Open Datasets for Evaluating the Interpretation of Bibliographic Records

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1 - Background

FRBRization is a metadata migration process which aims at extracting FRBR entities from MARC records.

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- Crucial for the adoption of Semantic Web technologies in libraries
- Many tools proposed to perform the migration during the last decades
- No benchmark to compare and evaluate these tools

We provide two open datasets dedicated to the evaluation of FRBRization tools considering different specificities of MARC catalog like cataloguing practices, inconsistencies and bibliographic patterns.

2 – Specificities of MARC records

Cataloguing practices and inconsistencies:

- Missing information (missing of publication info or authoritative data leading to misunderstandings).
- Linkage errors (All errors in title or responsibility identifiers leading to dead links between records).
- Cataloguing practices and norms (Specific form of data in the record, e.g., ISBD punctuation)

Bibliographic patterns:

- Core pattern (basic bibliographic cases)
- Augmentation pattern (any addition of a Work)
- Derivation pattern (Intellectual modification)
- Aggregation pattern (whole-part relationships)
- Complementary pattern (other related works)

3 – Open Datasets

Including both MARC files and FRBR gold standard

- T42 allows the evaluation of a migration tool in terms of bibliographic patterns and cataloging issues.
- BIB-RCAT offers a larger collection for evaluating the interpretation of MARC records in a real-world context.

http://bib-r.github.io/

	Features	T42	BIB-RCAT
	Number of unit tests	42	-
	Number of collections	126	3
	Number of languages	3	1
	Number of media types	8	4
	Average MARC records	10 / test	560
	Average fields / records	18	17
	Average FRBR entities	73 / test	1922
	Average FRBR properties	241 / test	9517











