

Programming Languages Research

Directions: Research the following computer languages on the Internet. Define them and compare how they are similar and different from each other. For example, what's the similarity between Java and C#?

Language	Description	How it Compares/Contrasts with Similar Languages
C/C++	Developed to do system programming for Unix	Older version of C#
C#	Object-oriented, aimed to combine C++ with Visual Basic	Modern version of C, with Microsoft .NET framework
Golang (Go)	Compiled programming language designed at Google	Like C, but with memory safety, garbage collection, structural typing, and CSP-style concurrency
Java	Programming language used to develop web-applications	Like JavaScript, but more of the backend to it
JavaScript	The frontend code of Java	Like Java, but is the frontend code of it
PHP	Server-side scripting language that is embedded in HTML	Like Java, but is used only as a server-side language whereas Java is used for both server-side and desktop programming
Python	Used for developing desktop GUI applications	Python is dynamically typed, whereas C# is statically typed
SQL	Used for database management and data manipulation	PHP is used to create a program, whereas SQL is used to interact with data sets, helps make the program work if it contains data
Swift	Used to develop applications for iOS (Apple Devices)	Swift is much faster than Python, as Swift was built with performance in mind