

Chapter 1

Code Sample

```
# Example rule file
@prefix pre: <http://jena.hpl.hp.com/prefix#>.
@include <RDFS>.

[rule1: (?f pre:father ?a) (?u pre:brother ?f) -> (?u pre:uncle ?a)]

[all1ID: (?C rdf:type owl:Restriction), (?C owl:onProperty ?P),
  (?C owl:allValuesFrom ?D) -> (?C owl:equivalentClass all(?P, ?D)) ]

[all12: (?C rdfs:subClassOf all(?P, ?D)) -> print('Rule for ', ?C)
  [all1b: (?Y rdf:type ?D) <- (?X ?P ?Y), (?X rdf:type ?C) ] ]

[max1: (?A rdf:type max(?P, 1)), (?A ?P ?B), (?A ?P ?C)
  -> (?B owl:sameAs ?C) ]

(?a ?q ?b) <- (?p rdfs:subPropertyOf ?q), (?a ?p ?b) .

[exampleModelCompletion:
  (?P rdf:type iaml:BooleanProperty)
  (?C iaml:children ?P)
  noValue(?E iaml:for ?P)
  makeSkolem(?A, ?P, ?C)
  ->
  (?A rdf:type iaml:Checkbox)
  (?A iaml:id 'generated')
  (?A iaml:isGenerated 'true')
  (?A iaml:for ?P)
  (?C iaml:children ?A)
]
```

Bibliography