Representing Instruments and Musicians with the Music Ontology

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S604 Final Project
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The most prominent Semantic Web ontology versatile enough to handle all of these different kinds of music-related information: the Music Ontology (Raimond, Abdallah, Sandler, and Giasson, 2007)
My project: Represent a dataset of Scottish musical artists and instruments compiled from the HOTBED project according to the format given in the Music Ontology specification.
artists.rdf

List of 93 musical artists who play traditional and modern Scottish musical instruments

Artists associated with instruments, given names, family names, addresses, numeric identifiers, and labels
- `<rdfs:Class rdf:about="http://www.easaier.org/scottish-music-instruments/Accordion - Piano" rdfs:label="Accordion-Piano">`
  `<rdfs:comment/>
  `<rdfs:subClassOf rdf:resource="http://www.easaier.org/scottish-music-instruments/Accordion"/>
  `<rdfs:subClassOf rdf:resource="http://www.easaier.org/scottish-music-instruments/Piano"/>
  `<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>`

DATA

- `instruments.rdfs`
  - Rich hierarchical taxonomy of 49 instrument classes, plus the placeholder classes `NotApplicable` and `NotKnown`
The Music Ontology is extensive

Luckily, only a handful of concepts from it are required for this task

- FOAF
- FRBR
- Timeline
- Event
- Time
- Dublin Core
- Relationship
- Similarity
Object properties
Data properties
Classes
representing hotbed in the music ontology

- Instances
  - Instruments
Instances

Instruments

Musicians

REPRESENTING HOTBED IN THE MUSIC ONTOLOGY
Instances

- Instruments
- Musicians
- Sub-events
The work in this project would be a necessary first step if one wanted to link HOTBED with the web of musical data in DBTune. It would allow access to HOTBED musicians & instruments through searches and SPARQL queries.
But...

- Namespaces would have to be corrected, data would have to be uploaded to the web
- Data would have to be linked with other databases in DBTune
- A possibility for the future


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