Definition

Let $\mathcal{R} \subseteq A \times B$ be a relation from A to B. The (symmetric) conjugate of \mathcal{R} is the relation

$$\mathcal{R}^* \subseteq B \times A,$$

with

$$\mathcal{R}^* = \{(y, x) : (x, y) \in \mathcal{R}\}.$$

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- Basically, flip all of the pairs!
- If $\mathcal{R}^* = \mathcal{R}$ we say \mathcal{R} is symmetric.