

Syntax

Terminals

- Logic
- Symbols (1): 0, 1
- Concatenation \cdot
- Implication \Rightarrow
- Table of US-ASCII:
- A **word** is recursively defined.
 - Base case (5):
 - 0 is a word.
 - 1 is a word.
 - Recursion (6): let w be a word.
 - $w \cdot 0$ is a word.
 - $w \cdot 1$ is a word.

Atoms

- Strings are words with delimiters: $d_1.w.d_2$, where $d_1 \notin w$ and $d_2 \notin w$.
- Identifiers are strings without white space.
- Numbers are a subset of strings with an injective function $q : \text{NUMBER} \rightarrow Q$.
 - Q is set of strings

$$\frac{p}{q}$$

where p, q are in scientific notation.

Grammar

- LALR
 - Not ambiguous
- Welkin Grammar: