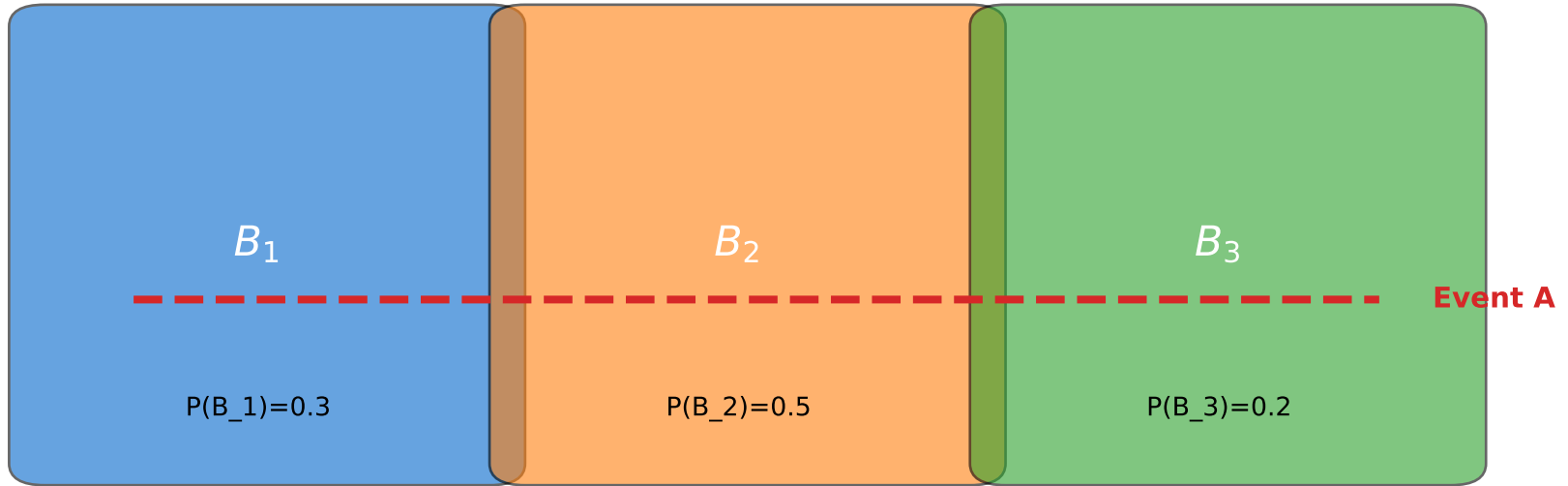


Sample Space  $\Omega$  partitioned into  $B_1, B_2, B_3$



$$P(A) = P(A|B_1)P(B_1) + P(A|B_2)P(B_2) + P(A|B_3)P(B_3)$$

**Law of Total Probability**