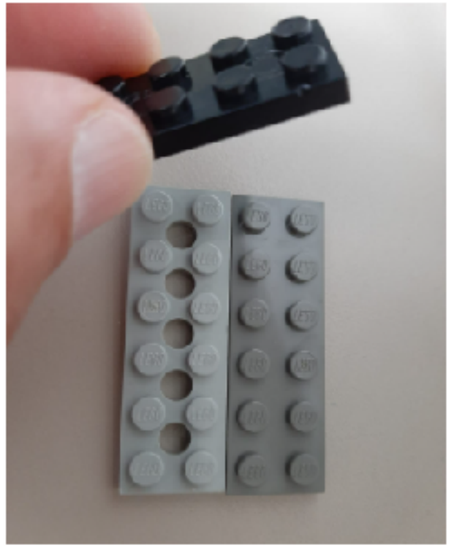

$$P(B) = 12/24 = 1/2$$

$$P(P) = 8/24 = 1/3$$

$$P(P|B) = 4/12 = 1/3$$

$$P(B|P) = 4/8 = 1/2$$

$$P(P|B) = \frac{P(B|P)\,P(P)}{P(B)} = \frac{1/2 \cdot 1/3}{1/2} = 1/3$$

$$P(\text{Doente}|\text{Positivo}) = \frac{P(\text{Positivo}|\text{Doente})\,P(\text{Doente})}{P(\text{Positivo})}$$

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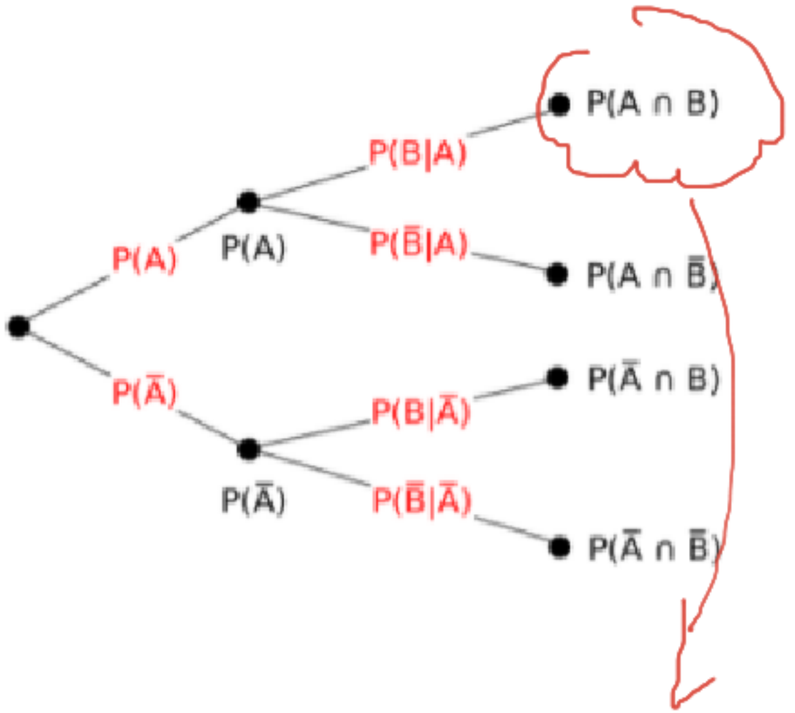


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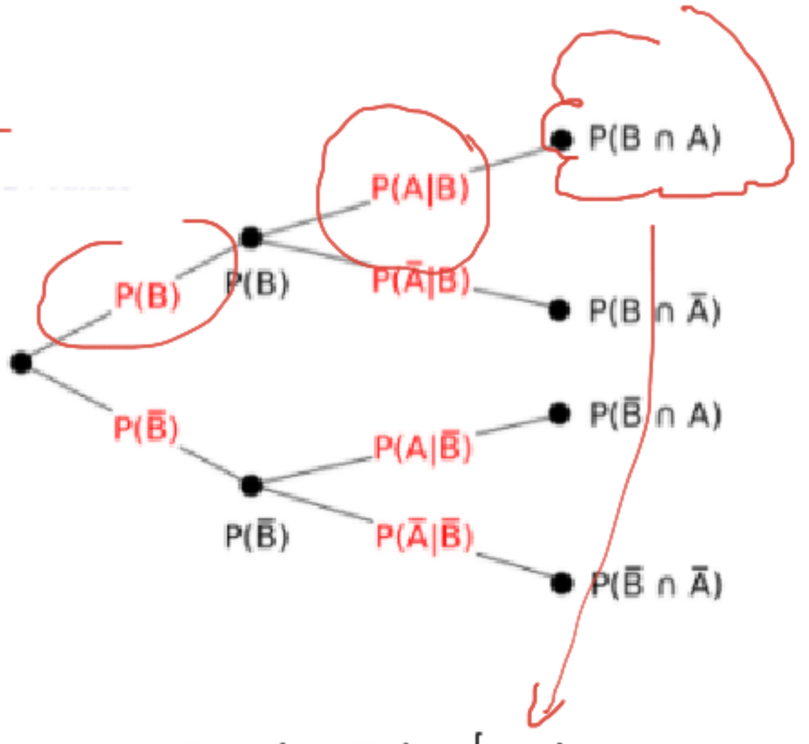


$$P(A)\,P(B|A) = P(B)\,P(A|B)$$

$$P(A|B) = \frac{P(B|A)\,P(A)}{P(B)}$$