

Julia Programming Language Breaks Into the Top 20 of TIOBE Index as Traditional Leaders Hold Their Ground

Julia enters TIOBE's top 20 programming languages for the first time, while Python, C, C++, Java, and C# maintain their dominance at the top of the index.

THE NETHERLANDS, AMSTERDAM, August 22, 2023 /EINPresswire.com/ -- The world of

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Paul Jansen, CEO of TIOBE Software

programming and the specific needs filled by the thousands of languages that exist is always evolving, yet some classics persist in their dominance. TIOBE Software's latest Programming Community Index highlights both the breakthrough of [the Julia programming language](#) into the top 20 and the enduring prominence of traditional heavyweights like Python, C, C++, Java, and C#.

For the first time in its 13-year history, Julia has carved out a spot in the top 20, gaining favor especially among data scientists and mathematical computation specialists.

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nature, even though it requires a more adept programming hand than some other counterparts," comments Paul Jansen, CEO of TIOBE Software.

While Julia's rise is noteworthy, the sustained success of the top five languages merits attention. These languages have consistently commanded the index, and their widespread applications provide insight into their enduring appeal.

#1 Python: Known for its simplicity and versatility, [Python is widely used in web development](#), data analysis, artificial intelligence, and scientific computing. Popular platforms like Instagram and Dropbox were built using Python.

#2 C: As a foundational language for system programming, C remains integral for developing operating systems and embedded system applications. Its longevity and efficiency make it a staple in the software world.

#3 C++: An extension of C, C++ offers object-oriented features and is favored for system/software development, game development, and high-performance applications. Software giants like Adobe and Microsoft utilize C++ in their products.

#4 Java: Universally known for its "write once, run anywhere" capability, [Java is central to web applications](#), mobile apps (especially Android), and large-scale systems. It powers platforms like LinkedIn and Netflix.

#5 C#: Developed by Microsoft, C# is pivotal in building Windows desktop applications and games using the Unity game engine. It's also used in enterprise solutions and cloud-based applications.

"While languages like Julia make headlines with their rapid ascent, the stalwarts of the index - Python, C, C++, Java, and C# - remain indispensable to the tech ecosystem due to their wide-ranging applications and proven reliability," Jansen adds.

Other significant movements in the index this month include JavaScript's move up to the 6th spot and Scratch's jump to the 11th position.

TIOBE Software's monthly index offers a snapshot of programming language popularity, drawing data from search engines and reflecting global preferences. "It's not about crowning the 'best' language but about understanding the pulse of the developer community," says Jansen.

About TIOBE Software:

TIOBE Software, with over three decades in the software quality assessment field, provides invaluable resources for professionals to navigate the dynamic programming landscape.





















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Aug 2023	Aug 2022	Change	Programming Language	Ratings	Change
1	1		 Python	13.33%	-2.30%
2	2		 C	11.41%	-3.35%
3	4	▲	 C++	10.63%	+0.49%
4	3	▼	 Java	10.33%	-2.14%
5	5		 C#	7.04%	+1.64%
6	8	▲	 JavaScript	3.29%	+0.89%
7	6	▼	 Visual Basic	2.63%	-2.26%
8	9	▲	 SQL	1.53%	-0.14%
9	7	▼	 Assembly language	1.34%	-1.41%
10	10		 PHP	1.27%	-0.09%
11	21	▲	 Scratch	1.22%	+0.63%
12	15	▲	 Go	1.16%	+0.20%
13	17	▲	 MATLAB	1.05%	+0.17%
14	18	▲	 Fortran	1.03%	+0.24%
15	31	▲	 COBOL	0.96%	+0.59%
16	16		 R	0.92%	+0.01%
17	19	▲	 Ruby	0.91%	+0.18%
18	11	▼	 Swift	0.90%	-0.35%
19	22	▲	 Rust	0.89%	+0.32%
20	28	▲	 Julia	0.85%	+0.41%

TIOBE Index of Programming Language Popularity

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