

## mirror\_object peration == "MIRROR\_X": Choosing a Lrror\_mod.use\_x = True Lrror\_mod.use\_y = False Programming operation == "MIRROR\_Y" irror\_mod.use\_x = False Language rror\_mod.use\_y = True lrror\_mod.use\_z = False

It would be impossible to properly explain every programming language in a single book of this size. New languages and ways in which to 'talk' to a computer or device and set it instructions are being invented almost daily; and with the onset of quantum computing, even more complex methods are being born. Here is a list of the more common languages along with their key features.



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## Choosing a Programming Language (</>





SQL stands for Structured Query Language. SQL is a standard language SOL for accessing and manipulating databases. Although SQL is an ANSI (American National Standards Institute) standard, there are different versions of the SQL language. However, to be compliant, they all support at least the major commands such as Select, Update and Delete in a similar manner.



JAVASCRIPT

JavaScript (often shortened to JS) is a lightweight, interpreted, object-oriented language with first class functions. JavaScript runs on the client side of the web,

that can be used to design or program how the web pages behave on the occurrence of an event. JavaScript is an easy to learn and also powerful scripting language, widely used for controlling web page behaviour.



JAVA

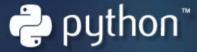
Java is the foundation for virtually every type of networked application and is the global standard for developing enterprise software, webbased content, games and mobile apps. The two main components of

the Java platform are the Java Application Programming Interface (API) and the Java Virtual Machine (JVM) that translates Java code into machine language.



C# is an elegant object-oriented language that enables developers to C# build a variety of secure and robust applications that run on the .NET Framework. You can use C# to create Windows client applications, XML Web services, client server applications, database applications and much more. The

curly-brace syntax of C# will be instantly recognisable to anyone familiar with C, C++ or Java.



**PYTHON** 

Python is a widely used high level programming language used for general purpose programming, created by Guido van Rossum and first released in 1991. An interpreted language,

Python has a design philosophy that emphasises code readability and a syntax that allows programmers to express concepts in fewer lines of code. This can make it easier for new programmers to learn.



C++ (pronounced cee plus plus) is a general purpose programming C++ language. It has imperative, object-oriented and generic programming features. It was designed with a bias toward system programming and embedded, resource-constrained and large systems, with performance, efficiency and flexibility of use as its design highlights.



Ruby is a language of careful balance. Its creator, Yukihiro "Matz" **RUBY** Matsumoto, blended parts of his favourite languages (Perl, Smalltalk, Eiffel, Ada and Lisp) to form a new language. From its release in 1995, Ruby has drawn devoted coders worldwide. Ruby is seen as a flexible language; essential parts of Ruby can be removed or redefined, at will.



**PERL** 

Existing parts can be added to.

Perl is a general purpose programming language, used for a wide range of tasks including system administration, web development network programming, GUI development and more. Its major features are that it's easy to use, supports both procedural and object-oriented (OO) programming, has powerful built-in support for text processing and has one



**SWIFT** 

Swift is a powerful and intuitive programming language for macOS, iOS, watchOS and tvOS. Writing Swift code is interactive and fun; the syntax is concise yet expressive and Swift includes modern

features that developers love. Swift code is safe by design, yet also produces software that runs lightning fast. A coding tutorial app, Swift Playgrounds, is available on the iPad.

of the most impressive collections of third-party modules.