# Programming Languages

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| **Program Language** | **Description** | **Comparison /C#/** |
| **C** | ***C*** is a general purpose, cross-platform, procedural, imperative programming language. It is used for implementing system software and application software and is one of the most-used computer programming languages of today. The development of C++ and C# was influenced by C. | **C** is unmanaged code; C# is managed by the .NET CLR. **C** is a structed language; C# is an object orienated language. |
| **C++** | ***C++*** consists of a combination of high-level and low-level language features and is hence considered as a middle-level programming language. It is a multi-paradigm language that supports procedural programming, generic programming, object-oriented programming and data abstraction. | **C++** support multiple inheritance; C# does not. **C++** creates raw assemblies that run directly on the target platform; C# is a managed language that runs in a virtual machine. |
| **C#** | ***C#*** (pronounced “*see sharp*”)is a multi-paradigm programming language that supports imperative, generic and object-oriented programming. It is a part of the Microsoft .NET Framework. It is similar to C++ in its object-oriented syntax and is also influenced by Java and Delphi. | X |
| **Java** | ***Java*** is an interpreted computer programming language. It was originally implemented as part of web browsers so that client-side scripts could interact with the user, control the browser, communicate asynchronously, and alter the document content that was displayed. | **Java** is open source, multi-platform independent language; C# is not. **Java** has less primitive types than C#. |
| **PHP** | ***PHP*** is one of the very popularly used general purpose scripting languages. It is developed for creating dynamic web pages and supports a command line interface capability. | **PHP** is open source, multi-platform, server-independent language; C# is not. **PHP** is not a strongly typed language; C# is strongly typed. |
| **Python** | ***Python*** is a high-level programming language that supports imperative, object-oriented and functional programming paradigms. In its features like the dynamic type system and automatic memory management, it is similar to Perl. | **Python** is dynamically typed, unlike C#. **Python** is multi-platform independent language. |
| **Ruby** | ***Ruby*** similar to Perl, it has a dynamic type system and an automatic memory management. It supports multiple programming paradigms and is a dynamic object-oriented language. | **Ruby** is a dynamic typed language; C# is a static typed language. |