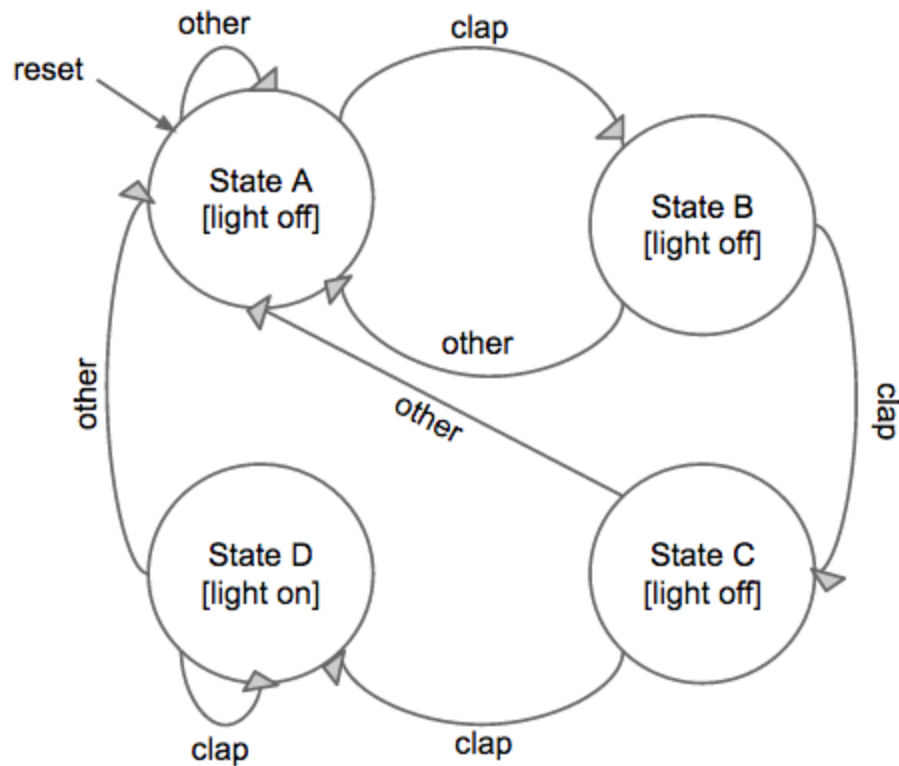# Quiz 2: Encoding Finite State Machines

Below is a finite state machine for "The Clapper" -- a sound-activated light. The Clapper listens for at least three claps in a row before turning on the light. However, this Clapper is pretty buggy and if it is interrupted by a sound that's not a clap, it will reset the clap count.

Encode this finite state machine using binary values for all states, inputs, and outputs as we did with the FSM for an elevator in lecture.