

$$\text{dom}(l_i) = \{0, 1\}$$

$$p(l_0 = 0) + p(l_0 = 1) = 1$$

$$p(l_1 = 0) + p(l_1 = 1) = 1$$

$\begin{matrix} .7 \\ .5 \end{matrix}$ 
 $\begin{matrix} .3 \\ .5 \end{matrix}$

$$\begin{aligned}
 p(l_0 = 0) &= p(l_0 = 0, l_1 = 0) \\
 &\quad + p(l_0 = 0, l_1 = 1) \\
 &= p(l_0 = 0, l_3 = 0) \\
 &\quad + p(l_0 = 0, l_3 = 1)
 \end{aligned}$$

$$\begin{aligned}
 p(l_0 = 1) &= p(l_0 = 1, l_1 = 0) \\
 &\quad + p(l_0 = 1, l_1 = 1) \\
 &= p(l_0 = 1, l_3 = 0) \\
 &\quad + p(l_0 = 1, l_3 = 1)
 \end{aligned}$$







