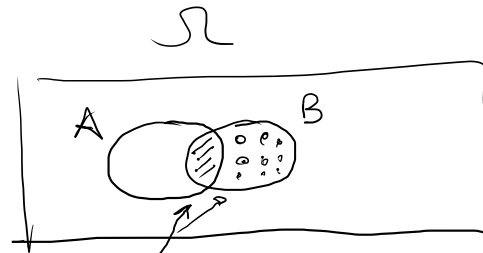


$$P(A^c \cap B) = P(B) - P(A \cap B)$$

perché  $P(A \cap B) + P(A^c \cap B) = P(B)$



$$P(B) = 1 \rightarrow P(B^c) = 0$$

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

$$P(A|B) = \frac{P(A \cap B)}{\underbrace{P(B)}_{=1}} = P(A \cap B) = P(A)$$

$$P(A) = \underbrace{P(A \cap B)} + \underbrace{P(A \cap B^c)}_{=0}$$

perché  
 $A \cap B^c \subset B^c$