

Set Operators

- Examples:
 - $\text{Newcastle} \in \{\text{NSW cities}\}$
 - $\text{Melbourne} \notin \{\text{NSW cities}\}$
 - $\{\text{Newcastle, Sydney}\} \subseteq \{\text{NSW cities}\}$
 - $\#\{\text{Newcastle, Sydney}\} = 2$
- $\{\text{Tom, Jim, James}\} \cup \{\text{James, Kathy}\} = \{\text{Tom, Jim, James, Kathy}\}$
- $\{\text{Tom, Jim, James}\} \cap \{\text{James, Kathy}\} = \{\text{James}\}$
- $\{\text{Tom, Jim, James}\} \setminus \{\text{James, Kathy}\} = \{\text{Tom, Jim}\}$