Models for Performed Music

Music-specific models

Music Ontology

"The Music Ontology provides a vocabulary for publishing and linking a wide range of music-related data on the Web. Music Ontology data can be published by anyone as part of a web site or an API and linked with existing data, therefore creating a music-related web of data."

Doremus

"Initiated in late 2014, DOREMUS is a research project based on the semantic web technologies, aiming to develop tools and methods to describe, publish, connect and contextualize music catalogues on the web of data. Its primary objective is to provide common knowledge models and shared multilingual controlled vocabularies.

The data modelling Working Group relies on the cataloguing expertise of three major cultural institutions: Radio France, BnF (French national Library), and Philharmonie de Paris.

FRBRoo was used as a starting point, for its flexibility and its fine description of the Work and Event concepts. The model was extended with classes and properties specific to musical data, and a set of shared multilingual vocabularies."

LinkedBrainz (MusicBrainz)

The LinkedBrainz project is intended to help MusicBrainz publish its database as Linked Data. Linked Data is simply a method for publishing structured data on the web using semantic web technologies. Because MusicBrainz does such an awesome job of providing unique identifiers for music artists, albums, and tracks, it is already widely used as a source for music-related URIs in the Linked Data community. However, Linked Data people tend to mint *n ew* URIs based on MBIDs because MusicBrainz does not serve Linked Data directly. We hope to reduce the need for this duplication by providing Linked Data directly from MusicBrainz while having no negative impact on other aspects of MusicBrainz's functionality.

Kanzaki Music Vocabulary

A vocabulary, or music ontology, to describe classical music and performances. Classes (categories) for musical works, events, instruments and performers, as well as related properties are defined. Make sure to distinguish musical works (e.g. Opera) from performance events (Opera_Event), or works (String_Quartette) from performer (StringQuartetEnsemble in this vocab), whose natural language terms are used interchangeblly. The present version experiments more precise model to describe a musical work, its representations (performances, scores, etc) and a musical event to present a representation (a concert). Includes 30 keys as individuals.

OMRAS2 Chord Ontology

"...first draft of a chord ontology based on work from the Centre for Digital Music, Queen Mary, University of London. It has been created as part of the OM RAS2 project and is intended to provide a common, versatile vocabulary for describing chords and chord sequences in RDF. For more information on RDF and the W3C semantic web technologies on which this work is founded, please see the References section.

The ontology is complete enough to be usable and useful now - some tools for manipulating data from this ontology can be found in the motools project on Sourceforge. However, it is only a first draft and discussions have already brought to light several issues which must be addressed in future versions of the ontology. Some information on likely future revisions, and topics for discussion can be found in the future work section.

PBCore

- specialized XML schema for describing and modeling broadcast content)

EBUCore

Tech 3293 (EBUCore) is the flagship of our metadata specifications. Combined with the EBU Class Conceptual Model (CCDM) of simple business objects, it provides the framework for descriptive and technical metadata for use in service orientated architectures and audiovisual ontologies for semantic web and linked data developments.

Audio and metadata experts have defined the Audio Definition Model (ADM), which schema has been published in EBUCore. The model has been adopted by ITU and published as BS.2076-0. More information on the audio model can be found in Tech 3364.

- EBU's specs for their broadcast content
    - XML spec
    - RDF/OWL spec

Ontology for Media Resources

This document defines the Ontology for Media Resources 1.0. The term "Ontology" is used in its broadest possible definition: a core vocabulary. The intent of this vocabulary is to bridge the different descriptions of media resources, and provide a core set of descriptive properties. This document defines a core set of metadata properties for media resources, along with their mappings to elements from a set of existing metadata formats. Besides that, the document presents a Semantic Web compatible implementation of the abstract ontology using RDF/OWL. The document is mostly targeted towards media resources available on the Web, as opposed to media resources that are only accessible in local repositories.

Broader models that include music

FRBRoo (version 2.4)

CIDOC-CRM