

Programming Languages I Might Like To Learn

This semester, we will be learning about a few programming languages such as Racket, Prolog, Haskell and Rust. There are tons of programming languages we can choose to learn today. If I had to choose a few of them, they would be the following with reasons.

Language 1: C language

Developed by Dennis Ritchie in 1972 at the Bell Laboratories, C is one of the oldest high level languages. C is strongly associated with UNIX, since it was developed to write the UNIX operating system. It is very commonly used for lower-level components in software, like Kernel in an OS. It's mostly used because of its speed and versatility.

C is one of the most basic languages and unlike other languages where you get methods and APIs to manipulate arrays, stacks, queues, etc., here I have to implement those functionalities myself. I learn the very basics of programming and I believe that's going to make it easier for me to learn other languages better.

When I was researching this language, I came across a term called 'pointer', which made me really curious. Now I can actually say that C has one of the most well defined memory management systems. I am really excited about learning this language in detail.

Language 2: PHP(Hypertext Preprocessor)

It was developed by Rasmus Lerdorf in 1994, to manage his personal homepage. Although it started small, today it's used by professionals widely in the Web Development Domain. It's a server side scripting language embedded in HTML. It is very popularly associated with databases like MySQL, Oracle, PostgreSQL, Sybase, etc.

If I ever want to choose web development(back-end), PHP would be one of the languages I would start with. It is easier to learn than other languages because of its similarities with HTML.

Data shows that 80% of the websites today are built in a server-side scripting language. It is compatible with all operating systems and many databases, so it's a great choice for large enterprises. Hence, I believe I will use this language at one point or another in my life as a programmer. So, it makes sense for me to learn this language.

Language 3: Python

Python is a high-level interpreted language developed by Guido Van Rossum in 1989. Python supports Memory management and Object-Oriented Capability like Java. It is known to have easy-to-read and write syntax making it one of the most trending languages. Although it is easy to use, it's a powerful tool in today's world and is used by companies like Google and Facebook.

Python is something that sells in today's market. Although it's regularly used for website development, it can also be used for animating, machine learning, scientific computing, organizing data sets, etc. I believe python will come handy somewhere in my life as a programmer, and hence I want to know more about it.

Language 4: C#

Developed by Microsoft in 2001, along with its .NET framework, C# has its roots in the C family and is very similar to Java, JavaScript or C++ in terms of syntax. It's an object oriented, component oriented programming language. C# is widely used for writing desktop and web applications but rarely used for systems programming and embedded applications.

C# can revolve around mobile or game development and has a wide demand in the industry. Game development has always been fascinating to me, and that's how I got interested in learning this language.

Language 5: Julia

While I was researching programming languages, I came across Julia. It was developed by Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other contributors in 2012. It is based on C language and is mainly designed for data science and analytics-based applications. In the modern world, data and information is everything. Everything is stored in the form of data somewhere and the management of that data can be a work. This language was specifically designed for that purpose.

I think Data Science has an impact on World's economy and I would be very interested to learn about how this whole process works. That's the reason why this language is interesting to me.

Language 6: Apex

Apex is a proprietary language developed by salesforce.com for development on the Salesforce platform. It's an object oriented programming language that allows developers to execute flow and transaction control statements on Salesforce servers in conjunction with calls to the API. Its syntax looks similar to Java. This language is very data focused and rigorous. The main reason why I want to learn this language is because it has a market and it's based on data management which has always been my interest.