Intersection: Example

$\mathit{Father} \cap \mathit{Mother} = \emptyset$

$(\mathit{Siblings} \cap \mathit{SameAge})(x, y)$ if
x and y are siblings of the same age.

A Special Kind of Relations: Functions

A kind of relations $R \subseteq A \times B$
are called *functions*:

- If xRy and xRy', then $y = y'$
- For all $x \in A$, we have that xRy for some $y \in B$