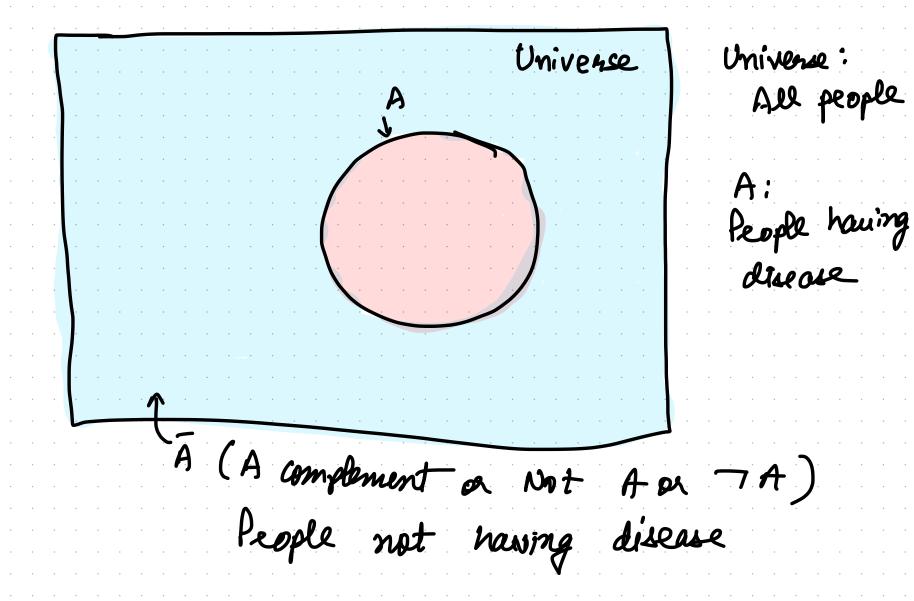
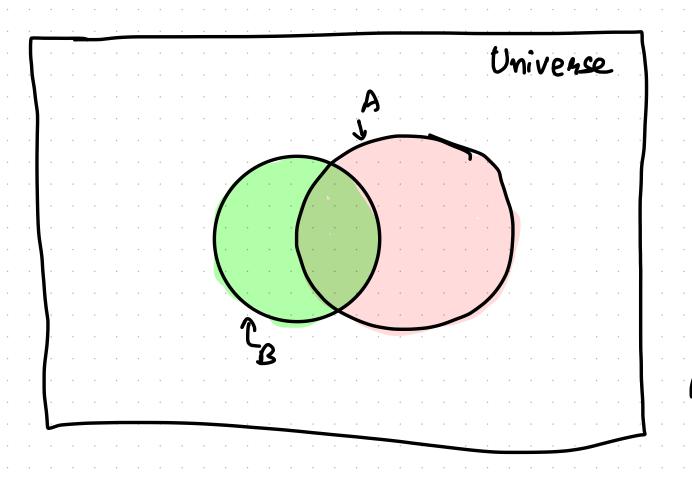


A: People having disease

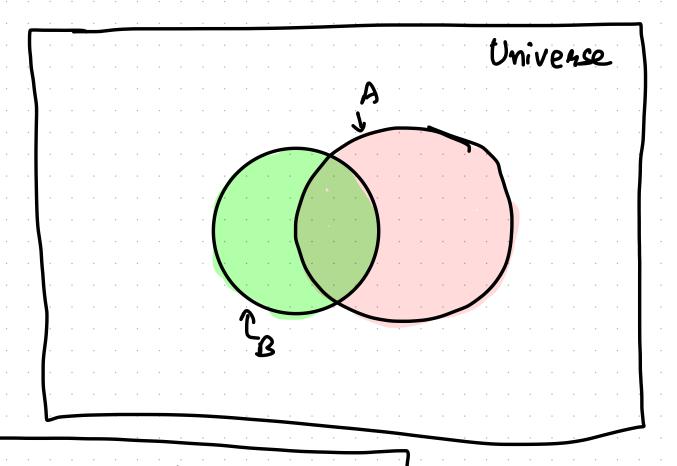




A: People having disease

B: People textel + for disease

7B or B: People tested - ne for disease

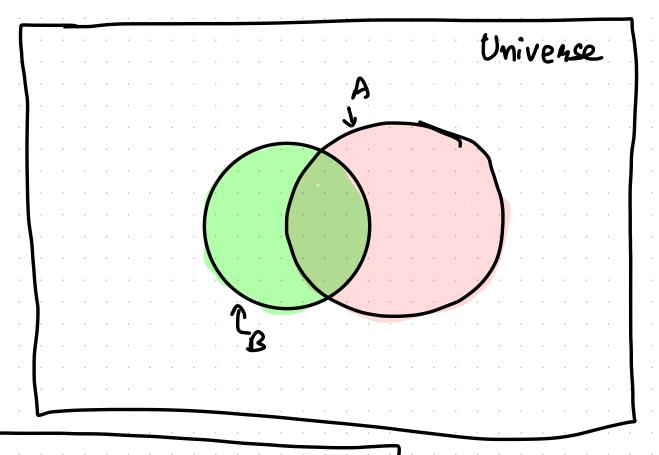


A: People howing disease

B: People textel + for disease

P (Disease) = 1A1 1Universe1

7B or B: People tested - ne for disease



A: People having disease

B: People textel + for disease

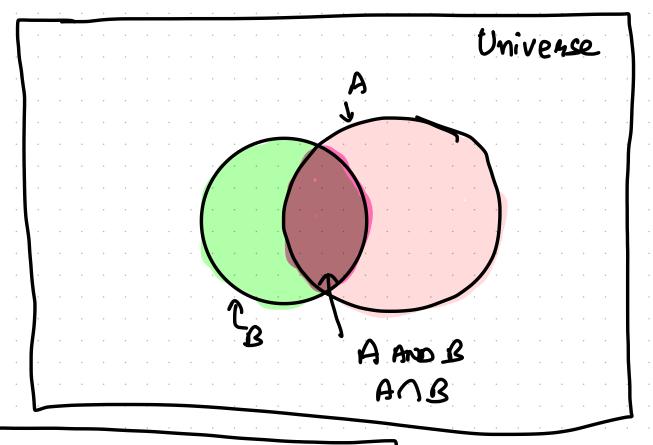
$$P(Disease) = |A| = P(A)$$

$$|Universe|$$

$$P(Test) = |B| = P(B)$$

$$|Universe|$$

TB or B: People texted - ne for disease



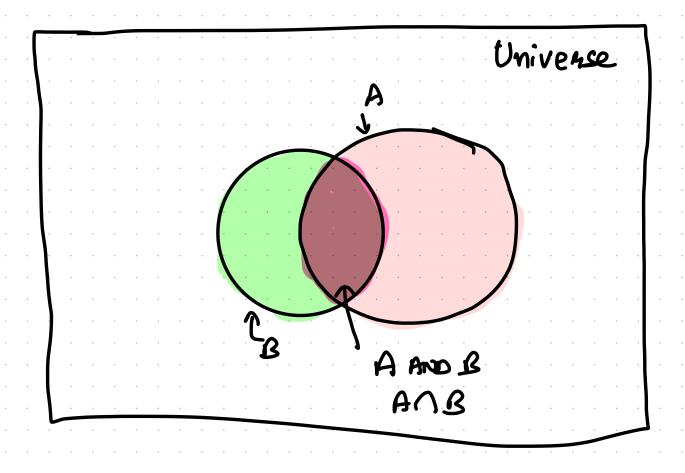
$$P(Disease) = |A| = P(A)$$

$$|Universe|$$

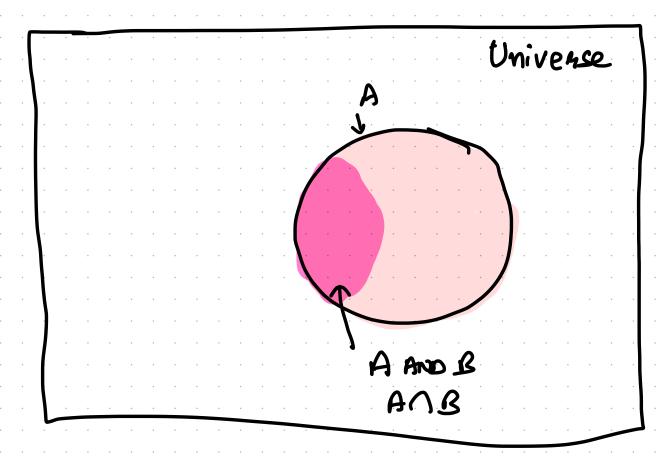
$$P(Test) = |B| = P(B)$$

$$|Universe|$$

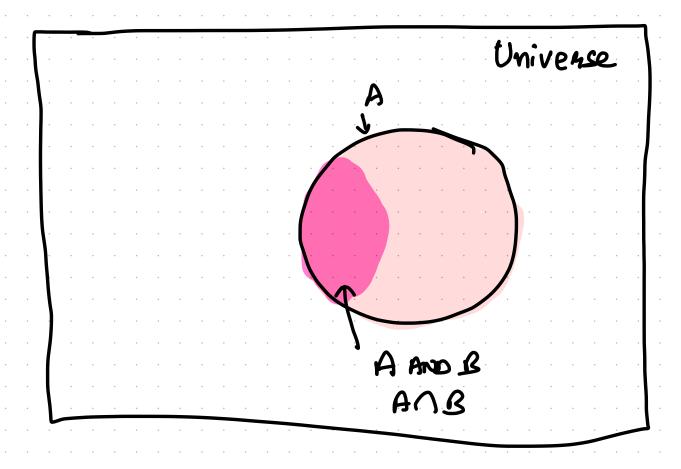
P(Disease AND TEST)
=(T)
=(T)
= P(A AND B) = IANB!
| Universe



P(Test(=T) GIVEN PISFASE(=T)

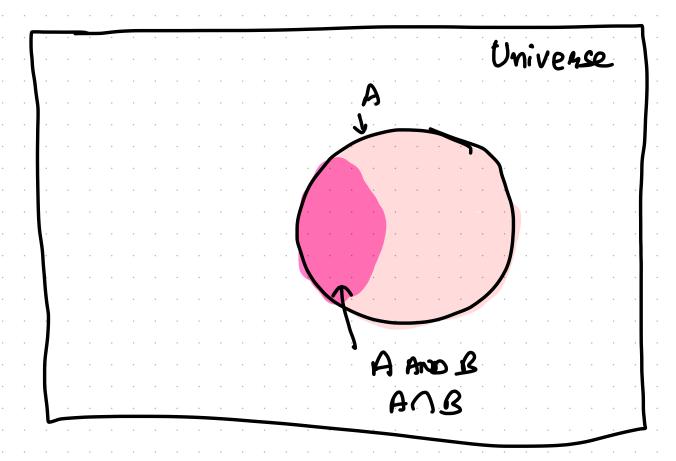


$$= \frac{1A \cap B}{1A1} = \frac{1A \cap B}{1 \cup \text{miverse}} = \frac{P(AB)}{P(A)}$$



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

$$P(A1R) = \frac{P(AR)}{P(R)}$$



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

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

$$P(AID) P(D)$$

$$= P(DA) P(A)$$