



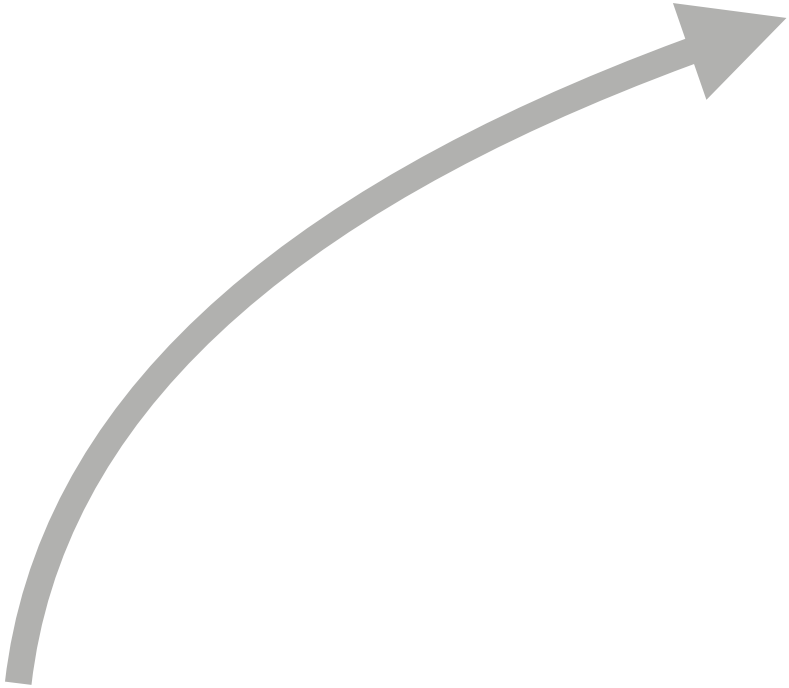
Prettraining DFA Encoder

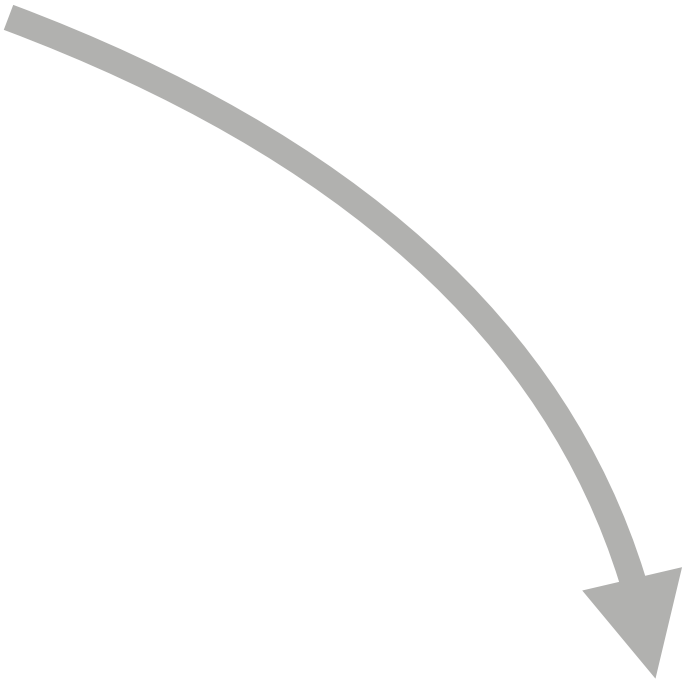


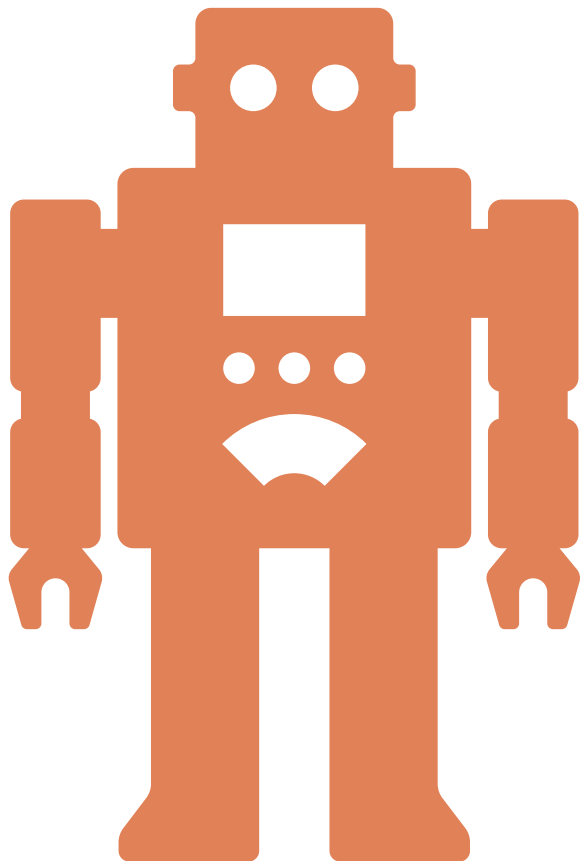


$a_t \sim \pi(s_t | g_t)$, where $a_t \in \{\text{green square}, \text{blue square}, \text{red square}\}$

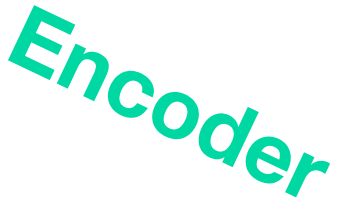




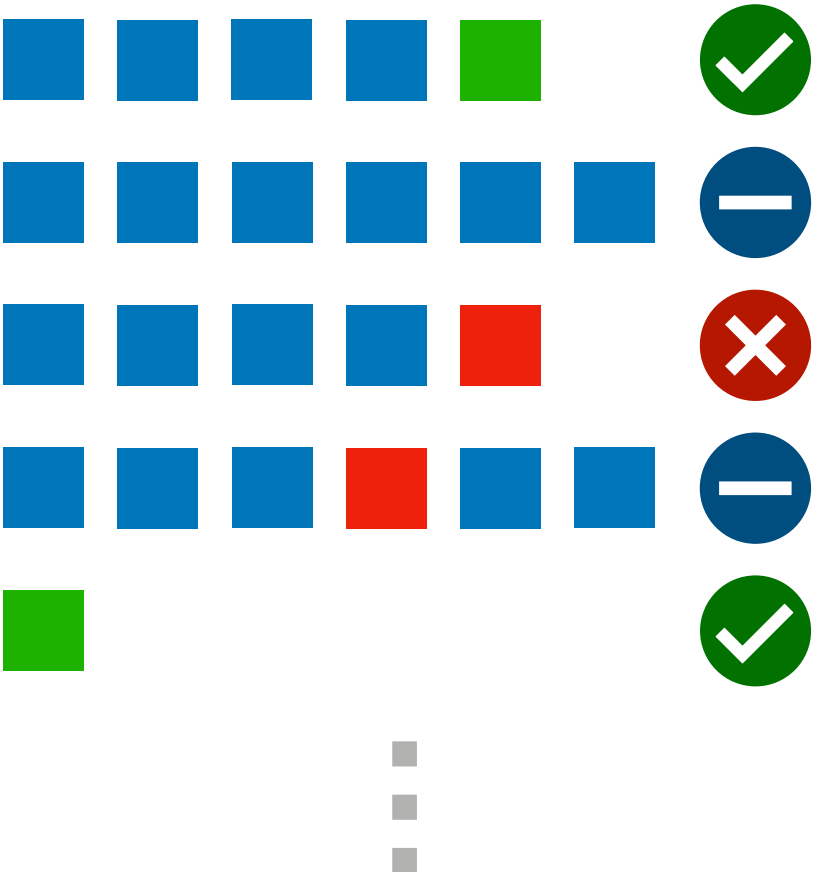




gt



Encoder





+1 reward



+1 reward



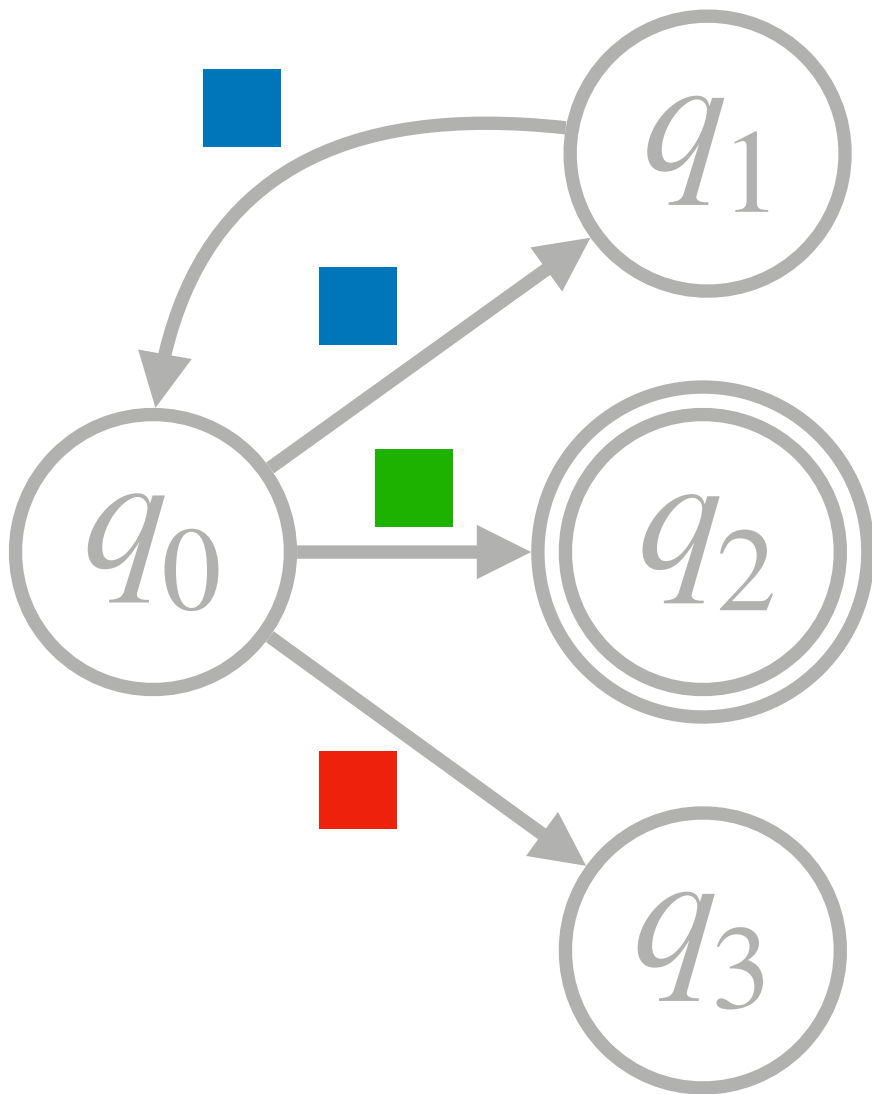
0 reward




-1 reward

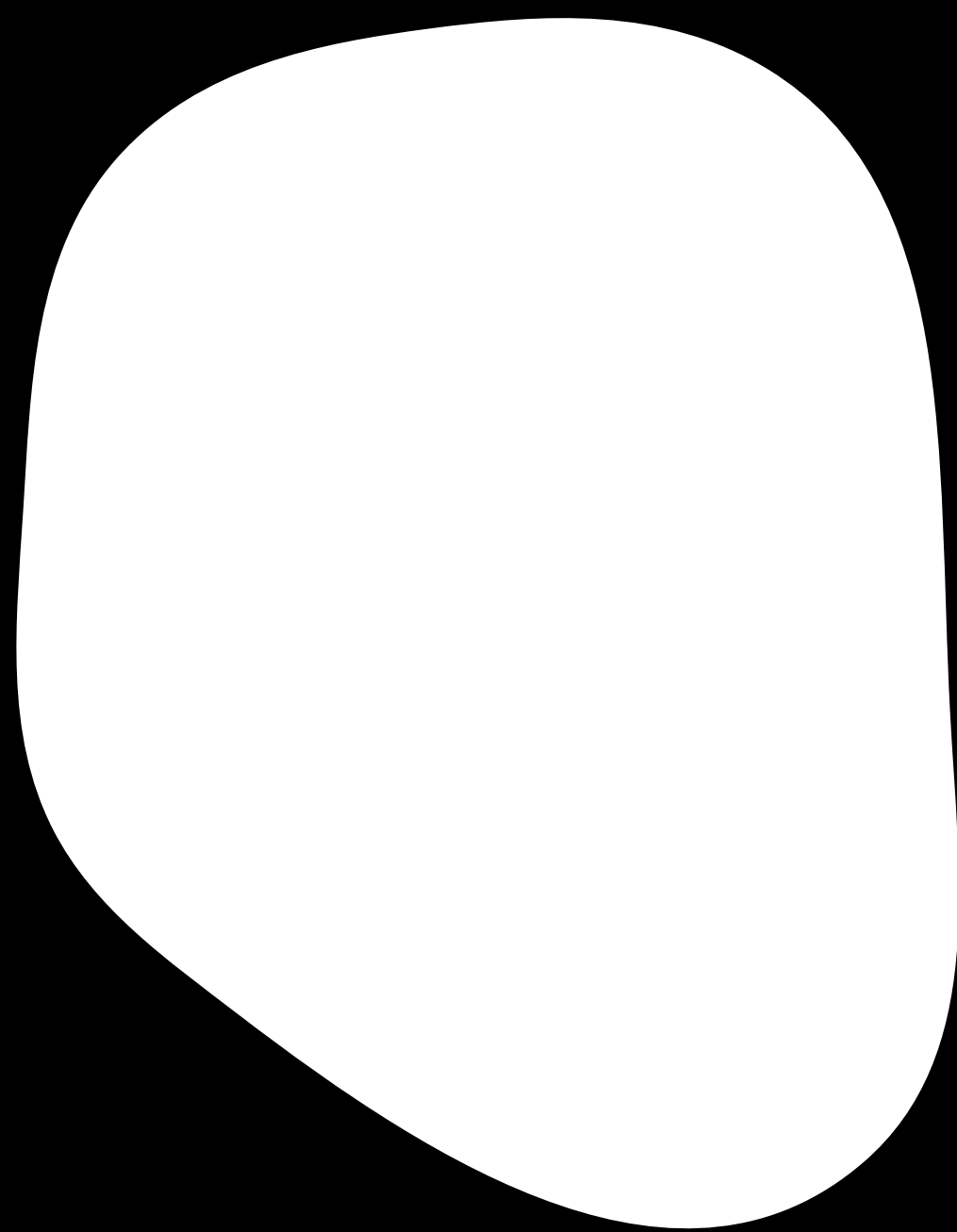


0 reward





Agent learns to
“solve” a DFA

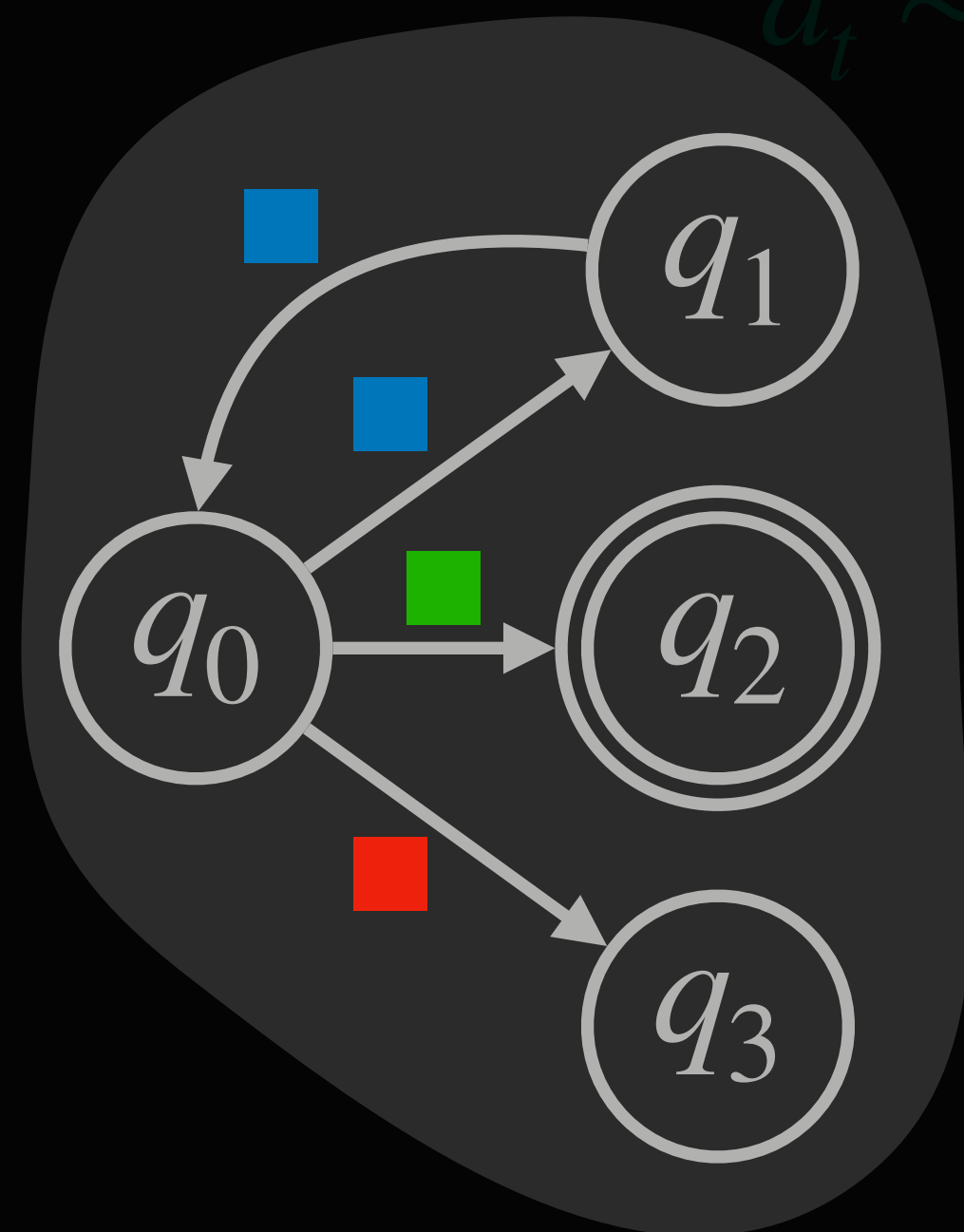


Q1: What is the encoder?

A1: Message passing neural network (GATv2)

Q2: How to input a DFA to a message
passing neural network?

Pretraining DFA Encoder



Q1: What is the encoder?

A1: Message passing neural network (GATv2)

Q2: How to input a DFA to a message passing neural network?

Agent learns to “solve” a DFA

0 reward

DFA featurization

