

Probability & Counting Techniques

**S
a
m
p
l
e
S
p
a
c
e**



$$P(A \text{ or } B) = P(A) + P(B)$$

Tree Diagram

$$n! = n(n-1)(n-2)\dots 1$$

Possible outcome

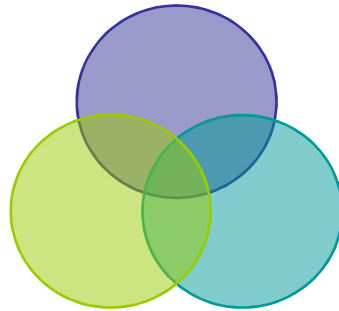


Mutually Exclusive

$$P(A \text{ and } B) = P(A) * P(B)$$

Permutation

$$P(\bar{E}) = 1 - P(E)$$



**C
o
m
b
i
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t
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