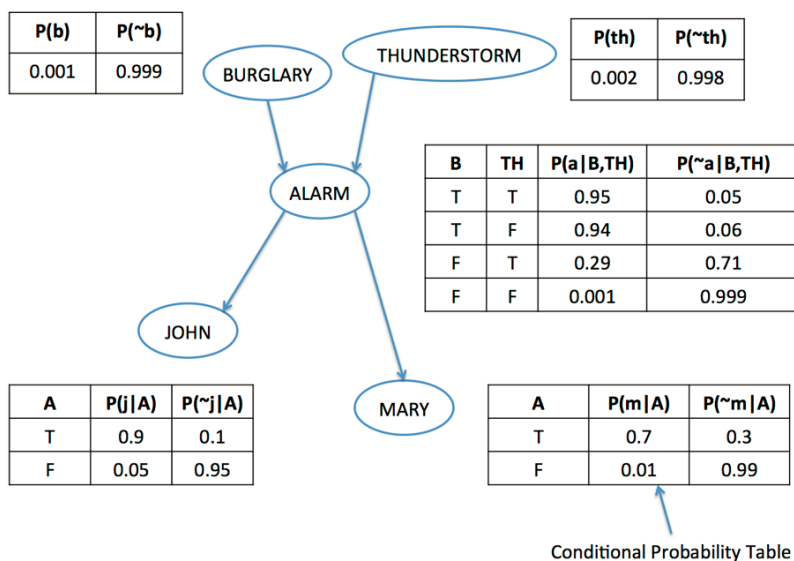


## Bayes net example 2

Friday, October 21, 2016 10:49 AM



hidden variables

missing a, th

$$P(b|j,m) \propto P(b,j,m) = \alpha \sum_{x=\{a, \neg a\}} \sum_{y=\{th, \neg th\}} P(b,j,m,x,y)$$

$$= \alpha \sum_x \sum_y \left[ P(b) P(y) P(x|b,y) P(j|x) P(m|x) \right]$$

$$= \alpha \left[ P(b) P(th) P(a|b,th) P(j|a) P(m|a) + \right. \\ \left. P(b) P(\neg th) P(a|b,\neg th) P(j|a) P(m|a) + \right. \\ \left. P(b) P(th) P(\neg a|b,th) P(j|\neg a) P(m|\neg a) + \right. \\ \left. P(b) P(\neg th) P(\neg a|b,\neg th) P(j|\neg a) P(m|\neg a) \right]$$

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compute  $P(\neg b|j,m) \propto P(\neg b,j,m) = \dots$


bayer


Write code → makes this equation guided by the ~~neural~~ net

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