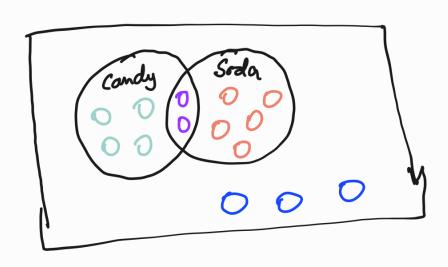
## Conditional Probability



Contingency Table

No Condy candy Soda No Soda Total (soda and cordy) =  $\frac{2}{14}$ 

$$P(condy only) = \frac{4}{14}$$

$$= \frac{2}{2+5}$$

$$= \frac{2}{7} = 0.29$$

P ( not love c and loves / love s)

$$= \frac{5}{2+5}$$

$$= \frac{5}{7} = 0.71$$

P (not love c and lovess | lovess)

PC loves S)

Bayes Theorem