

Module 13

Intro Finite State Machines (FSM) & Regular Language

Language:

Finite State Machine (FSM)

Ex 1: Let $\Sigma = \{a, b, c\}$. Let $L_1 =$ The set of strings ending in bbb .

Draw machine. Define S, Σ, q_0, F , and δ

Regular Language (Regular Expression)

Regular Expression Examples Let $\Sigma = \{a, b, c\}$

Ex 2: Let L_2 be the set of strings having zero or more a s followed by zero or more b s.

Regular Expression:

Potential Strings:

Draw FSM

Ex 3: Let $L_3 = ab^+a$

Description:

Potential Strings:

Draw FSM

Relationship between FSM and Regular Languages

