

Insert Markov pun here

A talk on Probabilistic Automata and Markov Chains

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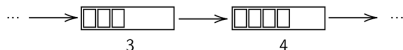
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A short recap of NFA's

Deterministic and Nondeterministic Finite State Machines

Combining both these concepts, a **Deterministic Finite State Automata (DFA)** is one whose next state is uniquely determined by the current state. As an example, a loading bar at $n\%$ can only progress to a state at $(n+1)\%$



In contrast, a **Nondeterministic Finite State Automata (NFA)** is one whose next state is not uniquely determined by its current state. An example would be the output of a dice roll: it's a NFA, because the number of states are finite, and the next state is independent of the current state

