

MizMorning:M	P(M)	BusDelay:B	P(B)
true	.9	true	.4
false	.1	false	.6

I'mLate:L	P(L M=true,B=true)	P(L M=true,B=false)	P(L M=false,B=true)	P(L M=false, B=false)
true	.8	.7	.6	.1
false	.2	.3	.4	.9

Coffee:C	P(C   L=true)	P(C   L=false)
true	.3	.6
false	.7	.4

WorkLate:W	P(W   L=true)	P(W   L=false)
true	.4	.2
false	.6	.8

$$\begin{aligned}
 P(W, B=t) &= \sum_{l=\{t/f\}} \sum_{c=\{t/f\}} \sum_{m=\{t/f\}} P(W, B=t, L=l, C=c, M=m) \\
 &= \sum_{l=\{t/f\}} \sum_{c=\{t/f\}} \sum_{m=\{t/f\}} \\
 &\quad \Pr(M=m) \Pr(B=t) \Pr(L=l|M=m, B=t) \Pr(C=c|L=l) P(W|L=l)
 \end{aligned}$$

l	c	m	P(W, B=t, L=l, C=c, M=m)
t	t	t	$\Pr(M=t) \Pr(B=t) \Pr(L=t   M=t, B=t) \Pr(C=t   L=t) P(W   L=t)$ $[0.9 * 0.4 * 0.8 * 0.3 * 0.4, 0.9 * 0.4 * 0.8 * 0.3 * 0.6]$
t	t	f	$\Pr(M=f) \Pr(B=t) \Pr(L=t   M=f, B=t) \Pr(C=t L=t) P(W L=t)$ $[0.1 * 0.4 * 0.6 * 0.3 * 0.4, 0.1 * 0.4 * 0.6 * 0.3 * 0.6]$