RDA linked data and the new RDA Toolkit

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3R Project

RDA Toolkit Restructure and Redesign Project

New responsive design and structure

Impact of the IFLA Library Reference Model (LRM)

RDA strategy for international, cultural heritage, and linked data communities
Beta Toolkit

Beta version of the new RDA Toolkit released June 13, 2018

Transformation of guidance and instructions is ongoing; expected completion December 2018

Development of entities, elements, and terminologies almost complete
LRM entities

New entities for Agent, Collective Agent, Nomen, Place, Timespan

Many attributes become relationships
   Example: date of birth [of Person]
          > Related timespan of person

More inverse relationships
   Date of birth of [related person of timespan]
## The numbers

<table>
<thead>
<tr>
<th>13 entities</th>
<th>1700+ elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work</td>
<td>388</td>
</tr>
<tr>
<td>Expression</td>
<td>291</td>
</tr>
<tr>
<td>Manifestation</td>
<td>282</td>
</tr>
<tr>
<td>Item</td>
<td>70</td>
</tr>
<tr>
<td>Place</td>
<td>45</td>
</tr>
<tr>
<td>Timespan</td>
<td>54</td>
</tr>
<tr>
<td>RDA Entity</td>
<td>27</td>
</tr>
</tbody>
</table>
RDA Vocabularies

RDF representations of entities (classes), elements (properties), and terms (concepts)

Includes translations (12+ languages)

Published via GitHub and RDA Registry
RDA recording methods

RDA provides instructions for four methods of recording data values:

**Unstructured description**
- Transcription; free-form notes;
- uncontrolled human-readable appellation (name, title)

**Structured description**
- Multiple values with string encoding scheme;
- value with syntax encoding scheme;
- controlled human-readable appellation (access point)

**Identifier**
- Machine-readable appellation (local)

**IRI**
- Machine-readable “appellation” (global)

An appellation references an instance of an entity
Recording methods for related data

RDA Entity 1

- "note on related entity 2"
- "access point for related entity 2"
- "identifier for related entity 2"

is related to

RDA Entity 2

Keyword index
Authority file
Standard identifier system
Semantic Web

RDA Linked Data and the new RDA Toolkit
Semantic recording

Unstructured data recorded in canonical properties
   No range specified (string)

Structured data recorded in datatype properties
   Range specified (literal + encoding scheme)
Semantic recording

Identifier data recorded in datatype properties
  Range specified (literal)

IRI data recorded in object properties
  Specified range (thing)

Non-LRM data recorded in unconstrained properties
  No domain, no range
RDA Releases

Semantic versioning
Break.Bend.Minor (n.n.n)

GitHub pre-releases used to test
production infrastructure for new Toolkit

Warning: unstable!
RDA Releases

2.7.3: Original Toolkit (April 2017)

Pre-releases: 3.0.1 – 3.0.6

3 !!!: Breaks semantics of 2.7.3
    Re-definition of Person entity (LRM)

3.1.0: real soon now (July 2018?)
Thank you!

Questions? Discussion ...