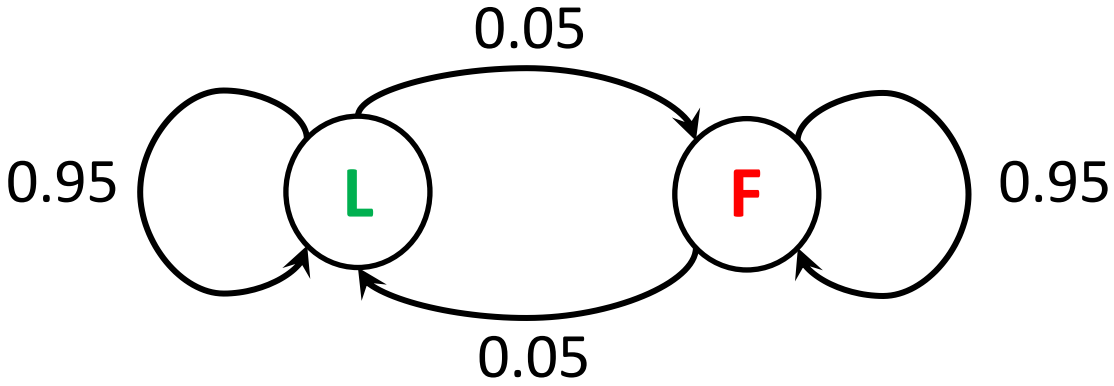

HMM Parameters

Initial probs $P(S_1 = \mathbf{L}) = 0.5 = P(S_1 = \mathbf{F})$

Transition probs $P(S_t = \mathbf{L}/\mathbf{F} \mid S_{t-1} = \mathbf{L}/\mathbf{F}) = 0.95$

$P(S_t = \mathbf{F}/\mathbf{L} \mid S_{t-1} = \mathbf{L}/\mathbf{F}) = 0.05$

Emission probabilities $P(O_t = y \mid S_t = \mathbf{F}) = 1/6 \quad y = 1,2,3,4,5,6$

$P(O_t = y \mid S_t = \mathbf{L}) = 1/10 \quad y = 1,2,3,4,5$

$= 1/2 \quad y = 6$