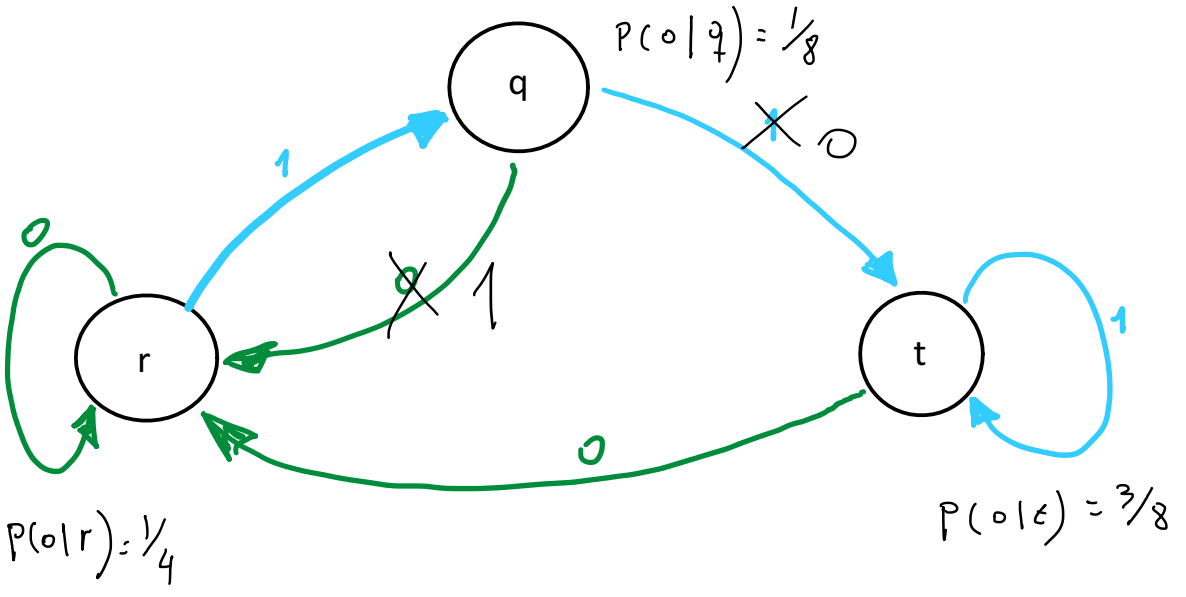
Modelo FSM



$$P = \begin{array}{c|ccc} & r & q & t \\ \hline r & 1/4 & 3/4 & 0 \\ q & 1/8 & 0 & 7/8 \\ t & 3/8 & 0 & 5/8 \end{array}$$

$$\tilde{\pi} = (\pi_r, \pi_q, \pi_t)$$

$$\tilde{\pi} = \tilde{\pi} P$$

$$P(x_j = 0) = \sum_{s \in \{r,q,t\}} P(x_j = 0, S_j = s)$$

$$= \sum_{s \in \{r,q,t\}} \overbrace{P(S_j = s)}^{\pi_s} \cdot \underbrace{P(x_j = 0 \mid S_j = s)}$$