There are different programing languages with different purposes.

Let’s look at the top 5 according to: [www.udemy.com/blog/best-programming-language/](http://www.udemy.com/blog/best-programming-language/)

1. Java
2. C
3. C++
4. C#
5. Objective C

Java is a programming language that is interpreter - based. When compiled, the output isn’t executable file (machine code) – it’s a byte-code that can be executed using a Java Virtual Machine. The main benefit of this is that a single program can be run on multiple OS and multiple architectures, as long as there is a JVM written for that specific system. That makes Java a good platform for developing applications that require portability. Java is very successful in server applications and mobile development, thanks to Android OS. Performance is a little slower, compared to some of the other languages.

C is one of the oldest languages, and it’s the base of many others. It’s compiled to machine code that depends on OS and PC architecture. C is low level language and this give it more control over hardware, which makes it very useful when writing an OS kernel, firmware for a specific device or just a very optimized applications.

C++ is an extension to C that solves many of the problems and adding the core principle of Object-oriented programming. It’s a more convenient way to program complicated software, by separating core functionality into different parts of the code. Many of the current desktop applications are programed in C++ like Mozilla Firefox, Google Chrome, Adobe Photoshop and other.

C# is a language developed by Microsoft as part of .NET initiative. It’s a language that balances the high portability, like the one found with Java, and the power of C++. C# uses the .NET platform. It includes libraries of classes - FCL (Framework Class Library) and a runtime - CLR (Common Language Runtime). Programs are compiled down to an intermediate language - CIL (Common Intermediate Language).

Objective-C is developed to address the objected-oriented deficiencies of C language. It’s mainly used by Apple in their products – Macs, iPhones, iPads and so on. A must if you want to program for this products, which currently have a huge audience around the world.