

On the Category of Sets and Relations

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Sets and relations form the dagger symmetric monoidal category **Rel**. I will present a category-theoretic axiomatization of **Rel**. Then, I will argue that **Rel** can be regarded as an algebraization of classical predicate logic. Finally, I will draw an analogy between **Rel** and **Hilb**, the dagger symmetric monoidal category of Hilbert spaces and bounded operators.