



Rust and what's this thing for?



Abc Xyz
@dura_lex

1. Foreword
2. What is Rust?
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The background of the slide is a light gray network pattern. It consists of numerous small, dark gray circular nodes connected by thin, light gray lines. These lines form a complex web of triangles and other polygons, creating a textured, mesh-like appearance across the entire page.

Foreword

- Since 1.0.0
- Scope (by time)
 - Bindings (FFI — foreign function interface)
 - Analyzers
 - CLI (TUI) tools for PC and IoT
 - GUI for fun
 - Libraries
 - RE
- Not true programmer



What is Rust?

«**Rust** is a multi-paradigm systems programming language focused on safety, especially safe concurrency».

— Wikipedia

«*Rust is a systems programming language that runs blazingly fast, prevents nearly all segfaults, and guarantees thread safety*».

— www.rust-lang.org (2015)

«Empowering everyone to build reliable and efficient software».

— www.rust-lang.org

The background of the slide features a complex, light gray network pattern. It consists of numerous small dots (nodes) connected by thin, intersecting lines (edges), creating a web-like or molecular structure that fills the entire frame. The pattern is more dense in some areas and more sparse in others, giving it a dynamic, interconnected appearance.

What is Rust?

What's wrong with systems languages?

What's wrong with systems languages?

- It's difficult to write secure code
- It's very difficult to write multithreaded code

Rust?

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What is Rust?

Quick facts about Rust

- Started by Mozilla employee Graydon Hoare
- First announced by Mozilla in 2010
- Community driven development
- 88,281 commits on GitHub
- First stable release: 1.0 in May 2015
- Latest stable release: 1.31

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What is Rust?

Why Rust?

- Performance
 - Fast, memory-efficient
 - No runtime or garbage collector
- Reliability
 - Rich type system
 - Ownership model
- Productivity
 - Documentation
 - Friendly compiler
 - Top-notch tooling

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Unsafe

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Features

Syntax

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Ecosystem

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Ecosystem

Community

Meetups

telegram

Rust in week

gitter

reddit

IRC

matrix

ru, en, all

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Ecosystem

Rustup

A background pattern of a network graph with numerous nodes and connecting lines, creating a complex web-like structure.

Ecosystem

Cargo

Cross platform

Tests

Benchmarks

Examples

Docs

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Ecosystem

Additional tools

cargo:

- fuzz - format - llvm - asm - graph - deps - etc

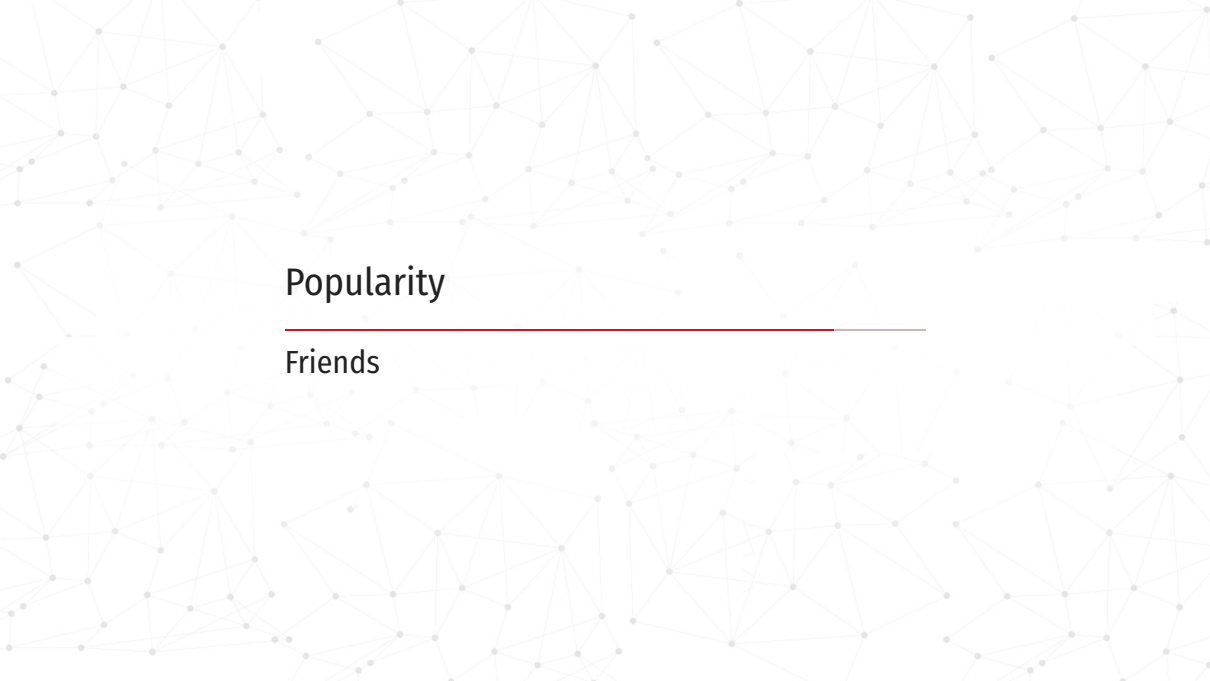
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Ecosystem

IDE

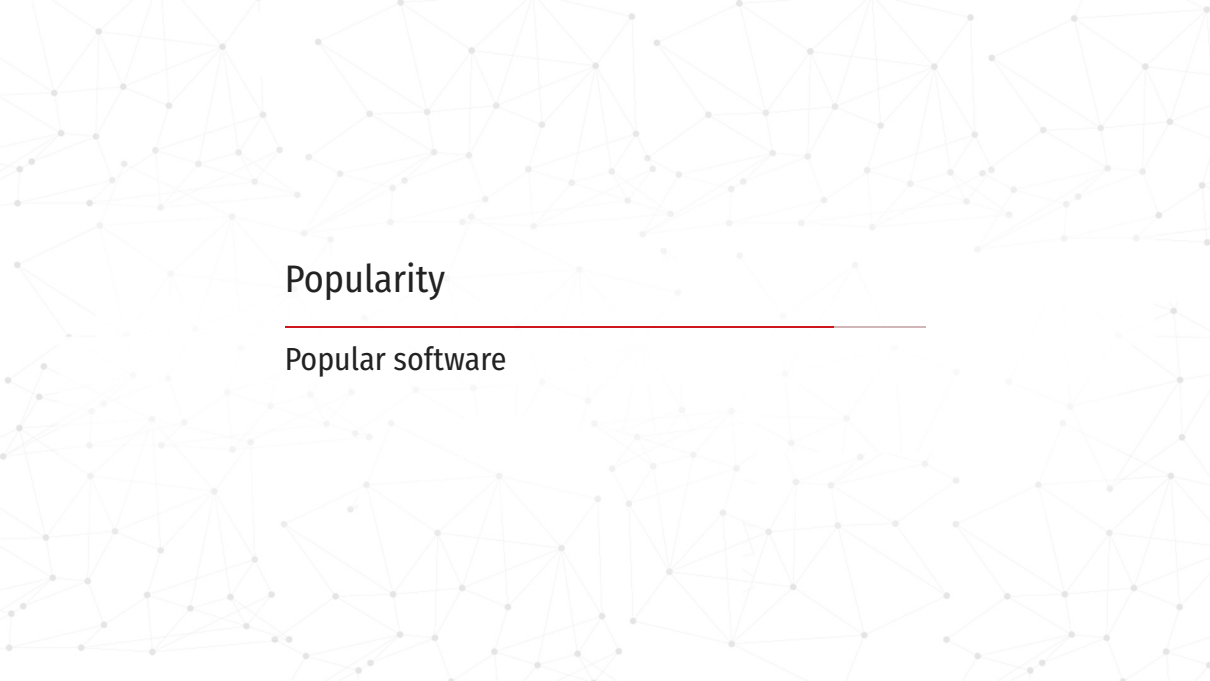
The background of the slide is a complex network diagram. It consists of numerous small, dark grey circular nodes scattered across the white space. These nodes are interconnected by a web of thin, light grey lines, creating a dense, interconnected mesh that resembles a social network or a data structure. The overall effect is a subtle, textured background that suggests themes of connectivity and complexity.

Popularity

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Popularity

Friends

The background of the slide is a complex network diagram. It consists of numerous small, light-gray circular nodes scattered across the white space. These nodes are interconnected by a web of thin, light-gray lines, creating a dense, non-uniform mesh that resembles a social network or a data structure. The lines vary in length and orientation, connecting nodes both locally and across the frame.

Popularity

Popular software

- CLI tools
- Web
- Servo

Summary

Questions?

