Mapping, Interlinking and Exposing MusicBrainz as Linked Data

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Abstract. In this paper we shall document how the MusicBrainz dataset, under the Next Generation Schema and making use of extensible Advanced Relationships, can be mapped to RDF using R2RML. We shall further document how interlinkage is achieved to make this a bona fide contribution to Linked Open Data. We shall document the mappings and their execution and exposure of resulting data, and the use of further tools to increase the interlinkage achieved. Since MusicBrainz is a constantly evolving model, this will serve as documentation on how to include further Advanced Relationships, including those yet to be defined. This work also serves as one of the largest case studies in the use of R2RML that has existed to date.

1 Introduction

A vision of MusicBrainz as a rich Semantic Web resource is a long-standing one [1]. In reality, however, MusicBrainz has had a chequered history with Semantic Technologies. In its early days the tool support for semantics were not well-developed and the project backed off to a large degree. In the intervening years, the relational database dumps were turned into RDF using the D2RQ tool as part of the DBtune project[4] at Queen Mary University of London, and the Zitgist viewer[5]. More recently, MusicBrainz

2 Conclusion

References

1. Swartz, A.: Musicbrainz: A semantic web service. IEEE Intelligent Systems 17(1), 76–77 (2002)

[4] http://dbtune.org/
[5] http://www.w3.org/2001/sw/wiki/Zitgist