$$Type(_n, FuncProp)$$

and applies to containers only:

$$PropVal(n,?c,?o) \longrightarrow Type(?c,Container)$$

2.7.4 RDF Schema

Subclasses and Subproperties

subClassOf is a property:

If a class C is a subclass of a class C', then all instances of C are also instances of C':

$$PropVal(subClassOf,?c,?c') \leftarrow$$
 $(Type(?c,Class) \land Type(?c',Class) \land$
 $\forall ?x(Type(?x,?c) \longrightarrow Type(?x,?c')))$

Similarly for subPropertyOf: P is a subproperty of P' if P'(x, y) whenever P(x, y):

$$Type(subPropertyOf, Property)$$

$$PropVal(subPropertyOf, ?p, ?p') \longleftrightarrow$$

$$(Type(?p, Property) \land Type(?p', Property) \land$$

$$\forall ?r \forall ?v(PropVal(?p, ?r, ?v) \longrightarrow PropVal(?p', ?r, ?v)))$$

Constraints

Every constraint resource is a resource:

$$PropVal(subClassOf, ConstraintResource, Resource)$$

Constraint properties are all properties that are also constraint resources: