

Child.Person \equiv Parent

\Rightarrow describe it in RDF, N3

```

:Parent a owl:Class ;
owl:equivalentClass
  [ a owl:Class ; a owl:Restriction ;
    owl:onProperty :child ;
    owl:someValuesFrom :Person ] .
  
```

any like
?X owl:someValuesFrom ?Y are not allowed
any like
?X a Parent . allowed

Jun 19-10:10

each Person has only one age :

$\frac{T}{T} \sqsubseteq \frac{\sqsubseteq}{\sqsupseteq} \frac{\leq 1 \text{ age} . T}{\forall \text{ age} . \text{xsd:NonPositiveInteger}}$

\Rightarrow OWL

```

owl:Thing rdfs:subClassOf
  [ a owl:Restriction ;
    owl:onProperty :age ; owl:maxCardinality 1 ]
age a owl:FunctionalProperty .
  
```

```

:HalmaCity owl:equivalentClass
  [ a owl:Restriction ; owl:onProperty :inCountry ;
    owl:hasValue <http://www.../countries/Italy> ]
  
```

Jun 19-11:07

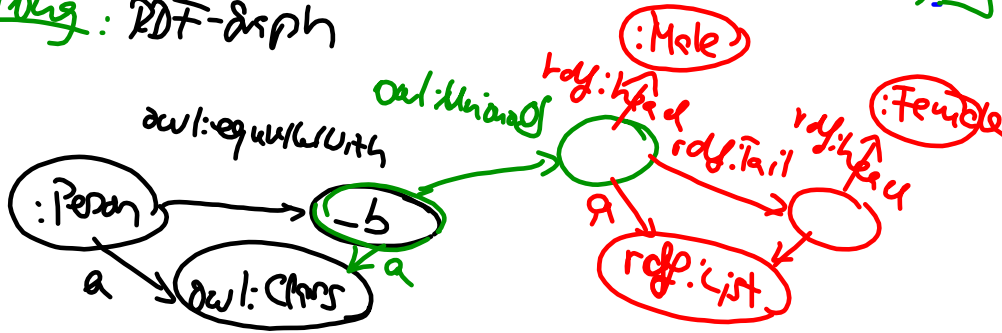
Person \equiv Male \sqcup Female

NB:

:Person a owl:Class ;
owl:equivalentClass

[owl:unionOf (:Male :Female)]

Lang: RDF-graph



Jun 19-11:26



$$P \equiv (\neg P)$$

$$(\neg P) \equiv \neg (\neg P)$$

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A B

$$\text{Union 1} \equiv A \cup B$$

$$\text{Comp A} \equiv \neg A$$

$$\text{Comp B} \equiv \neg B$$

$$\text{Intersection of Comps} \equiv \neg A \cap \neg B$$

$$\begin{aligned} \text{Union 2} &= \neg(\text{Intersection of Comps}) \equiv \neg(\neg A \cap \neg B) \\ &\equiv A \cup B \end{aligned}$$

Jun 19-11:40