Rust Usage

Number of records in this query:	878
Total records in survey:	878
Percentage of total:	100.00%

Summary for G01Q09

Rust is important to my work or projects (1 disagree - 5 agree)

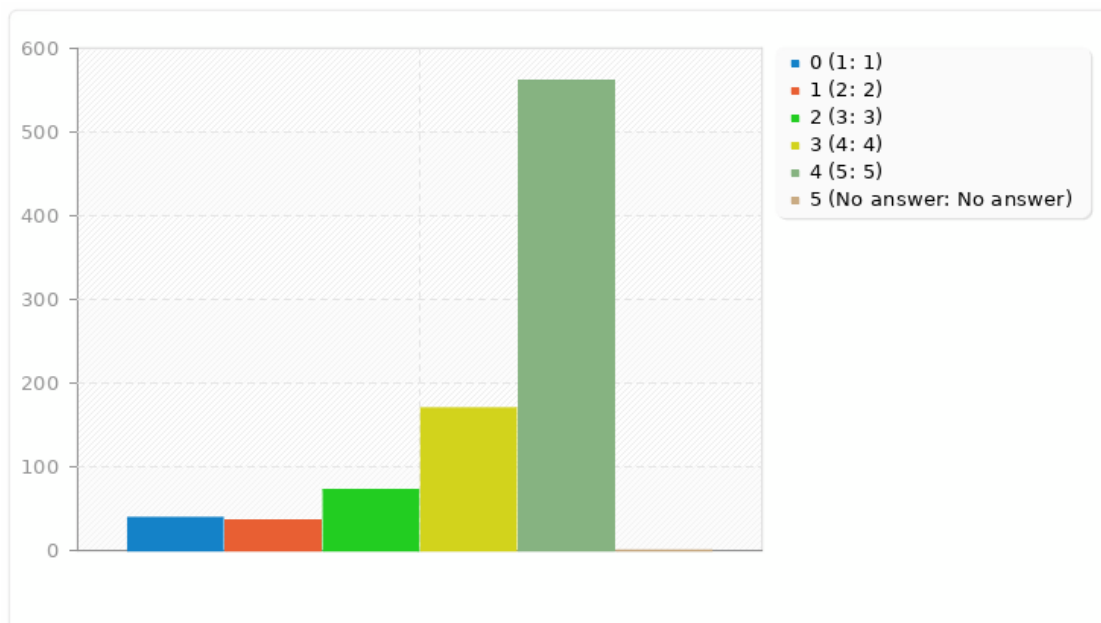| Answer	Count	Percentage	Sum
1 (1)	109	12.41%	20.84%
2 (2)	74	8.43%	
3 (3)	124	14.12%	14.12%
4 (4)	175	19.93%	
5 (5)	396	45.10%	65.03%
No answer	0	0.00%	0.00%
Arithmetic mean	3.77		
Standard deviation	1.41		
Sum (Answers)	878	100.00%	100.00%
Number of cases		0%	

Summary for G01Q11

Rust will become more important in my work or projects in the future. (1 disagree - 5 agree)

Answer	Count	Percentage	Sum
1 (1)	39	4.44%	8.54%
2 (2)	36	4.10%	
3 (3)	72	8.20%	8.20%
4 (4)	170	19.36%	
5 (5)	561	63.90%	83.26%
No answer	0	0.00%	0.00%
Arithmetic mean	4.34		
Standard deviation	1.08		
Sum (Answers)	878	100.00%	100.00%
Number of cases		0%	

- 0 (1: 1)
- 1 (2: 2)
- 2 (3: 3)
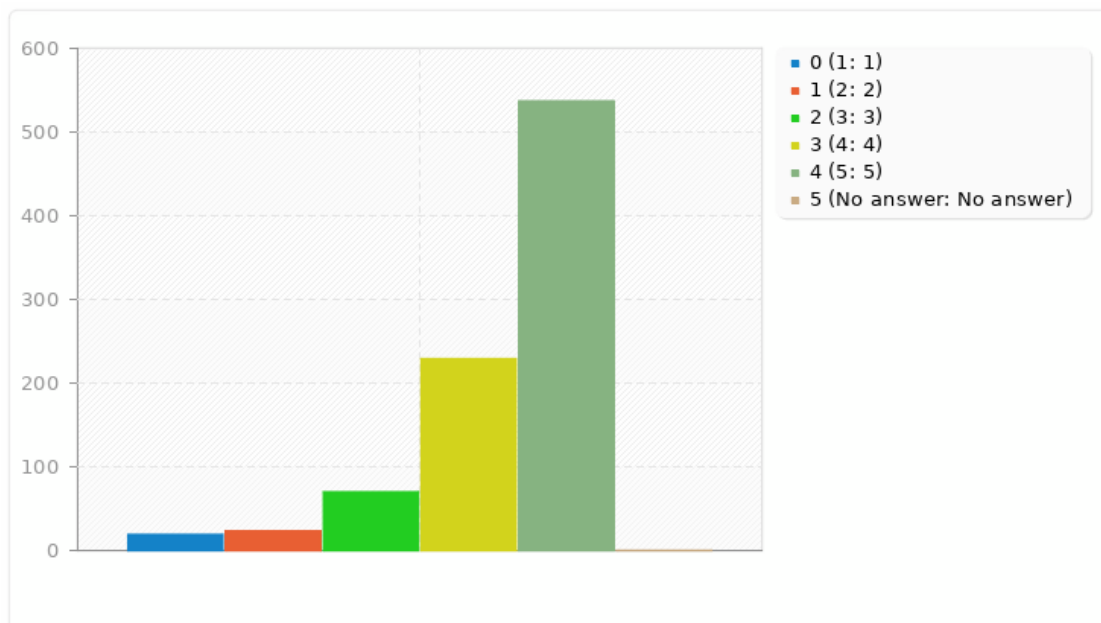- 3 (4: 4)
- 4 (5: 5)
- 5 (No answer: No answer)

Summary for G01Q10

Rust will become more important to other developers and projects in the future (1 disagree - 5 agree)

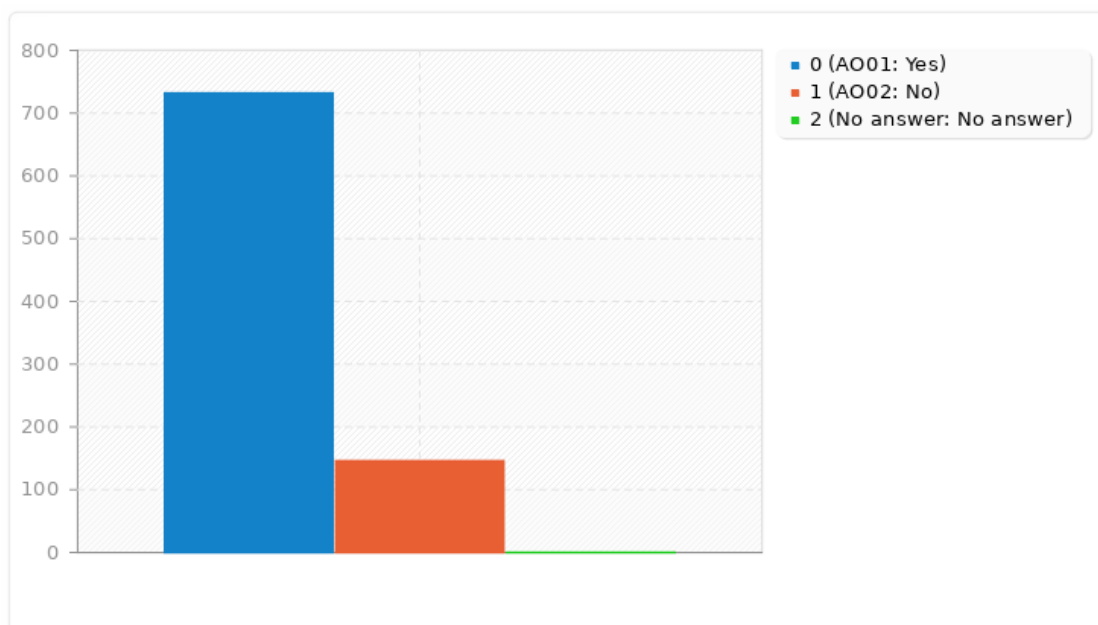| Answer	Count	Percentage	Sum
1 (1)	19	2.16%	4.78%
2 (2)	23	2.62%	
3 (3)	70	7.97%	7.97%
4 (4)	229	26.08%	
5 (5)	537	61.16%	87.24%
No answer	0	0.00%	0.00%
Arithmetic mean	4.41		
Standard deviation	0.91		
Sum (Answers)	878	100.00%	100.00%
Number of cases		0%	

Summary for G01Q08

I develop software using Rust

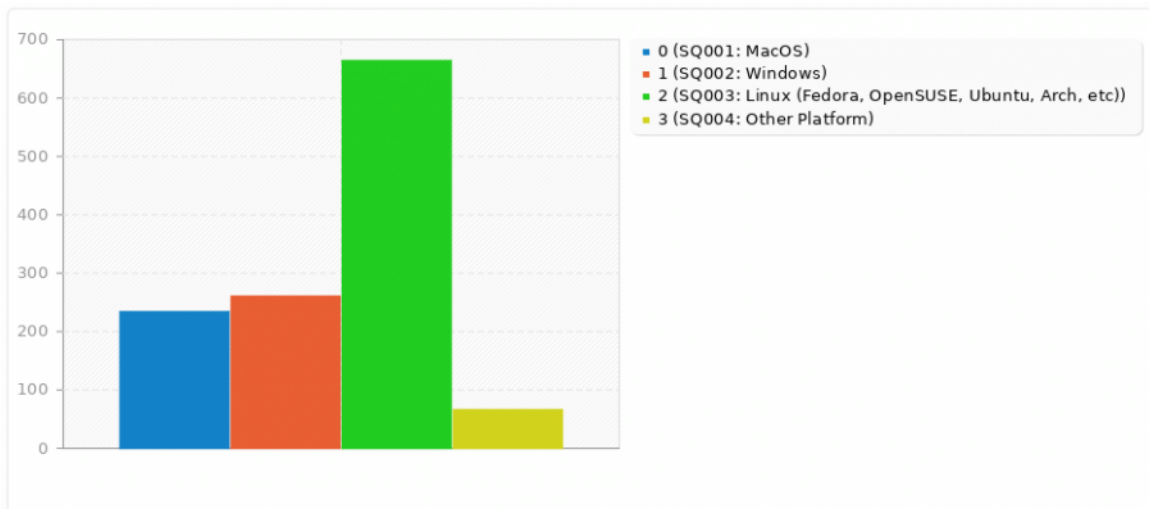| Answer	Count	Percentage
Yes (AO01)	732	83.37%
No (AO02)	146	16.63%
No answer	0	0.00%

Summary for G01Q02

As a developer, I use Rust on the following platforms while programming. Choose all that apply.

Answer	Count	Percentage
MacOS (SQ001)	234	31.97%
Windows (SQ002)	260	35.52%
Linux (Fedora, OpenSUSE, Ubuntu, Arch, etc) (SQ003)	664	90.71%
Other Platform (SQ004)	66	9.02%

Summary for G01Q02

As a developer, I use Rust on the following platforms while programming. Choose all that apply.
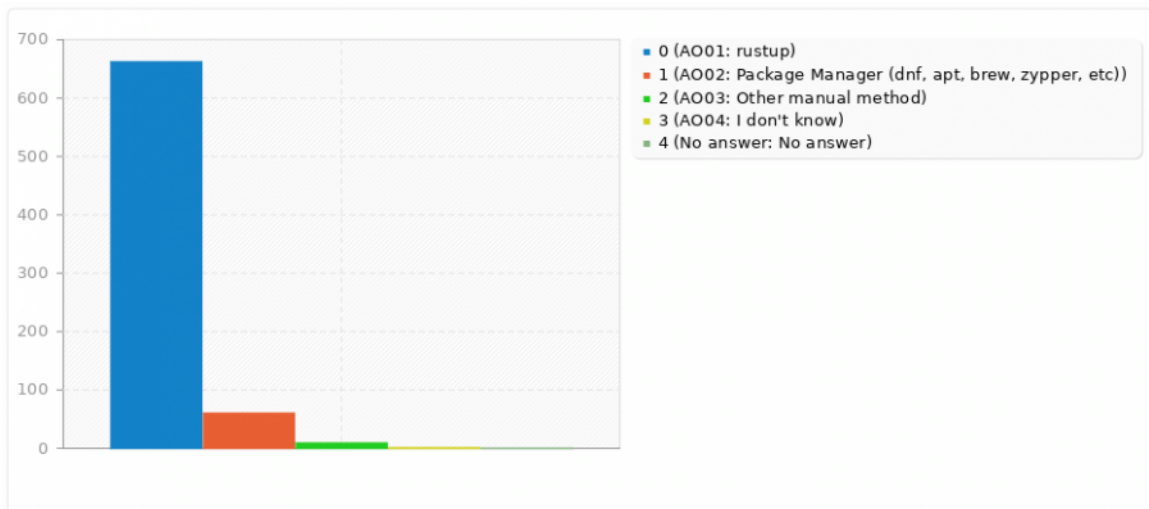
Summary for G01Q04

On your primary development platform, how did you install your Rust toolchain?

Answer	Count	Percentage
rustup (AO01)	662	90.44%
Package Manager (dnf, apt, brew, zypper, etc) (AO02)	60	8.20%
Other manual method (AO03)	9	1.23%
I don't know (AO04)	1	0.14%
No answer	0	0.00%

Legend:
- 0 (AO01: rustup)
- 1 (AO02: Package Manager (dnf, apt, brew, zypper, etc))
- 2 (AO03: Other manual method)
- 3 (AO04: I don't know)
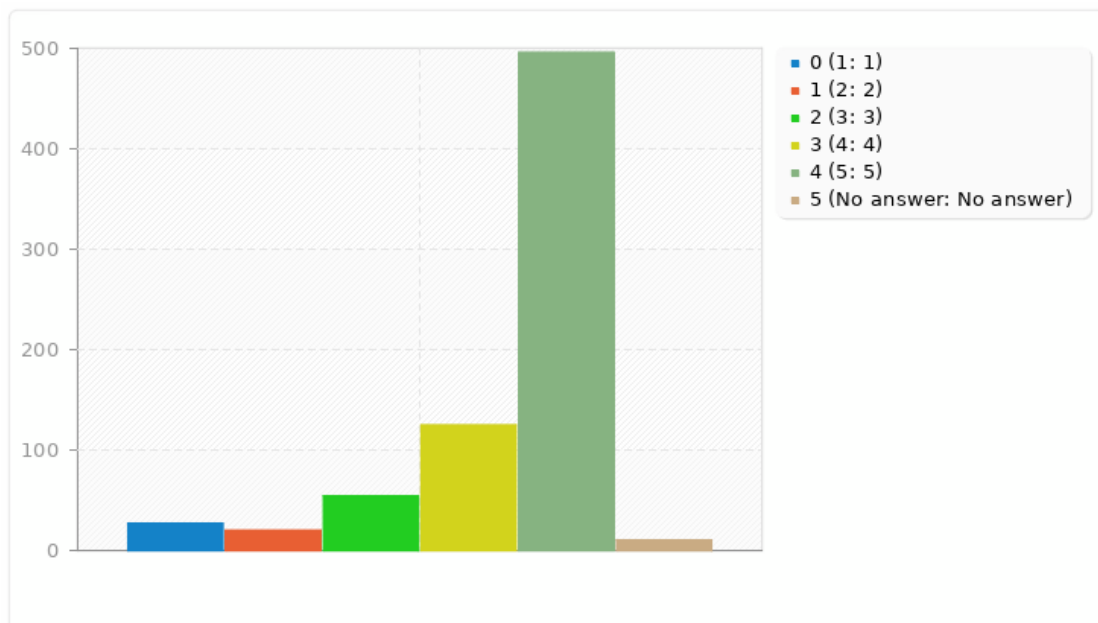- 4 (No answer: No answer)

Summary for G01Q03(SQ001)[Integrated Development Environments with Language Features (syntax highlight, errors, completion, type checking)]

The following features or tools are important in my development environment (do not use 1 - use a lot 5).

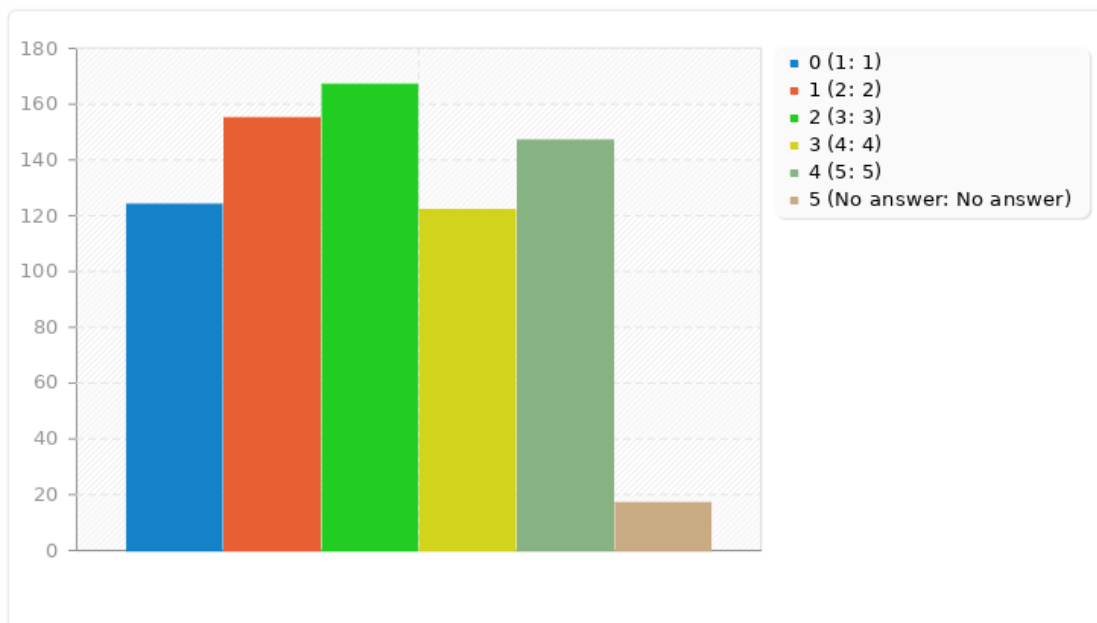| Answer	Count	Percentage	Sum
1 (1)	27	3.11%	5.41%
2 (2)	20	2.30%	
3 (3)	54	6.22%	6.22%
4 (4)	125	14.40%	
5 (5)	496	57.14%	71.54%
No answer	10	1.14%	0.00%
Arithmetic mean	4.44		
Standard deviation	1.01		
Sum (Answers)	722	100.00%	100.00%
Number of cases		0%	

Summary for G01Q03(SQ002)[Debugging tools (lldb, gdb)]

The following features or tools are important in my development environment (do not use 1 - use a lot 5).

Answer	Count	Percentage	Sum
1 (1)	124	14.40%	32.40%
2 (2)	155	18.00%	
3 (3)	167	19.40%	19.40%
4 (4)	122	14.17%	
5 (5)	147	17.07%	31.24%
No answer	17	1.94%	0.00%
Arithmetic mean	3.02		
Standard deviation	1.38		
Sum (Answers)	715	100.00%	100.00%
Number of cases		0%	

Legend:
- 0 (1: 1)
- 1 (2: 2)
- 2 (3: 3)
- 3 (4: 4)
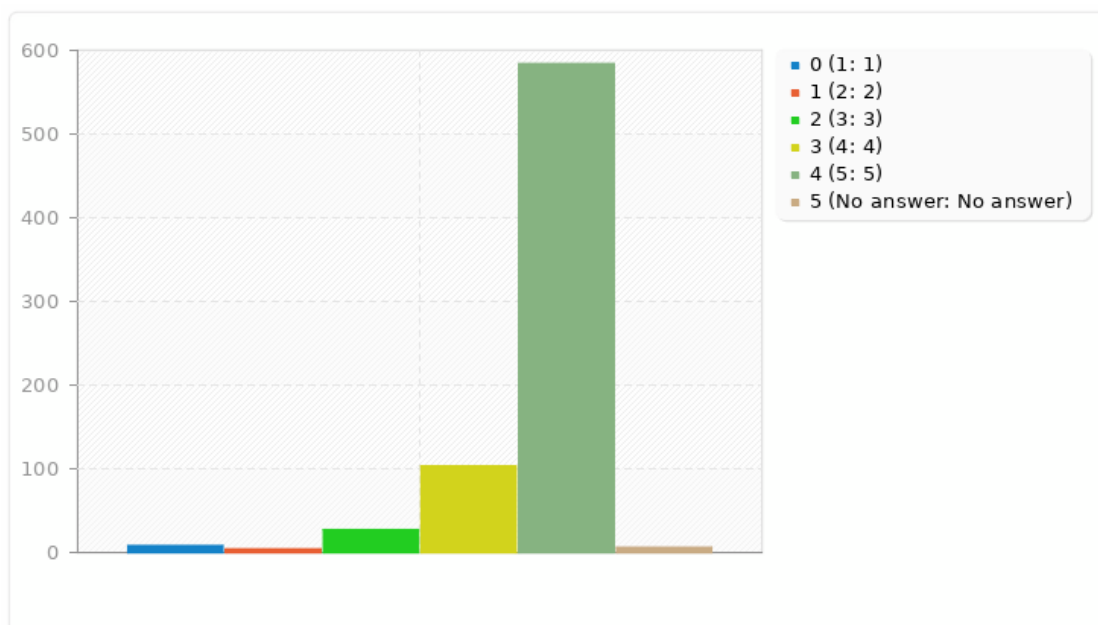- 4 (5: 5)
- 5 (No answer: No answer)

Summary for G01Q03(SQ003)[Online Documentation (doc.rust-lang.org, docs.rs)]

The following features or tools are important in my development environment (do not use 1 - use a lot 5).

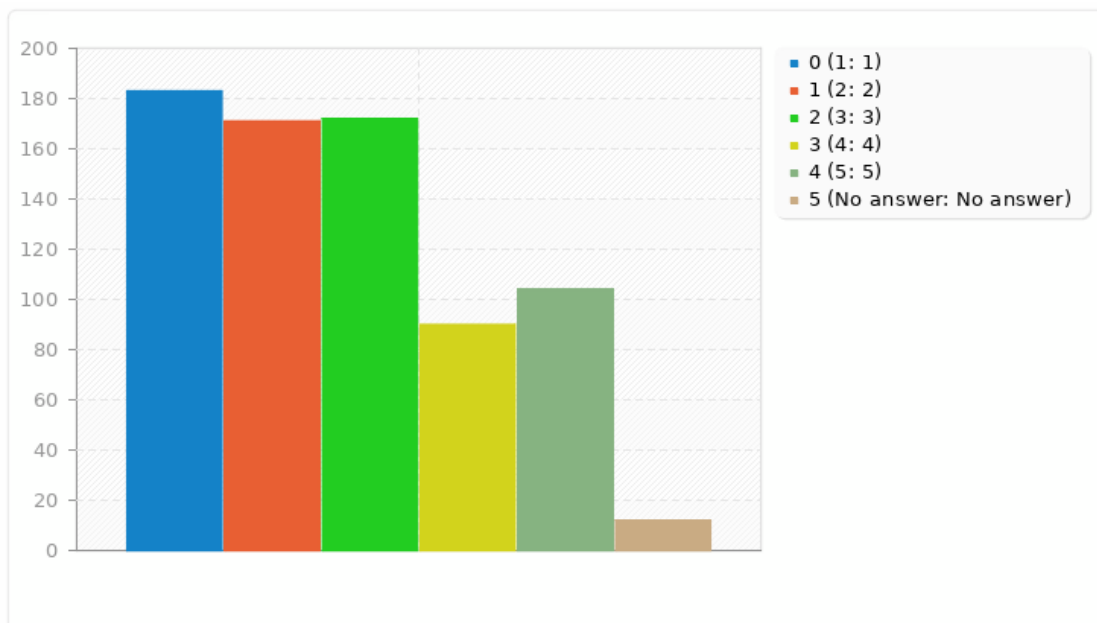| Answer	Count	Percentage	Sum
1 (1)	8	0.92%	1.38%
2 (2)	4	0.46%	
3 (3)	27	3.10%	3.10%
4 (4)	103	11.81%	
5 (5)	584	66.97%	78.78%
No answer	6	0.68%	0.00%
Arithmetic mean	4.72		
Standard deviation	0.66		
Sum (Answers)	726	100.00%	100.00%
Number of cases		0%	

Summary for G01Q03(SQ004)[Offline Documentation (local)]

The following features or tools are important in my development environment (do not use 1 - use a lot 5).

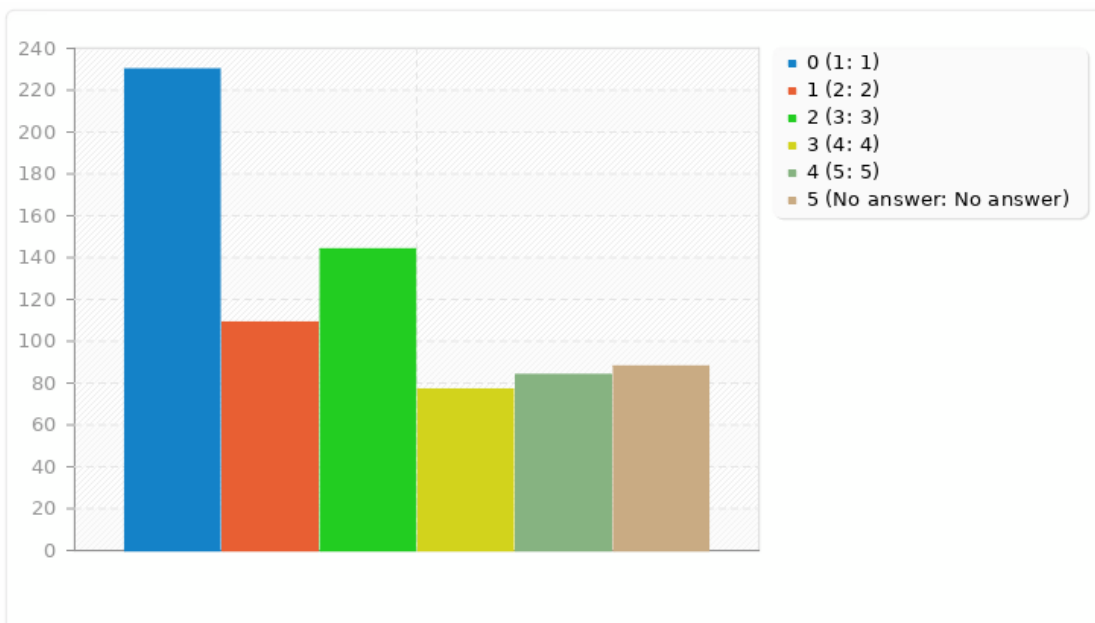| Answer	Count	Percentage	Sum
1 (1)	183	21.13%	40.88%
2 (2)	171	19.75%	
3 (3)	172	19.86%	19.86%
4 (4)	90	10.39%	
5 (5)	104	12.01%	22.40%
No answer	12	1.37%	0.00%
Arithmetic mean	2.67		
Standard deviation	1.36		
Sum (Answers)	720	100.00%	100.00%
Number of cases		0%	

Summary for G01Q03(SQ005)[Build Caching (sccache)]

The following features or tools are important in my development environment (do not use 1 - use a lot 5).

Answer	Count	Percentage	Sum
1 (1)	230	29.11%	42.91%
2 (2)	109	13.80%	
3 (3)	144	18.23%	18.23%
4 (4)	77	9.75%	
5 (5)	84	10.63%	20.38%
No answer	88	10.02%	0.00%
Arithmetic mean	2.5		
Standard deviation	1.41		
Sum (Answers)	644	100.00%	100.00%
Number of cases		0%	

Summary for G03Q13

Do you run, provide, distribute or deploy Rust software?

Answer	Count	Percentage
Yes (AO01)	617	70.27%
No (AO02)	261	29.73%
No answer	0	0.00%

Summary for G03Q13

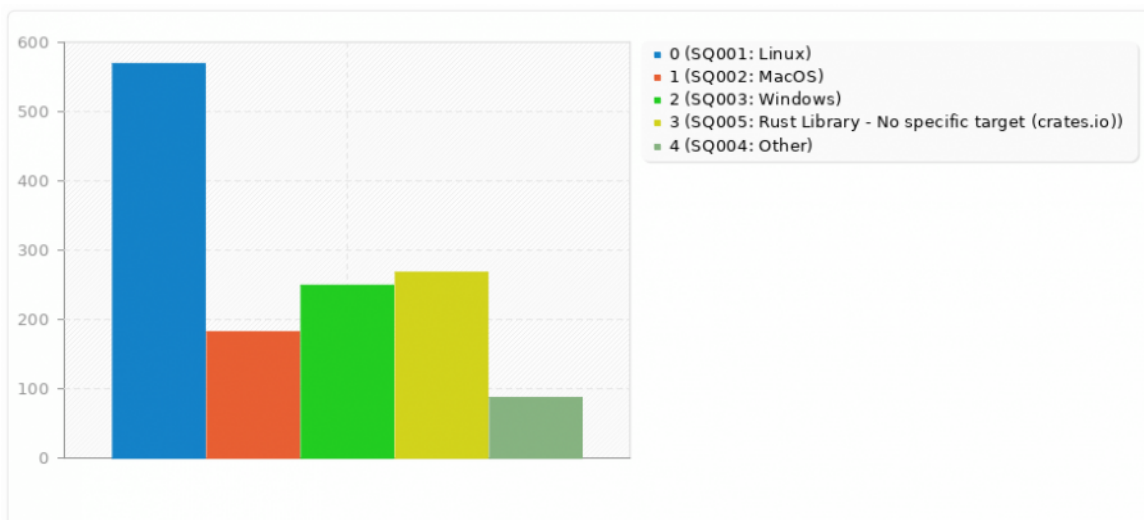### Do you run, provide, distribute or deploy Rust software?

Summary for G02Q08

Which platforms (operating systems) do you target for Rust software. Check all that apply.

Answer	Count	Percentage
Linux (SQ001)	569	92.22%
MacOS (SQ002)	182	29.50%
Windows (SQ003)	249	40.36%
Rust Library - No specific target (crates.io) (SQ005)	268	43.44%
Other (SQ004)	87	14.10%

Summary for G02Q05

How do you or your team/community build or provide Rust software for people to use? Think about your build pipeline or deployment processes for this question.

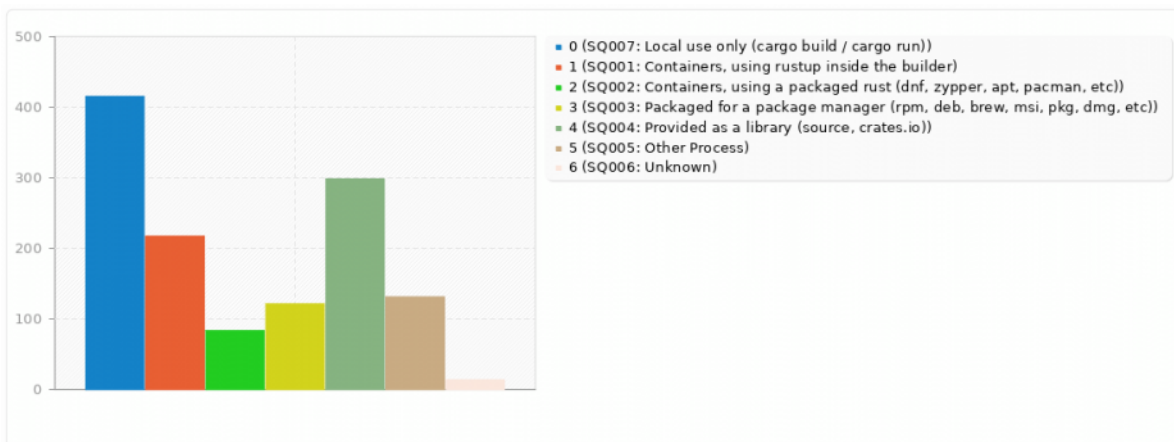| Answer	Count	Percentage
Local use only (cargo build / cargo run) (SQ007)	415	67.26%
Containers, using rustup inside the builder (SQ001)	217	35.17%
Containers, using a packaged rust (dnf, zypper, apt, pacman, etc) (SQ002)	83	13.45%
Packaged for a package manager (rpm, deb, brew, msi, pkg, dmg, etc) (SQ003)	121	19.61%
Provided as a library (source, crates.io) (SQ004)	298	48.30%
Other Process (SQ005)	131	21.23%
Unknown (SQ006)	13	2.11%

Summary for G02Q05

How do you or your team/community build or provide Rust software for people to use? Think about your build pipeline or deployment processes for this question.
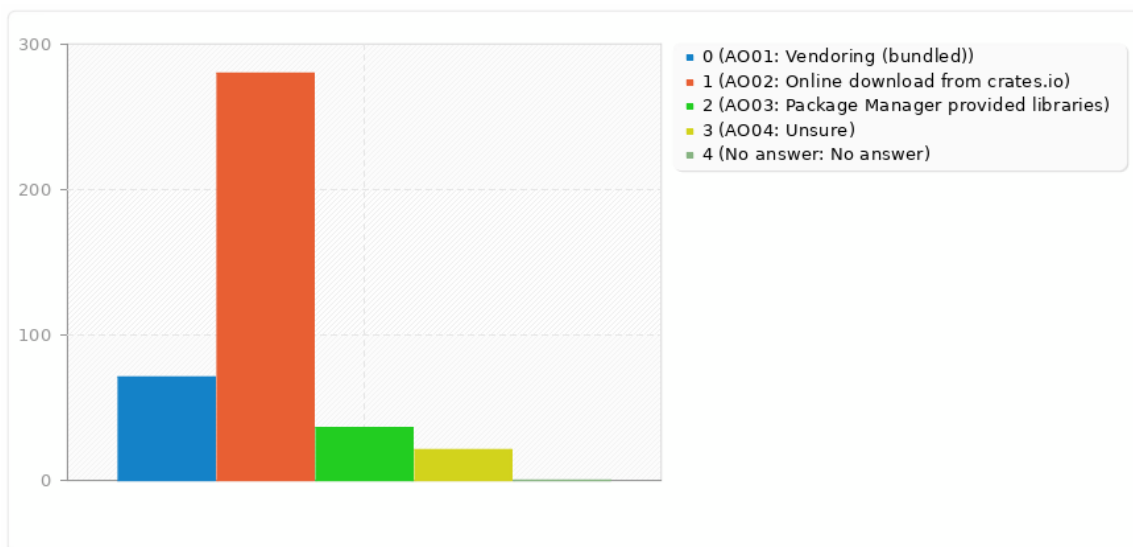
Summary for G02Q06

In your release process, how do you manage your Rust dependencies?

Answer	Count	Percentage
Vendoring (bundled) (AO01)	71	17.40%
Online download from crates.io (AO02)	280	68.63%
Package Manager provided libraries (AO03)	36	8.82%
Unsure (AO04)	21	5.15%
No answer	0	0.00%

Summary for G02Q06

In your release process, how do you manage your Rust dependencies?

Summary for G02Q09

In your ideal workflow, how would you prefer to manager your Rust dependencies?

Answer	Count	Percentage
Vendoring (bundled) (AO01)	46	11.27%
Online download from crates.io (AO02)	100	24.51%
Package Manager provided libraries (AO03)	47	11.52%
Unsure (AO04)	54	13.24%
Satisfied with my existing process (AO05)	161	39.46%
No answer	0	0.00%

Summary for G02Q09

In your ideal workflow, how would you prefer to manager your Rust dependencies?
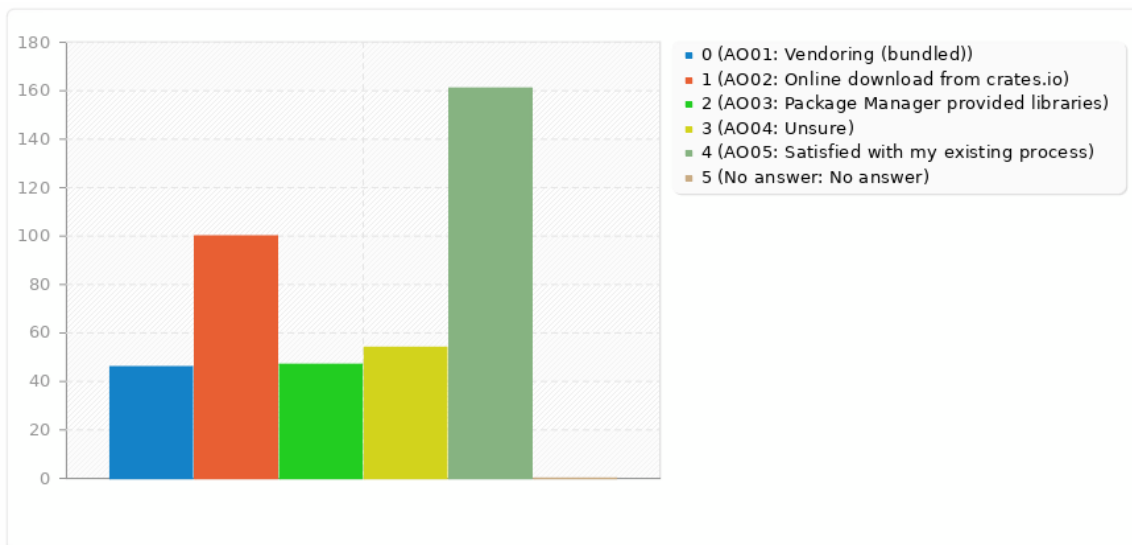
Summary for G02Q07

How do you manage security updates in your Rust dependencies?

Answer	Count	Percentage
Security scanners (e.g. cargo audit) (SQ001)	254	50.80%
Frequent update of all dependencies (e.g. cargo outdated) (SQ002)	315	63.00%
Don't actively follow security issues in dependencies (SQ003)	126	25.20%
Rely on external source to manage (ie distribution packaged rust libraries) (SQ004)	40	8.00%
Unknown (SQ005)	30	6.00%

Summary for G02Q07

How do you manage security updates in your Rust dependencies?