From Big Bang to beta
An overview of the 3R Project

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Impact of LRM

IFLA Library Reference Model (2017)

Agent, Collective Agent, Nomen, Place, Timespan entities

Shift from attribute to relationship elements

Aggregate manifestations & serial works
Impact of internationalization

Different cataloguing practices
Different authority files and vocabularies
No “one way” of describing an entity
Many ways, many choices
New elements for access points
Impact of other communities

Special library materials
  New elements and vocabularies

Archive and museum communities
  Collections, curation, provenance

Linked data communities
  IRI recording method, vocabulary notation
The Big Bang

One-time creation of all element files

Automated generation using RDA Registry data and template for standard sections

Specification refined over several test runs
The Wee Bang

One-time overlay of standard instructions for relationship elements (ex-designators)

Template uses boiler-plate guidance and instructions

Refined with “re-runs of the wee bang”
## The numbers

<table>
<thead>
<tr>
<th>13 entities</th>
<th>1700+ elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work</td>
<td>Work</td>
</tr>
<tr>
<td>388</td>
<td>Agent</td>
</tr>
<tr>
<td>Expression</td>
<td>Person</td>
</tr>
<tr>
<td>291</td>
<td>175</td>
</tr>
<tr>
<td>Manifestation</td>
<td>Collective Agent</td>
</tr>
<tr>
<td>282</td>
<td>34</td>
</tr>
<tr>
<td>Item</td>
<td>Corporate Body</td>
</tr>
<tr>
<td>70</td>
<td>84</td>
</tr>
<tr>
<td>Place</td>
<td>Family</td>
</tr>
<tr>
<td>45</td>
<td>46</td>
</tr>
<tr>
<td>Timespan</td>
<td>Nomen</td>
</tr>
<tr>
<td>54</td>
<td>169</td>
</tr>
<tr>
<td>RDA Entity</td>
<td>27</td>
</tr>
</tbody>
</table>
Focus on elements

Each element has own “page”

Elements grouped by entity “chapter”

Element reference section

Element recording methods

Navigation to “nearest neighbour” elements
Navigation

Search

Exact match, keywords

Entity page elements list

Alphabetical browse; active filter

Relationship matrix

Hierarchical browse; excludes attributes

Glossary

Alphabetical browse
Optional instructions

Many instructions now clearly indicated as options

Nothing is (or was) mandatory
   Except “nomen string”

Choice of recording method
   Depends on data application

“Core” less useful at global level
Application profiles

What elements must be recorded?
What elements should be recorded?
What elements may be repeated?
What vocabularies are used?
What recording methods are used?

Multiple ways: bookmarks, policy statements, workflows, external documents
Data provenance

Who made the metadata statement?
When was it stated?
Where did the values come from?
What standards were applied?

The trick: treat each statement or set as a work
Then apply RDA
Instruction display

No options nested within options
Exceptions and alternatives are just other options

Structured display

For
condition
condition
do action
Shredding

= Reformatting current instructions
New element structure
Explicit recording methods
Flatten nested options, exceptions, alternatives
Layout of “for ... do” and “if ... then” conditions
Separation of transcription, recording, and access point construction
Elements with new labels

Element label changed for consistency
Old label retained as alternative label = “see” reference in Glossary

Example: “publisher’s name” see “name of publisher”
Soft deprecation

Element is same as a recording method of another element
   Element retained, but other element and method is a preferred option

Example: “Details of ...” prefer root element with unstructured description

Non-preferred elements will be reviewed down the line
What’s left to do?

Editing for clarity and consistency  
(more shredding)

Distinguishing instructions for name/title and access point elements

New instructions for aggregates and serials

Tweaks, refinements, feedback

We want to hear from you
The product

A package of data elements, guidelines, and instructions for creating library and cultural heritage resource metadata that are well-formed according to international models for user-focused linked data applications.

A package that meets the resource description and access needs of the 21\textsuperscript{st} century