7 New Programming Languages To Learn in 2016

Guest post on clean code techniques by Mark Trego of Stone River eLearning.

Programmers have always known that new programming languages need to be learned to keep their skills marketable in the workplace. That trend is not only continuing – it seems to be increasing due to the rate of change taking place in the technology sector.
Programming languages like C, C++, Java, HTML, Python, or PHP have always had answers to the demands of the market. However, progression in the innovation sector requires people to gain even more skills and knowledge to bring ideas to life.

Even though programming languages like Java, HTML, Objective C, remain the backbone of any development in IT, there have been some new and interesting programming languages that have gained impressive reviews and high ratings among the tech gurus across the world. So, we decided to assemble a list of the new programming languages to learn and keep watch of in 2016.

1. **Google Go**

   Google's Go Programming Language was created in 2009 by three Google employees, Robert Griesemer, Rob Pike, and Ken Thompson. The language's success can be seen clearly by the fact that BBC, SoundCloud, Facebook and UK Government’s official website are some of the notable users of Go. It is faster, easier to learn and does the same job that C++ or Java has been doing for us. As the creators said, “Go is an attempt to combine the ease of programming of an interpreted, dynamically typed language with the efficiency and safety of a statically typed, compiled language.

2. **iOS Swift**

   When a programming language is launched at the Apple’s WWDC, you can be sure that it has something that can deliver success and results. Swift was released in the Apple’s WWDC in 2014 and its exponential growth in just one year shows how capable and promising this language is. According to Apple, Swift brings the best of Python and Ruby together and adds modern programming fundamentals, to make it more effective and fun. If you’ve been using or were planning on learning Objective C to develop iOS apps, don’t bother learning it. Swift is the language you need to know moving forward. There will soon come a day when Objective C is used by nobody to develop apps.

   For more info, check-out our [beginner’s guide to iOS Swift!](http://www.codingdojo.com/blog/new-programming-languages-to-learn-2016/)

3. **Hack**

   Just like Swift, Hack is another programming language which has recently been launched and is a product of another tech giant, Facebook. In the past one year, Facebook has transformed almost their entire PHP codebase to Hack, and if a website with millions of users and unparalleled traffic can rely on Hack, then the programming language must surely be here to stay.

4. **Rust**

   The Rust Programming Language was launched in 2014 by Mozilla. It did not receive the immediate success that Hack and Go did, but in the last 6 months the number of Rust users in the world has escalated and it is expected to climb much higher. An upgrade to C and C++, Rust is becoming more beloved by programmers every day.

5. **Julia**

   Delivering Hadoop style parallelism, Julia's stock in the tech industry is rising. The Julia Language is highlighted as one that is destined to make a major impact in the future. Described as a high level, high performance, dynamic programming language for technical computing, Julia is making a niche of its own in the world of programming languages.

6. **Scala**

   The Scala Programming Language has been on the market for a little longer than most of the other languages in this list and was probably a little slow to get off the blocks as compared to the other languages. However; this functional and highly scalable programming languages has gradually attracted attention and companies such as Twitter, LinkedIn and Intel are using the language in their system now.
Given that Google Go has garnered such unprecedented success, the other language from Google – Google Dart – has been in its shadows for the past 7-8 months. However, now that app development is gaining pace, people are realising how useful Dart can be in implementing high performance architecture and performing modern app development. Unveiled as a substitute for JavaScript for browser apps, Dart is finally realizing its true potential and is expected to continue its rise in the coming years.

What other languages are worth keeping an eye out for in the year ahead? Drop a line in the comments section!

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Eljay says:
May 28, 2017 at 5:32 am

Dawg, I don’t think C/C++ and Java count as new programming languages. They’ve been around quite a long time.

Dawg says:
October 25, 2016 at 4:39 am

1 to 3 should be at the bottom of the chumbucket list not top real languages. I would class C/C++ as top contenders even the much hated Java is far up the scale.

Rust is a good future experiment, Julia is for scientific computing, Scala gives you green hair if C++ gives you whites, Dart is a joke.....

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vyshnavi sagar says:
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*a says:
June 21, 2016 at 1:42 pm

@Vivek, do not learn any language more...
If you want to be a programmer, you should focus on one which you prefer, and learn it with all extras which are connected with some part. For example for Java web developer, it will give you a great job opportunities if you will learn: JavaEE (it is basic to other frameworks), some database with SQL it could be MySQL, some framework to connect with DB- JPQL or Hibernate, learn Maven, learn Git, if you are crazy then you can learn also flyway, design patterns, algorithms and so on... As you can see- in whole technologies stack, java language is only a point of beginning. I expect that the same is with c#. More than one language will not give you better job opportunities, because in your job you will not use more than one.
But remember that IT is not only programming. You can work also as tester, specifier, it-hotline, administrator of databases, of systems, of application servers, you can also make career in a IT-management way which is also incredible huge...
I hope it will give you and other some first-hand information- how IT looks in every day. Because for many people their career in IT is only a fortune..

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April 30, 2016 at 5:59 am

good information.

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