2018 State of Rust Language Survey

Whether or not you use Rust Programming Language (https://rust-lang.org) today, we want to hear from you!

The Rust Community Team has created this survey to help us gauge how we're doing, what can be improved, and how we can best engage with all of you as we move forward.

Our survey will run to September 8, 2018. This is your chance to have a say in the development priorities for Rust.

Unless you choose to enter your email, your answers will be anonymous. Any personal data you submit as a part of this survey will be handled in accordance with our policy as described in our Frequently Asked Questions:

https://github.com/rust-community/team/wiki/State-of-the-Rust-Language-Community-Survey-FAQ

We estimate it will take about 10-15 minutes to complete.

*	Required	
1.	Do you use Rust? *	
	Mark only one oval.	
	Yes Skip to question 6	
	No, I stopped using Rust	Skip to question 2
	No, I've never used Rust	Skip to question 4
	copped using Rust	
2.	How long did you use Rust be	fore you stopped?
	Mark only one oval.	
	Less than a day	
	Less than a week	
	Less than a month	
	Less than a year	
	More than a year	

3.	Why did you stop using Rust?
Ski	p to question 44
Ν	ever used Rust
4.	I don't currently use Rust because
	Select all that apply
	Check all that apply.
	Rust doesn't solve a problem for me
	Rust is too intimidating, too hard to learn, or too complicated
	Rust doesn't have the libraries I need
	Rust doesn't have the tools I need
	Rust doesn't have good IDE support
	Rust doesn't support the platforms I need
	Rust seems too risky to use in production
	My company doesn't use Rust
	Switching to Rust would slow me down too much
	I haven't learned Rust, yet, but I want to.
	I haven't learned Rust, yet, and I don't want to.
5.	Please provide any more details on why you are not using Rust

6.	How did you get interested in Rust?
7.	How long have you been working with Rust?
	Mark only one oval.
	Less than a week
	Less than a month
	1 to 3 months
	3 to 6 months
	6 to 12 months
	1 to 2 years
	2 to 3 years
	More than 3 years
8.	How long did it take you to get productive in Rust?
	Mark only one oval.
	Less than a week
	Less than a month
	Less than a year
	More than a year
	I don't feel productive, yet

9.	If you summed the size of all Rust projects you work on, how big would it be?	
	Mark only one oval.	
	Less than 1,000 lines 1,000 to 10,000 lines 10,000 to 100,000 lines More than 100,000 lines I don't know	
10.	How regularly do you work with Rust?	
	Mark only one oval.	
	Daily	
	Weekly	
	Monthly	
	Rarely	
11.	How would you rate your Rust expertise? Mark only one oval.	
	1 2 3 4 5 6 7 8 9 10	
	Beginner Expert	

How would you rate the difficulty of learning these concepts/topics?

12.

13.

I don't know

Has upgrading to a new stable version of the Rust compiler (not when upgrading library dependencies) broken your code in the past year?
Mark only one oval.
Yes
No
If so, how much work did it take to fix your code when you upgraded to a new stable version of the Rust compiler? Mark only one oval.
1 2 3 4 5 A little
Please provide details about what broke and what was needed to fix it

18.	What's your preferred way of installing Rust? Select all that apply
	Check all that apply.
	Official rust-lang.org tarballs Official rust-lang.org Windows .msi installers Official rust-lang.org OS X .pkg installers rustup.rs Linux distribution package Homebrew
19.	If you prefer an alternative method, how do you install Rust?
20.	If you do not use <u>rustup.rs</u> , why not?
21.	If you do not use Cargo, why not?

	Really dislike	Dislike	Neither like or dislike	Like	Really like	Neve used
rustfmt						
clippy						
rustdoc or cargo doc						
racer						
Rust Language Server						
bindgen						
Feel free to tell us tools	s more ab	out your e	experience with	these too	ols, or oth	er Rus
	s more ab	out your e	experience with	these too	ols, or oth	er Rus
	s more ab	out your e	experience with	these too	ols, or oth	er Rus
tools				these too	ols, or oth	er Rus
t Platform What platforms a	ire you de			these too	ols, or oth	er Rus

22. What is your experience with other tools you use?

What platforms are you targeting?
Select all that apply
Check all that apply.
Android
Windows
Apple iOS
Apple macOS
Linux
BSD-variant
WebAssembly / asm.js
Embedded
What other platforms are you targeting?
what other platforms are you targeting.

28.	What editor do you use when writing Rust?
	Select all that apply
	Check all that apply.
	Atom
	Eclipse
	Emacs
	IntelliJ
	Sublime
	Vim
	Visual Studio
	VSCode
29.	What other editors do you use?
Rus	st Ecosystem
30.	What libraries do you consider critical in the Rust ecosystem?

	The Rust ecosystem uses semantic versioning to signal to users if upgrading a library to a particular version is backwards compatible, or contains breaking changes. You can read more about it here: http://doc.crates.io/manifest.html#the-version-field
	Mark only one oval.
	Yes
	No
32.	If so, please provide details here on how minor version upgrades broke your code.
33.	How many of your dependencies are 1.0 or above?
	Mark only one oval.
	None
	Some
	Most
	All
	I don't know
34.	What critical libraries are missing in the Rust ecosystem?

31. Has a minor version upgrade of a dependency broken your code?

Rust at Work There are a growing number of companies using Rust at work: https://www.rust-lang.org/en-US/friends.html. This section asks about professional experience with our project.

35.	Do you or your company use Rust at work?		
	Mark only one oval.		
	Yes, I work with Rust full time Skip to question 39		
	Yes, I work with Rust part time Skip to question 39		
	No, but my company uses Rust Skip to question 39		
	No Skip to question 37		
	Not sure Skip to question 44		
	Not applicable Skip to question 44		
36.	For programmers - what languages, other than Rust, do you use at work?		
Skip	to question 39		
No	t using Rust at Work		
110	t doing reast at Work		
37.	Does your company plan to use or evaluate Rust in the future?		
	Mark only one oval.		
	Wark only one oval.		
	Yes		
	No		
	L don't know		

38.	How could we make Rust more appealing to your company?
Skir	o to question 44
	ing Rust at Work
39.	How many developers at your company use Rust at work?
	Mark only one oval.
	<u> </u>
	2-5
	<u> </u>
	11-25
	25-100
	More than 100
	I don't know
40.	If you summed the size of all Rust projects at work, how big would it be?
	Mark only one oval.
	Less than 1,000 lines
	1,000 to 10,000 lines
	10,000 to 100,000 lines
	More than 100,000 lines
	I don't know

41.	Is your company	planning on hiring Rust developers in the next year?
	Mark only one ov	al.
	Yes	
	No	
	I don't know	
42.	What are some v	vays you or your company is using Rust at work?
43.	How could we be	olo maka Duat mara aggentad at your gempany?
43.	now could we no	elp make Rust more accepted at your company?
Skin	to question 44	
only to quotion Tr		This section asks about your technical and professional experience outside
Technical		of the Rust project.
Background		

44.	Which titles do you believe best match your role?
	Optional. Select all that apply
	Check all that apply.
	Analyst
	Architect
	Consultant / Freelance
	Data Scientist
	Designer
	DevOps / SRE
	Executive
	Founder
	Hobbyist
	Manager / Team Leader
	Programmer / Software Engineer
	QA Engineer
	Research Assistant
	Scientist
	Student
	System Operations
	Teacher / Professor
	Technical Writer
	Web Developer / Front End Developer
45.	Is there a title not in this list that better describes your role?

46.	What industries do you work in? Optional. Select all that apply
	Check all that apply.
	AdvertisingAdvertising / Marketing TechnologyAerospaceAudio
	Automated Share Trading
	Big Data
	Bioinformatics
	Computer Administration
	Data Science
	Databases
	Desktop Applications
	Distributed Systems
	Education / Academia
	Embedded Devices
	Enterprise Software
	Financial
	Gaming
	Geospatial
	Government / Military
	Health Care
	High-Performance Computing (HPC)
	Internet of Things
	☐ IT
	Industrial
	Machine Learning
	Entertainment / Media
	Medical Devices
	Mobile (Android)
	Mobile (iOS)
	Network Programming
	Retail / e-commerce
	Robotics
	Scientific and Numeric Computing
	Security
	Simulation
	Technology
	Telecom

Web Application Backend
Web Application Frontend
Is there a better industry term that describes your workplace?
How many coftware developers work at your company?
How many software developers work at your company?
Mark only one oval.
Not Applicable
None
1-10
10-20
20-50
50-100
100-1000
More than 1000
Have you contributed to any open source code in the past year?
Mark only one oval.
◯ Vao
Yes
○ No

50.	If you answered yes, have you ever contributed to a Rust crate or tool?
	Mark only one oval.
	No, but if I find something that bothers me, I'll try to help fix it No, and I probably won't Yes, a couple times Yes, I contribute regularly Yes, I maintain crates
51.	What programming languages are you comfortable with? Select all that apply
	Check all that apply.
	C
	Swift

52.	Are there other in this list?	er programming languages you are comfortable with that are not
Dei	mographics	Our teams are committed to making the Rust community a welcoming space for all. This will help us measure the effectiveness of our outreach efforts. Feel free to fill in as much or as little as you would like.
53.	Do you feel we	elcome in the Rust community?
	Mark only one	oval.
	Yes No	
	I don't kno	ow .
54.	What actions	could we take to make you feel more welcome?

55.	Do you consider yourself a member of an underrepresented demographic in	
	technology?	
	Optional - Select all that apply. Please share only what you are comfortable sharing. This will help us understand how well our outreach efforts are going. Check all that apply.	
	□ No	
	Yes, but I prefer not to specify	
	Cultural beliefs	
	Disabled or person with disability (including physical, mental, and other)	
	Educational background	
	Language	
	Lesbian, gay, bisexual, queer or otherwise non-heterosexual	
	Non-binary gender	
	Older or younger than the average developers I know	
	Political beliefs	
	Racial or ethnic minority	
	Religious beliefs	
	Trans	
	Woman or perceived as a woman	
56.	Do you consider yourself a member of an underrepresented demographic that	
	is not in this list?	
	Optional. Please share only what you are comfortable sharing.	

57.	Do you feel your situation makes it difficult for you to participate in the Rust community? Optional. Please share only what you are comfortable sharing.
	Mark only one oval.
	Yes
	◯ No
	Maybe
58.	If you find it difficult to participate in the Rust community, and feel comfortable giving more details, please tell us what makes it difficult
	Optional. Please share only what you are comfortable sharing.
59.	What city / state / region / country do you live in?
	Optional. Please share only what you are comfortable sharing. This helps us understand where our community is located so we can help develop local content, meetups, and other events.

60.	What language(s) are you fluent in?
	Optional - Select all that apply
	Check all that apply.
	Arabic
	Bengali
	Cantonese
	English
	French
	German
	Hindi
	Japanese
	Mandarin Mandarin
	Polish
	Portuguese
	Punjabi
	Russian
	Swedish
	Spanish
61.	What other languages are you fluent in?
Ru	st Conferences
62.	Did you attend a Rust conference in the past year? If so, which ones?

63.	If you wanted to attend a Rust conference, but couldn't, why not?

64.	If you are interested in attending a Rust conference, which of these regions
	would you travel to?
	Select all that apply - This list is derived from https://en.wikipedia.org/wiki/Template:Regions_of_the_world
	Check all that apply.
	Africa - North
	Africa - East
	Africa - Central
	Africa - West
	Africa - South
	North America - Canada
	North America - United States
	North America - Mexico
	North America - Central
	North America - Caribbean
	South America - North
	South America - South
	South America - West
	South America - East
	Asia - Central
	Asia - North
	Asia - East
	Asia - West
	Asia - South
	Asia - Southeast
	Europe - North
	Europe - East
	Europe - Central
	Europe - West
	Europe - South
	Oceania - Australia
	Oceania - New Zealand
	Oceania - Melanesia
	Oceania - Micronesia
	Oceania - Polynesia

65.	Please provide more precise details on where you would travel to for a Rust conference					
Cr	allenges and Feedback					
66.	What do you feel are the biggest challenges or problems for the Rust project? What could we do to improve adoption?					
67.	What new things related to the Rust project are you most excited about in 2018?					
68.	Anything else you would like to tell us?					

Contact Information

If you would like to be contacted by a member of the Rust Community or Core teams, please enter your email address. We will not share this information with third parties. You may also send an email to community-team@rust-lang.org or the core-team@rust-lang.org if you would like to avoid associating your answers in this survey with your identity. If you would like to read more about out how we will use and protect contact information, you can read more about it on our FAQ:

https://github.com/rust-community/team/wiki/State-of-the-Rust-Language-Community-Survey-FAQ

Email Addres	SS
Optional - Only s	hare if you are comfortable.
What are the	reasons you would like to be contacted?
Check all that a	apply.
I am intere	sted in attending Rust meetups or conferences ested in starting a Rust meetup or conference any uses Rust, or would like to, and I would like to talk to the Core or
Community tea	am ested in Rust training
	ested in being contacted for more details on my survey answers.
lf other, why Optional	would you like to be contacted?

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