



**Abstraction**

- A scanner for the English language accepts this sentence.
- A sequence of characters gets assembled symbols (words and punctuation).

This sentence makes this sentence

# Specification and Implementation

- **Specification**

The specification of valid symbols is a regular expression written in EBNF. It is easier to reason about the correctness of regular expression and it is expressive enough. The number of valid symbols is infinite and their size is unbounded.

- **Implementation**

The scanner implements this specification using a finite state machine (FSM), a computational model, that recognizes/accepts the set of regular expressions. The implementation is simple and can be done very efficiently.

# Abstraction

- A scanner for the English language accepts this sentence.
- A sequence of characters gets assembled symbols (words and punctuation).

This\_sentence\_makes\_no\_sentence