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Syntax of Languages

Text-based messages and languages have higher-level syntactic properties. These syntactic rules are known as **grammatical rules**. The grammar of natural languages has evolved historically, and the grammatical correctness of a given text is not always clear-cut. In contrast, the syntax of artificial languages is much more precise. Among the languages constructed to replace natural languages, the most famous and significant is **Esperanto**, created by Zamenhof. Languages built for scientific and technical purposes are subject to strict requirements. From an information science perspective, **mathematical axiom systems** can be considered languages.

The languages created by **computer science** and **information technology** describe computer programs, control programs, protocols, data, facts, and knowledge bases.

- Processor instruction sets
- Programming languages:
 - Assembly languages
 - Sequential languages:
 - ENGLISH, FORTRAN, COBOL, PL 1
 - BASIC, Visual Basic
 - PASCAL, Delphi
 - C, C++, Visual C++
 - ADA
 - Java, J++, Perl, PhP
 - Logical languages:
 - LISP, PROLOG
- Command languages: BASH
- Configuration languages: YAML
- Object description languages: HTML, XML, EDI
- Simulation languages: SIMAN, TLI
- Technical programming languages
 - CNC programming languages:
 - ISO NCL, APT, EXAPT CLD
 - Robot programming languages:
 - VAL, AML

Using **languages**, complex expressions can be created by applying terminal symbols, keywords, and rules. A **program** is an ordered set of such expressions. A program is a finite sequence of expressions written in a programming language, representing a computer-interpretable and executable realization of an algorithm.

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