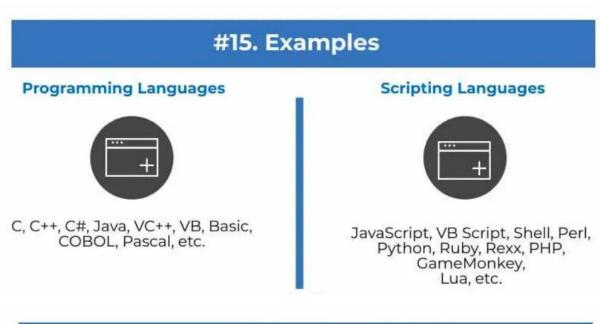A programming language is a computer language that is used to **communicate with computers using a set of instructions**.

A scripting language is a type of programming language designed for a runtime system **to automate the execution of tasks.** It is compiled language or compiler-based language.

#15. Examples

Programming Languages

C, C++, C#, Java, VC++, VB, Basic, COBOL, Pascal, etc.

Scripting Languages

JavaScript, VB Script, Shell, Perl, Python, Ruby, Rexx, PHP, GameMonkey, Lua, etc.

#13. Development Time

Programming Languages

Takes longer to develop as more code needs to be written.

Scripting Languages

Takes less time to code as it needs less coding.

#12. Complexity

Programming Languages

Are complex.

Scripting Languages

Are easy to use and easy to write.

#11. Temperament

Programming Languages

Harder to code. Needs numerous lines of code for each function.

Scripting Languages

Easier to code. Needs only a few short lines of code for each function.

#10. Coding

Programming Languages

Programming is making a full code of program.

Scripting Languages

Scripts are just a piece of code.

Programming Languages

They run independent of a parent program or exterior.

Scripting Languages

These run inside another program.

#6. Design

Programming Languages

Designed to give full usage of a language.

Scripting Languages

Designed to make coding fast and simple.

SCRIPTING LANGUAGE
VERSUS
PROGRAMMING LANGUAGE

SCRIPTING LANGUAGE	PROGRAMMING LANGUAGE
A programming language that supports scripts: programs written for a special run-time environment that automate the execution of tasks	A formal language, which comprises a set of instructions used to produce various kinds of output
Execution speed is slow	Compiler-based languages are executed much faster while interpreter-based languages are executed slower
Can be divided into client-side scripting languages and server-side scripting languages	Can be divided into high-level, low-level languages or compiler-based or interpreter-based languages
Easier to learn	Not as easy to learn
Ex: JavaScript, Perl, PHP, Python and Ruby	Ex: C, C++, and Assembly
Mostly used for web development	Used to develop various applications such as desktop, web, mobile, etc.

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Scripting
VS
Programming Languages

Comparison Chart

Programming Language	Scripting Language
A programming language is an organized way of communicating with a computer.	A scripting language is a programming language that supports scripts.
Traditional programming is based on low level languages.	Scripting prefers high level languages.
The traditional programming languages such as C, C++, and Java are compiled.	Perl, Python, JavaScript, and other languages used for scripting are interpreted and do not require the compilation step.
General programming leads to closed software applications.	Scripting promotes open projects and is used for web applications.
More code needs to be written.	Less coding is required in scripting.