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abstract embedding

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From the most general -categorical- point of view, an embedding between two objects  $A, B$  in a category  $\mathcal{C}$  is a  $\mathcal{C}$ -morphism  $f: A \rightarrow B$  which is injective. So, for example, the adjectives topological, algebraic or geometrical should be used, respectively, when we talk of embeddings between topological spaces, algebraic structures or geometries.