



## Metric Space Functions

### 1 Why

We want to talk about functions from one set with a metric into another set with a metric.

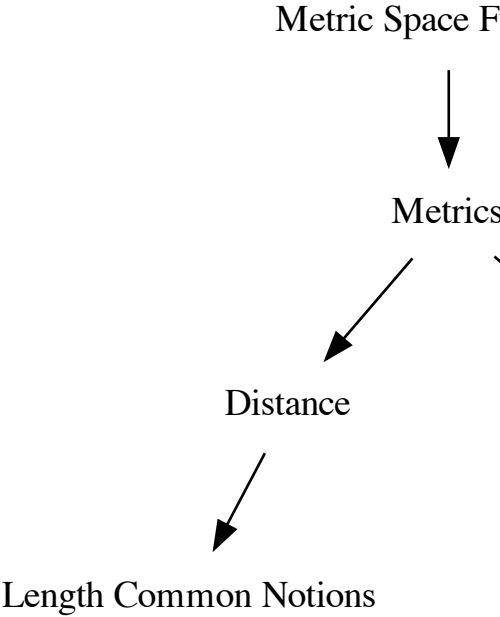
### 2 Definition

A *function* from a first metric space to a second metric space is a function from the first set to the second set.



2.1 Notation

Let  $(A, d)$  and  $(B, d')$  We denote that  $f$  is a function from the first metric space



Equation S



Equations