

Assignment: Programming Languages I Might Like To Learn

Abstract: This assignment looks to find some interesting programming languages that I will see as helpful and hopefully use in the future. It's worth it to learn multiple programming languages because it is vital that a programmer can handle many different problems which often require different solutions and therefore different languages.

Language 1: SQL

Created in 1974 by Donald Chamberlin and Raymond Boyce at IBM.(Wikipedia) The language was initially created to manipulate and retrieve data from the company's seminal database.(Codeop.tech) SQL has influenced MySQL and Database management systems like MS Access and Oracle Database.(Datasciencenerd.com) It was influenced by Datalog.(Wikipedia)

Reasons to learn SQL:

- 1.SQL is not only used for programming tasks. It can be used in marketing or sales to look through their data and find trends in their sales or marketing campaigns.(GeeksForGeeks.com)
- 2.SQL Is helpful in handling huge amounts of Structured Data. Data in our world is becoming more and more virtualized, and technology like SQL is necessary for managing all of this new virtual data.(GeeksForGeeks.com)

Language 2: Perl

Created in 1987 by Larry Wall. Interestingly, Larry originally wanted to find an actual unwritten language, perhaps in Africa, and create a writing system for it. Perl was influenced by C, AWK, BASIC, Lisp, and C++, and has in turn influenced JavaScript, PHP, Python, Ruby, and many others. It was created to make report processing easier.(Wikipedia)

Reasons to learn Perl:

- 1.Pperl is used in production codebases of many companies.(StackOverflow.com)
- 2.Pperl can be very diverse and is used in web development, database access, log analysis, and web crawling. (StackOverflow.com)

Language 3: Ruby

Created in 1995 by Yukihiro Matsumoto and influenced by Perl, Smalltalk, Eiffel, Ada, BASIC, Java, and Lisp. It has influenced Rust, Swift, Elixir, and many others. Yukihiro now works for the Japanese company Netlab.jp.(Wikipedia)

Reasons to learn Ruby:

- 1.Ruby can be used for both front and back end web development. (Oracle)
- 2.Ruby can often feel like coding in English as its syntax is very high-level.(Oracle)

Language 4: C#

Designed by Anders Hejlsberg from Microsoft in 2000 and later approved as an international standard by Ecma in 2002 and ISO/IEC in 2003. It was influenced by Java, Haskell, Scala, ML, and many others. It has influenced Rust, TypeScript, Crystal, Kotlin, and many others. It was originally supposed to be called Cool!(Wikipedia)

Reasons to learn C#:

- 1.C# is open-source and led by Microsoft. This means anyone can suggest improvements that will be listened to by the largest software company in the world.(ProductiveCSharp.com)
- 2.C# is in demand. An experienced C# developer can earn an average total compensation of more that \$90K in the US.(ProductiveCSharp.com)

Language 5: Go

Created in 2007 by Robert Griesemer, Rob Pike, and Ken Thompson at Google and launched in 2009 as an open-source programming language. Go was created when the creators found C++ to be too complex and wanted to create a language that had efficient compilation and execution. Go was influenced by C, C++, Python, and JavaScript. It influenced Crystal.(Wikipedia)

Reasons to learn Go:

- 1.Go is very easy to learn. If you know any programming language, it is very easy to add Go to your arsenal.(StudyTonight.com)
- 2.Go has very quick performance and checks your code before running for possible errors. This makes it a very accessible language for any programmer.(StudyTonight.com)

Language 6: TypeScript

Created in 2012 by Microsoft to combat the shortcomings of JavaScript for developing large-scale applications. Anders Hejlsberg, the creator of C#, helped build TypeScript at Microsoft! It is a superset of JavaScript, meaning all JavaScript programs are also valid TypeScript programs. All static typing is optional. It was influenced by C#, Java, JavaScript, and ActionScript. It has influenced AtScript and AssemblyScript.(Wikipedia)

Reasons to learn TypeScript:

- 1.TypeScript prevents many bugs that can occur in JavaScript because it is statically typed.(FreeCodeCamp.org)
2. JavaScript and TypeScript account for 31% of the job offers that explicitly required a programming language.(DevJobsScanner.com)