

## 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:

1. **Assembly languages**
2. **Sequential languages:**
  1. ENGLISH, FORTRAN, COBOL, PL 1
  2. BASIC, Visual Basic
  3. PASCAL, Delphi
  4. C, C++, Visual C++
  5. ADA
  6. Java, J++, Perl
3. **Logical languages:**
  1. LISP, PROLOG

- **Command languages:** BASH - **Configuration languages:** YAML - **Object description languages:** HTML, XML, EDI - **Simulation languages:** SIMAN, TLI - **Technical programming languages**

### - CNC programming languages:

1. ISO NCL, APT, EXAPT CLD

### - Robot programming languages:

1. 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.

From:

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Last update: 2024/10/07 16:02

