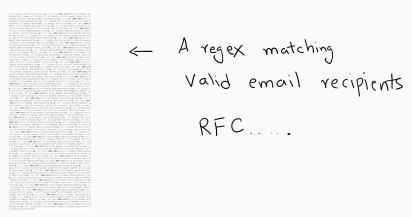
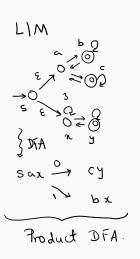
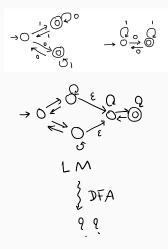
Games, graphs, and machines

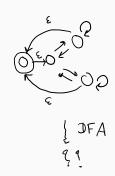


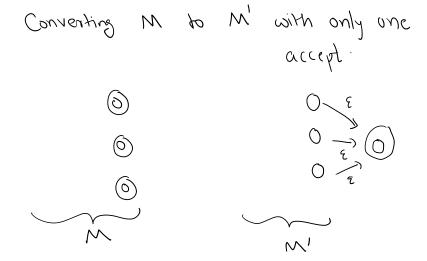
Automata LEGO

Given are two automata for languages L and M. Construct (non-deterministic) automata for L|M and LM and L^* .









Automata LEGO

What if we wanted DFAs for L|M and LM and L^* ?

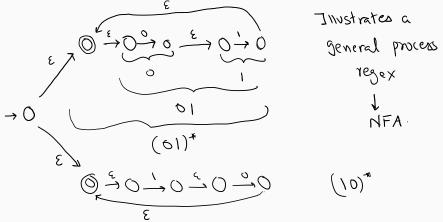


Just convert to DFA

(Direct lego with DFA's is inconvenient).

Regex to automata

Construct a non-deterministic automaton for $(01)^*|(10)^*$.



More NFA LEGO

Given an automaton with language L, can you construct an automaton with language $L^{\rm rev}$

 $L^{\text{rev}} = \{ \text{Reverses of all the words in } L \}.$

2: Is grammar checkable
by regex ?