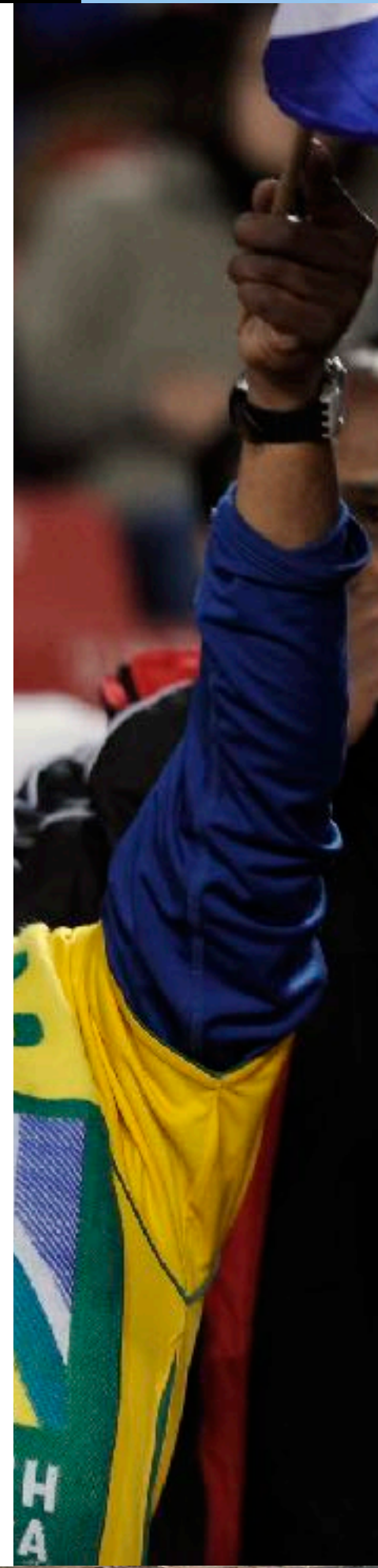
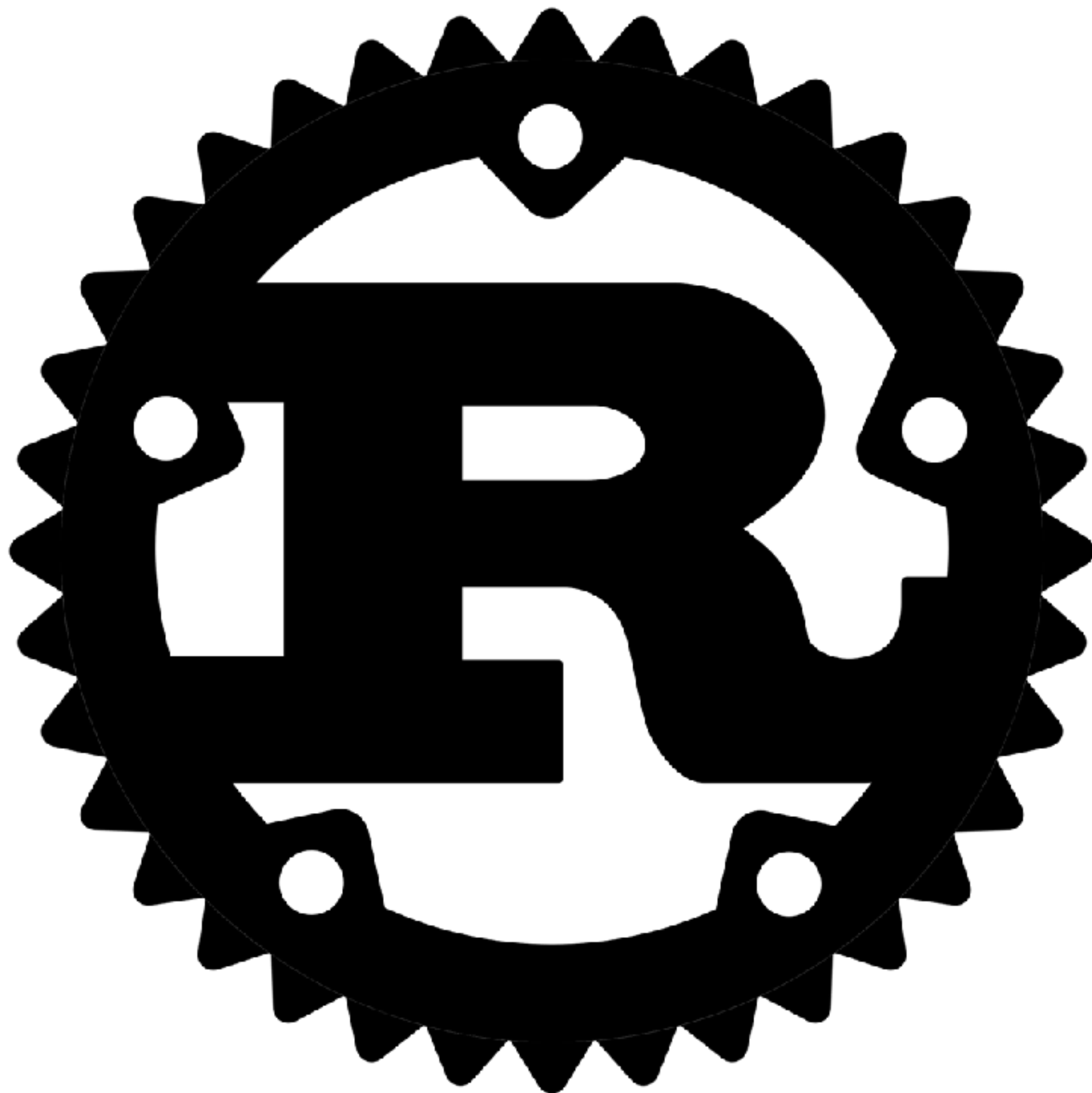


Behind the scenes of Rust

Alex Crichton



Announcing Rust 1.0

May 15, 2015 • The Rust Core Team

Today we are very proud to announce the [1.0 release of Rust](#), a new programming language aiming to make it easier to build reliable, efficient systems. **Rust combines low-level control over performance with high-level convenience and safety guarantees.** Better yet, it achieves these goals without requiring a garbage collector or runtime, making it possible to [use Rust libraries as a “drop-in replacement” for C](#). If you’d like to experiment with Rust, the [“Getting Started” section of the Rust book](#) is your best bet (if you prefer to use an e-reader, Pascal Hertleif maintains [unofficial e-book versions](#) as well).

What makes Rust different from other languages is its type system, which represents a refinement and codification of “best practices” that have been hammered out by generations of C and C++ programmers. As such, Rust has something to offer for both experienced systems programmers and newcomers alike: experienced programmers will find they save time they would have spent debugging whereas newcomers can write low-level code without worrying about minor mistakes leading to mysterious crashes.

What does it mean for Rust to be 1.0?









Tooling

Infrastructure

Community

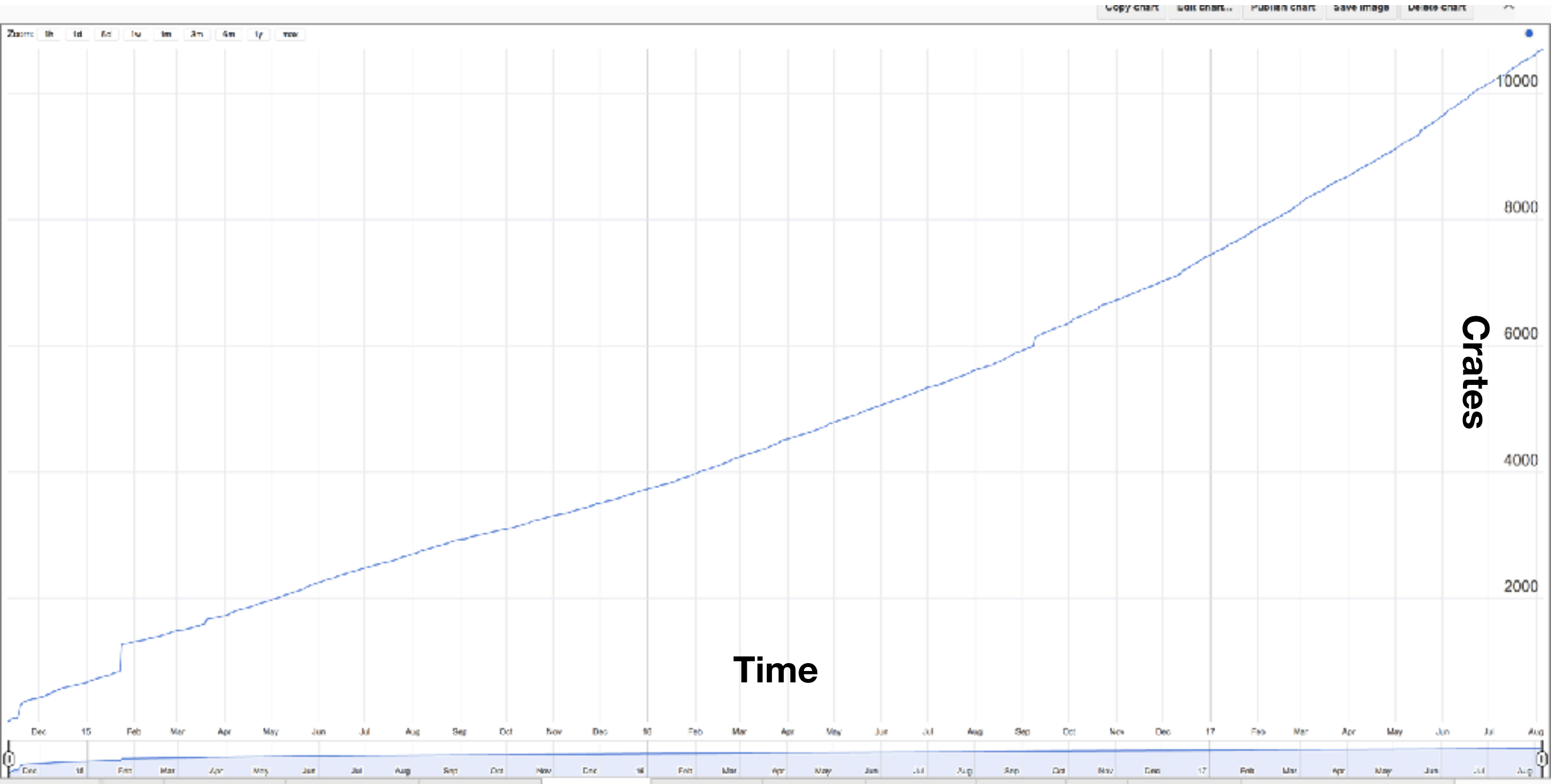
We're not in 1970

- Developers have high expectations for tooling support
- Developers also expect a lot of tools
- Tools alone can often spawn entire ecosystems

Tools in Rust

- cargo
- rustdoc
- rustup
- rustc
- gdb
- RLS
- rustfmt

Why Cargo?



Why Cargo?



- Sharing code is *critical* for a young language
- A package manager from day one is *hugely* beneficial
- Despite blocking 1.0 on Cargo, Cargo accelerated stabilization of libstd through aggressive pruning

How has Cargo helped?

- Small standard library far easier to port and maintain
- “Dependency hell” is almost a thing of the past
- Language features like custom derive far easier with Cargo

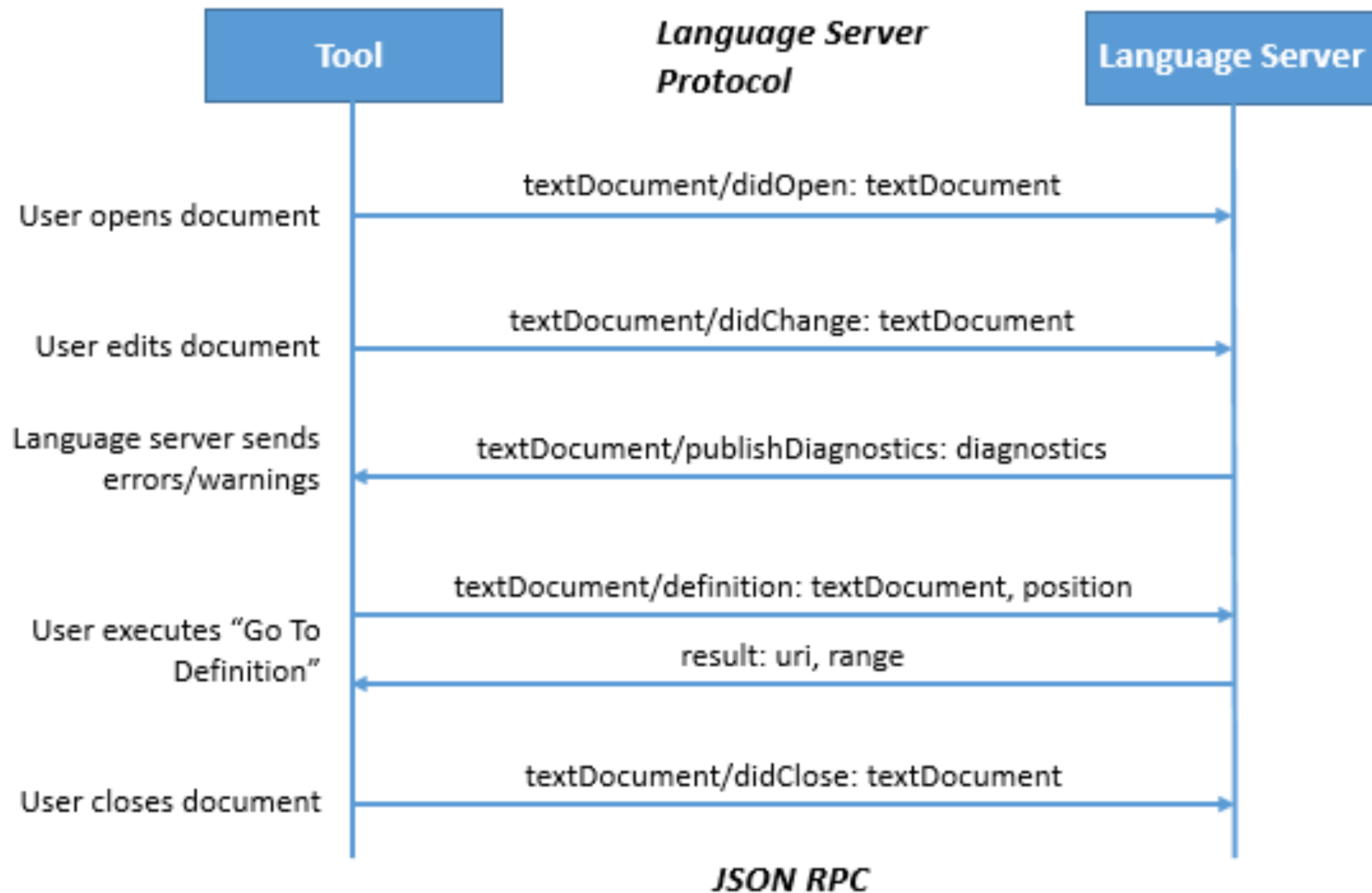
What else was missing?

Immaturity of the Tooling

Another strong theme for improvement was the relative immaturity of the tooling for Rust. While tools like Cargo have been invaluable to a number of Rust users, other tools need attention.

Of non-Rust users, **1 in 4** responded that they aren't currently using Rust because of the lack of strong IDE support. As one user puts it “[f]or a complex language like Rust, good editor tooling makes the learning process interactive.” Modern IDEs have become a powerful way to explore unfamiliar APIs, unfamiliar language features, and unfamiliar error messages.

Enter the LSP



Enter the RLS

Rust Language Server (IDE support) #1317

[Edit](#)

Merged alexcrichton merged 6 commits into `rust-lang:master` from `nrc:ide` on Feb 10, 2016

Conversation 237

Commits 6

Files changed 1

+302 -0



nrc commented on Oct 12, 2015

Owner



This RFC describes how we intend to modify the compiler to support IDEs. The intention is that support will be as generic as possible. A follow-up internals post will describe how we intend to focus our energies and deploy Rust support in actual IDEs.

There are two sets of technical changes proposed in this RFC: changes to how we compile, and the creation of an 'oracle' tool (name of tool TBC).

Thanks to Phil Dawes, Bruno Medeiros, Vosen, eddyb, Evgeny Kurbatsky, and Dmitry Jemerov for early feedback.



16

Changes to the compiler to support IDEs

6b0b771

nrc added `T-tools` `T-compiler` labels on Oct 12, 2015

Reviewers



No reviews—request one

Assignees



nrc

Labels



final-comment-period

T-tools

Projects



None yet

Milestone



No milestone

Notifications

RLS requirements

- Needs to support common IDE queries like

- go to definition

- find all uses

- renaming variables

- Can't reimplement all of rustc

“You must use rustc”



- Responses must be *fast*

“You must not use rustc”

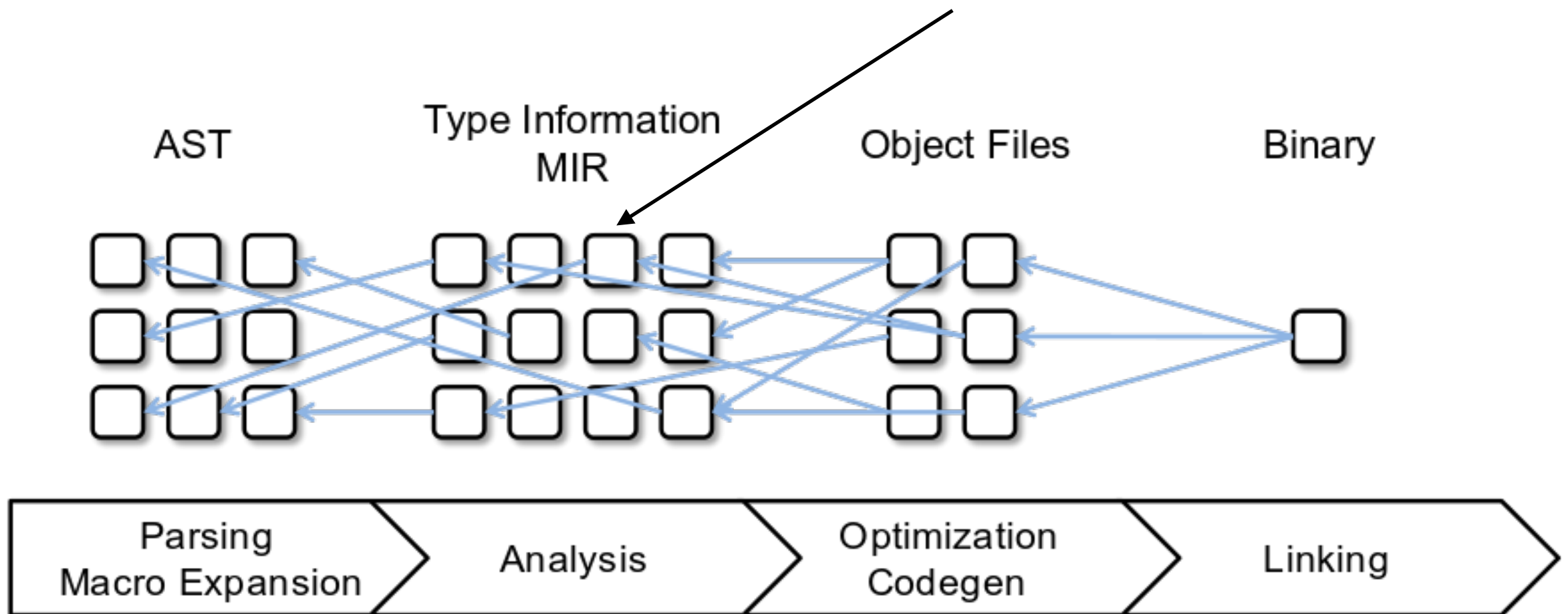


Getting rustc fast



Getting rustc fast

Where's the definition of this type?



Polishing the RLS

```
rustup component add rls-preview
```

Tools in Rust

- cargo
- rustdoc
- rustup
- rustc
- gdb
- RLS
- rustfmt

Tooling

Infrastructure

Community

We're still not in 1970

- Developers expect their tools to not break
- Developers expect low friction when managing tools
- Vast majority of users will always be new ones

Infrastructure of Rust

- Continuous Integration
- {www,doc,play}.rust-lang.org
- crates.io
- Rapid release cycle
- “Dealing with GitHub”
- AWS services, CDNs, storage, etc

[Documentation](#)[Install](#)[Community](#)[Contribute](#)

Rust is a systems programming language that runs blazingly fast, prevents segfaults, and guarantees thread safety.

[Install Rust 1.22.1](#)

November 22, 2017

[See who's using Rust.](#)

- Managed via PRs on GitHub

Featuring

- zero-cost abstractions
- move semantics
- guaranteed memory safety
- threads without data races
- trait-based generics
- pattern matching
- type inference
- minimal runtime
- efficient C bindings

- Continuously deployed
- Delivered via CloudFront CDN
- Fun with DNS/SSL/...

```
fn main() {  
    let greetings = ["Hello", "Hola", "Bonjour",  
                    "Ciao", "こんにちは", "안녕하세요",  
                    "Ceci", "Olá", "Здравствуй",  
                    "Chào bạn", "您好", "Hallo",  
                    "Hej"];  
  
    for (num, greeting) in greetings.iter().enumerate() {  
        println!("{}: {}", num, greeting);  
        match num {  
            0 => println!("This code is editable and runnable!");  
            1 => println!("Este código es editable y ejecutable");  
            2 => println!("Ce code est modifiable et exécutable");  
            3 => println!("Questo codice è modificabile ed eseguibile");  
            4 => println!("このコードは編集して実行出来ます！");  
            5 => println!("여기에서 코드를 수정하고 실행할 수 있습니다.");  
            6 => println!("Ten kod można edytować oraz uruchomić");  
            7 => println!("Este código é editável e executável");  
            8 => println!("Этот код можно отредактировать и запустить");  
            9 => println!("Bạn có thể edit và run code trực tiếp!");  
            10 => println!("这段代码是可以编辑并且能够运行的！");  
            11 => println!("Dieser Code kann bearbeitet und ausgeführt werden");  
            12 => println!("Den här koden kan redigeras och köras");  
            _ => {}  
        }  
    }  
}
```

[Run](#)[More examples](#)

Run ▶

ASM

LLVM IR

MIR

Format

Clippy

Share

Debug

Release

Stable

Beta

Nightly

Tools

Mode

Channel

```
1 use std::f64;
2
3 #[no_mangle]
4 pub fn foo() -> f64 {
5     if bar(f64::INFINITY) as i8 != i8::max_value() {
6         unsafe { exit(); }
7     }
8     bar(f64::NEG_INFINITY)
9 }
```


rustup is an installer for
the systems programming language **Rust**

Run the following in your terminal, then follow
the onscreen instructions.

```
curl https://sh.rustup.rs -sSf | sh
```

Need help? [Ask on #rust-beginners](#).



rustup is an official Rust project.

[other installation options](#) · [about rustup](#)

`rustup` update

- Also delivered via CDN
- Delivers over 50 targets to compile to
- Crazy platform-specific logic in `rustup` itself

cargo build

- crates.io crates delivered via CDN
- crates.io itself written in Rust
- Deployed via Heroku

You've found a bug!

- All rustc/Rust language development happens on GitHub
- GitHub is what most know and love, makes it easiest for new contributors
- Let's send a PR...

Move rustc_back modules where they belong. #46305

[Edit](#)

 **Open** irinagpopa wants to merge 3 commits into `rust-lang:master` from `irinagpopa:backstory`

 Conversation 7

 Commits 3

 Files changed 38

+41 -159 



irinagpopa commented 2 hours ago

First-time contributor




No description provided.



1

 irinagpopa added some commits 4 days ago

 rustc_back: move slice module to rustc_data_structures.

660d25e

 rustc_back: move dynamic_lib to rustc_metadata.

2e09e5c

 rustc_back: replace tempdir with crates.io version.

✓ 9b8135a

 rust-highfive assigned eddyb 2 hours ago



rust-highfive commented 2 hours ago

Member



Thanks for the pull request, and welcome! The Rust team is excited to review your changes, and you should hear from @eddyb (or someone else) soon.

If any changes to this PR are deemed necessary, please add them as extra commits. This ensures that the reviewer can see what has changed since they last reviewed the code. Due to the way GitHub handles out-of-date commits, this should also make it reasonably obvious what issues have or haven't been addressed. Large or tricky changes may require several passes of review and changes.

Please see [the contribution instructions](#) for more information.

Reviewers



 arielb1



Assignees



 alexcrichton

Labels



S-waiting-on-review

Projects




None yet

Milestone



No milestone

Notifications

 Unsubscribe

You're receiving notifications because you were assigned.

7 participants



 Lock conversation



arielb1 commented 3 hours ago

Member



@bors r+

bors: Mandatory homage

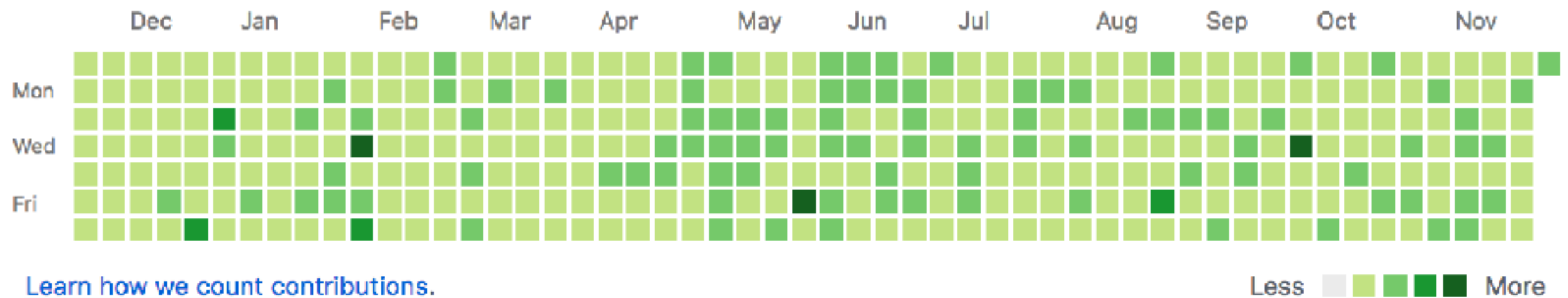


The Last of the Masters

*The title character, **Bors**, a 200-year-old "government integration robot" —and the last in existence—awakens after a routine maintenance check to learn that his motor system is in a state of decline. An artificially intelligent machine who displays a degree of emotion and even psychological complexity, he is informed by Fowler, a personal mechanic, that his body has begun to break down due to age.*

bors never sleeps

37,864 contributions in the last year



bors in action



eddyb commented 3 days ago

Member




@bors r+



bors commented 3 days ago

Member



 Commit [27d5872](#) has been approved by eddyb

bors in action

Homu queue - [rust](#)

82 total, 6 approved, 2 rolled up, 0 failed / ☐ Auto reload /


<input type="checkbox"/>	#	Status	Mergeable	Title	Head ref	Assignee	Approved by	Priority
<input type="checkbox"/>	45860	success (try)	yes	make coercions to 'T' in unreachable code a hard error	arielb1:never-coerce	eddyb		0
<input type="checkbox"/>	46083	success (try)	yes	Type privacy polishing	petrochenkov:morepriv			0
<input type="checkbox"/>	46192	success (try)	yes	coherence: fix is_knownable logic	arielb1:locally-coherent			0
<input type="checkbox"/>	46193	success (try)	yes	WIP: Less globals	Zoxc:less-globals			0
<input type="checkbox"/>	46108	pending	yes	Add a MIR-borrowck-only output mode	est31:master		nikomatsakis	0
<input type="checkbox"/>	46207	approved	yes	Replace most call to grep in run-make by a script that cat the input.	kennym:kill-grep		alexcrighton	0
<input type="checkbox"/>	46256	approved	yes	Use suggestions instead of notes ref mismatches	estebank:suggest-deref		arielb1	0
<input type="checkbox"/>	46273	approved	yes	make OpenBSD to use libc++ instead of (c)stdc++	semarle:openbsd-libc++	nikomatsakis	alexcrighton	0
<input type="checkbox"/>	46231	approved	yes	MIR: Fix value moved diagnose messages	riliok:verbs		arielb1	rollup
<input type="checkbox"/>	46275	approved	yes	Compiletest libc dependency can be unix-only	dtolnay:compiletest-libc	Mark-Simulacrum	Mark-Simulacrum	rollup
<input type="checkbox"/>	46163		yes	mention nightly in -Z external-macro-backtrace note	durka:macro-backtrace			1
<input type="checkbox"/>	44864		yes	Make accesses to fields of packed structs unsafe	arielb1:pack-safe	nikomatsakis		0
<input type="checkbox"/>	44918		yes	Implement TryFrom for String Types	mvzqz:str-try-from	starkder		0
<input type="checkbox"/>	45047		yes	[very WIP] implement trait aliases	durka:trait-alias	nikomatsakis		0
<input type="checkbox"/>	45293		yes	Ak 44493 Infer predicate	toldlucak-44493-infer-predicate	nikomatsakis		0
<input type="checkbox"/>	45404		yes	#37653 support 'default impl' for specialization	giannic:defaultimpl2	nikomatsakis		0
<input type="checkbox"/>	45422		yes	Add powerpc-unknown-linux-musl target	rqou:master	nikomatsakis		0
<input type="checkbox"/>	45503		yes	Implement From<RecvError> for TryRecvError and RecvTimeoutError	ia0:mpsc_recv_error_from	aturon		0
<input type="checkbox"/>	45525		yes	Move collector to librustc_mir::monomorphize	MalkKlein:collector	pnkfelix		0
<input type="checkbox"/>	45837		yes	Ignore panic functions in backtraces. Print inlined functions on Windows	Zoxc:backtraces			0
<input type="checkbox"/>	45684		yes	[driver breaking] Allow runtime switching between trans backends	bjorn3:runtime_choose_trans2	nikomatsakis		0
<input type="checkbox"/>	45752		yes	Highlight code on diagnostics when underlined	estebank:highlight-primary	nikomatsakis		0
<input type="checkbox"/>	45776			Highlight code on diagnostics when underlined	estebank:highlight-span			0



bors in action

bors commented 3 days ago

Member




 Commit `27d5872` has been approved by `eddyb`

  `kennytm` added the `S-waiting-on-bors` label 3 days ago

bors commented 5 hours ago

Member



 Testing commit `27d5872` with merge `0400312` ...

 `bors` added a commit that referenced this pull request 5 hours ago

  Auto merge of #46203 – nikomatsakis:type-foldable-macro, r=eddyb

...

✓ 0400312

bors in action



 bors commented 5 hours ago

Member



 Testing commit `27d5872` with merge `0400312` ...

 bors added a commit that referenced this pull request 5 hours ago

  Auto merge of #46203 – nikomatsakis:pe-foldable-macro, r=eddyb ... ✓ 0400312

 bors commented 3 hours ago

Member



 Test successful - [status-appveyor](#), [status-travis](#)

Approved by: eddyb

Pushing `0400312` to master...

  bors merged commit `27d5872` into `rust-lang:master` 3 hours ago

2 checks passed

[View details](#)

Auto merge of #46203 - nikomatsakis:type-foldable-macro, r=eddyb


1.0.5504

introduce macros for `type-foldable` and `lift`, convert stuff to use them

A random commit from a branch I've shelved for the time being that made ``TypeFoldable`` stuff a bit less annoying to write.

r? @eddyb

5 hours ago by bors

 auto  0400312e

3 hours ago in 2 hr 27 min

JOB

JOB NAME	TESTS	DURATION
Environment: MSYS_BITS=64, RUST_CONFIGURE_ARGS=--build=x86_64-pc-windows-msvc --enable-profiler, SCRIPT...		1 hr 58 min
Environment: MSYS_BITS=32, RUST_CONFIGURE_ARGS=--build=i686-pc-windows-msvc --target=i686-pc-windows-m...		2 hr 27 min
Environment: MSYS_BITS=64, RUST_CHECK_TARGET=check-aux, RUST_CONFIGURE_ARGS=--build=x86_64-pc-win...		2 hr 7 min
Environment: MSYS_BITS=64, SCRIPT=python x.py test src/tools/cargotest, RUST_CONFIGURE_ARGS=--build=x86_64...		1 hr 26 min
Environment: MSYS_BITS=32, RUST_CONFIGURE_ARGS=--build=i686-pc-windows-gnu, SCRIPT=python x.py test, MI...		1 hr 29 min
Environment: MSYS_BITS=64, SCRIPT=python x.py test, RUST_CONFIGURE_ARGS=--build=x86_64-pc-windows-gnu, ...		2 hr 1 min
Environment: RUST_CONFIGURE_ARGS=--build=x86_64-pc-windows-msvc --enable-extended --enable-profiler , SCRI...		1 hr 29 min
Environment: RUST_CONFIGURE_ARGS=--build=i686-pc-windows-msvc --target=i586-pc-windows-msvc --enable-exte...		1 hr 32 min
Environment: MSYS_BITS=32, RUST_CONFIGURE_ARGS=--build=i686-pc-windows-gnu --enable-extended, SCRIPT=p...		1 hr 11 min
Environment: MSYS_BITS=64, SCRIPT=python x.py dist, RUST_CONFIGURE_ARGS=--build=x86_64-pc-windows-gnu -...		1 hr 33 min
Environment: MSYS_BITS=64, RUST_CONFIGURE_ARGS=--build=x86_64-pc-windows-msvc --enable-extended --enab...		1 hr 40 min

✓

auto

Auto merge of #46203 -

introduce macros for type to use them

↶

Commit 0400312 ↗

🔗

Compare 2ca00a9..0400312

🌿

Branch auto ↗

👤

bors authored and committed

Build Jobs

✓ # 63241.1		</>
✓ # 63241.2		</>
✓ # 63241.3		</>
✓ # 63241.4		</>
✓ # 63241.5		</>
✓ # 63241.6		</>
✓ # 63241.7		</>
✓ # 63241.8		</>
✓ # 63241.9		</>
✓ # 63241.10		</>

✓ # 63241.1		no language set	IMAGE=x86_64-gnu-lvm-3.9 RUST_DACH...	1 hr 16 min 35 sec
✓ # 63241.2		no language set	IMAGE=dist-x86_64-linux DEPLOY=1	1 hr 32 min 49 sec
✓ # 63241.3		no language set	IMAGE=dist-x86_64-linux DEPLOY_ALT=1	1 hr 31 min 26 sec
✓ # 63241.4		Xcode:xcode7.3	RUST_CHECK_TARGET=dist RUST_CONF...	1 hr 42 min 44 sec
✓ # 63241.5		Xcode:xcode8.3	RUST_CHECK_TARGET=check RUST_CO...	2 hrs 23 min 35 sec
✓ # 63241.6		Xcode:xcode8.3	RUST_CHECK_TARGET=check RUST_CO...	2 hrs 23 min 59 sec
✓ # 63241.7		Xcode:xcode7.3	RUST_CHECK_TARGET=dist RUST_CONF...	1 hr 41 min 52 sec
✓ # 63241.8		Xcode:xcode7.3	RUST_CHECK_TARGET=dist RUST_CONF...	1 hr 5 min 4 sec
✓ # 63241.9		no language set	IMAGE=arm-android	1 hr 32 min 18 sec
✓ # 63241.10		no language set	IMAGE=armhf-gnu	1 hr 19 min 29 sec
✓ # 63241.11		no language set	IMAGE=cross DEPLOY=1	1 hr 23 min 18 sec
✓ # 63241.12		no language set	IMAGE=cross2 DEPLOY=1	1 hr 15 min 15 sec
✓ # 63241.13		no language set	IMAGE=dist-aarch64-linux DEPLOY=1	1 hr 41 min 14 sec
✓ # 63241.14		no language set	IMAGE=dist-android DEPLOY=1	1 hr 12 min 16 sec
✓ # 63241.15		no language set	IMAGE=dist-arm-linux DEPLOY=1	1 hr 43 min 29 sec
✓ # 63241.16		no language set	IMAGE=dist-armhf-linux DEPLOY=1	1 hr 33 min 54 sec
✓ # 63241.17		no language set	IMAGE=dist-armv7-linux DEPLOY=1	1 hr 46 min 29 sec
✓ # 63241.18		no language set	IMAGE=dist-i686-gnu-i686-musl DEPLOY=1	1 hr 22 min 9 sec
✓ # 63241.19		no language set	IMAGE=dist-i686-freebsd DEPLOY=1	1 hr 45 min 50 sec
✓ # 63241.20		no language set	IMAGE=dist-i686-linux DEPLOY=1	1 hr 50 min 15 sec
✓ # 63241.21		no language set	IMAGE=dist-mips-linux DEPLOY=1	1 hr 34 min 14 sec
✓ # 63241.22		no language set	IMAGE=dist-mips64-linux DEPLOY=1	1 hr 27 min 24 sec
✓ # 63241.23		no language set	IMAGE=dist-mips64el-linux DEPLOY=1	1 hr 34 min 24 sec
✓ # 63241.24		no language set	IMAGE=dist-mipsel-linux DEPLOY=1	1 hr 34 min 35 sec
✓ # 63241.25		no language set	IMAGE=dist-powerpc-linux DEPLOY=1	1 hr 41 min 13 sec
✓ # 63241.26		no language set	IMAGE=dist-powerpc64-linux DEPLOY=1	1 hr 26 min 12 sec
✓ # 63241.27		no language set	IMAGE=dist-powerpc64le-linux DEPLOY=1	1 hr 39 min 54 sec
✓ # 63241.28		no language set	IMAGE=dist-s390-linux DEPLOY=1	1 hr 46 min 5 sec
✓ # 63241.29		no language set	IMAGE=dist-x86_64-freebsd DEPLOY=1	1 hr 39 min 21 sec
✓ # 63241.30		no language set	IMAGE=dist-x86_64-musl DEPLOY=1	1 hr 5 min 28 sec
✓ # 63241.31		no language set	IMAGE=dist-x86_64-netbsd DEPLOY=1	1 hr 33 min 55 sec
✓ # 63241.32		no language set	IMAGE=asmjs	2 hrs 2 min 56 sec
✓ # 63241.33		no language set	IMAGE=i686-gnu	1 hr 41 min 4 sec
✓ # 63241.34		no language set	IMAGE=i686-gnu-nopt	1 hr 25 min 55 sec
✓ # 63241.35		no language set	IMAGE=x86_64-gnu	1 hr 34 min 38 sec
✓ # 63241.36		no language set	IMAGE=x86_64-gnu-full-bootstrap	1 hr 14 min 23 sec
✓ # 63241.37		no language set	IMAGE=x86_64-gnu-ux	1 hr 44 min 12 sec
✓ # 63241.38		no language set	IMAGE=x86_64-gnu-cargotest	1 hr 3 min 29 sec
✓ # 63241.39		no language set	IMAGE=x86_64-gnu-debug	1 hr 2 min 7 sec
✓ # 63241.40		no language set	IMAGE=x86_64-gnu-nxpt	1 hr 28 min 13 sec
✓ # 63241.41		no language set	IMAGE=x86_64-gnu-dlshack	1 hr 40 min 43 sec
✓ # 63241.42		no language set	IMAGE=x86_64-gnu-incremental	1 hr 47 min 18 sec

More options

Restart build

_BACK...	1 hr 16 min 35 sec
1	1 hr 32 min 49 sec
ALT=1	1 hr 31 min 26 sec
_CONF...	1 hr 42 min 44 sec
IT_CO...	2 hrs 23 min 35 sec
IT_CO...	2 hrs 23 min 59 sec
_CONF...	1 hr 41 min 52 sec
_CONF...	2 hrs 6 min 4 sec
	1 hr 32 min 18 sec
	1 hr 19 min 29 sec

Release trains

- Nightly, beta, stable channels
- Automatic nightlies each night
- Stable/beta updated once every 6 weeks
- Stable/beta receive bug fixes with “backports”

Infrastructure of Rust

- Continuous Integration
- {www,doc,play}.rust-lang.org
- crates.io
- Rapid release cycle
- “Dealing with GitHub”
- AWS services, CDNs, storage, etc

Tooling

Infrastructure

Community

We get it, it's not 1970

- Development does not happen in isolation any more
- Everyone's got thoughts (often great ones!)
- Early stage projects live and die by their communities

Rust's Community

- Governance of Rust itself
- RFC process
- Internals/users forum, IRC
- Community team
- Conferences

Rust RFCs

Many changes, including bug fixes and documentation improvements can be implemented and reviewed via the normal GitHub pull request workflow.

Some changes though are "substantial", and we ask that these be put through a bit of a design process and produce a consensus among the Rust community and the [sub-teams](#).

The "RFC" (request for comments) process is intended to provide a consistent and controlled path for new features to enter the language and standard libraries, so that all stakeholders can be confident about the direction the language is evolving in.

Table of Contents

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- [Table of Contents](#)
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- [Before creating an RFC](#)
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- [Implementing an RFC](#)
- [RFC Postponement](#)
- [Help this is all too informal!](#)

To `int` or not to `int`?

RFC: Rename ``int/uint`` to something better #544



aturon merged 20 commits into `rust-lang:master` from `CloudiDust:int-to-intx` on Jan 6, 2015



Conversation 240



Commits 20



Files changed 1

 CloudiDust commented on Dec 28, 2014

Contributor



This RFC proposes that we rename the pointer-sized integer types `int/uint`, so as to avoid misconceptions and misuses.

This is yet another attempt to rename `int/uint`. See [A tale of two's complement](#) for reasons of the rejection of the previous proposal.

After community discussions, this RFC has undergone several major revisions and the originally proposed `intx/uintx` have lost favour.

The winners are: `isize/usize` !

Reducing entropy

RFC: Scaling Rust's Governance #1068



alexcrichon merged 3 commits into `rust-lang:master` from `aturon:rust-governance` on May 7, 2015



Conversation 72



Commits 3



Files changed 1



aturon commented on Apr 17, 2015

Owner



This RFC proposes to expand, and make more explicit, Rust's governance structure. It seeks to supplement today's core team with several *subteams* that are more narrowly focused on specific areas of interest.

Thanks to Nick Cameron, Manish Goregaokar, Yehuda Katz, Niko Matsakis and Dave Herman for many suggestions and discussions along the way.

Rendered

The Rust Team

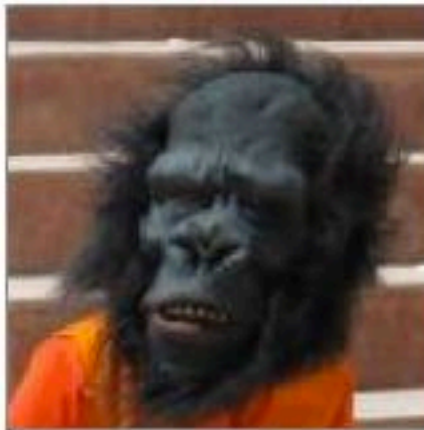
The Rust project is [governed](#) by a number of teams, each focused on a specific area of concern. Below are the rosters, in alphabetical order.

To contact a team, post your question or comment to [the Internals forum](#) and tag your post with the category corresponding to the team name. Note that security disclosures should follow the [Rust security disclosure process](#).

Core team

Responsibility: *overall direction of the project, subteam leadership, cross-cutting concerns*

[Nick Cameron](#)



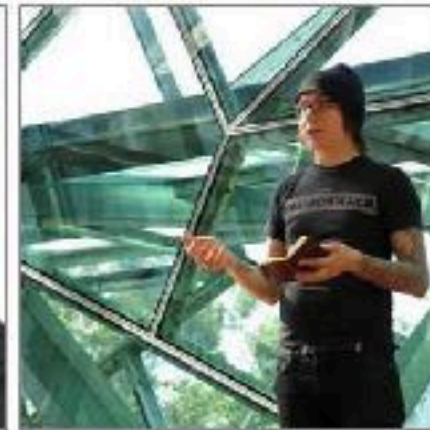
[Alex Crichton](#)



[Yehuda Katz](#)



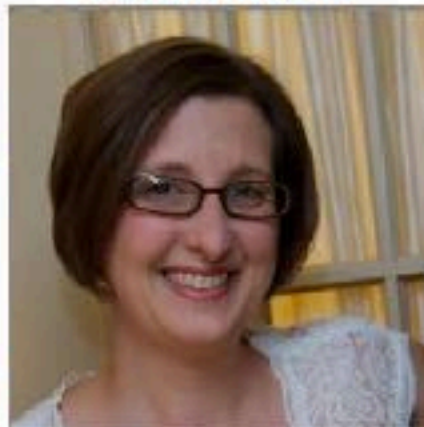
[Steve Klabnik](#)



[Niko Matsakis](#)



[Carol Nichols](#)



[Aaron Turon](#)



[Erick Tryzelaar](#)



impl Future for Rust

Sep 18, 2017 • Aaron Turon

The Rust community has been hard at work on our [2017 roadmap](#), but as we come up on the final quarter of the year, we're going to kick it into high gear—and we want you to join us!

Our goals for the year are ambitious:

- Rust should have a lower learning curve.
- Rust should have a pleasant edit-compile-debug cycle.
- Rust should provide a solid, but basic IDE experience.
- Rust should provide easy access to high quality crates.
- Rust should be well-equipped for writing robust, high-scale servers.
- Rust should have 1.0-level crates for essential tasks.
- Rust should integrate easily into large build systems.
- Rust's community should provide mentoring at all levels

To finish off these goals, we intend to spend the rest of the year focused purely on “implementation” work—which doesn't just mean code! In particular, we are effectively spinning down the [RFC process](#) for 2017, after having merged [almost 90](#) RFCs this year!

So here's the plan. Each Rust team has put together several *working groups* focused on a specific sub-area. Each WG has a leader who is responsible for carving out and coordinating work, and a dedicated

