

$$P(D=+d | -h, +e, +b, +c) = \alpha P(D, -h, +e, +b, +c)$$

$$= \alpha \sum_{D \in \mathcal{D}} \sum_F \sum_G P(D, -h, +e, +b, +c)$$

$$= \alpha \sum_D \sum_A \sum_F \sum_G P(D | F, G) P(-h) P(+e | G, +b) P(+b | D, +e, +c) \\ P(+c) P(A | +b, +c) P(F) P(G)$$

$$= \alpha_D P(-h) P(+b | D, +e, +c) P(+c) \sum_A P(A | +b, +c) \sum_F P(F) \sum_G$$

$$P(+e | G, +b) P(D | F, G) P(G)$$

$$P(c \in H|g|h) <^t d|t|, t|g, -d|t|, t|g > P(g)$$

$$0.7 < 0.88, 0.12 > 0.002 = < 0.00032, 0.000168 >$$

$$< 0.000521b, 0.0003444 >$$

$$P(c \in l - g|h) <^t d|t|, t|g, -g > P(c - g)$$

$$0.78 < 0.4, 0.6 > 0.998 = < 0.31376, 0.46706 >$$

$$< 0.00279, 0.77348 >$$

$$P(c \in l - g, th) <^t d|t|, t|g, -d|t|, t|g > P(c|g)$$

$$0.7 < 0.33, 0.67 > 0.002 = < 0.000462, 0.000138 >$$

$$< 0.00234, 0.7608 >$$

$$0.78 < 0.003, -0.997 > 0.998 = < 0.0002252, 0.7760468 >$$

$$d_0 P(c \in H|g|h, t|g, t|g, t|g), P(c \in H|d, t|g, t|g) > P(c|g)$$

$$0.999 < 0.47, 0.46 > 0.008$$

↓

$$< 0.00001, 0.00280 >$$

$$\approx 0.0626$$

$$< 0.0024, 0.76243 >$$

$$A \cdot a \cdot P(c \in a|t|b, t|g) <^t f|f|, P(c|f)$$

$$< 0.00006, 0.00153 >$$

$$< 0.000521b, 0.0003444 >$$

$$0.77348$$

$$P(c \in H|g|h) <^t d|t|, t|g, -d|t|, t|g > P(g)$$

$$0.7 < 0.88, 0.12 > 0.002 = < 0.00022, 0.000168 >$$

$$P(c \in l - g|h) <^t d|t|, t|g, -g > P(c - g)$$

$$0.78 < 0.4, 0.6 > 0.998 = < 0.31376, 0.46706 >$$

$$P(c \in l - g, th) <^t d|t|, t|g, -d|t|, t|g > P(c|g)$$

$$0.7 < 0.33, 0.67 > 0.002 = < 0.000462, 0.000138 >$$

$$P(c \in l - g, th) <^t d|t|, t|g, -d|t|, t|g > P(c|g)$$

$$0.78 < 0.003, 0.997 > 0.998 = < 0.0002252, 0.7760468 >$$