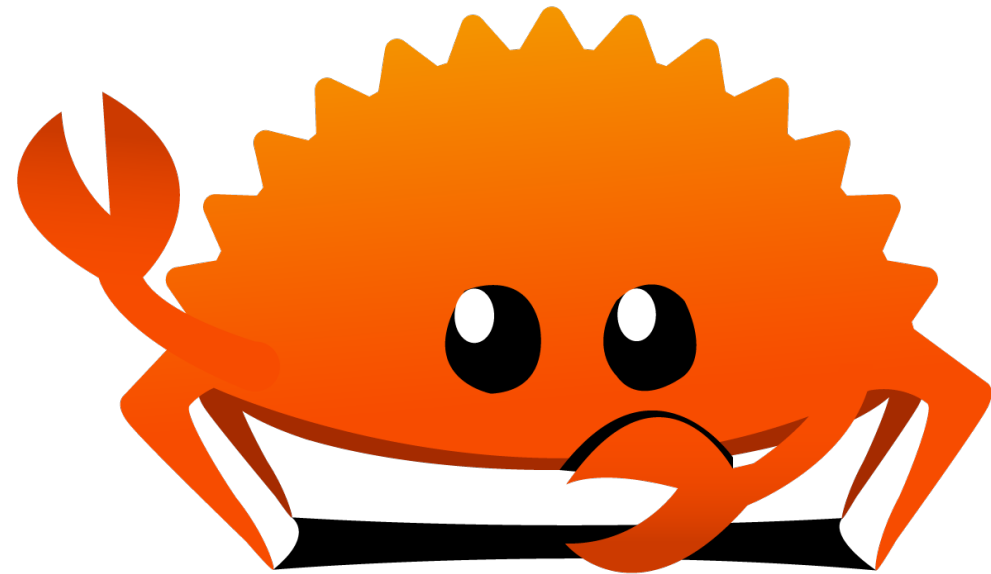


Spreading Rust

E. Dunham (@qedunham)

RustFest Kyiv (2017-04-30)

talks.edunham.net/rustfest2017



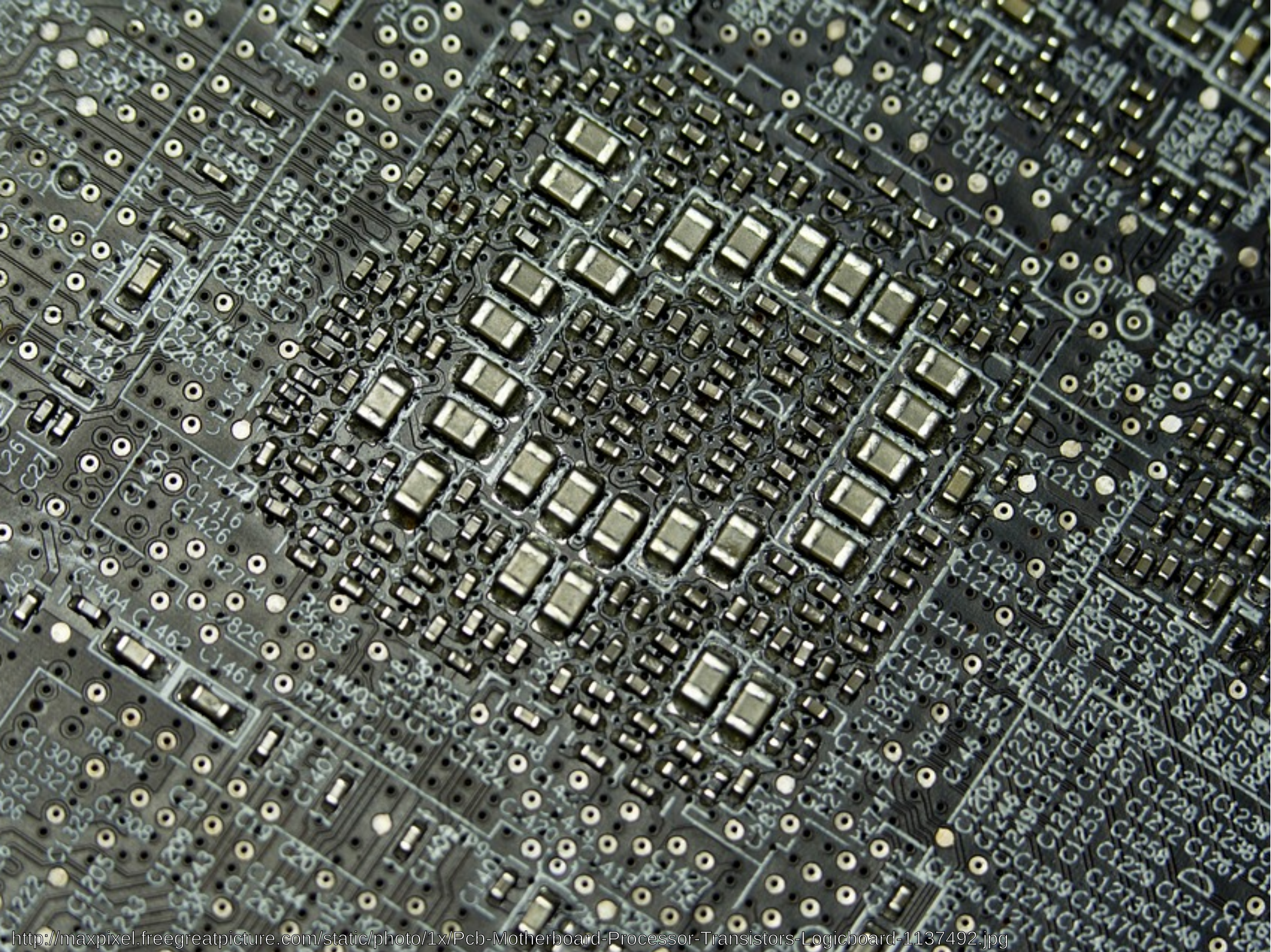






https://upload.wikimedia.org/wikipedia/commons/9/94/IBM_7090_computer.jpg (1960, \$2.9 million)

Make bigger, faster computers.





https://upload.wikimedia.org/wikipedia/commons/6/66/Osborne_1_open.jpg

https://upload.wikimedia.org/wikipedia/commons/5/58/Powerbook_100_pose.jpg

<https://upload.wikimedia.org/wikipedia/commons/thumb/3/3f/Thinkpad-x61-tablet.jpg/937px-Thinkpad-x61-tablet.jpg>

https://upload.wikimedia.org/wikipedia/commons/3/3c/Surface_Book_%281%29.jpg



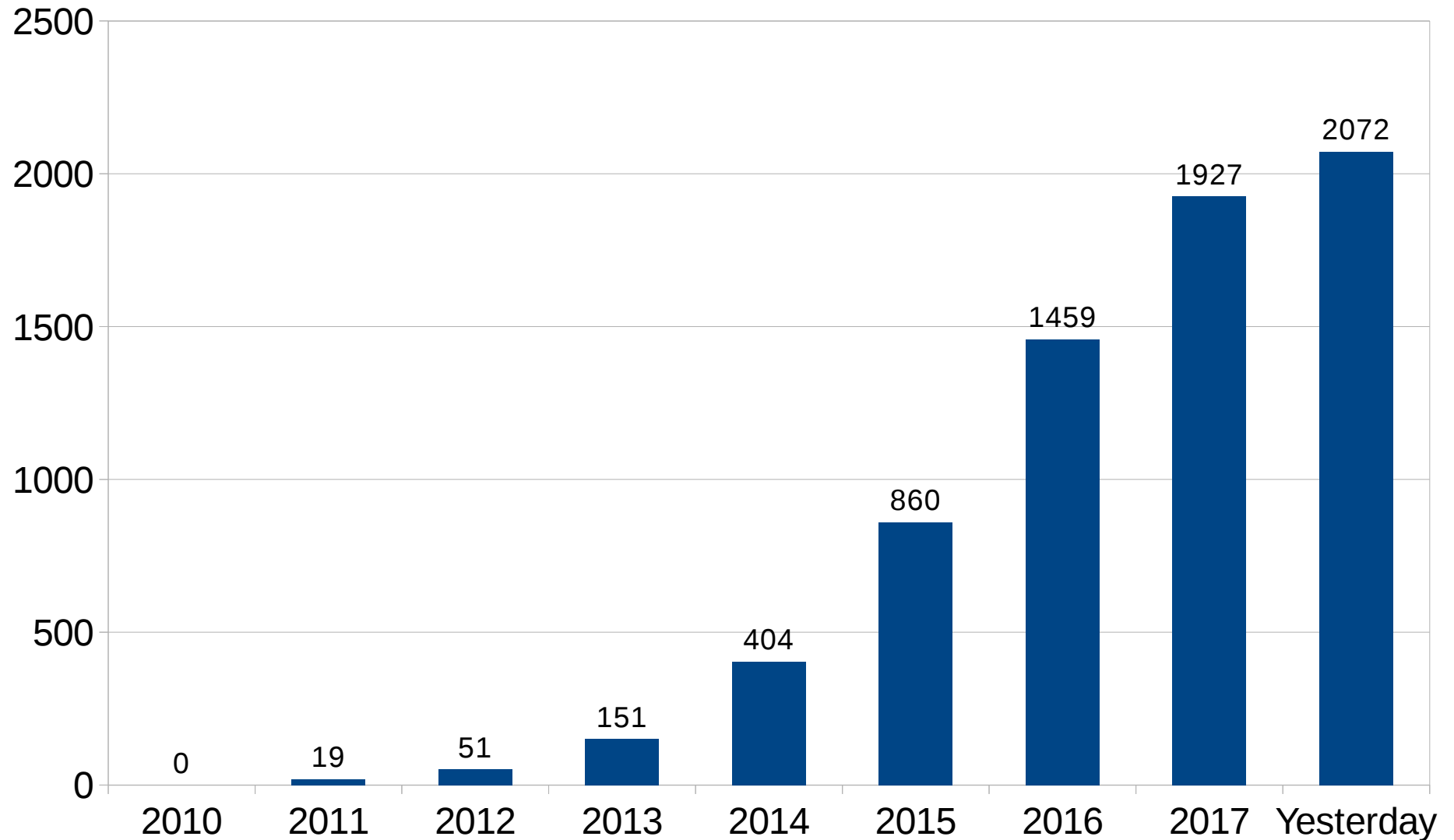


~~Make bigger, faster computers.~~

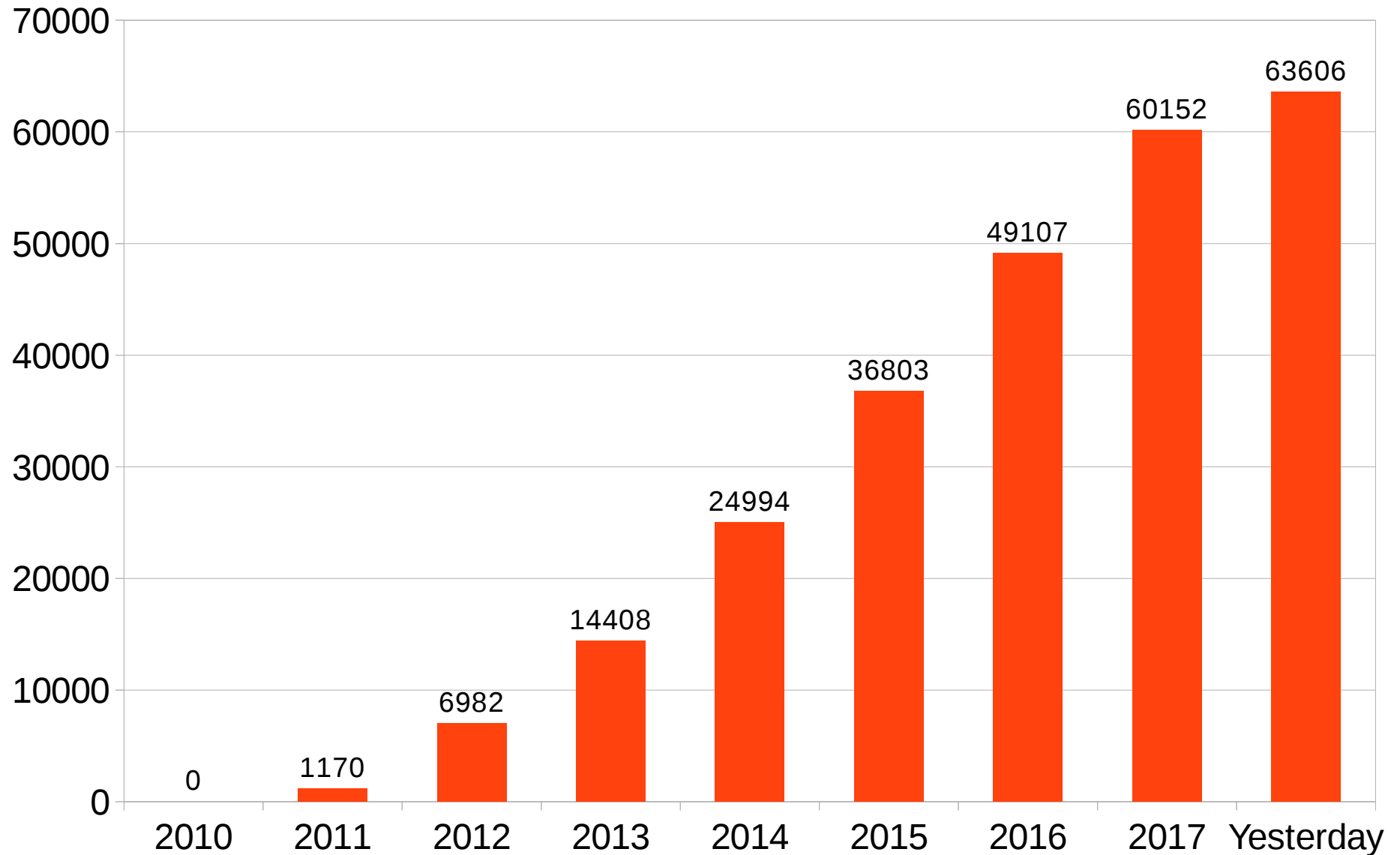
Make computers do more.

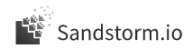


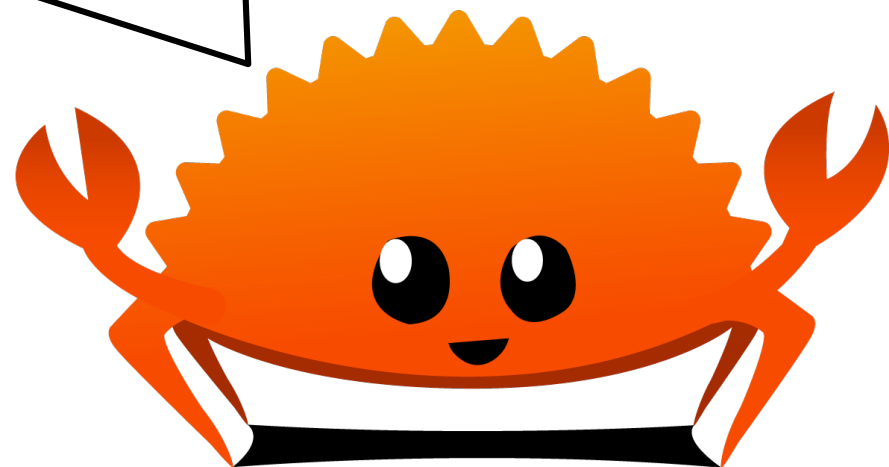
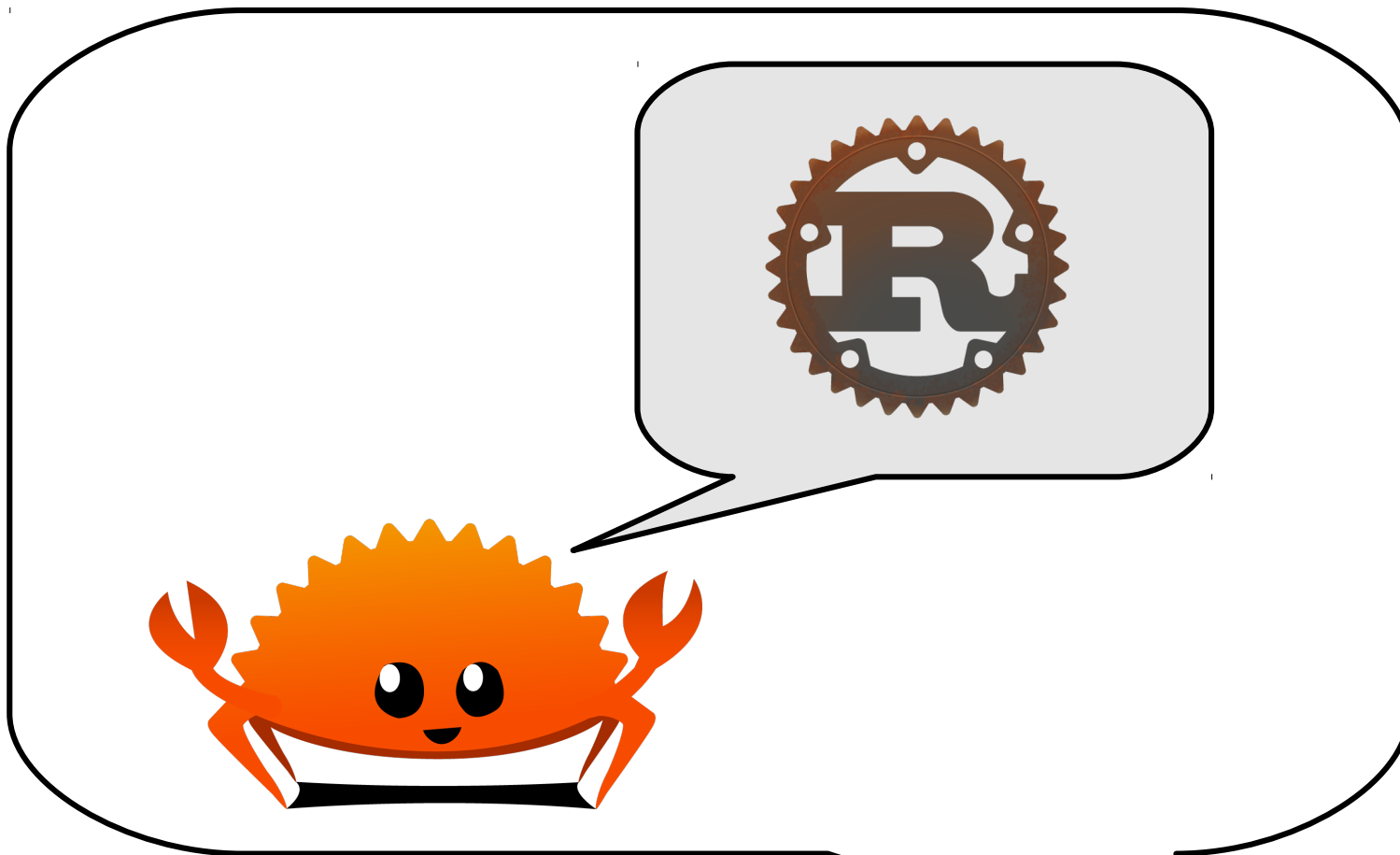
Unique contributors (by email) at start of...

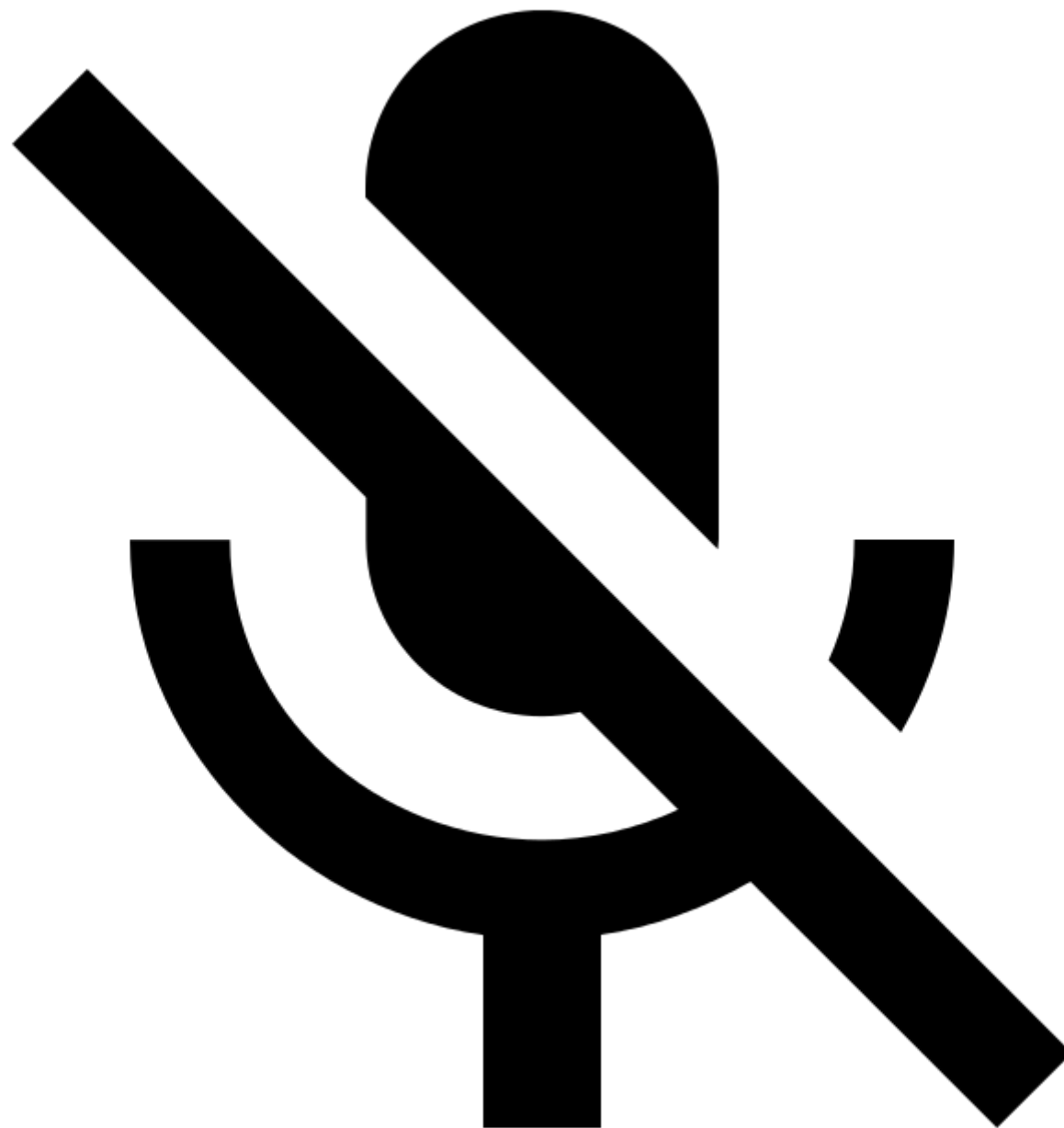


Total commits at start of...









Choosing Rust

- LLVM support?
- Rewrite, FFI, Bindgen, Corrode?
 - <https://doc.rust-lang.org/book/ffi.html>
 - <https://crates.io/crates/bindgen>
 - <https://github.com/jameysharp/corrode>
- Time?
- Interest?



safety

/ˈseɪfti/ 

noun

1. the condition of being protected from or unlikely to cause danger, risk, or injury.

"they should leave for their own safety"

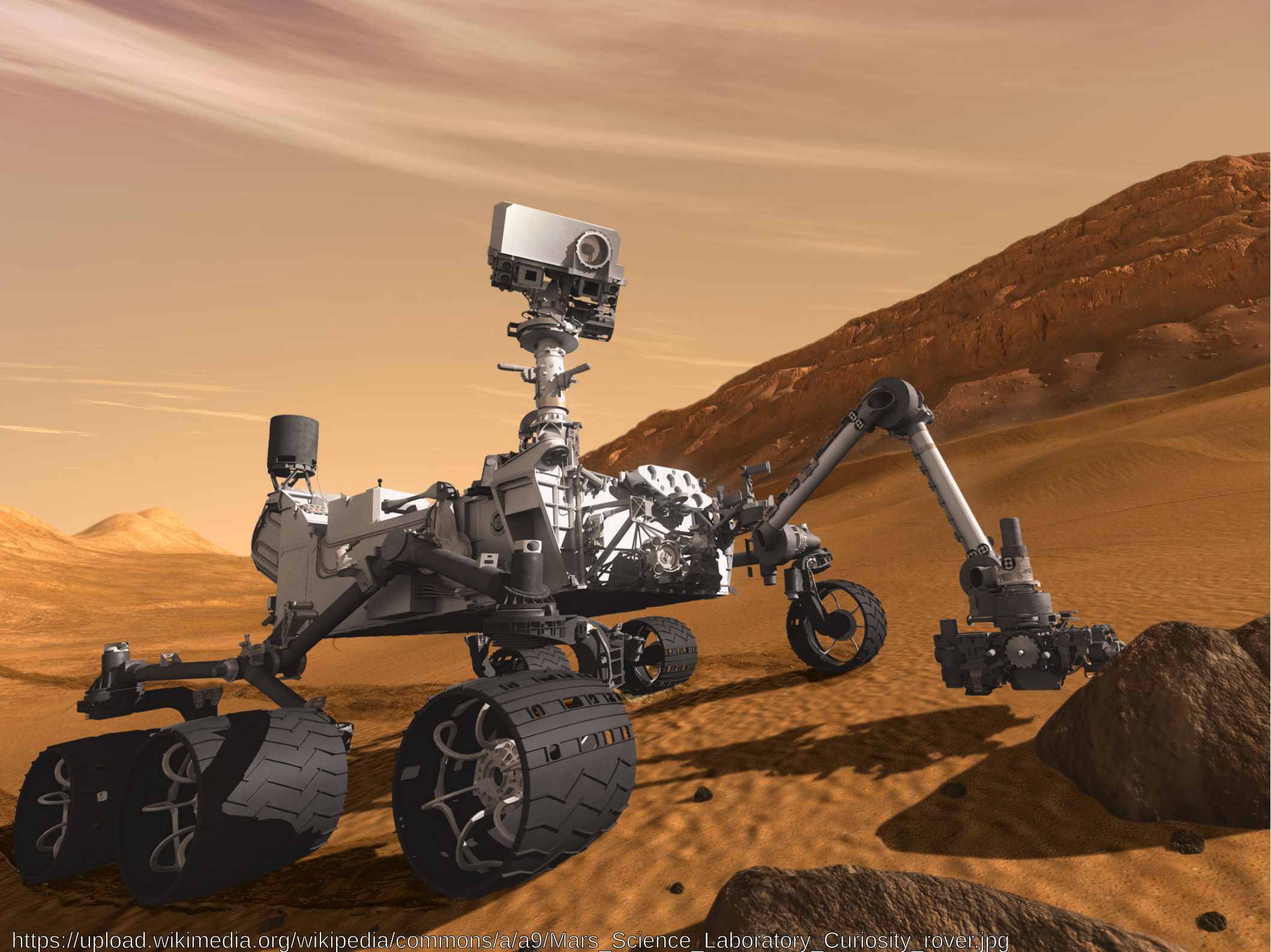
synonyms: [welfare](#), [well-being](#), [protection](#), [security](#) [More](#)



Translations, word origin, and more definitions



h



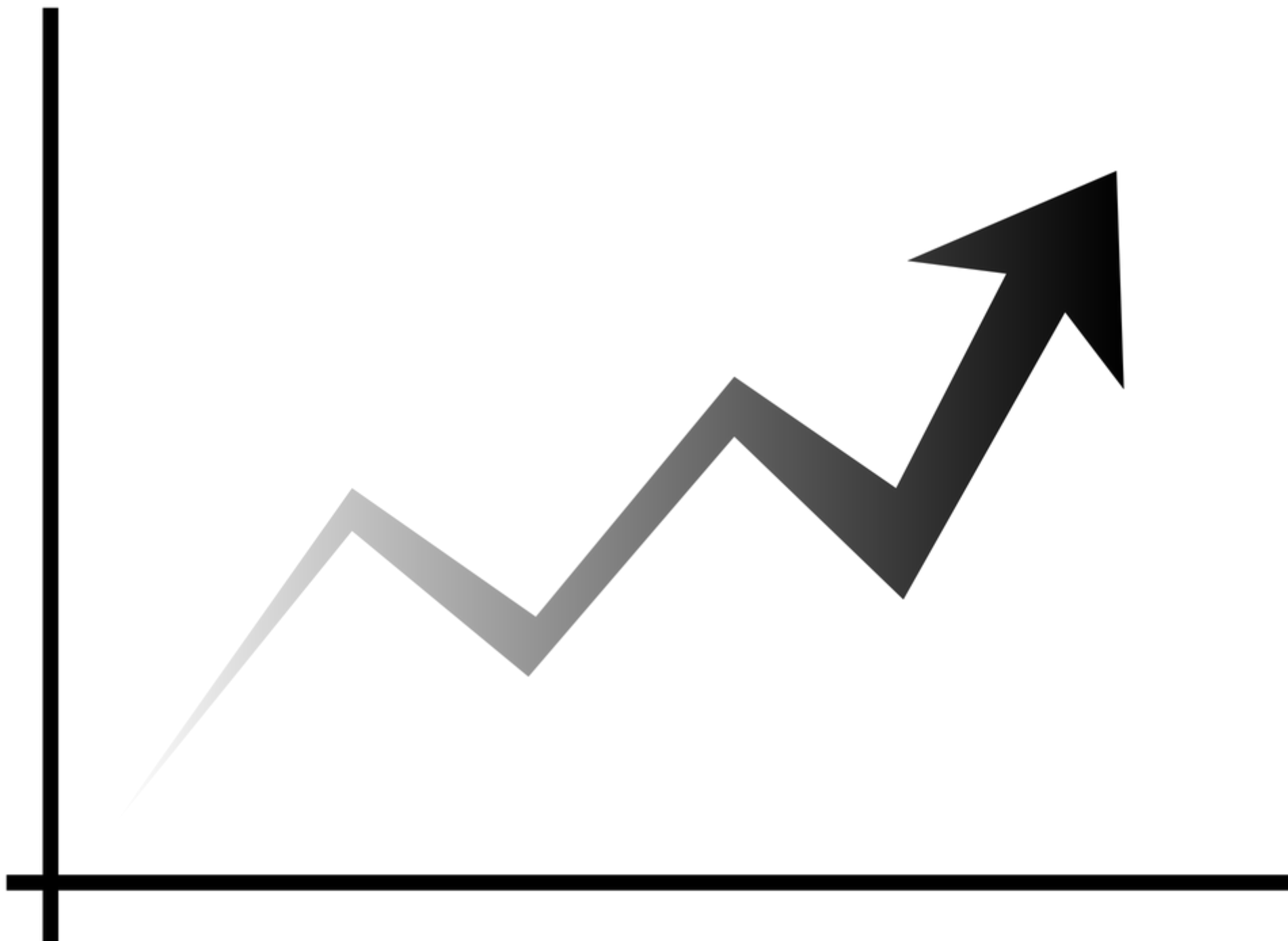


“Fail fast!”



Your PC ran into a problem and needs to restart. We're just collecting some error info, and then we'll restart for you. (0% complete)







Safe code means
you can take better risks.



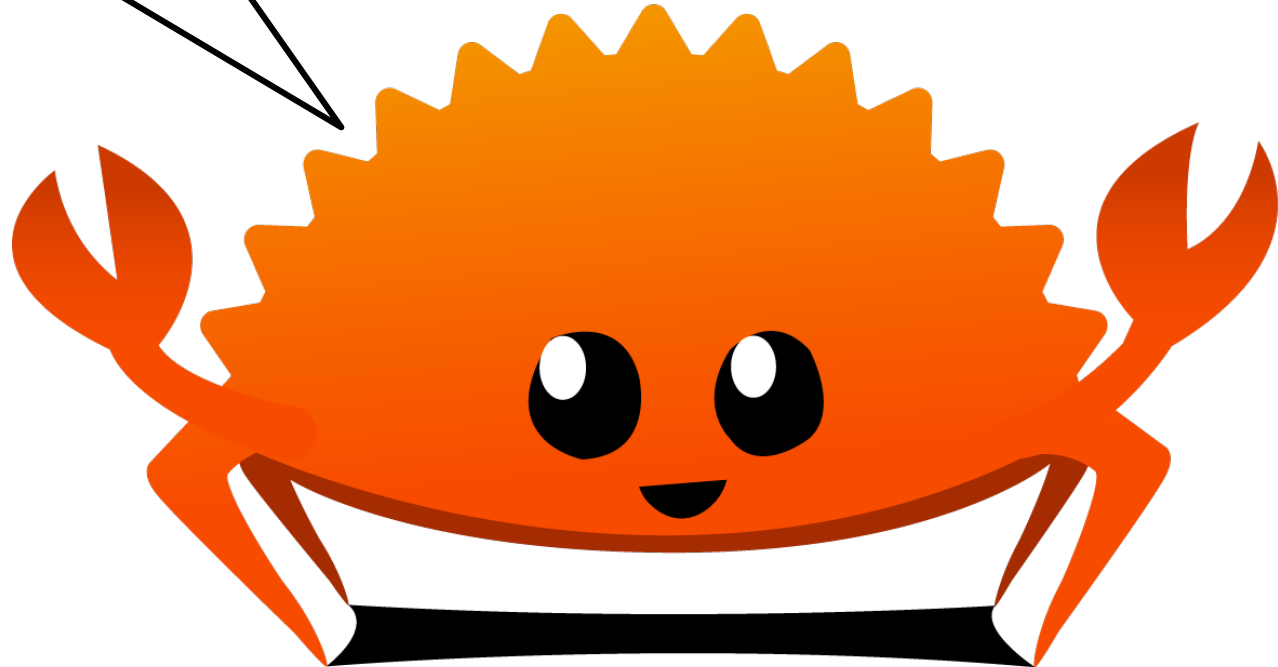


спасибо 谢谢
GRACIAS
THANK YOU

ありがとうございました MERCI

DANKE धन्यवाद

شُكراً OBRIGADO



Need volunteers?

- <http://yourfirstpr.github.io/>
- <http://openhatch.org/>
- <http://24pullrequests.com/>
- <https://www.codemontage.com/>
- <http://issuehub.io/>
- <http://up-for-grabs.net>









Please read [The Rust Community Code of Conduct](#)

What's everyone working on this week (5/2016)? (users.rust-lang.org)

16

Welcome to The Rust Programming Language Forum — **thanks for starting a new conversation!**

- Does the title sound interesting if you read it out loud? Is it a good summary?
- Who would be interested in this? Why does it matter? What kind of responses do you want?
- Include commonly used words in your topic so others can *find* it. To group your topic with related topics, select a category.

For more [see our community guidelines](#) This panel will only appear for your first 2 posts.



```
20:27:31 -!- Topic for #rust: Rust general discussion |  
Current release: 1.6 | Playground  
https://play.rust-lang.org/ | Forum  
https://users.rust-lang.org/ | New user channel:  
#rust-beginners | Conduct  
https://www.rust-lang.org/conduct.html | Logs  
https://botbot.me/mozilla/rust
```

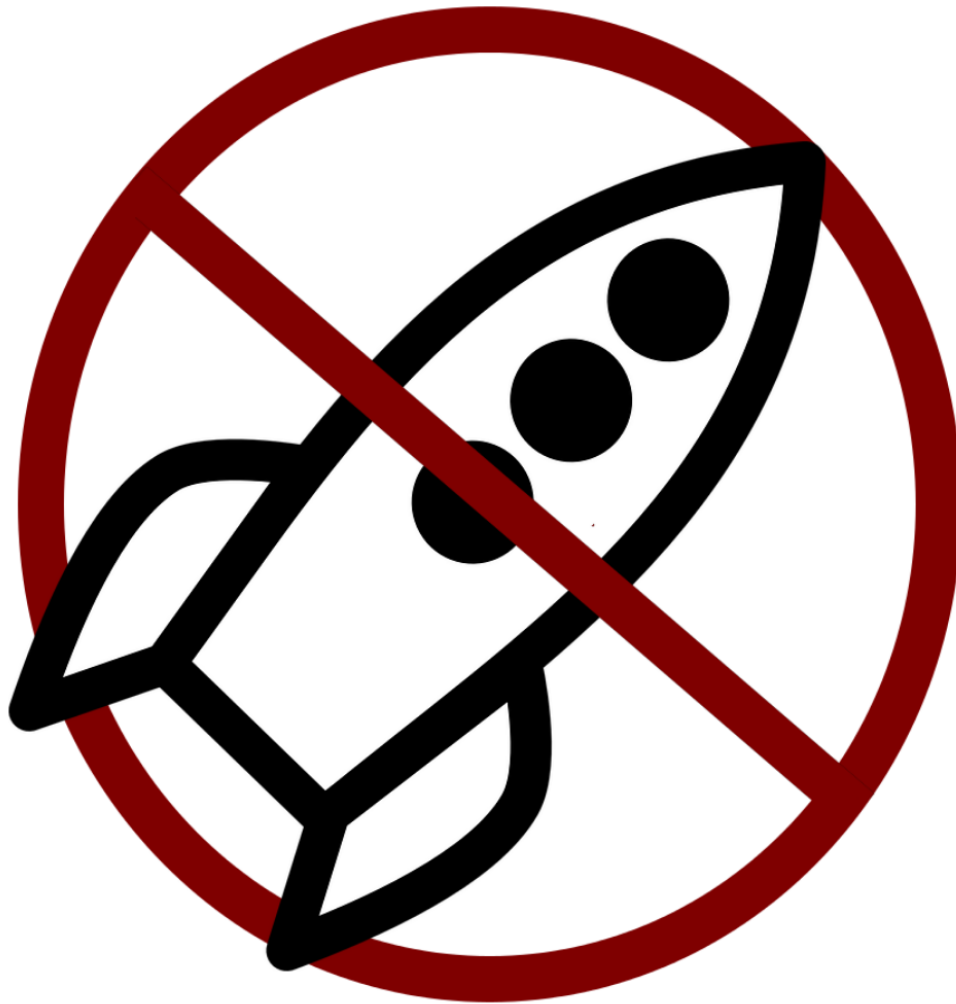
```
20:27:31 -!- Topic set by steveklabnik  
[root@moz-fft.uo8.55.45.IP] [Thu Jan 21 13:38:20 2016]
```

The Rust Code of Conduct

Conduct

Contact: rust-mods@rust-lang.org

- We are committed to providing a friendly, safe and welcoming environment for all, regardless of level of experience, gender, gender identity and expression, sexual orientation, disability, personal appearance, body size, race, ethnicity, age, religion, nationality, or other similar characteristic.
- On IRC, please avoid using overtly sexual nicknames or other nicknames that might detract from a friendly, safe and welcoming environment for all.
- Please be kind and courteous. There's no need to be mean or rude.
- Respect that people have differences of opinion and that every design or implementation choice carries a trade-off and



The Not Rocket Science Rule of Software Engineering: See
<http://graydon.livejournal.com/186550.html>

Automatically maintain
a repository of code
that always passes
all the tests.





The Rust community's crate host

 [Install Cargo](#)


 [Getting Started](#)

Instantly publish your crates and install them. Use the API to interact and find out more information about available crates. Become a contributor and enhance the site with your work.











 **146,219,908** Downloads

 **9,060** Crates in stock

Popular Keywords [\(see all\)](#)

ffi (533)	
windows (458)	
winsdk (400)	
google (247)	
api (216)	
web (201)	
protocol (183)	
cli (178)	
parser (127)	
database (107)	

Popular Categories [\(see all\)](#)

Development tools (94)	
API bindings (87)	
External FFI bindings (62)	
Algorithms (54)	
Data structures (53)	
Command line utilities (52)	
Cryptography (49)	
Multimedia (47)	
Asynchronous (43)	
Encoding (42)	

Package metadata

There are a number of optional metadata fields also accepted under the `[package]` section:

```
[package]
```

```
# ...
```

```
# This is a string description of the license for this package. Currently  
# crates.io will validate the license provided against a whitelist of known  
# license identifiers from http://spdx.org/licenses/. Multiple licenses can be  
# separated with a `/`.
```

```
license = "..."
```

```
# If a project is using a nonstandard license, then this key may be specified in  
# lieu of the above key and must point to a file relative to this manifest  
# (similar to the readme key).
```

```
license-file = "..."
```

<http://doc.crates.io/manifest.html>

89 Rust meetups around the world

Find a Rust meetup on the map or filter from the list below



<> Code

! Issues 641

Pull requests 66

Projects 1

Pulse

Graphs

Filters

is:pr is:open

Labels

Milestones

New pull request

66 Open ✓ 921 Closed

Author

Labels

Projects

Milestones

Reviews

Assignee

Sort



Tiered browser support policy for Rust's web content T-core

10

#1985 opened 15 hours ago by carols10cents



Amend RFC 1242 to require an RFC for deprecation of crates from the nursery T-libs

5

#1983 opened 2 days ago by jethrogb



Make RangelInclusive just a two-field struct (amend 1192) T-libs

7

#1980 opened 4 days ago by scottmcm



RFC for Public/Private Dependencies T-lang T-tools

73

#1977 opened 11 days ago by mitsuhiko



Use Declarations in More Places T-lang

15

#1976 opened 11 days ago by Havvy



Prepare global allocators for stabilization T-libs

70

#1974 opened 12 days ago by sfackler



RFC for prepublication dependencies T-tools

36

#1969 opened 19 days ago by aturon



Allow any Displayable type for expect. T-libs

1

#1968 opened 19 days ago by clarcharr



Unsafe Pointer Methods T-libs

40

#1966 opened 25 days ago by Gankro



Add clamp RFC T-libs

61

#1961 opened on Mar 26 by Xaeroxe

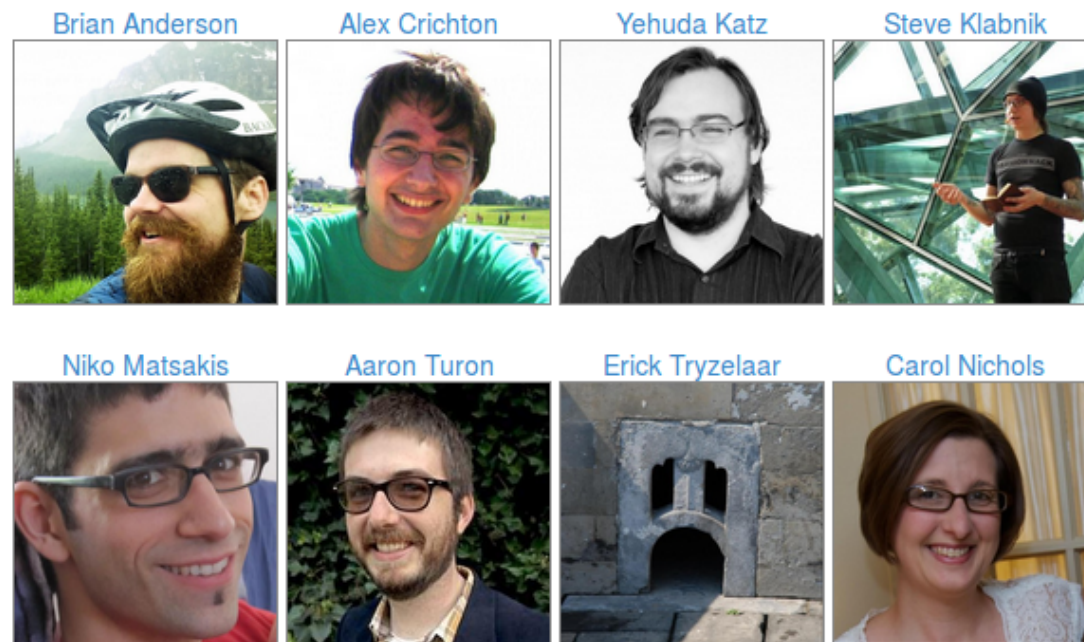
The Rust Team

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

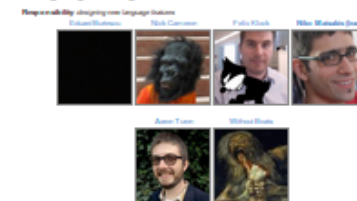
Responsibility: overall direction of the project, subteam leadership, cross-cutting concerns



[Nick Cameron](#)



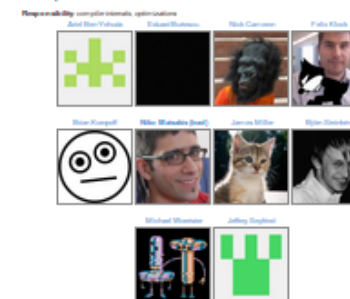
Language design team



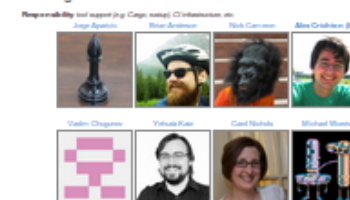
Library team



Compiler team



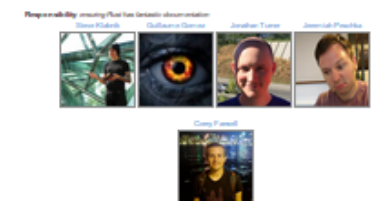
Tooling and infrastructure



Community team



Documentation team



Moderation team



Style team



<https://community.rs/>



Rust Community Team

[Our Blog](#)[Resources](#)[Team](#)[Conduct](#)

The Rust Community team is dedicated to bringing new people into the Rust Programming Language's community, and helping established Rust communities thrive.

The Community Team

- Was [announced](#) in June 2015
- Exists to help:
 - Create and curate reusable community materials
 - Learn from and assist other tech communities
 - Curate and publicize the ecosystem of Rust projects
 - Lead outreach efforts
 - Help coordinate user-led meetups and conferences

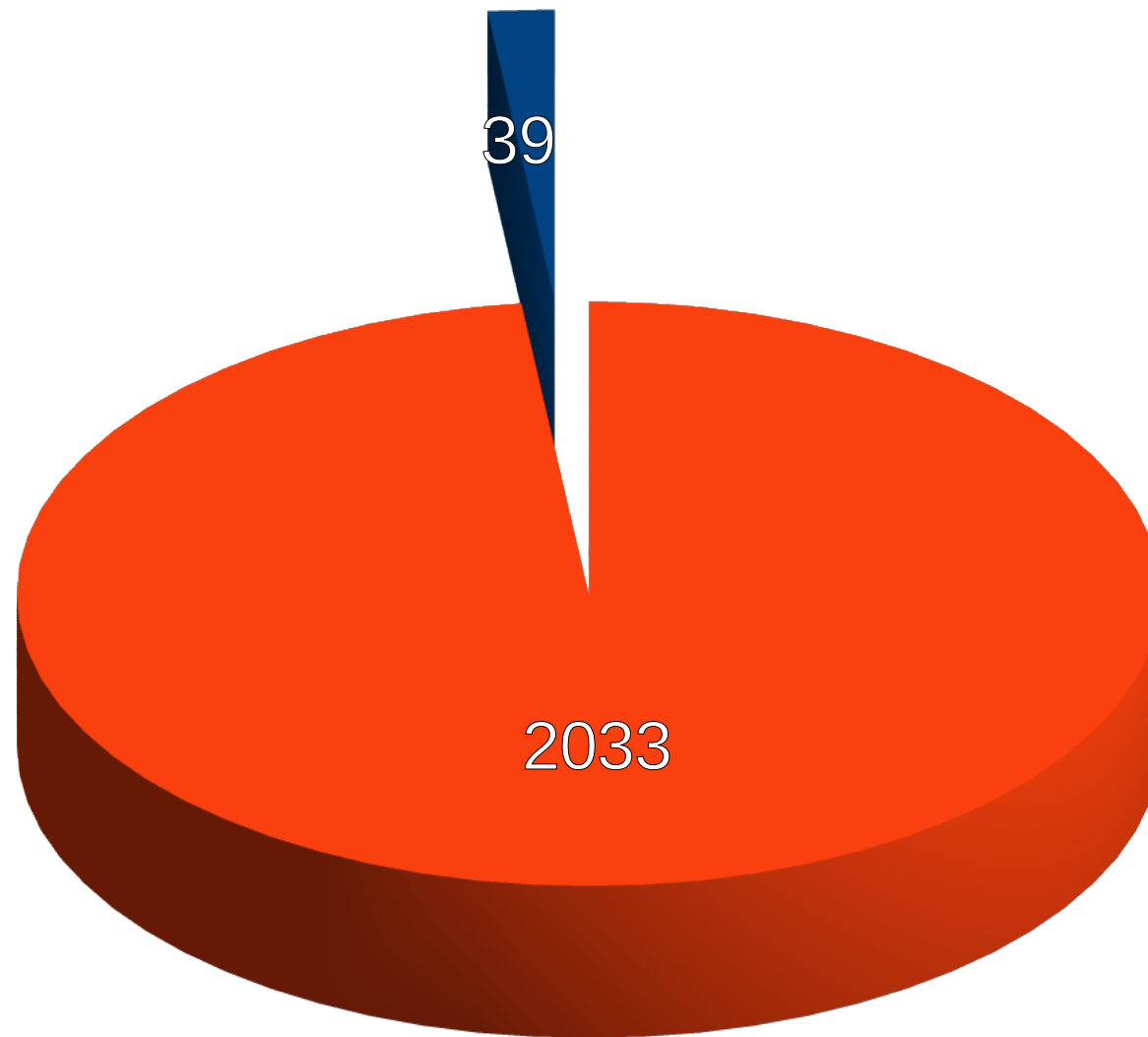
Find a Meetup or conference

- Search [Meetup](#)
- Search [Lanyrd](#)
- Read [the blog](#) for posts like the [2016 conference lineup](#)

Get Involved

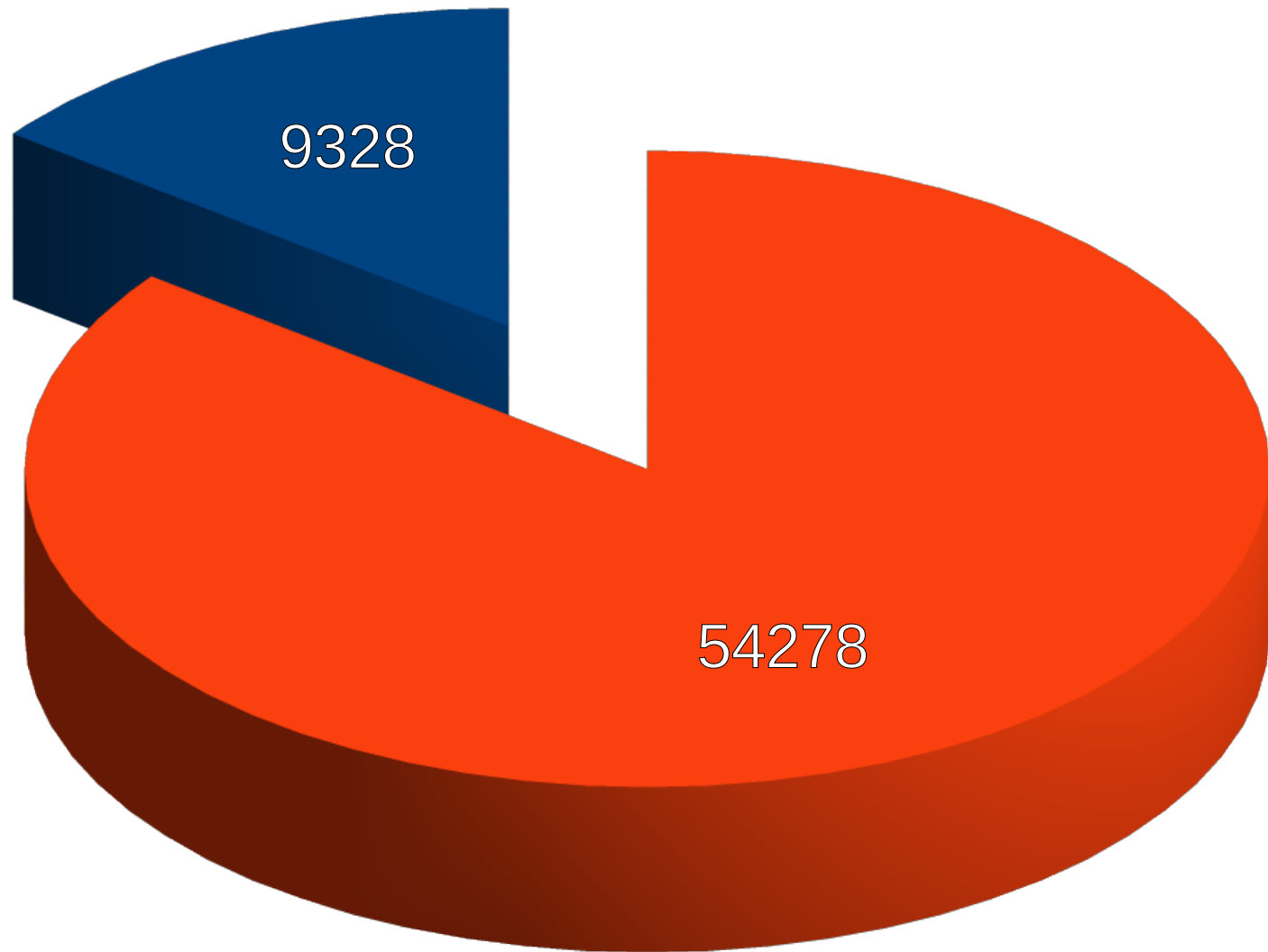
- Community team meetings are 4pm UTC every Wednesday in [#rust-community](#) on [irc.mozilla.org](#)
- Agendas and tasks are kept in [GitHub issues](#)

Rust contributors by email address



■ @mozilla.com ■ Not @mozilla.com

Rust commits by email address



■ @mozilla.com ■ Not @mozilla.com



Make your computer do all it can.

Share what you learn.

Build the
CODE and COMMUNITY
that you want
to see in the world.

talks.edunham.net/rustfest2017

@qedunham