Conditional probability

• Let $A, B \subseteq \Omega$ with $\mathbb{P}(B) > 0$. Then

$$\mathbb{P}(A|B) = rac{\mathbb{P}(A \cap B)}{\mathbb{P}(B)}.$$

< □ > < □ > < □ > < Ξ > < Ξ > Ξ の Q C 2/13

- This is the conditional probability of A given B.
- If $\mathbb{P}(B) = 0$ we leave the conditional probability undefined.