



Rust Prague meetup #3

14. 5. 2024 @ MFF UK

Thanks!

- Martin Děcký
- Department of Distributed
and Dependable Systems



Propose your own talk!



WED, APR 17, 2024, 5:30 PM CES

TechMeetup: RUST

⌚ This event has passed



61 attendee



WED, APR 24, 2024, 6:00 PM CEST

#2: Making Safe Rust Safer (Pavel Šimerda)

⌚ This event has passed



60 attendees

✓ Went!

rustlang.cz



Announcing Google Summer of Code 2024 selected projects

May 1, 2024 · Jakub Beránek, Jack Huey and Paul Lenz





Rust community events

The longest-
running annual
gathering of the
Rust community

Join us for the 9th edition of RustConf in beautiful
Montreal, Canada or online from wherever you are!



October 10th and 11th 2024
Vienna and online



2 day
conference for
the European
Rust community

We cover all things Rust: from Rust patterns and idioms to system programming and CLI tooling, servers WASM and embedded systems

[Get your ticket](#)



Rust **Nation**^{UK}

About

**RUST NATION UK
IS BACK FOR 2024**



Sponsored by
HUAWEI



Rust Nation UK

**Infrastructure
for Rust**

What It Takes to Keep Rust Running

JD Nose

Rust Infrastructure: What it takes to
keep Rust running

A speaker stands at a podium on stage, presenting to an audience. The stage backdrop features large, colorful text reading "Rust Nation UK". The overall theme is purple and orange.



The path to a stable ABI for Rust

...

Amanieu d'Antras



Amanieu D'Antras

The path to a stable ABI for Rust

Rust Nation UK

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RUST Nation UK

Towards Impeccable Rust

Jon Gjengset

Towards Impeccable Rust



The collage consists of several panels:

- Rust Nation UK:** A logo featuring a red crab holding a white flag with a black 'R' on it, set against a purple background with abstract shapes.
- Sponsored by HUAWEI:** Text and the Huawei logo (red flower emblem) on a purple background.
- UK:** A large blue banner with the word 'UK' in white.
- How Fe**: Partial text on a purple background.
- Rust Nation UK, March 28th**: Text on a dark grey banner.
- Pietro Albini**: Text on a purple background.
- How Ferrocene qualified the Rust Compiler**: Text on a purple background.
- Ferrocene**: The Ferrocene logo (yellow stylized 'C') and the word 'ferrocene' in white on a black background.
- How Ferrocene qualified the Rust compiler**: Text on a black background.

Rust Nation UK

Sponsored by
HUAWEI

Nicholas Yang
Porting Turborepo From Go To Rust

PORTING

TURBOREPO → R

27th March, 2024

@rust-nation



Rust teams at Google are as productive as ones using Go, and more than twice as productive as teams using C++.

Lars Bergstrom

Beyond Safety and Speed: How Rust Fuels Team Productivity



Recap: Rust Leads Summit 2024

May 9, 2024 · Tyler Mandry and Eric Holk

What happened?

This March, thirty-one people from Rust Project leadership and the Rust Foundation came to the Google London office for a two-day summit. The summit included notable appearances by:



RUGSEUM.

May 7 & 8, 2024

Delft, The Netherlands



Day 1 - morning

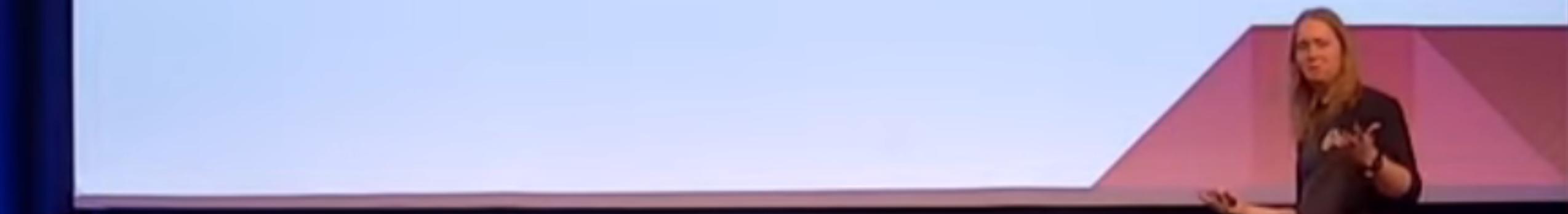
-
- 10:00** **Rik Arends**
Visual application design for Rust
-
- 10:40** **Michaël Melchiore**
(Th)Rust for Space: Initial momentum
-
- 11:50** **Alice Ryhl**
Arc in the Linux Kernel
-
- 12:30** **Mara Bos**
To Be Announced

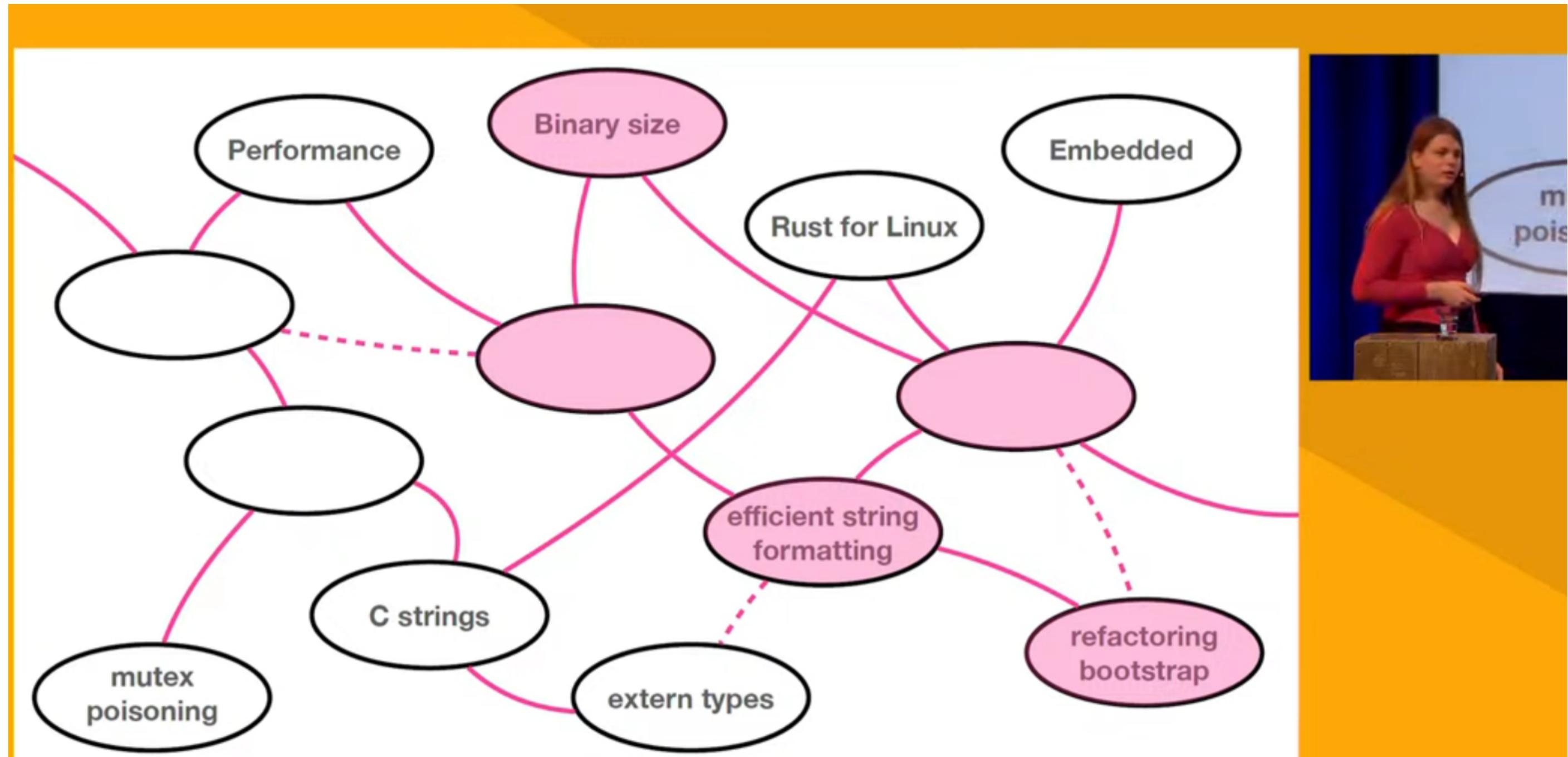




What does it take for Rust to succeed in the kernel?

- Real Rust drivers used in the real world.
- Good first impressions for people coming from C.
- Do not require a specific version of rustc.
- Compile Rust with GCC.







Day 1 - afternoon

14:00

Joe Birr-Pixton

Replacing OpenSSL, one step at a time

14:40

Leon Schuerman

Fortifying Rust's FFI with Encapsulated Functions

15:50

Henk Oordt

Oxidizing Education

16:15

James Munns

Postcard: an unreasonably effective tool for machine to machine communication

Day 1 - Industry track

<https://2024.rustnl.org/industry/>

14.05 Frédéric Ameye
Rust at Renault

14.30 Jakub Beránek
Global State of Rust

14.50 Short break

15.00 Paul Lenz, Ed Page, Tiago Manczak, Joachim den Hertog, Floris van der Grinten
Industry Panel - learn from Infineon, 1Password, Albelli and Rust Foundation

15:30 Moderated by Kris van Rens, Matthias Endler, Wouter Geraedts, Jonathan Pallant, Luca Palmieri, Dion Dokter, Hugo van de Pol
Roundtable discussions - on adopting Rust





Better up-skilling?



A **good C/C++ developer** needs 10+ years of experience and will still make memory-management mistakes.



A **newbie Rust developer** will be caught by the compiler before making the same mistakes.
Training towards Rust is also working really great.



Day 2 - morning

09:30 **Sophia Turner**
Secret!

10:10 **Kevin Boos**
Robius: Immersive and Seamless
Multi-platform App Development in
Rust

11:20 **Folkert de Vries**
Compression carcinized: implementing
zlib in Rust

12:00 **Jonas Kruckenberg**
K23: A secure research OS running
WASM



carcinization



a form of convergent evolution in which non-crab crustaceans evolve a **crab-like body plan**





Day 2 - afternoon

Dario Nieuwenhuis

14:00 Async Rust in embedded systems with Embassy

Raph Levien

14:40 Xilem: let's build high performance Rust UI

Ulf Lilleengen

15:50 Rust poisoning my wrist for fun

Niko Matsakis

16:15 Type theory for busy engineers



Inference rules

$$\frac{\Psi \vdash \tau \quad \Psi \vdash [\tau/\alpha]A \bullet e \Rightarrow C}{\Psi \vdash \forall \alpha. A \bullet e \Rightarrow C} \text{ Decl}\forall\text{App}$$




A woman with short brown hair and glasses, wearing a maroon cardigan over a patterned shirt, stands on a stage. She is speaking and gesturing with her hands. The background is dark.

This livestream



RustNL unconference

Support the ecosystem

RustNL will host an unconference for Rust maintainers and
Rust Project team members on **May 9 & 10**.

Two areas of focus are **multi-platform application development** and **embedded systems**.



TLDR

- Embedded



TLDR

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- Smaller binaries



TLDR

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 - static mut



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 - UI



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 - Faster compiler



TLDR

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 - Auto cloning into closures



TLDR

- Embedded
 - Smaller binaries
 - static mut
- UI
 - Faster compiler
 - Auto cloning into closures
 - partial borrows



Project unconf



Project unconf

- Edition system



Project unconf

- Edition system
- How to reduce chaos (project management)



Project unconf

- Edition system
- How to reduce chaos (project management)
- How to reduce burnout



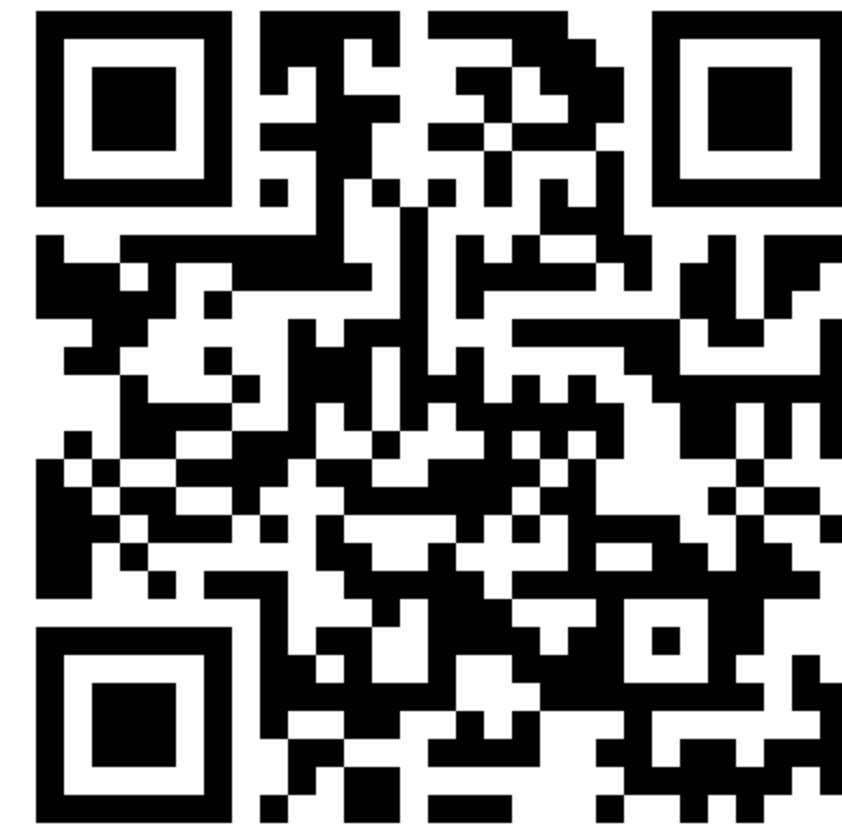
Project unconf

- Edition system
- How to reduce chaos (project management)
- How to reduce burnout
- Project goals



Rust governance talk

@ Rust Prague Meetup #1 2024





Thank you for your attention

Slides were created with github.com/spirali/elsie