

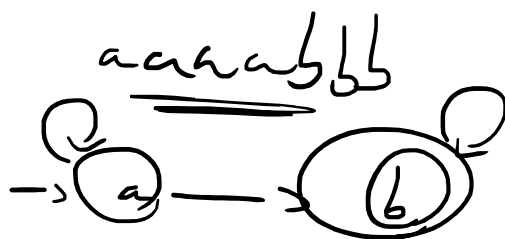
→ Regex : Regular Expressions .

Lang ⇒ Patterns

→ Formal Language Assessment .

→ Automata Theory : (Theory of Computation)

↳ Deterministic Finite Automata



↳ Non-Deterministic Finite Automata

⇒ Normal Forms :

→ Chomsky Normal Form

→ Greibach Normal Form

→ Requirement of Generalization

↓
Regular Expression.

⇒ Regex Conventions :

\d ⇒ Digits (0-9)

\D ⇒ Not a digit (0-9)

\w ⇒ Word Character (a-z, A-Z, 0-9)

\W ⇒ Not a word character

\s ⇒ Whitespace (Space, Tab, Newlines)

\S ⇒ No whitespace.

⇒ Regex Boundaries :

\b - Word Boundary.

\B - Not a word boundary

^ - Beginning of a string

\$ - End of string.