

# Object Meets Function

Polymorphism

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# Polymorphism

## 1 Polymorphism



# Polymorphism

"It means many form"

## 3 Types of polymorphism

**Parametric (a.k.a generic)** it comes from functional programming concept. One function can have many type of parameter.

**Ad hoc** functions can be applied to arguments of different types. In some PL it called 'overloading'. 'overloading' means many implementation but using one name for operation. Ex: `combine(x: Integer, y: Integer) : Integer` and `combine(x: String, y: String) : String`.

**Subtype** it comes from object oriented concept. It can have one base class/object and one or more sub-class(es). Like object class "Dog" and multiple subtypes of it to be: Husky, German Shepherd, and Golden Retriever.

