



Metadata vocabulary for East Asian music resource discovery

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BACKGROUND

More cultural heritage resources digitized and accessible on the web

Ethnomusicologists rely more on the use of the Internet for information seeking (Liew, et al., Itoh)

Various forms and versions of manifestations in music still demands tools to comprehensively meet the needs of professionals to amateurs

Semantic web technologies interlink multimedia resources dispersed on the Internet (Raimond)

OBJECTIVES

- To clarify the relationships between works of traditional music
- To examine proper vocabularies for music resource discovery in the context of retrieving cultural heritage resources across heterogeneous areas

PROJECTS USING SEMANTIC WEB TECHNOLOGIES

(NOT COMPREHENSIVE)



Europeana



National Diet Library (Japan)



Bibliothèque nationale de France



Indiana Univ. V/FRBR



British Museum



Sheet Music Consortium

REQUIREMENT TO LINK MULTIPLE AREAS

- Employ the existing ontology schemas for interoperability
- Consider applicability of vocabularies to heterogeneous genres of cultural heritage resources

BIBLIOGRAPHY

Baca, Murtha; Clarke, Sherman (2007). FRBR and works of art, architecture, and material culture." Understanding FRBR: what it is and how it will affect our retrieval tools (2007): 227-242. (<https://vrametadatatworkshop.files.wordpress.com/2010/04/bacaandclarkeonfrbrforartobjects.pdf>) (accessed 2016-06-22).

Coyel, Karen (2016). FRBR review. (<http://kcoyle.net/frbr/>) (accessed 2016-06-22).

Itoh, Mari (2016). Preliminary study of music information services in East Asian countries examined from ethnomusicologists' information seeking behaviors. Bulletin of Graduate School of Creativity and Culture. Vol. 3, p. 1-17.

Kelly, Elizabeth Joan (2015). Linked data and music: current projects and opportunities. The Indexer. Vol. 33, no. 1, p. 2-7.

Liew, Chern Li; Ng, Siong Ngor (2006). Beyond the Notes: a Qualitative study of the information-seeking behavior of ethnomusicologists. The Journal of Academic Librarianship. vol. 32, no. 1, p. 60-68.

Raimond, Yves; Sutton, Christopher; Sandler, Mark (2009). Interlinking music-related data on the web. IEEE Multimedia. April-June, p. 52-63.

Rafferty, Pauline (2015). FRBR, Information, and Intertextuality. Library Trends. Vol. 63, no. 3, p. 487-511.

METHODS

1. Explored the vocabularies used in existing databases
2. Examined the relationships of works in traditional music

Samples extracted from:

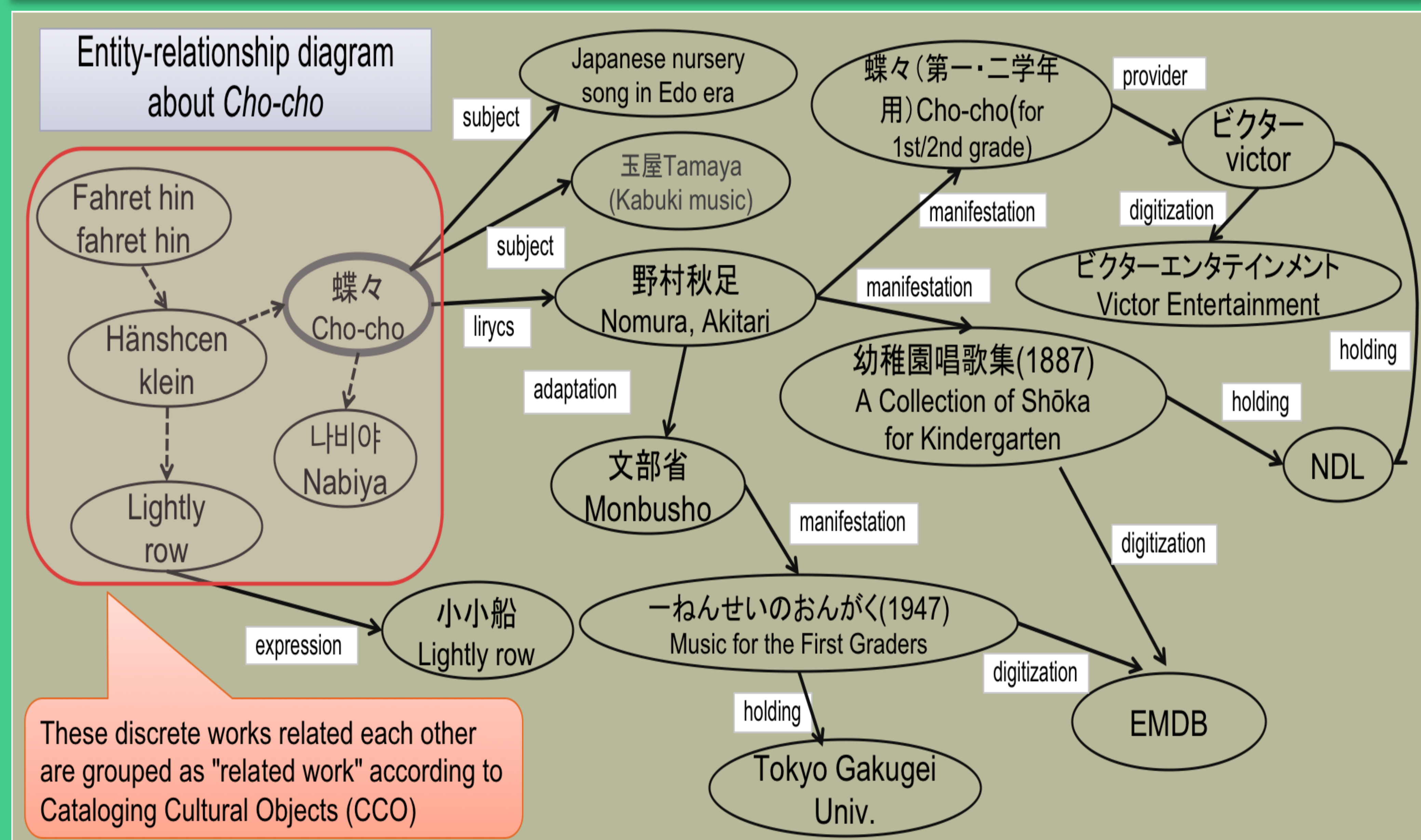
- ❖ National Diet Library Digital collections (Japan), which include SP recordings and music scores published before 1945
- ❖ EMDB, Ewha Music database (Korea), which is the collection of East Asian modern music
- ❖ Gugak Archives (Korea), which maintains a variety of assets including the court music, dance and folk music as well as the contemporary traditional music

3. Applied the relationships to the properties of existing ontologies

FINDINGS

- The arguments about 'work' (Coyle, Rafferty) also arose in traditional music
Example: "*Cho-cho*" (Children's song) with Japanese lyrics, which is thought to be based on the tune of "Lightly row" (Mother Goose rhyme) that was brought from German folk song "Hänshcen klein"

They all are discrete works with different lyrics in different languages according to the FRBR model, although strongly connected with each other in historical aspect and more responsibilities are involved



FURTHER WORK

- It will be resolved by treating the concept of work flexibly, not rigidly following a particular conceptual model such as FRBR
- Explore the relationships found in this study with the properties of existing ontologies
- Refine the relationships between works in traditional music

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