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$$P(a|b) = \frac{P(a \wedge b)}{P(b)} \text{ if } p(b) \neq 0$$

For enumeration:

$$P(Y|E=e) = \alpha P(Y, E=e) = \alpha \Sigma_h P(Y, E=e, H=h$$

Independent if:

$P(A|B) = P(A)$ or $P(B|A) = P(B)$ or, $P(A, B) = P(A) P(E$

Baye's rule: $P(a|b) = \frac{P(b|a) P(a)}{P(b)}$

$P_t(h_i) = P(Q_t|h_i) * P_{t-1}(h_i)$ → computed at previous round

$P_{t-1}(Q_t)$

Known

computed at previous round.