

$$\begin{aligned}
 \Pr(+) &= \underbrace{\Pr(+ \mid \text{crab}) \times \Pr(\text{crab})}_{0.9 \times 0.01} + \underbrace{\Pr(+ \mid \text{not crab}) \times \Pr(\text{not crab})}_{0.08 \times 0.99} \\
 &\approx 0.09
 \end{aligned}$$