Acknowledgements

+ These slides include screenshots from an alpha version of the new RDA Toolkit

+ Some slides include content from presentations:
  + James Hennelly and Judith Kuhagen, *Update on 3R Project*, June 2017
  + Kathy Glennan, *Rethinking, Restructuring, & Redesigning RDA*, December 2017
  + Kathy Glennan for Kate James, *Representative Expressions*, February 2018
  + Linda Barnhart for Kate James, *Elements, Attributes, and Relationships, Oh My!*, February 2018

+ Thanks to ALA Publishing and listed presenters for permission to reuse and adapt their materials
What is the 3R Project?

- **RDA Toolkit Restructure and Redesign**
- Restructure of underlying data to reflect current data management best practices
- Redesign Toolkit interface to address longstanding problems
- Update RDA to reflect IFLA Library Reference Model
Why?

- Need for redesign of Toolkit to meet accessibility standards
- Current structure not sustainable for increasing number of policy statements and translations
- Take advantage of new technologies
- RDA content is based on conceptual models that have changed
Who?

- RSC+ (RDA Steering Committee and RDA Working Group Chairs)

- 3R Core Team (RSC Chair, Chair Elect, Secretary, Examples Editor, Director of ALA Digital Reference, and Wider Community Engagement Officer)

- Dakota Systems for content management

- GVPi for Toolkit design

- Design for Content consultants for user-experience design
When?

- Beta version of new Toolkit to be released on June 13th
- Probably 3 more updates (likely Sept., Dec., and Feb.) to complete project
- Current Toolkit will remain available during interim and will stay up for a year after new Toolkit is fully functional
RDA Registry
http://www.rdaregistry.info/
RDA Registry Nutshell

+ **Freely** available website launched in 2014 and maintained by RSC and Metadata Management Associates (MMA)

+ Contains RDA element sets and value vocabularies in Resource Description Framework (RDF)

+ **Main uses:**
  + Facilitates RDA-created data for Semantic Web
  + Developers can download and synch files
  + Tool to enhance catalogers understanding of RDA
RDA Registry Terminology

- **Domain**: entity that the element belongs to
- **Range**: entity that a relationship element points to
- **Properties**: RDA elements including relationship designators
- **RDA Reference value vocabularies**: the set of vocabularies used for RDA elements
RDA Registry Organization

- Properties are organized by entity
- Listed in numerical order by compact URI, but there is a search box
- Vocabulary terms are listed by vocabulary name then by compact URI
- Definitions are slightly different than in Toolkit, but the meaning is the same
RDA Registry: Work Properties

- Verbalized labels facilitate understanding
- Attributes, relationships, and relationship designators all listed together

<table>
<thead>
<tr>
<th>rdaw:P10078</th>
<th>&quot;has expression of work&quot;</th>
<th>&quot;Relates a work to a realization of a work in the form of alpha-numeric, musical or choreographic notation, sound, image, object, movement, etc., or any combination of such forms.&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>rdaw:P10079</td>
<td>&quot;has numeric designation of musical work&quot;</td>
<td>&quot;Relates a work to a serial number, opus number, or thematic index number assigned to a musical work by a composer, publisher, or a musicologist.&quot;</td>
</tr>
<tr>
<td>rdaw:P10080</td>
<td>&quot;is subseries&quot;</td>
<td>&quot;Relates a work to a serial or multipart work that consistently appears in a larger work; a title of a larger work appears on all issues or parts of a subseries&quot;</td>
</tr>
</tbody>
</table>
Interpreting RDA Registry Labels

You can make a simple sentence with the labels, e.g., Kate James has employer Library of Congress.
New RDA Toolkit
RDA Toolkit Work in Progress!

- Screenshots taken from RDA Toolkit alpha website
- Design and content may change
- Content being added weekly and some content is placeholder text
- Screenshots may look a bit blurry
Welcome back, Neil

Recently Viewed Instructions

Entity: Agent
04/12/2018 12:03:39 EST

Entity: Manifestation
04/12/2018 12:04:01 EST

Element: extent of manifestation
04/12/2018 12:04:47 EST

Entity: Expression
04/12/2018 08:47:31 EST

Element: language of expression

Drop-down menus replace table of contents and tabs

Remembers instructions viewed in last session
Toolkit Navigation: Current and New

**Current**
- Instructions organized by section then chapter
- Table of contents expands
- Link to another instruction or policy statement replaces current instruction
- Related content (e.g., MARC mappings and RDA Registry) scattered

**New**
- Instructions organized by entity
- Elements listed by entity; possibly entity view diagram added later
- Preview pane allows viewing current instruction and related instructions or PS
- Element Reference section
Current Toolkit: RDA Table of Contents

Pop Quiz: Which elements are for work and which are for expression?
New Toolkit: Dropdown Meu

Imagine a preview pane with relevant LC-PCC PS here.
New Toolkit: Entity “Chapter”

- Contains information about the entity
- Contains a list of its elements
New Toolkit: Related Elements

Scroll down element instructions to Related elements section

Related elements
For broader elements, see:
- related agent of work

For narrower elements, see:
- architect
- artist
- author
- cartographer of work
- choreographer of work
- compiler
- composer of work

Relationship designators are elements because they are a type of creator
language of expression

Definition and Scope
A language used for the content of an expression.

Element Reference

IRI
http://rdaregistry.info/Elements/e/P20006

Domain
Expression
Alternate labels

MARC21
110 $1
111 $1
130 $1
240 $1
243 $1
377 $a

Expands and collapses by clicking on eye
IRI from RDA Registry represents element
Alternate label from RDA Registry
MARC tag mapping provided at each element
### Glossary

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>back to back</strong></td>
<td>A layout in which the same image is represented in more than one language on each side of a sheet. This term applies to cartographic images.</td>
</tr>
<tr>
<td><strong>bar by bar</strong></td>
<td>This term applies to tactile music resources. A layout consisting of music displayed in indented paragraphs with all of the parts for each measure written consecutively.</td>
</tr>
<tr>
<td><strong>bar over bar</strong></td>
<td>A layout consisting of measures displayed in units called parallels and that the beginning of each part's measure is vertically aligned with the beginning of the same measure for the other part or parts. This term applies to tactile music resources.</td>
</tr>
<tr>
<td><strong>base material</strong></td>
<td>An underlying physical material of a manifestation.</td>
</tr>
</tbody>
</table>
New RDA Content
New Entities

- RDA Entity
- Agent
- Collective Agent
- Timespan
- Nomen
LRM and RDA Entities

[Diagram showing relationships between entities and classes, including Res, W, E, M, I, Agent, Collective Agent, RDA Entity, Nomen, Place, Timespan, P*, F, C.]

RDA refines LRM relationships as element sub-types (RDF sub-properties)
RDA Entity

- Not defined in LRM, but can be considered refinement of LRM entity “Res”
- Will not be as broad as “Res”
- A superclass for all RDA entities (e.g., Work, Place, Agent)
Agent and Collective Agent

- **Agent**
  - person and collective agent
  - in RDA instructions since 2017 as shorthand way of saying “person, family, or corporate body”
  - must be one or more real human beings

- **Collective Agent**
  - corporate body or family
Timespan

+ LRM definition: “a temporal extent having beginning, end, and duration”

+ a timespan can be expressed more generally or specifically
  + 20 March 2018–21 March 2018
  + 17th century
  + 1922

+ latent entity in RDA as an attribute for other entities
  + date of work
  + period of activity of corporate body
Nomen

- Not the same concept as the Latin word
- LRM definition: An association between an entity and a designation that refers to it
- Agents are “things” that we often use “nomen strings” to represent
Shortcutting Through Nomen

RDA Entity has appellation Nomen

M1 has title proper N1 has nomen string “My title”

M1 has identifier ... N2 has nomen string “0123-4567”

has title proper

has identifier ...

has identifier ...
Changes to Elements

- New elements
  - Representative expression
  - Relationship designators are element sub-types
- Attributes and relationships together with entity
- Verbalized labels from Registry available
- Three elements moving from work to expression: medium of performance, key, and intended audience
Representative Expression Nutshell

+ A work attribute
  + Work has representative expression attribute
    “expression attribute value”
  + Hamlet has representative expression attribute English

+ “a pragmatic way to ‘park’ information under the work, and in this way avoid the need to record the information in association with any specific expression”
Representative Expression in RDA

- RDA will contain a general guidance chapter on representative expression
- A relationship element will be defined
- Specific representative expression elements will be defined for use as work elements
- Implementation is an agency decision
- Expression elements will remain available for use unless affected by another 3R change
  - There may be changes to labels and definitions
Representative Expression Examples

**Relationship:** William Shakespeare’s Hamlet *has* 
*has representative expression* F₁

**Relationship:** F₁ *is representative expression of* 
Hamlet

**Specific Attribute:** Hamlet *has language of* 
*representative expression* English

**Specific Attribute:** C.P.E Bach’s Sonata H. 579 *has key of representative expression* C minor
Attributes and Relationships

**Current**

+ Attributes and relationships are elements
+ Attributes and relationships in separate chapters
  + Identifier for Item (2.20)
  + Item relationships in chapters 17, 22, and 28

**New**

+ Attributes and relationships are elements
+ Attributes and relationships together
+ Item: identifier for item
+ Item: manifestation exemplified
Attributes as Relationships

- When one entity is recorded as an attribute of another, there is a relationship
  - Associated institution is a current example

- New entities blur line between attributes and relationships even more
  - Amy Tan has date of birth 1952
  - Amy Tan has related timespan of person 1952
Relationship Designators as Elements

**Current**
- Creator (Chapter 19)
  - relationship designators (l.2.1)
  - instructions for relationship designators in Chapter 18
- Instructions for use in Chapters 18, 24, and 29
- Part of the relationship element

**New**
- Work: creator
  - Related elements: artist, author, cartographer, composer, etc.
- General guidance and instructions at each element
- It is the relationship element
New Toolkit: Related Elements, revisited

- Intellectual collocation of designators and relationship elements
- Relationship designators have semantic value for linked data and end users
RDA Registry, revisited

Many of the good qualities of the RDA Registry are now part of the Toolkit, but more user-friendly

Using RDA Registry label or familiar Toolkit label is a matter of agency needs and preference—they are both RDA
Recording Methods

- Four recording methods:
  - Unstructured description
  - Structured description
  - Identifier
  - IRI

- Allows for many RDA implementation scenarios

- Agencies can use multiple recording methods if desired

- Not all recording methods available for all elements
Recording Methods Nutshell
Recording Methods Example

- Unstructured Description
  - 평창군

- Structured Description
  - P'yŏngch'ang-gun (Korea)

- Identifier
  - LCCN n 78070187

- IRI
  - http://id.loc.gov/authorities/names/n78070187

- Not all methods available for all elements
Example Changes

+ 4 different types of examples
  + Basic Set
    + Resembles current examples
  + Recording Methods
    + Shows the same data recorded in different ways
  + View as Relationship
    + diagram
  + View in Context
    + A set of data elements for an entity
New TK: Basic Set Examples

+ Will show a variety of recording methods if applicable
+ Will appear in relevant portion of instructions
+ These are examples for the element “script”
Example resembles a visualization of an RDF triple

All parts of this example can be represented with IRIs

Notice the verbalized label and IRI from RDA Registry
These examples are repeated in several elements in the new Toolkit.

The blue text shows from which element you are viewing the example. Here you are viewing the example from “language of expression”.
Want to know more about 3R?

- RDA Toolkit 3R Project website: [http://rdatoolkit.org/3Rproject](http://rdatoolkit.org/3Rproject)
- 3R FAQ page on RSC website: [http://rda-rsc.org/node/551](http://rda-rsc.org/node/551)
- Presentations on RSC website: [http://www.rda-rsc.org/rscpresentations](http://www.rda-rsc.org/rscpresentations)