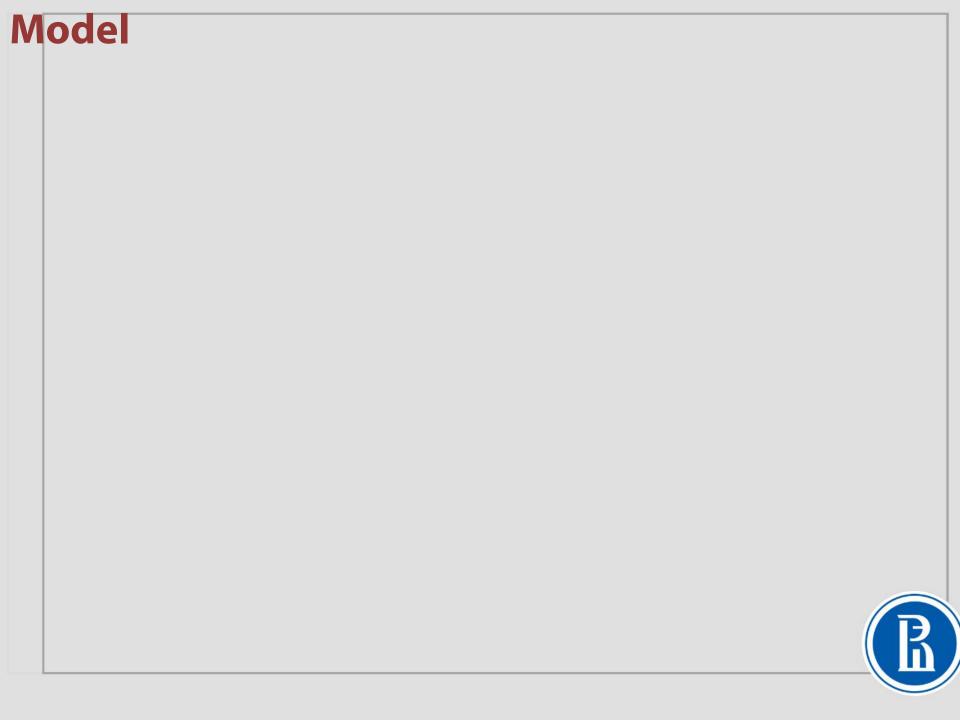
Example: thief & alarm

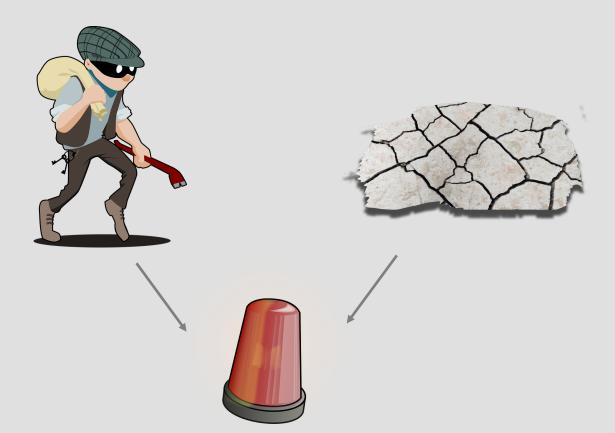




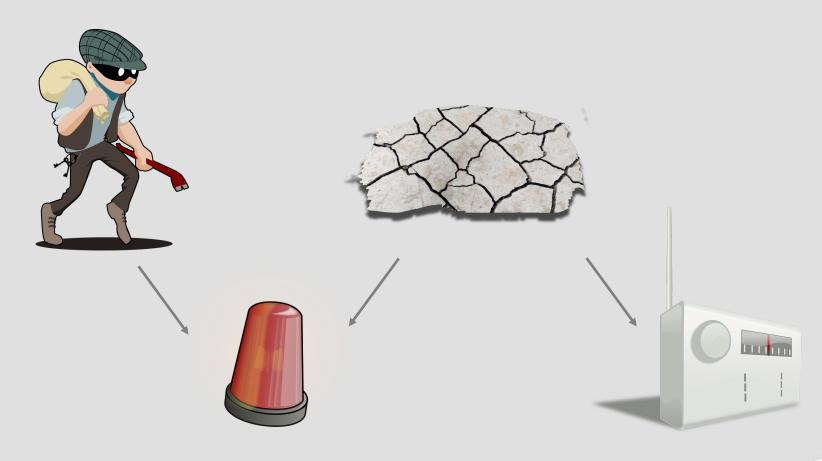




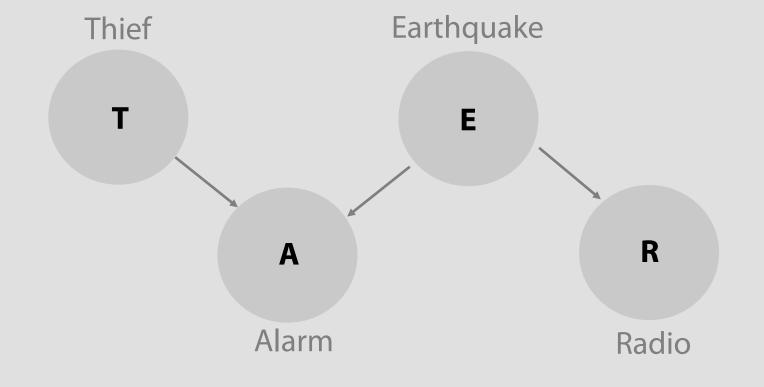






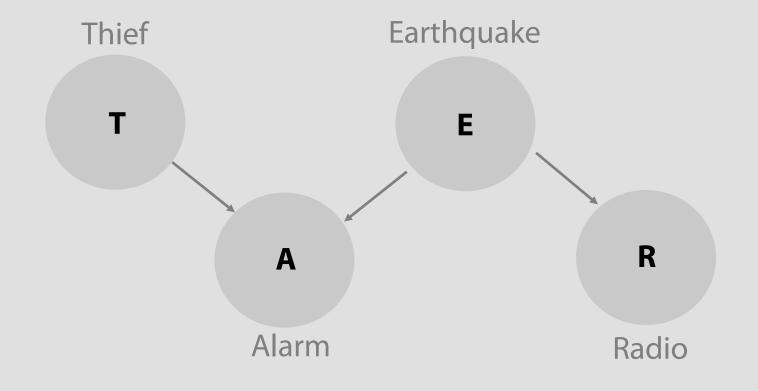






$$P(T, A, E, R) =$$



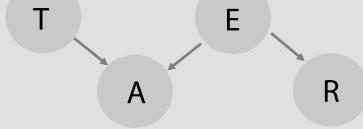


$$P(T, A, E, R) = P(T)P(E)P(A|T, E)P(R|E)$$

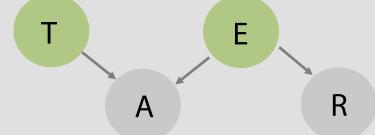


ТЕХНИЧЕСКИЙ СЛАЙД

Thief Earthquake

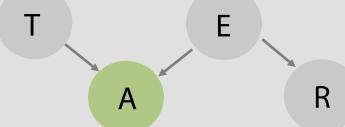






Priors	
P(T=1)	10^{-3}
P(E=1)	10^{-2}





Priors	
P(T=1)	10^{-3}
P(E=1)	10^{-2}

P(A = 1 T, E)	$\mathbf{E} = 0$	$\mathbf{E} = 1$
T = 0	0	1/10
T = 1	1	1



T E R

Priors	
P(T=1)	10^{-3}
P(E=1)	10^{-2}

P(A = 1 T, E)	$\mathbf{E} = 0$	$\mathbf{E} = 1$
T = 0	0	1/10
T = 1	1	1

P(R E)	
$\mathbf{E} = 0$	0
E = 1	1/2



T E R

Priors	
P(T=1)	10^{-3}
P(E=1)	10^{-2}

P(A = 1 T, E)	$\mathbf{E} = 0$	$\mathbf{E} = 1$
T = 0	0	1/10
T = 1	1	1

P(R E)	
$\mathbf{E} = 0$	0
E = 1	1/2



<< Part on marker board >> (8 mins)



Correct model

