

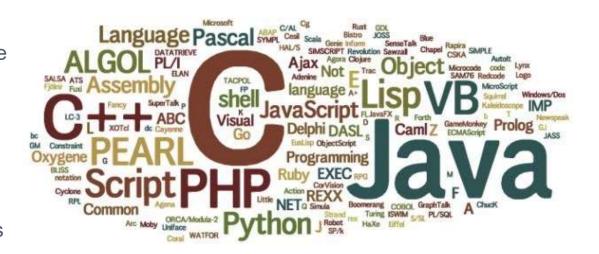
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Overview of Programming Languages

What are Computer Programming Languages?

Computer programming languages allow us to give instructions to a computer in a language the computer understands. Just as many human-based languages exist, there are an array of computer programming languages that programmers can use to communicate with a computer. The portion of the language that a computer can understand is called a "binary." Translating programming language into binary is known as "compiling." Each language, from C Language to Python, has its own distinct features, though many times there are commonalities between programming languages



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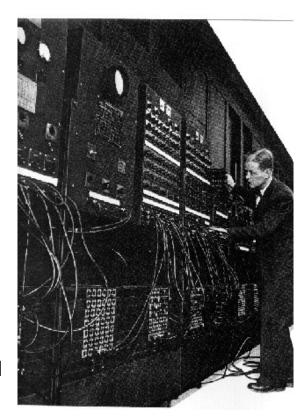


Developing History of Computer Languages.

1883: <u>Algorithm for the Analytical Engine</u>: Created by Ada Lovelace for Charles Babbage's Analytical Engine to computer <u>Bernoulli numbers</u>, it's considered to be the first computer programming language.

1949: <u>Assembly Language</u>: First widely used in the <u>Electronic Delay</u> <u>Storage Automatic Calculator</u>, assembly language is a type of low-level computer programming language that simplifies the language of machine code, the specific instructions needed to tell the computer what to do.

1972: C: Developed by Dennis Ritchie at Bell Labs, C is considered by many to be the first high-level language. A high-level computer programming language is closer to human language and more removed from the machine code. C was created so that an operating system called Unix could be used on many different types of computers. It has influenced many other languages, including Ruby, C#, Go, Java, JavaScript, Perl, PHP, and Python.



1983: C++: C++ is an extension of the C language and was developed by Bjarne Stroustrup. It is one of the most widely used languages in the world. C++ is used in game engines and high-performance software like Adobe Photoshop. Most packaged software is still written in C++