv `resolv`	Asynchronous DNS resolving.
sign `sign`	DNSSEC signing.
tsig `tsig`	Support for TSIG.
utils	Various utility modules.
validate `validate`	DNSSEC validation.
zonefile `zonefile`	Reading and writing of zonefiles.

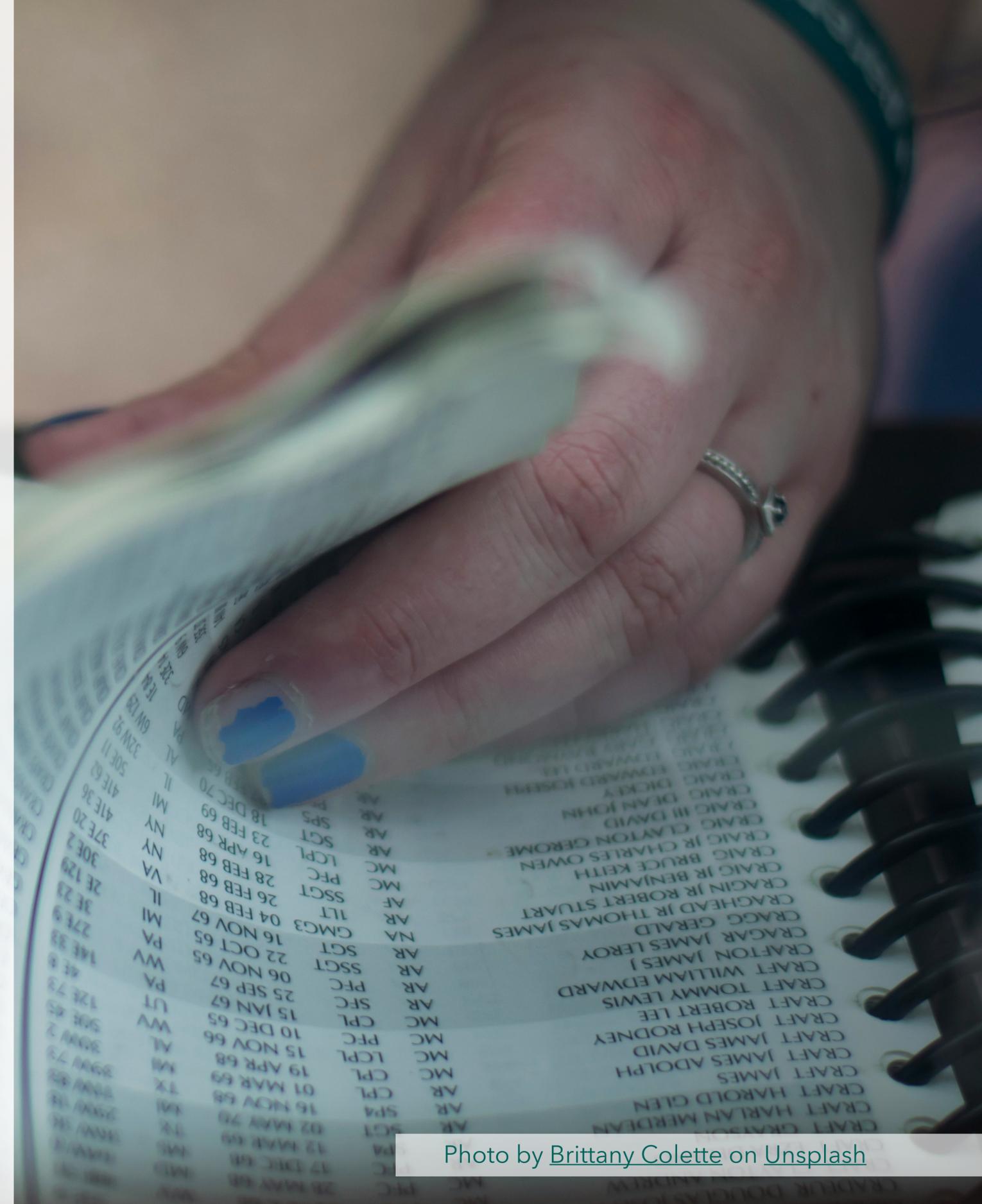Oh, no! Distractions!

Where is it going next?

This year for »domain«

Client Track

- basic transports (Do53, DoT)

- response caching

- DNSSEC validation

Server Track

- basic transports (Do53, DoT)

- zone handling

  zonefile parsing, zone tree, answer queries

- DNSSEC signing

- zone transfer (AXFR, IXFR)

Bonus Track

- Flexible DNS proxy

  - choose an action based on properties of the request

  - send to upstream server, reject, answer locally, …

Bonus Track II

- DNS diagnostics tool

  - more than just query a server

  - check DNSSEC for a zone

  - compare resolver with authoritative, etc.

- Zone management tools

  - check zone, sign zone, etc.

Thank you!

https://github.com/nlnetlabs/domain

@ labs@nlnetlabs.nl

@nlnetlabs@fosstodon.org