

ROSS Index

Annual report 2023



Runa Capital: a global VC firm for tech-savvy founders

<u>Runa Capital</u> is a global VC firm, founded in 2010 by entrepreneurs, who had built enterprise software companies such as <u>Acronis</u>, <u>Parallels</u> and <u>Acumatica</u>.

Runa invested in 100+ tech companies from Europe and the US, and currently focuses on early-stage deep tech and enterprise software.

We love open-source startups and have funded Nginx, MariaDB, n8n and many other OSS companies at early stages.





















ROSS Index: trending open-source startups

<u>Runa Open Source Startup (ROSS) Index</u> is a regularly updated ranking of trending open-source startups, based on the annualised growth rate (AGR) of GitHub stars at their repositories within a period.

Such an approach allows for highlighting those OSS products that were on developers' minds during the past quarter or year.

Our index has a transparent methodology, which is measurable and focused on startups.

Criteria for startups in the ROSS index

1k+

repo stars at beginning of period

<10

years since **foundation**

<\$100M

total **funding** raised (based on public sources)



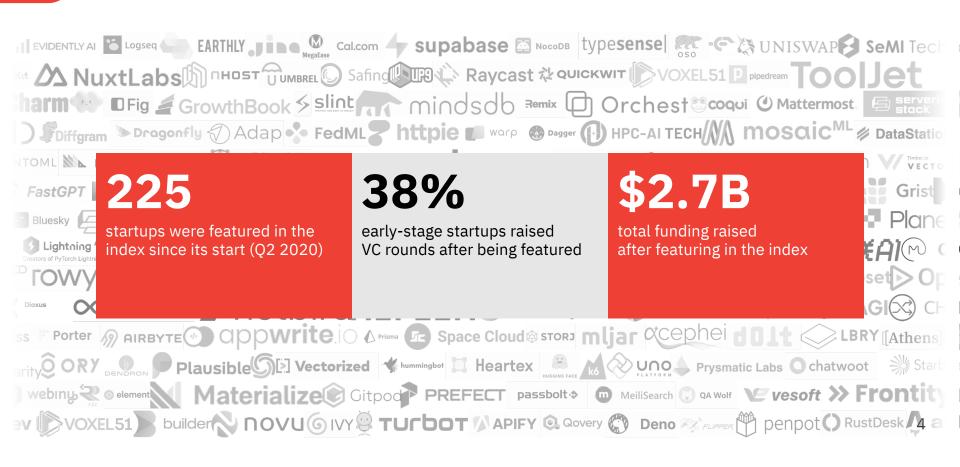
product connected to
open-source repos



not **acquired** or **public** before end of period

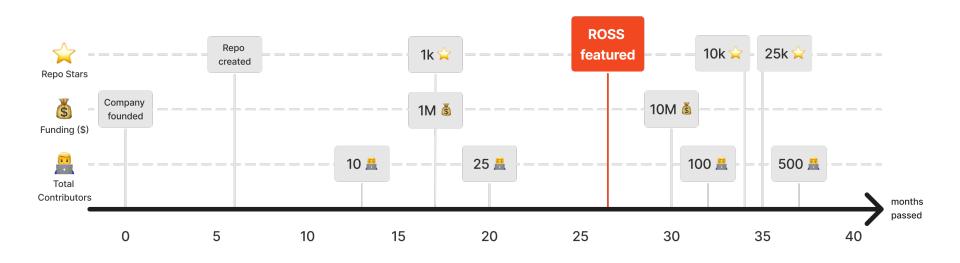


225 unique startups have appeared in ROSS Index





ROSS participants — median time to milestones



61% companies raised at least \$1M

52% companies raised at least \$10M after first \$1M



ROSS Index 2023

Top 50 trending open-source startups

















Resend



q drant



F Formbricks





















Lago





O dub

Refine





VOXEL51



Atuin







HS Htmlstream



































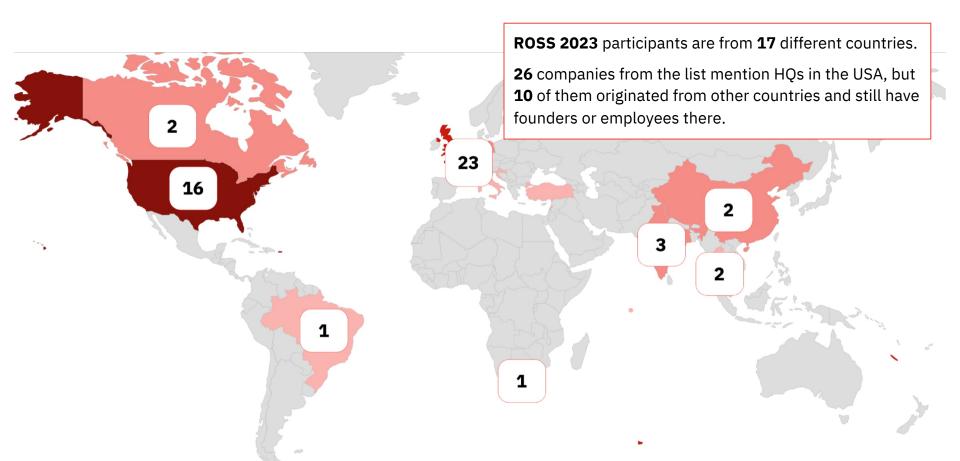
Top 50 trending open-source startups in 2023

Company	Origin	Repository		\$	$\stackrel{\wedge}{\Longrightarrow}$	~		Company	Origin	Repository		Š	$\stackrel{\wedge}{\rightleftharpoons}$	~
1 LangChain		langchain-ai/langchain	2023	10.0	72.5	51.21	26	Mage		mage-ai/mage-ai	2020	11.8	6.1	2.87
2 Reflex		reflex-dev/reflex	2022	5.5	14.5	10.60	27	7 Weaviate		weaviate/weaviate	2019	67.7	8.5	2.80
3 AITable	M	apitable/apitable	2022		11.0	6.63	28	3 Atuin		atuinsh/atuin	2021		12.5	2.74
4 Sismo		sismo-core/sismo-badges	2021	10.0	16.2	5.85	29	Refine	0_	refinedev/refine	2022	1	17.5	2.72
5 HPC-AI		hpcaitech/ColossalAI	2021	28.0	35.7	5.20	30) Htmlstream		htmlstreamofficial/preline	2018		2.9	2.71
6 Massa		massalabs/massa	2020	5.8	5.4	5.04	31	L Voxel51		voxel51/fiftyone	2018	15.7	6.2	2.65
7 Windmill		windmill-labs/windmill	2022		7.6	5.02	32	2 Typebot	ш	baptisteArno/typebot.io	2020		4.1	2.59
8 Resend		resend/react-email	2023	3.5	10.7	4.99	33	3 Tldraw		tldraw/tldraw	2022	4.7	29.4	2.57
9 Nebuly		nebuly-ai/nebuly	2022		8.3	4.85	34	1 Upscayl	-	upscayl/upscayl	2023		20.7	2.53
10 Qdrant		qdrant/qdrant	2021	10.5	15.2	4.37	35	Graphite		GraphiteEditor/Graphite	2021		5.	2.45
11 Astral		astral-sh/ruff	2023	4.0	21.7	4.29	36	Linen		Linen-dev/linen.dev	2020	0.1	2.6	2.43
12 Formbricks		formbricks/formbricks	2022		4.7	4.14	37	7 IceWhale Tech	V	IceWhaleTech/CasaOS	2021	3.7	19.1	2.42
13 Infisical		Infisical/infisical	2022	2.8	10.6	4.13	38	DioxusLabs		DioxusLabs/dioxus	2021		15.1	2.40
14 Wasp		wasp-lang/wasp	2020	1.5	8.8	4.04	39	7 Tamagui		tamagui/tamagui	2021		8.7	2.39
15 Krayin	=	krayin/laravel-crm	2021		4.4	3.97	40	Bluesky		bluesky-social/atproto	2021	21	5.1	2.29
16 Shuttle		shuttle-hq/shuttle	2019		5.0	3.43	41	L Tiny Corp		tinygrad/tinygrad	2022	5.1	21.7	2.28
17 Snapshot Labs		snapshot-labs/snapshot	2021	4.0	5.3	3.40	42	2 Keploy	-	keploy/keploy	2020		2.6	2.27
18 Hanko		teamhanko/hanko	2018	2.8	4.9	3.33	43	3 Liveblocks		liveblocks/liveblocks	2021	6.4	2.7	2.26
19 Manticore Search	20	manticoresoftware/manticoresearch	2017		7.4	3.25	44	1 SimpleX Chat		simplex-chat/simplex-chat	2021	0.4	4.7	2.25
20 Nango		NangoHQ/nango	2022	2.0	3.7	3.17	45	robusta.dev	0	robusta-dev/robusta	2021		2.2	2.24
21 Turso		tursodatabase/libsql	2021	7.0	5.7	3.15	46	Neural Magic		neuralmagic/deepsparse	2017	50	2.6	2.23
22 ZITADEL	Ø	zitadel/zitadel	2019	2.5	5.7	3.01	47	7 PostgresML		postgresml/postgresml	2022	4.7	4.9	2.23
23 Nextcloud	=	nextcloud/all-in-one	2016		3.2	2.99	48	3 TigerBeetle		tigerbeetle/tigerbeetle	2022	6.4	3.4	2.21
24 Lago		getlago/lago	2021	0.1	4.9	2.97	49	Invoke AI		invoke-ai/InvokeAI	2023	3.7	20.	2.21
25 Dub		dubinc/dub	2022		13.7	2.91	50) Sealos		labring/laf	2022		6.2	2.17

Origin – Founding Location, 🖩 – Year Company Founded, 🐧 – Funding (\$M), 😭 - GitHub Stars (k), 📈 - Annual Growth Rate of GitHub stars in 2023 (x)



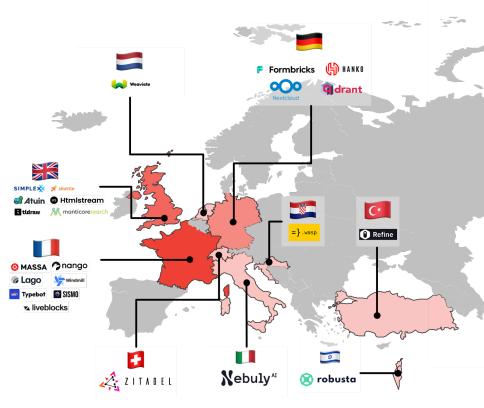
ROSS Index 2023 participants by origin





Trending OSS startups in Europe & Israel

	Company	Origin	Repository		Š	\rightleftharpoons	~
1	Sismo.io	П	sismo-core/sismo-badges	2021	10	16.2	5.85
2	Massa		massalabs/massa	2020	5.8	5.4	5.04
3	Windmill	П	windmill-labs/windmill	2022		7.6	5.02
4	Nebuly		nebuly-ai/nebuly	2022		8.3	4.85
5	Qdrant		qdrant/qdrant	2021	10.4	15.2	4.37
6	formbricks		formbricks/formbricks	2022		4.7	4.14
7	Wasp	-	wasp-lang/wasp	2020	1.5	8.8	4.04
8	Shuttle	N S	shuttle-hq/shuttle	2019		5.0	3.43
9	Hanko		teamhanko/hanko	2018	2.8	4.9	3.33
10	Manticore Search	N 22 20 S	manticoresoftware/manticoresearch	2017		7.4	3.25
11	Nango	п	NangoHQ/nango	2022	2.0	3.7	3.17
12	ZITADEL	B	zitadel/zitadel	2019	2.5	5.7	3.01
13	Nextcloud		nextcloud/all-in-one	2016		3.2	2.99
14	Lago		getlago/lago	2021	0.1	4.9	2.97
15	Weaviate	=	weaviate/weaviate	2019	67.7	8.5	2.80
16	Atuin	N 22 20 S	atuinsh/atuin	2021		12.5	2.74
17	Refine	C.	refinedev/refine	2022	1.0	17.5	2.72
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19	Typebot	п	baptisteArno/typebot.io	2020		4.1	2.59
20	Tldraw	25	tldraw/tldraw	2022	4.7	29.4	2.57
21	Liveblocks	П	liveblocks/liveblocks	2021	6.4	2.7	2.26
22	SimpleX Chat		simplex-chat/simplex-chat	2021	0.4	4.7	2.25
23	robusta.dev		robusta-dev/robusta	2021		2.2	2.24



Origin – Founding Location, 🗐 – Year Company Founded, 🔞 – Funding (\$M), 🖈 - GitHub Stars (k), 🗾 - Annual Growth Rate of GitHub stars (x)



Top-10 startups by added stars

ROSS Index is based on relative growth of GitHub stars of repos, calculated during the target period. However, several noteworthy OSS startups created popular repos only in 2023, so they fall outside of the ROSS Index. We would like to highlight them too — based on the absolute number of added stars in 2023.

	Company	Origin	Repository		Š	2022	2023	∆ ☆	~
1	AutoGPT		Significant-Gravitas/AutoGPT	2023	12.0		155.6	+155.6	_
2	LangChain		langchain-ai/langchain	2023	10.0	1.4	72.5	+71.1	51.2
3	Nomic AI		nomic-ai/gpt4all	2022	17.0		58.5	+58.5	_
4	CodeCrafters	(codecrafters-io/build-your-own-x	2022		179.9	235.3	+55.4	1.3
5	PrivateGPT Docs	2	imartinez/privateGPT	2023			45.7	+45.7	_
6	ScreenshotToCode		abi/screenshot-to-code	2023			32.5	+32.5	_
7	Bun		oven-sh/bun	2022	7.0	36.4	66.4	+30.0	1.8
8	Suno		suno-ai/bark	2022			29.6	+29.6	_
9	HPC-AI		hpcaitech/ColossalAI	2021	28.0	6.9	35.8	+28.9	5.2
10	Ollama		ollama/ollama	2023			28.8	+28.8	_



Top-10 startups by active contributors growth

Active contributors are the core of OSS communities, and it's interesting to see which startups are the fastest-growing in 2023 by this dimension. To find them, we calculate **Yearly Active Contributors Absolute Growth (YAC AG)** metric, where active contributors are those who made made at least one commit throughout the last year.

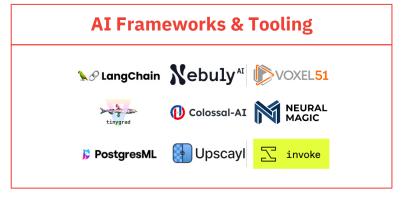
	Company	Origin	Repo		\$	202 3	YAC 2022	YAC 2023	YAC AG
1	LangChain		langchain-ai/langchain	2023	10.0	72.5	44	1708	+1664
2	AutoGPT		Significant-Gravitas/AutoGPT	2023	12.0	155.6		697	+697
3	LlamaIndex		run-llama/llama_index	2023	8.5	26.0	7	541	+534
4	MindsDB		mindsdb/mindsdb	2017	54.4	19.4	187	554	+367
5	ILLA Cloud	₹	illacloud/illa-builder	2022		9.1	16	305	+289
6	Astral		astral-sh/ruff	2022		21.7	60	298	+238
7	Raycast		raycast/extensions	2020	17.9	4.4	591	811	+220
8	Bun		oven-sh/bun	2022	7.0	66.4	148	360	+212
9	Typst		typst/typst	2022		24.5	2	212	+210
10	Cal.com		calcom/cal.com	2021	32.4	25.7	139	349	+210



Trends in open-source in 2023

This was a year of **AI** – **9** startups belong to this category, accounting for almost a 5th of the index.

Naturally, **Databases** are also well-represented this year, with 2 out of 5 participants being Vector Databases, specialized for LLM's.











Trends in open-source in 2023

This was also a year of **development** – together with **Web Development Frameworks**, tools simplifying **Cloud Deployment**, **Identity and Secrets management**, and **improving developer productivity** when combined, account for a 3rd of the index.



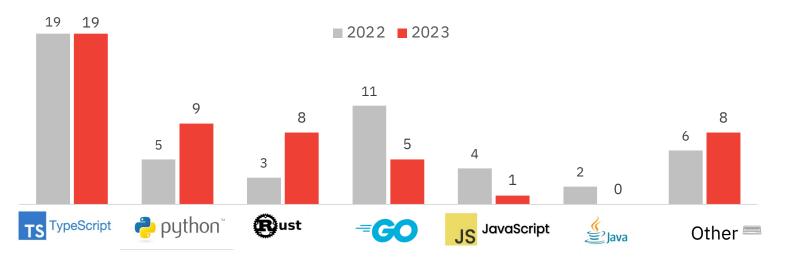




Trending programming languages

ROSS Index repos showы trends in the developer community, especially if compared with 2022 data:

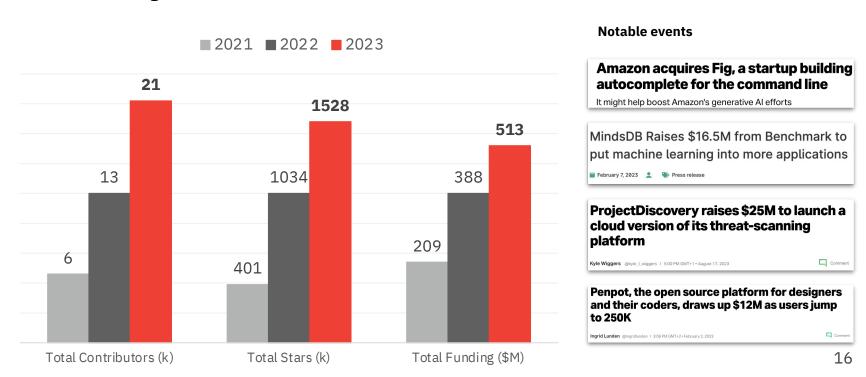
- More diversity 12 languages were used by ROSS index participants 2023 vs 10 in 2022
- Typescript remains the most popular language (19 / 50), Python gets more attention thanks to the AI wave
- Rust has got strong momentum (used for many dev tools and web apps), while Go seems to lose popularity





ROSS Index 2022: Growth in 2023

The 50 participants of the **Annual ROSS Index 2022** added **12K contributors**, **494K GitHub stars** and **\$125M VC funding** in 2023.





Join our community!

ROSS index is a live project that evolves with the active support of the tech community. All suggestions are welcome — please send them to oss@runacap.com



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Give us a GitHub star or contribute to our repo listing known <u>awesome</u> <u>open-source alternatives</u>



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By the way, we are looking forward to your open-source startup: https://runacap.com/contact