

```
<?xml version="1.0"?>
```

```
<!DOCTYPE rdf:RDF [
  <!ENTITY owl "http://www.w3.org/2002/07/owl#" >
  <!ENTITY swrl "http://www.w3.org/2003/11/swrl#" >
  <!ENTITY swrlb "http://www.w3.org/2003/11/swrlb#" >
  <!ENTITY xsd "http://www.w3.org/2001/XMLSchema#" >
  <!ENTITY rdfs "http://www.w3.org/2000/01/rdf-schema#" >
  <!ENTITY rdf "http://www.w3.org/1999/02/22-rdf-syntax-ns#" >
  <!ENTITY Prolog "http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#" >
]>
```

```
<rdf:RDF xmlns="http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#"
  xml:base="http://www.semanticweb.org/mira/ontologies/2014/9/Prolog"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:swrl="http://www.w3.org/2003/11/swrl#"
  xmlns:Prolog="http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xmlns:swrlb="http://www.w3.org/2003/11/swrlb#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#">
  <owl:Ontology rdf:about="http://www.semanticweb.org/mira/ontologies/2014/9/Prolog"/>
```

```
<!--
////////////////////////////////////
//
// Object Properties
//
////////////////////////////////////
-->
```

```
<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#beschreibt -->
```

```
<owl:ObjectProperty rdf:about="&Prolog;beschreibt"/>
```

```
<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#bestehtAus -->
```

```
<owl:ObjectProperty rdf:about="&Prolog;bestehtAus"/>
```

```
<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#enthält -->
```

```
<owl:ObjectProperty rdf:about="&Prolog;enthält">
  <rdfs:range rdf:resource="&Prolog;Wissen"/>
</owl:ObjectProperty>
```

```
<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#geschriebenIn -->

<owl:ObjectProperty rdf:about="&Prolog;geschriebenIn">
  <rdfs:domain rdf:resource="&Prolog;Programm"/>
  <rdfs:range rdf:resource="&Prolog;Programmiersprache"/>
</owl:ObjectProperty>


<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#hatGrundlage -->

<owl:ObjectProperty rdf:about="&Prolog;hatGrundlage"/>


<!--
////////////////////////////////////
//
// Classes
//
////////////////////////////////////
-->


<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#Klausel -->

<owl:Class rdf:about="&Prolog;Klausel">
  <owl:equivalentClass rdf:resource="&Prolog;Wissen"/>
</owl:Class>


<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#KlauselElement -->

<owl:Class rdf:about="&Prolog;KlauselElement"/>


<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#Logik -->

<owl:Class rdf:about="&Prolog;Logik"/>


<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#Programm -->

<owl:Class rdf:about="&Prolog;Programm"/>


<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#Programmiersprache -->

<owl:Class rdf:about="&Prolog;Programmiersprache"/>
```

```

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#PrologProgramm -->

<owl:Class rdf:about="&Prolog;PrologProgramm">
  <rdfs:subClassOf rdf:resource="&Prolog;Programm"/>
</owl:Class>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#Wissen -->

<owl:Class rdf:about="&Prolog;Wissen"/>

<!--
http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#Wissensrepräsentationssprache -->

<owl:Class rdf:about="&Prolog;Wissensrepräsentationssprache"/>

<!--
////////////////////////////////////
//
// Individuals
//
////////////////////////////////////
-->

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#bedingung -->

<owl:Thing rdf:about="&Prolog;bedingung">
  <rdf:type rdf:resource="&owl;NamedIndividual"/>
  <owl:sameAs rdf:resource="&Prolog;körper"/>
</owl:Thing>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#fakt -->

<owl:NamedIndividual rdf:about="&Prolog;fakt">
  <rdf:type rdf:resource="&Prolog;Klausel"/>
  <bestehtAus rdf:resource="&Prolog;folgerung"/>
</owl:NamedIndividual>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#folgerung -->

<owl:Thing rdf:about="&Prolog;folgerung">
  <rdf:type rdf:resource="&owl;NamedIndividual"/>
  <owl:sameAs rdf:resource="&Prolog;kopf"/>

```

```
</owl:Thing>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#kopf -->

<owl:NamedIndividual rdf:about="&Prolog;kopf">
  <rdf:type rdf:resource="&Prolog;KlauselElement"/>
</owl:NamedIndividual>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#körper -->

<owl:NamedIndividual rdf:about="&Prolog;körper">
  <rdf:type rdf:resource="&Prolog;KlauselElement"/>
</owl:NamedIndividual>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#logischerZusammenhang -->

<owl:Thing rdf:about="&Prolog;logischerZusammenhang">
  <rdf:type rdf:resource="&owl;NamedIndividual"/>
</owl:Thing>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#prolog -->

<owl:NamedIndividual rdf:about="&Prolog;prolog">
  <rdf:type rdf:resource="&Prolog;Programmiersprache"/>
  <beschreibt rdf:resource="&Prolog;logischerZusammenhang"/>
  <hatGrundlage rdf:resource="&Prolog;prädikatenlogik"/>
</owl:NamedIndividual>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#prologProgramm -->

<owl:NamedIndividual rdf:about="&Prolog;prologProgramm">
  <rdf:type rdf:resource="&Prolog;Programm"/>
  <enthält rdf:resource="&Prolog;fakt"/>
  <geschriebenIn rdf:resource="&Prolog;prolog"/>
  <enthält rdf:resource="&Prolog;regel"/>
</owl:NamedIndividual>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#prädikatenlogik -->

<owl:NamedIndividual rdf:about="&Prolog;prädikatenlogik">
  <rdf:type rdf:resource="&Prolog;Logik"/>
</owl:NamedIndividual>
```

```

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog#regel -->

<owl:NamedIndividual rdf:about="&Prolog;regel">
  <rdf:type rdf:resource="&Prolog;Klausel"/>
  <bestehtAus rdf:resource="&Prolog;bedingung"/>
  <bestehtAus rdf:resource="&Prolog;folgerung"/>
</owl:NamedIndividual>

<!--
////////////////////////////////////
//
// Rules
//
////////////////////////////////////
-->

<rdf:Description rdf:about="urn:swrl#x">
  <rdf:type rdf:resource="&swrl;Variable"/>
</rdf:Description>
<rdf:Description>
  <rdf:type rdf:resource="&swrl;Imp"/>
  <swrl:body>
    <rdf:Description>
      <rdf:type rdf:resource="&swrl;AtomList"/>
      <rdf:first>
        <rdf:Description>
          <rdf:type rdf:resource="&swrl;IndividualPropertyAtom"/>
          <swrl:propertyPredicate rdf:resource="&Prolog;beschreibt"/>
          <swrl:argument2 rdf:resource="&Prolog;logischerZusammenhang"/>
          <swrl:argument1 rdf:resource="urn:swrl#x"/>
        </rdf:Description>
      </rdf:first>
      <rdf:rest>
        <rdf:Description>
          <rdf:type rdf:resource="&swrl;AtomList"/>
          <rdf:rest rdf:resource="&rdf:nil"/>
          <rdf:first>
            <rdf:Description>
              <rdf:type rdf:resource="&swrl;ClassAtom"/>
              <swrl:classPredicate
                rdf:resource="&Prolog;Programmiersprache"/>
              <swrl:argument1 rdf:resource="urn:swrl#x"/>
            </rdf:Description>
          </rdf:first>
        </rdf:Description>
      </rdf:rest>
    </rdf:Description>
  </swrl:body>
  <swrl:head>
    <rdf:Description>
      <rdf:type rdf:resource="&swrl;AtomList"/>
      <rdf:rest rdf:resource="&rdf:nil"/>
      <rdf:first>
        <rdf:Description>
          <rdf:type rdf:resource="&swrl;ClassAtom"/>

```

```

        <swrl:classPredicate
          rdf:resource="&Prolog;Wissensrepräsentationssprache"/>
        <swrl:argument1 rdf:resource="urn:swrl#x"/>
      </rdf:Description>
    </rdf:first>
  </rdf:Description>
</swrl:head>
</rdf:Description>
<rdf:Description>
  <rdf:type rdf:resource="&swrl;Imp"/>
  <swrl:body>
    <rdf:Description>
      <rdf:type rdf:resource="&swrl;AtomList"/>
      <rdf:rest>
        <rdf:Description>
          <rdf:type rdf:resource="&swrl;AtomList"/>
          <rdf:first>
            <rdf:Description>
              <rdf:type rdf:resource="&swrl;IndividualPropertyAtom"/>
              <swrl:propertyPredicate rdf:resource="&Prolog;geschriebenIn"/>
              <swrl:argument2 rdf:resource="&Prolog;prolog"/>
              <swrl:argument1 rdf:resource="urn:swrl#x"/>
            </rdf:Description>
          </rdf:first>
          <rdf:rest>
            <rdf:Description>
              <rdf:type rdf:resource="&swrl;AtomList"/>
              <rdf:rest>
                <rdf:Description>
                  <rdf:type rdf:resource="&swrl;AtomList"/>
                  <rdf:rest rdf:resource="&rdf:nil"/>
                  <rdf:first>
                    <rdf:Description>
                      <rdf:type
                        rdf:resource="&swrl;IndividualPropertyAtom"/>
                      <swrl:propertyPredicate
                        rdf:resource="&Prolog;enthält"/>
                      <swrl:argument2 rdf:resource="&Prolog;regel"/>
                      <swrl:argument1 rdf:resource="urn:swrl#x"/>
                    </rdf:Description>
                  </rdf:first>
                </rdf:Description>
              </rdf:rest>
            </rdf:rest>
          </rdf:rest>
        </rdf:Description>
      </rdf:rest>
    </rdf:Description>
  </rdf:rest>
</rdf:Description>
</rdf:rest>

```

```

    <rdf:first>
      <rdf:Description>
        <rdf:type rdf:resource="&swrl;ClassAtom"/>
        <swrl:classPredicate rdf:resource="&Prolog;Programm"/>
        <swrl:argument1 rdf:resource="urn:swrl#x"/>
      </rdf:Description>
    </rdf:first>
  </rdf:Description>
</swrl:body>
<swrl:head>
  <rdf:Description>
    <rdf:type rdf:resource="&swrl;AtomList"/>
    <rdf:rest rdf:resource="&rdf:nil"/>
    <rdf:first>
      <rdf:Description>
        <rdf:type rdf:resource="&swrl;ClassAtom"/>
        <swrl:classPredicate rdf:resource="&Prolog;PrologProgramm"/>
        <swrl:argument1 rdf:resource="urn:swrl#x"/>
      </rdf:Description>
    </rdf:first>
  </rdf:Description>
</swrl:head>
</rdf:Description>
</rdf:RDF>

```

```

<!-- Generated by the OWL API (version 3.5.1) http://owlapi.sourceforge.net -->

```