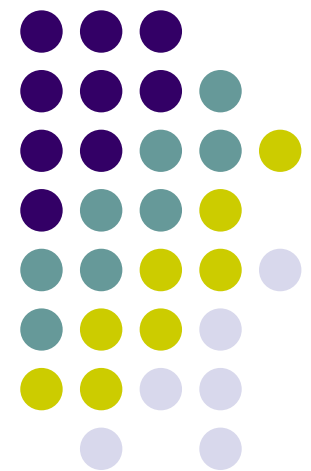


Instrument Search

Engineering Project
Example





Instrument Search

- This is example of using instrument ontology and instance of artist and instrument to perform semantic search.
- Presetting:
 - Tomcat
 - Java
 - Jena
 - Ant
 - Pellet

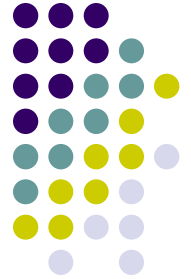
Data



- artist.rdf

```
<rdf:Description rdf:about="#person/47">
  <mo:instrument rdf:resource="http://www.easaier.org/scottish-music-instruments/Voice -
    Male"/>
  <vocab:Person_PersonID
    rdf:datatype="http://www.w3.org/2001/XMLSchema#int">47</vocab:Person_PersonID>
  <foaf:givenName>Willie</foaf:givenName>
  <foaf:address></foaf:address>
  <foaf:familyName>Scott</foaf:familyName>
  <rdfs:label>Willie_Scott</rdfs:label>
  <rdf:type rdf:resource="http://xmlns.com/foaf/0.1#Person"/>
</rdf:Description>
```

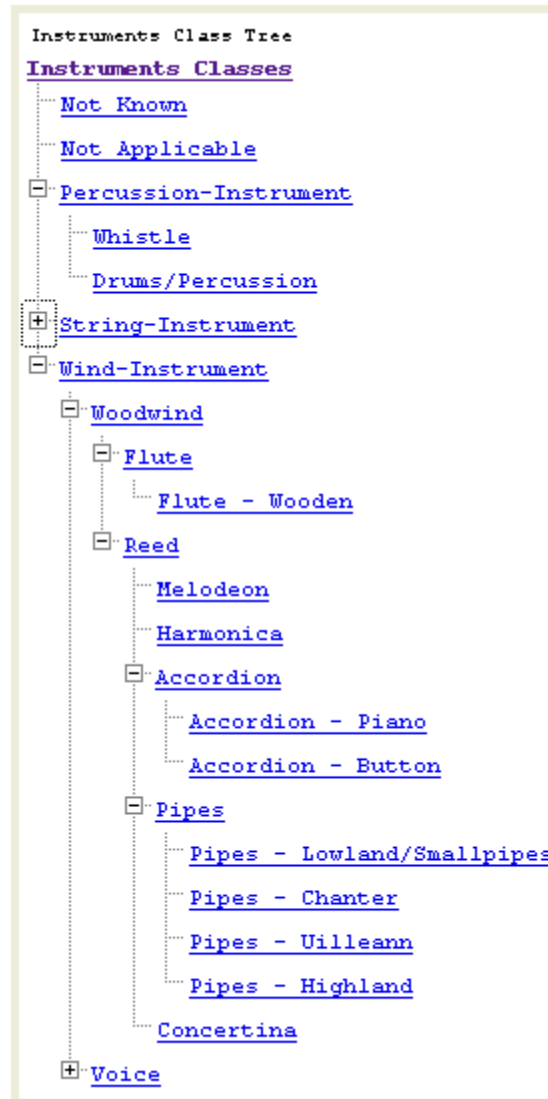
Ontology



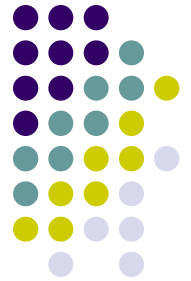
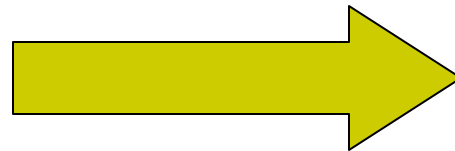
- instruments.rdfs

```
<rdfs:Class rdf:about="http://www.easaier.org/scottish-music-instruments/Percussion-  
Instrument" rdfs:label="Percussion-Instrument">  
  <rdfs:comment></rdfs:comment>  
  <rdfs:subClassOf rdf:resource="http://purl.org/ontology/mo/Instrument"/>  
  <rdfs:isDefinedBy rdf:resource="http://www.easaier.org/scottish-music-instruments/">  
  <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#Class"/>  
</rdfs:Class>
```

Ontology



Semantic Search

Artists

- Tommy Kettles plays [Accordion-Button](#).
 - Sandy Brechin plays [Accordion-Piano](#).
 - George MacPherson plays [Accordion-Piano](#).
 - Donald Allan MacQueen plays [Pipes-Chanter](#).
 - Hugh MacDonald Kennovay plays [Pipes-Chanter](#).
 - Dr B.J. Maclachlan Orme plays [Pipes-Highland](#).
 - Isaac Higgins plays [Pipes-Highland](#).
 - Donald MacPherson plays [Pipes-Highland](#).
 - John MacDonald plays [Pipes-Highland](#).
 - Mr R Fairweather plays [Pipes-Highland](#).
 - Alec Stewart plays [Pipes-Highland](#).
 - Captain J A MacLellan plays [Pipes-Highland](#).
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