

Languages and grammars

- (formal) language: A set of words or symbols.
- grammar: A description of a language that describes which sequences of symbols are allowed in that language.
 - describes language syntax (rules) but not semantics (meaning)
 - can be used to generate strings from a language, or to determine whether a given string belongs to a given language

Backus-Naur (BNF)

 Backus-Naur Form (BNF): A syntax for describing language grammars in terms of transformation *rules*, of the form:

<symbol> ::= <expression> | <expression> ... | <expression>

- **terminal**: A fundamental symbol of the language.
- non-terminal: A high-level symbol describing language syntax, which can be transformed into other non-terminal or terminal symbol(s) based on the rules of the grammar.
- developed by two Turing-award-winning computer scientists in 1960 to describe their new ALGOL programming language

Sentence generation

