Interactive: The Top Programming Languages 2017

Find the programming languages that are most important to you

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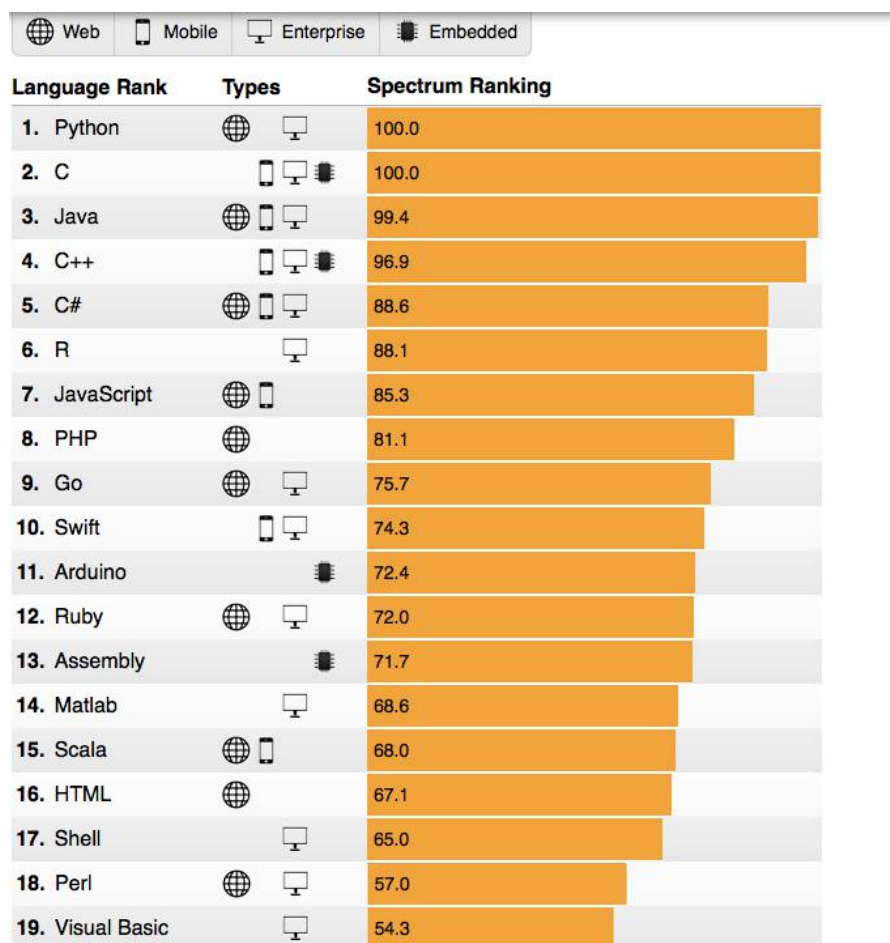Posted 18 July 2017 | 1900 GMT

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This app ranks the popularity of dozens of programming languages. You can filter them by listing only those most relevant to particular sectors, such as "Web" or "embedded programming." Rankings are created by weighting and combining 12 metrics from 10 sources. We offer preset weightings—the default is our IEEE Spectrum ranking—but there are presets for those interested in what's trending or most looked for by employers. Don't like the defaults? Take complete control and create your own ranking by adjusting each metric's weighting yourself. To compare with a previous year's data, click "Add a Comparison" and then click "Edit Ranking," which will give you the option to compare with data from 2014, 2015, or 2016.

We take a similarly pragmatic approach to how we classify languages into types like "embedded" or "Web." Placement is based on typical use: For example, we are very impressed by those brave souls who have written Web servers completely in assembly code, but we're not going to categorize Assembly as a Web development language. (Read more about our method and sources)

Language Types

Language Rank	Types	Spectrum Ranking	
1. Python	🌐 🖥	100.0	
2. C	📱🖥▮	100.0	
3. Java	🌐📱🖥	99.4	
4. C++	📱🖥▮	96.9	
5. C#	🌐📱🖥	88.6	
6. R	🖥	88.1	
7. JavaScript	🌐📱	85.3	
8. PHP	🌐	81.1	
9. Go	🌐 🖥	75.7	
10. Swift	📱🖥	74.3	
11. Arduino	▮	72.4	
12. Ruby	🌐 🖥	72.0	
13. Assembly	▮	71.7	
14. Matlab	🖥	68.6	
15. Scala	🌐📱	68.0	
16. HTML	🌐	67.1	
17. Shell	🖥	65.0	
18. Perl	🌐 🖥	57.0	
19. Visual Basic	🖥	54.3	

Language Type

		Web		Mobile		Enterprise		Embedded

Language Rank	Types	Spectrum Ranking
20. Cuda	🖥	52.8
21. Rust	🌐 🖥	52.0
22. Lua	🌐 🖥	52.0
23. SQL	🖥	49.6
24. Processing	🌐 🖥	49.5
25. Haskell	🖥 ▦	47.8
26. Objective-C	📱 🖥	44.4
27. Delphi	📱 🖥	41.4
28. Fortran	🖥	40.3
29. D	🌐 ▦	37.9
30. VHDL	▦	35.3
31. Julia	🖥	35.0
32. Prolog	🖥	32.3
33. LabView	🖥 ▦	31.1
34. Verilog	▦	29.6
35. Lisp	🖥	29.5
36. Erlang	🖥 ▦	27.7
37. Ada	🖥 ▦	26.5
38. ABAP	🖥	25.9
39. SAS	🖥	24.7
40. Clojure	🌐 🖥	24.1
41. Cobol	🖥	23.6
42. Scheme	📱 🖥	18.3
43. TCL	🖥 ▦	9.3
44. J	🖥	8.4
45. Ocaml	🌐 🖥	8.2
46. Ladder Logic	▦	1.3
47. Actionscript	🌐 📱	1.3
48. Forth	▦	0.0