

### Symbols

$\Omega$	Omega
$\cup$	Union/Or
$\cap$	Intersection/And
'	Compliment (Not)
$\in$	Element Of
$\notin$	Not an Element Of
$\approx$	Tilde Operator, Similar to
$\cong$	Approximately Equal to
$\equiv$	Identical to

### Sample Spaces

The set of all possible outcomes	$\Omega$
A subset of the sample space	$A \subseteq \Omega$
Listing a sample Space	$\Omega = \{H, T\}$

### Rules of a Probability Function

1.  $P(\Omega) = 1$
2.  $P(A) \geq 0$  for all  $A \subseteq \Omega$
3.  $P(A \cup B) = P(A) + P(B)$  if A and B are disjoint ( $A \cap B = \emptyset$ )



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