Events

Some outcome of an experiment

roll a 6
seeing a poodle
ANZ stock price ↑

weather tomorrow
melting point alloy
rolling die

- Event can be a combination of events
- Denote events: $A, B, \ldots, E_1, E_2 \ldots$
- Prob. of events: $P(A)$ or $Pr(B)$

Experiment	Ex. event
Throw die once	Roll a 6
The next dog we meet	Seeing a poodle
Daily change in ANZ stock price	ANZ stock price ↑

Event notation

event A, event B

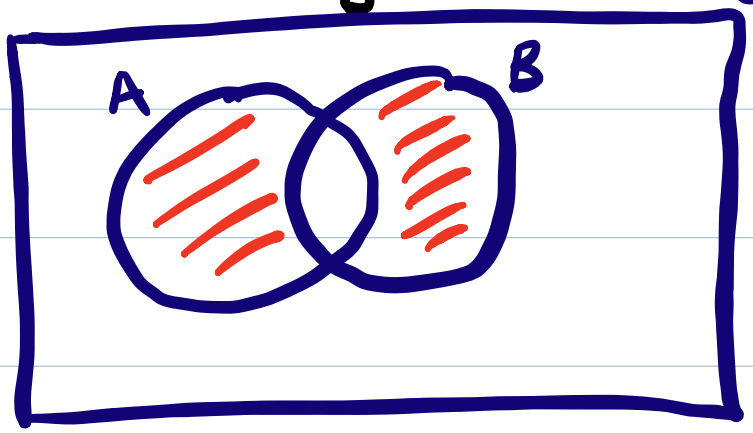
Probability A, $P(A)$ or $Pr(A)$

Complement of A (not A), $\overline{A}$ or A^c

Intersection (A & B occur), $A \cap B$

Union (A or B occur), $A \cup B$

Venn Diagrams



U = Universe / experiment

$(A \cup B) \cap \overline{(A \cap B)}$