Sample Space Ω (*Slide* 9)

- The set of all possible individual outcomes (sample points / elementary events) of an experiment
- Example: sample space for "tossing a die"?

$$\Omega = \{1, 2, 3, 4, 5, 6\}$$

Random Variable Example (Slide 21)

- *"tossing a fair coin three time"*
 - $\Omega = \{TTT; TTH; THT; THH; HTT; HTH; HTT; HTH \}$
 - Let X be the number of heads tossed in 3 times
 - We can map each outcome in Ω to a real number: