

# Subcategories

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Category Theory

A *subcategory* of a [category](#)  $C$  is another [category](#)  $B$  formed from a subset of the objects and morphisms of  $C$  with the same composition and identities as  $C$ .

**Definition 1** (Full Subcategories). *A subcategory  $B$  of  $C$  is **full** iff  $\forall x, y \in B, B(x, y) = C(x, y)$  i.e. only orphaned morphisms are removed.*