The Top Programming Languages 2020

Find the programming languages that are most important to you

The app and its metrics database were originally developed in collaboration with IEEE Spectrum by data journalist Nick Diakopoulous, rebuilt by Mythili Bagavandas and Gurdeep Singh, and updated by Preeti Kulkarni.

Design, Methods, and Data Sources

- to arrive at an overall ranking of language popularity, the *IEEE Spectrum* app synthesizes:
  - 11 metrics from 8 sources
- The sources cover contexts that include:
  - social chatter,
  - open-source code production,
  - and job postings.
- Starting from a list of over 300 programming languages gathered from GitHub

https://spectrum.ieee.org/static/interactive-the-top-programming-languages-2020

Sources

1. Google Search
2. Google Trends
3. Twitter
4. GitHub
5. Stack Overflow
6. Reddit
7. Hacker News
8. CareerBuilder
9. IEEE Job Site
10. IEEE Xplore Digital Library

2020

Rank	Language	Type	Score
1	Python	web, desktop, embedded	100.0
2	Java	web, mobile, desktop	95.3
3	C	mobile, desktop, embedded	94.6
4	C++	mobile, desktop, embedded	87.0
5	JavaScript	web	79.5
6	R	desktop	78.6
7	Arduino	embedded	73.2
8	Go	web, desktop	73.1
9	Swift	mobile, desktop	70.5
10	Matlab	desktop	68.4
11	Ruby	web, desktop	66.8
12	Dart	web, mobile	65.6
13	SQL	desktop	64.6
14	Perl	desktop	64.2
15	Assembly	embedded	63.7
16	Scala	web, mobile, desktop	63.5
17	HTML	web	61.4
18	Kotlin	web, mobile	57.8
19	Julia	desktop	56.0
20	Rust	web, desktop, embedded	55.6
21	Shell	desktop	52.0
22	Processing	web, desktop	49.2
23	C#	web, mobile, desktop, embedded	48.1
24	SAS	desktop	45.2
25	Fortran	desktop	43.0
26	Cuda	desktop	41.0
27	Visual Basic	desktop	40.3

28	Objective-C		38.9
29	Delphi		38.6
30	Perl		38.2
31	Verilog		37.6
32	VHDL		36.7
33	LabView		36.7
34	Elixir		35.8
35	F#		34.7
36	Prolog		34.6
37	Lua		34.4
38	Lisp		33.0
39	Ada		32.8
40	Apache Groovy		32.0
41	Scheme		31.4
42	Haskell		30.8
43	Cobol		30.4
44	Clojure		29.8
45	ABAP		29.5
46	D		27.7
47	Forth		23.7
48	Ocaml		23.7
49	TCL		22.1
50	LadderLogic		19.5
51	Erlang		18.3
52	Eiffel		16.5
53	CoffeeScript		15.9

2016

#	Language					Spectrum #
1	C		✓	✓	✓	100.0
2	Java	✓	✓	✓		98.1
3	Python	✓		✓	✓	98
4	C++		✓	✓	✓	95.9
5	R			✓		87.9
6	C#	✓	✓	✓		86.7
7	PHP	✓				82.8
8	JavaScript	✓	✓			82.2
9	Ruby	✓		✓		74.5
10	Go	✓		✓		71.9
11	Swift		✓	✓		70.1
12	Arduino				✓	69.9
13	Assembly				✓	68.6
14	Matlab			✓	✓	68.5
15	Scala	✓	✓	✓	✓	66.9

#	Language					Spectrum #
16	HTML	✓				65.6
17	Perl	✓		✓		58.5
18	Visual Basic	✓	✓	✓		56.8
19	Shell			✓		54.2
20	Objective-C		✓	✓		53.4
21	Cuda			✓		53.2
22	Lua	✓		✓		52.1
23	Processing	✓		✓		50.5
24	SQL			✓		49.8
25	Haskell			✓	✓	44.1
26	Rust	✓		✓		43.3
27	Fortran			✓		42.2
28	Delphi		✓	✓		42.1
29	D	✓			✓	38.9
30	LabView	✓		✓	✓	35.7

#	Language				Spectrum #
31	VHDL			✓	35.4
32	Lisp		✓		34.9
33	Julia		✓		32.8
34	Ladder Logic			✓	28.1
35	Erlang		✓	✓	28.0
36	Verilog			✓	26.7
37	Prolog		✓		26.1
38	Closure	✓	✓		24.1
39	SAS		✓		23.4
40	Ada		✓	✓	22.0
41	Cobol		✓		19.2
42	ABAP		✓		17.0
43	Scheme	✓	✓		16.2
44	J		✓		12.3
45	TCL		✓	✓	11.4

#	Language				Spectrum #
46	Ocaml	✓		✓	3.2
47	Forth			✓	1.3
48	Actionscript	✓	✓		0