

Programming languages



1. What programming languages do you already know?

2. Read the following text and complete the true or false.

By the end of this material, there is a glossary for you to check you understood the words highlighted correctly.

- | | |
|---|------------|
| 1. The majority of web browsers are programmed in C++. | True False |
| 2. The number of C# jobs is 75% higher than C++ jobs. | True False |
| 3. PHP is famous for its elegance. | True False |
| 4. Python's syntax is a little complicated. | True False |
| 5. Java remains a viable programming language. | True False |
| 6. JavaScript can be used for a wide range of projects. | True False |

There are 6 programming languages that are far above the rest and there is data to back it up. To give you a detailed understanding, we are going to look at 4 major dimensions:

1. Number of jobs.
2. Number of learning resources.
3. How many people use it at work.
4. Popularity (is the language trending up or down?)

Then, we're going to give each language a score and rank them relative to each other. Let's jump into it!



#6 C++

C++ is the fastest performing language. If you're going to write software where every millisecond counts, then C++ is the language you're looking for. Fun fact: most browsers (such as Chrome, for instance) are programmed in C++. Overall, there are only 10,000 remote C++ dev jobs on Indeed (popular job search site). It also has the lowest use at 24 % of developers reporting that they code in C++ on a daily basis. But this doesn't mean that it's going to go out of use in the near future. It just means that this language is used for very specific low-level tasks.



#4 PHP

The language most developers hate. PHP is notorious for being a cumbersome language but honestly, it's not THAT bad. PHP is the traditional language of the web. These days, it has two big competitors, namely Python and JavaScript which are becoming more popular by the day. This is the major reason why PHP is declining in popularity. That said, this is the exact reason to learn it. Because so many people want to program in any other language other than PHP, there is a demand for PHP developers that you can tap into if you're a PHP expert.



#5 C#

If you want to work with the Microsoft .NET framework, you're going to need C#. You can also use C# for Unity game development and a variety of other different things. C# has double the amount of jobs of C++ at 20,000. There's also some demand for this language on the freelance market which you can take advantage of. About 30% of the development community use it at work. The trend line for this language is kind of flat.



#3 Python

Many people say that Python is the best language for beginners to learn because of its straightforward syntax. It's also very popular for trendy Machine Learning and Artificial Intelligence. 44% of people use Python at work which is really high, it's almost half of all developers. Chances are, you're going to have to learn Python at some point in your career no matter what so it's not a waste of time to learn it.



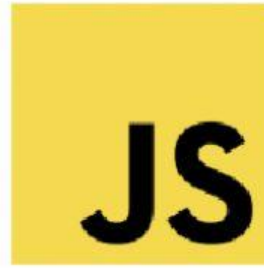
#2 Java

Java is the number one choice for big enterprise projects. It has pretty good performance and can be effective in writing large backend applications. The main concern about Java is that some people say it is a dying language and there are other languages that can replace it such as Go, for example. However, so many big companies have their code written in Java, it is still worth learning today.

3. Complete the speech with connective phrases from the text.

on top of that • chances are
that said • overall

- Can you tell me about the most interesting course you've ever taken?
- Sure. It was a web development course that I took last October. _____ I was very happy with how the course was structured. _____, there were certain parts that were very difficult and not explained in enough detail. What made this course stand out to me were the useful and practical project sections. _____, there were also plenty of quizzes and gamification features. _____, if you've ever googled "web development course", you've seen on the first page, that's how popular it is.




#1 JavaScript

No surprise there. JS is the go-to language for front-end which runs in the browser. You can also use it on the backend with runtimes such as Node and Deno. Knowing JavaScript and being familiar with its ecosystem definitely opens a huge door of opportunity for you. Over 65% of developers use JS at work and the market share for this language keeps growing. On top of that, JavaScript is an extremely versatile language that can be used to program many things: from dynamic web pages to apps and video games.

Now that you have this basic overview, it is up to you to decide which language you want to learn this year.

4. Answer: Which of the programming languages above are you most interested in? Why? Use information from the text to back up your answer.

 Look at the glossary from the text and make sure you understand the meaning of each phrase.

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| 1. Back (something) up | Support something or someone. |
| 2. Dimension | An aspect or feature of a situation. |
| 3. Rank (verb) | Give (someone or something) a rank or place within a grading system (rank high, rank low, rank first etc.) |
| 4. Relative | Considered in relation or in proportion to something else. |
| 5. Look for (something) | Try to find someone or something. |
| 6. Overall | Taken as a whole; in all. |
| 7. Code / program in (a certain language) | Write code in (a certain language). |
| 8. Go out of use | Stop being used (the opposite of "to be in use"). |
| 9. Take advantage of | Use something for your own benefit. |
| 10. Notorious | Famous or well known, typically for some bad quality. |
| 11. Cumbersome | Slow or complicated and therefore inefficient. |
| 12. Competitors | Business rivals. |
| 13. By the day | With each day. |
| 14. That said | Despite what one just said. |
| 15. Demand | The desire of consumers, clients, employers, etc. for a particular commodity, service, or other item. |
| 15. Straightforward | Uncomplicated and easy to do or understand. |
| 16. Trendy | Very fashionable or up to date. |
| 17. Chances are | It is very likely that. |
| 18. At some point | At an unspecified time in the future. |
| 19. A waste of time | Something inefficient or unproductive. |
| 20. Enterprise | A for-profit business or company. |
| 21. Concern | A matter of interest or importance to someone. |
| 22. Go-to | Regularly or repeatedly chosen or employed for reliably good results. |
| 23. Market share | The portion of a market controlled by a particular company or product. |
| 24. Keep (growing) | Continue (to grow) constantly. |
| 25. On top of that | In addition to that. |
| 26. Versatile | Having many applications. |
| 27. It is up to you | It depends on what you decide. |