Rethinking, Restructuring, & Redesigning RDA

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3R Project: RDA Toolkit Restructure and Redesign

- Multi-year project
 - Some wording changes started in 2016
 - ▶ Toolkit content frozen starting in April 2017
- ▶ Will result in a new Toolkit
 - ▶ Release expected June 13, 2018
 - ▶ Not a 2nd edition of RDA instead, a new *Expression*
 - ► For the most part (except for the addition of new instructions), the application of RDA instructions should not change
 - ▶ But the reasons for recording a piece of information may change, including placement at a different WEMI level

3R Project: RDA Toolkit Restructure and Redesign

- Goals include
 - ► Improve the Toolkit interface and address long-standing problems
 - Restructure the underlying data
 - Provide efficient and reliable work processes and tools for RDA editors, translators, and creators of derivative products
 - ► Implement IFLA Library Reference Model (LRM) entities
 - ► Generalize the instructions where possible
 - Develop a new approach to relationship designators
 - Offer more flexibility in choosing how to record a piece of information

Who are the players?

- ► RDA Steering Committee (10 members)
- RSC Working Group chairs (up to 10 members)
- Director, ALA Digital Reference
 - ▶ 3R User Group
 - Digital publishing user experience firm
- Other volunteers
 - RSC Working Group members
 - ► Members of regional communities (e.g., CC:DA Task Force)

Benefits beyond the Toolkit

- Content of the different "flavors" of RDA will be the same
 - Open Metadata Registry
 - ► RDA Vocabularies
 - ► RDA Registry
 - RIMMF (RDA in Many Metadata Formats)
 - ► RDA Toolkit
- Positioning RDA for use in various implementation scenarios
 - ► Flat file (card catalogs)
 - Linked authorized access points (OCLC Connexion)
 - Relational or object database (fully linked at local level)
 - ► Linked data (fully linked at global level)

Today's topics

- ► New & improved RDA Toolkit interface
- ▶ New RDA Toolkit content & organization
 - ► General guidance chapters, Recording methods, etc.
 - ► Reorganization of chapters/instructions
- ► Implementing IFLA-LRM in RDA
 - New & changed entities
 - Attributes vs. relationships
 - Aggregates
 - ► Including static vs. diachronic works

New & Improved RDA Toolkit Interface

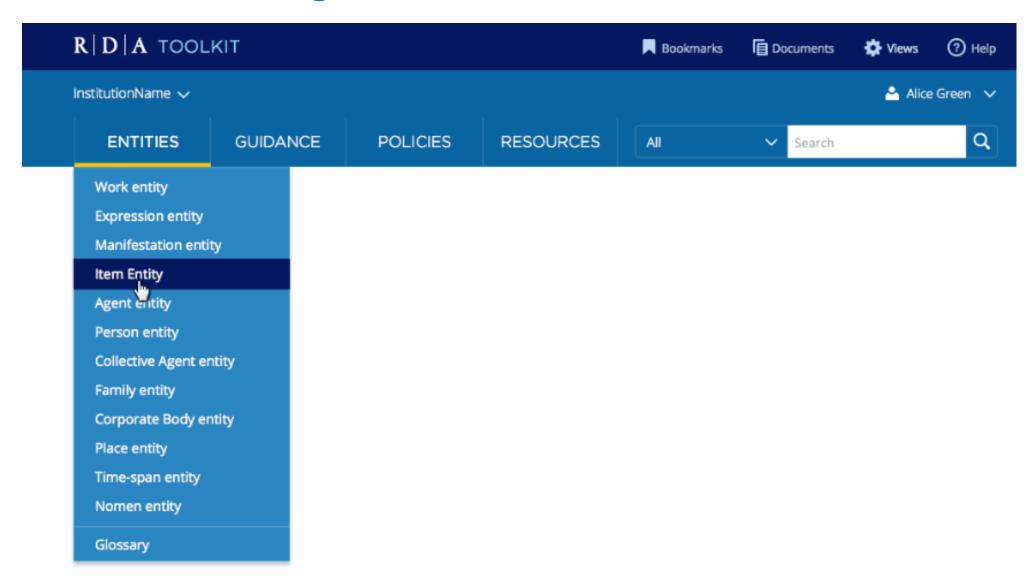
Changes to the RDA Toolkit: Wish list

- ► Ability to use the Toolkit on a tablet
- Less white space
 - Get rid of all that indentation!
- See instructions and policy statements in the same window
- More information via mouse-overs instead of by following links
- Eliminate the double login
- More customization/personalization
- Specific "views" of the instructions (Law, Maps, Music, etc.)
 - ► Happening later, based on advice from experts

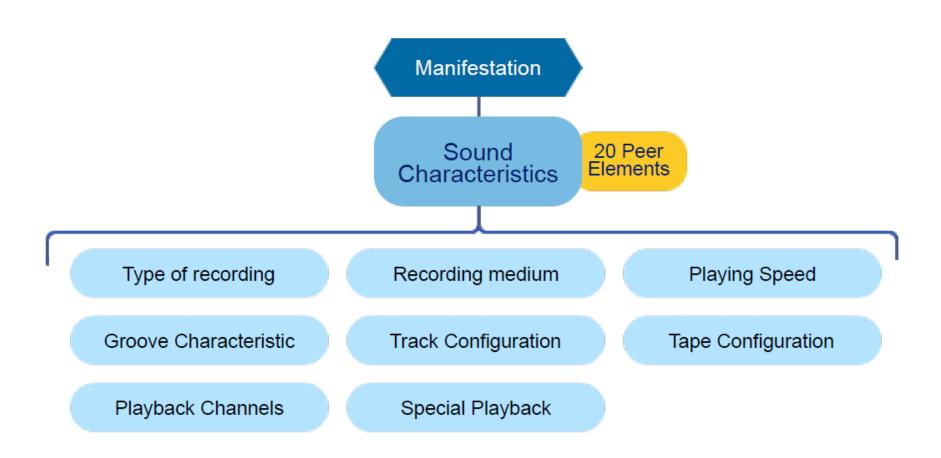
Interface improvements

- More like a web resource, less like an ebook
- Use of drop down menus
 - ▶ Will remove the clickable table of contents
- More fluid navigation
- Inclusion of release notes
 - ► And summary of revision history
- Better control and ownership of contributed documents
 - ► Replaces the "Workflows" entry in the current "Tools" tab

SAMPLE: Navigation screenshot

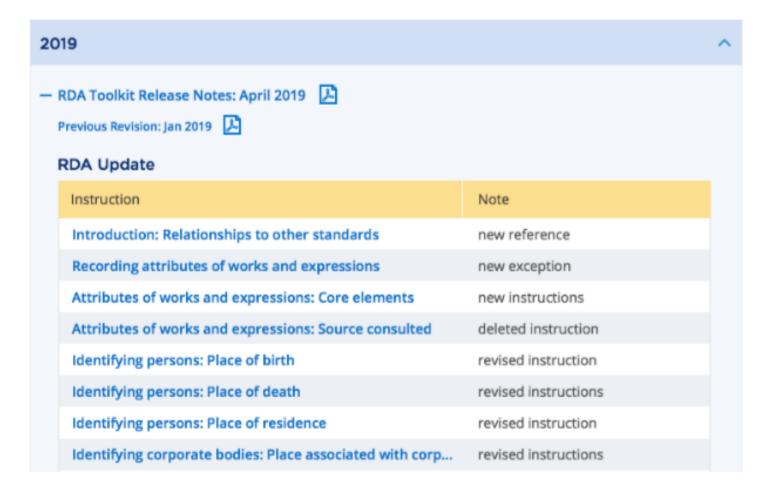


SAMPLE: Visual browser screenshot



SAMPLE: Revision history screenshot

Revision History



Compare PDFs

There are many online tools and desktop applications for comparing different versions of PDF documents. Here are some of the more popular:

Adobe Acrobat Doc Compare

DiffNow

DiffPDF

Draftable Online Compare

Workshare

SAMPLE: Entity chapter

Media Type

Definition

media type: A categorization reflecting the general type of intermediation device required to view, play, run, etc., the content of a manifestation.

Element Reference

Recording

Record a media type if considered important to identify and select.

Options

If the manifestation being described consists of more than one **media type**, record:

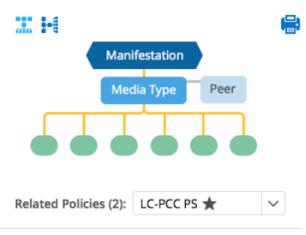
a) The *media type* that applies to the primary part of the manifestation (if there is a primary part)

OR

b) The *media types* that apply to the most substantial parts of the manifestation (including the primary part, if there is one.)

OR

c) All of the media types that apply to the manifestation.



Recording

50 words: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean ultrices, turpis aliquet pharetra accumsan, dolor orci vulputate ex, et aliquam orci dolor vitae nibh. Aliquam molestie molestie placerat. Nullam aliquam sed est ac posuere. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aenean sit amet vehicula.

Searching, etc.

- Most of old functionality will be available
 - Boolean searching, selecting resource to search, etc.
 - ▶ But not some of the little-used metadata on the advanced search screen (limit by Content type, Media type, etc.)
 - Setting bookmarks and adding notes
 - Saved searches
- Search by old RDA instruction numbers (at the highest levels)
 - ► As long as they map to a single new location
- Will not offer mapping from AACR2 to new RDA Toolkit instructions

Rollout plans

- New Toolkit June 2018
 - English language base text
 - ► At least one translation
 - ► At least some supporting policy statements
- Subsequent release Aug. or Sept. 2018
 - More translations
 - More policy statements/best practices updates
- > Old Toolkit (still frozen) available until at least fall 2019
- ► Implementation date? Still to be determined...

Print products?

- Print RDA still planned
 - ▶ Will not have all of the functionality as the online version
 - Decisions will have to be made about organization, order, types of examples, etc.
- Supplementary guides planned to be updated
 - ► Maxwell's handbook for RDA, resource description & access : explaining and illustrating RDA: resource description and access using MARC21 / Robert L. Maxwell
 - ► RDA essentials / Thomas Brenndorfer
 - And others

New RDA Toolkit Content & Organization

New organization

- "Shredding" existing chapters
 - Regroup/reorganize instructions, generalizing them where possible
 - ► Introduce more standardized wording
 - Remove instruction numbers?
- Entity chapters
 - Each entity treated equally
 - Common structure: definition, recording instructions and examples, and navigation to related elements and entities
- General guidance chapters
 - Some new, some repurposed

Appendices disappear!

- Content retained, but will be relocated
 - > Some to general guidance chapters
 - Some to the Resources drop down
 - ▶ If they only apply to a single language of RDA, like English
 - Relationship designators
 - Glossary
 - Separate relationship hierarchies section
 - ▶ Relationship elements & designators given under their domain & range entities
 - Visual browser
 - Standalone elements

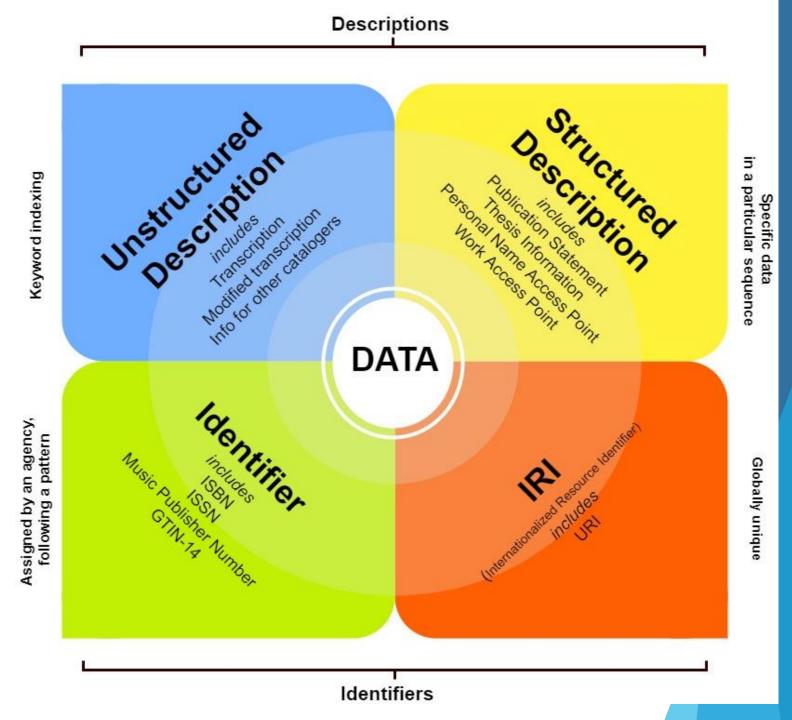
General Guidance chapters - May include...

- Introduction to RDA
- User tasks
- Content vs. carrier
- Extent
- Pre-cataloguing decisions
 - ► Type of description
- Application profiles
- Provenance
- Sources of information

- RDA terminology
- Relationships
- Recording methods
 - Transcription and recording
- Use of Nomen entity
- Non-human personages
- Aggregates
- Representative expressions
- etc.!

Recording methods (aka 4-fold path)

- Entity chapters
 will present up to
 four methods for
 capturing data
 - Affects instructions & examples
 - Can use more than one



Recording methods - Examples

- Unstructured description [transcribed from manifestation]:
 Parma, Ohio
- Structured description [AAP in LC/NACO Authority File]:
 Parma (Ohio)
- Identifier [from Getty Thesaurus of Geographic Names]: 2081317
- ► IRI [from DBPedia]:

 http://dbpedia.org/page/Parma,_Ohio

Recording methods - Examples

245 14 The Sonderberg case: a novel / Elie Wiesel; translated from the French by Catherine Temerson.

700 1_ Temerson, Catherine, translator.

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028 00 429 744-2 $b Deutsche Grammophon
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028 00 429 745-2 \$b Deutsche Grammophon

028 00 429 746-2 \$b Deutsche Grammophon

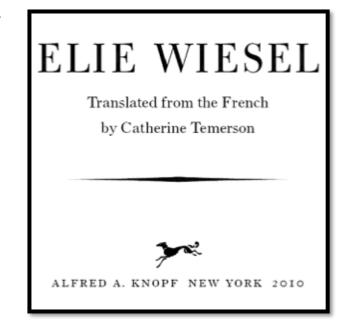
Deutsche Grammophon 429 744-2 (429 745-2—429 746-2)

Recording methods - Linked data example

http://id.loc.gov/ authorities/names/ n2009058985 rdae:P20037 [has translator]

http://id.loc.gov/ authorities/names/ n88207616

[Wiesel, Elie, 1928-2016. Cas Sonderberg. English]



[Temerson, Catherine]

Implementing IFLA-LRM in RDA

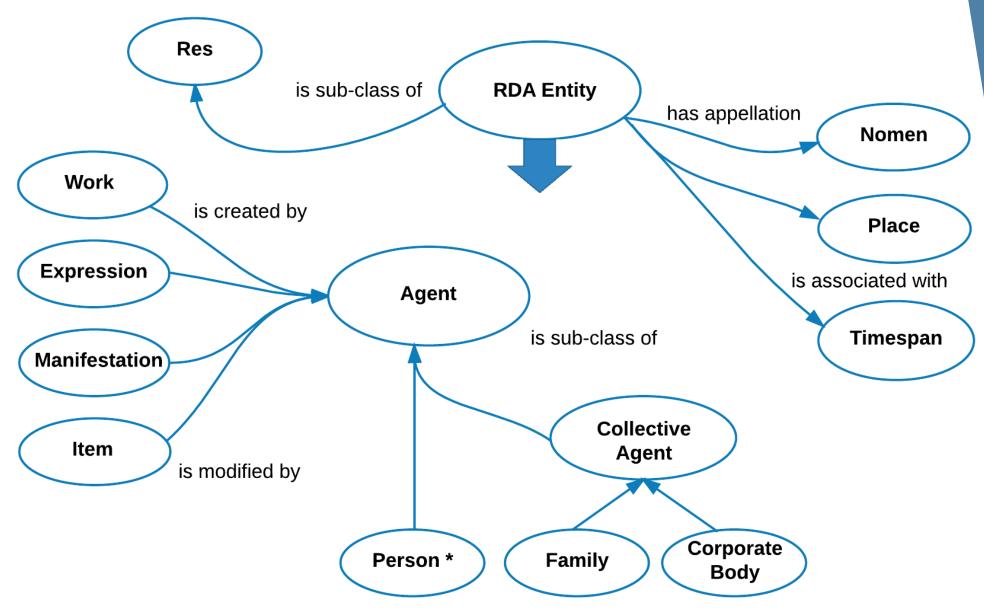
Representing LRM in RDA

- Introduction of new entities & attributes
 - ► Res not implemented in RDA
 - ▶ Top term instead will be the new "RDA entity"
- Clear separation of "real" vs. "fictional" entities
 - Person = real person who lives or is assumed to have lived
 - Place = extent of space that is contemporary or historical, on Earth or extra-terrestrial
 - Time-span = period of time with a duration, which can be short and precise, or lengthy and vague
 - ► Fictional persons, places, and time-spans are valid concepts, but they aren't occurrences of these entities

New LRM entities going into RDA

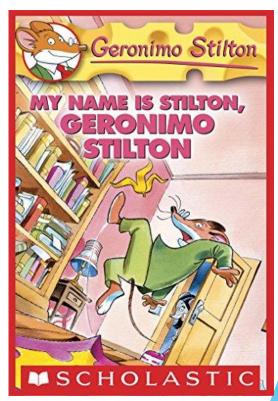
- Agent
 - > One or more real human beings: able to create, publish, own, etc.
- Collective agent
 - ► A superclass of the RDA entities Corporate body and Family
 - Must have a name and be capable of acting like a unit
- Nomen
 - ► A label or name for an entity (which is associated with entity itself)
- ► Place
- Timespan

LRM and RDA Entities



Revised LRM entity: Person

- ► A subclass of LRM's *Agent*
- Significant change from FRAD in the model for non-human personages
 - ▶ New scope excludes personas, spirits, fictitious characters, etc.
- But still important to associate the name (or Nomen) with the Manifestation
 - Presenting "Geronimo Stilton" as the author doesn't make him an Agent (which is required for Person)
 - Instead, it's a type of pseudonym
 - Sometimes the real human being behind the Nomen can be identified, sometimes not



Revised LRM entity: Person

Soccer



Soccer as Wishbone playing Robin Hood

Other name(s) Wishbone

Species Dog

Breed Jack Russell Terrier

Sex Male

Born 17 May 1988

Connecticut, United States

Died 26 June 2001 (aged 13)

Plano, Texas, United States

Resting place Plano, Texas, United States

Occupation Animal actor

- What about an animal performer?
 - ▶ Not an *Agent*, but doing <u>something</u>
 - ► Has a Nomen
 - Need to relate that Nomen to the Manifestation where it is used
 - ► Through a Manifestation statement or Statement of Responsibility
 - ► Add an access point
 - May extend the "association" relationship
- ▶ Note: This is not about subjects

What does this mean for Authorities?

- ► No required change to current NACO practice of creating authority records for personas, spirits, etc.
 - Creating records for names, not individuals
- ► Instead, indicate that
 - ► A non-fictitious *agent* created a *work*
 - ► At least one *manifestation* of that *work* presents a *nomen* that refers to a non-human personage
- Specific guidance yet to be developed
- ► Future of authority control should be more like VIAF

LRM attributes - New & Moved

- New
 - Representative expression attribute (Work)
 - ► Manifestation statement (Manifestation)
 - ► All attributes associated with the new entities
- Moved
 - ► Key (from *Work* to *Expression*)
 - ► Medium of performance (from *Work* to *Expression*)
 - ▶ Intended audience (from *Work* to *Expression*)

FRBR →	LRM
Intended termination (Work)	Category (Work)
Extensibility of expression Revisability of expression Type of score (musical notation)	Category (Expression)
Title of the manifestation Statement of responsibility Edition / issue designation Place of publication / distribution Publisher / distributor Date of publication / distribution Fabricator / Manufacturer Series statement Manifestation identifier Numbering (serial)	Sub-type of Manifestation statement [Many of these could be replaced by a relationship]

FRBR →	LRM
Physical medium	Category of carrier (Manifestation)
Capture mode	
Dimensions	Extent (Manifestation)
Source for acquisition / access authorization System requirements (electronic resource) Mode of access (remote-access e-resource) Access address (remote-access e-resource)	Access conditions (Manifestation)
Type size (printed book)	Intended audience (Manifestation)

FRAD ->	LRM
Address of person	Contact information (Agent)
Address of corporate body	
Language of person Language of family Language of the corporate body	Language (Agent)
Field of activity of person Field of activity of family Field of activity of corporate body	Field of activity (Agent)

From more than one FR model ->	LRM
Marks / inscriptions [FRBR]	Note (Res)
Condition of the item [FRBR]	
Biography / history [FRAD]	
History of family [FRAD]	
History of corporate body [FRAD]	
Type of identifier [FRAD]	Nomen
Scheme [FRSAD]	
Designated usage of controlled access point [FRAD]	Category (Nomen)
Form of nomen [FRSAD]	
Name [FRAD]	Nomen
Nomen [FRSAD]	

Can think of attributes as relationships

- ► Relationship between *Manifestation & Nomen*
 - Unstructured description
 Statement of responsibility: Inez Haynes Irwin
- ► Relationship between *Manifestation & Agent*
 - Structured descriptionAAP: Gillmore, Inez Haynes, 1873-1970
 - ► Identifier LCCN: n 85372376
 - ► IRI https://viaf.org/viaf/45765635

Maida's Little Shop

Inez Haynes Irwin

Author of MAIDA'S LITTLE HOUSE, MAIDA'S LITTLE SCHOOL, ETC.



Grosset & Dunlap, Publishers New York

> Copyright, 1909, by B. W. HUEBSCH

Manifestation statement

- ► Transcribed from the *Manifestation*
 - In RDA, a more literal transcription than we've been doing
 - Recording method = Unstructured description
- ► How a resource represents itself
- ► Fulfills the "identify" user task
- ► Thirteen sub-types
- Also supports machine transcription derived from digitized and born-digital manifestations

Manifestation statement - Example

- ▶ Literal transcriptions from the manifestation
 - ► Can close up white space, but otherwise WYSWIG
 - **Example:**

Manifestation title and responsibility statement

```
A Manual of European Languages for Librarians
C. G. ALLEN
```

But...

- Modified transcription considered "recording"
 - not a manifestation statement

Title: A manual of European languages for librarians Statement of Responsibility: C.G. Allen

A Manual of European Languages for Librarians

C. G. ALLEN
Former by Superintendent of Readers' Se

BOWKER
LONDON & NEW YORK
in association with the London School of Economics

For a cataloger's "transcription"

- Apply current transcription instructions
 - Capitalization
 - Abbreviation and omission
- Use current elements
 - Statement of responsibility, etc.
- Still an unstructured description

Representative Expression

- ► Certain expression elements associated with the original *Work*
 - Language
 - Medium of performance
 - Key
 - ► Intended audience
- ▶ Instance(s) of each can be identified as a work attribute
 - ► Emily Brontë's Wuthering heights: Language = English
 - Schubert's Trout Quintet:
 - ► Medium of performance = piano, violin, viola, cello, double bass
 - ► Key = A major

Getting to know Nomen

- ► A combination of signs or symbols that refers to an entity
- ▶ Identical strings can refer to different entities
- Examples of the *Person* entity
 - ▶ John Adams [U.S. President]
 - John Adams [Confederate brigadier general]
 - John Adams [composer]
- May consist of components or parts, governed by rules
 - Personal name AAPs with dates
 - ▶ Name/title AAPs for works
 - Subdivisions in a subject heading

Getting to know Nomen

- A Person can have multiple Nomen
 - ► Some for different personas, some just variants

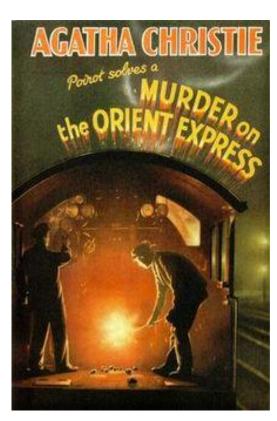
Personas	Variants
Rowling, J. K.	Rowling, Joanne K.
Galbraith, Robert	Rowling, Jo
Scamander, Newt	Роулинг, Дж. К.
Whisp, Kennilworthy	Rowlingová, Joanne K.

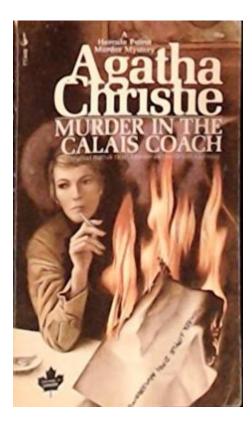
- Names in direct order, access points, and identifiers are all types of nomen
 - But for linked data, the IRI is not a Nomen (it's the value of the Nomen)

Recording methods Person to Nomen [has] related nomen 1: Unstructured (person) 2: Structured 3: Identifier [has] appellation of person [has] access point for [has] identifier for [has] name of person person person [has] variant [has] preferred [AAP] / [VAP] name of name of person person

Works and Nomen

- Same basic principles apply as with Persons
- ▶ One work, multiple nomens (titles)





Identifiers (Nomens)

LCCN: no 98101607

VIAF ID: 316741387 (Work)

Works and Nomen

- ▶ One character string for the nomen (title), multiple works
- ► The unanswered question
 - ► Religious tract
 - Musical work by Charles Ives
 - ► (Title of a part but that's also a work!)
 - ▶ Book by Leonard Bernstein
 - ▶ Book by Dennis A. Gilbert for the Council of Planning Librarians
 - etc.

Recording methods Work to Nomen 1: Unstructured 2: Structured [has] related nomen 3: Identifier (work) [has] subject [has] represented (nomen) [has] appellation of name of creator work (work) [has] title of [has] access point of [has] identifier for work work work [has] preferred [has] variant [AAP] / [VAP] title of title of work work

Whole-parts, Aggregates, and Serials

Whole-part Work

Relationship between at least two Works, where the part is integral to the whole

- True for all *Expressions* and *Manifestations* of those works (whole and/or part)
- Applies to
 - Poems in poetry cycles
 - Movements of concertos
 - Multipart novels



Aggregating Work

- ► A plan for bringing together distinct *expressions* into one or more *manifestations not* the contents
 - ► Relationships hold true only for a single aggregating work
 - ▶ The creator of the aggregating work comes up with the plan
 - "I'll select my favorite poems and publish them in one volume"
 - "When our firm publishes this novel, we will add illustrations"
 - "We will solicit articles about cataloging and publish them quarterly"
 - ▶ For static works, generally ignore the plan just catalog the results
 - ► For a yet-to-be-complete work, the plan takes on more importance

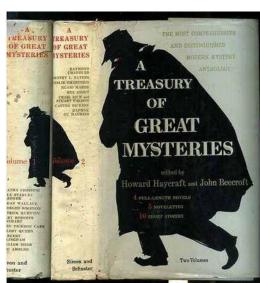
Aggregate Manifestations: Collections of Expressions

- ► More than one distinct work/expression
 - Usually similar in type and/or genre
 - None considered subordinate
- Examples
 - Anthology

A treasury of great mysteries / edited by Howard Haycraft and John Beecroft

- Issue of a journal
 American Libraries, November/December 2017
- ▶ Compilation CD

Glenn Miller: a legendary performer



Aggregate Manifestations: Augmentations

- ▶ One main work/expression, with supplemental work/expression
 - ► Supplemental *work/expression* may (or may not) be significant enough to warrant distinct bibliographic identification
- Examples
 - ▶ Introduction, not by the author

The birth of NASA: the diary of T. Keith Glennan / with an introduction by Roger D. Launius

Index

The complete poetical works / Lord Byron; general index by Carol B. Pearson

Illustrations (in an whole-part!)

The lord of the rings / J.R.R. Tolkien; illustrated by Alan Lee

THE BIRTH OF NASA

The Diary of T. Keith Glennan

with an Introduction by
Roger D. Launius
Edited by
J. D. Hunley

The NASA History Series

Aggregate Manifestations: Parallel Expressions

- More than one distinct (language) expression of the same work
- Examples
 - Publication conceived as bilingual from the start
 - Retirement income: recent developments and proposals / Francis Kessler Text in English and French on inverted pages
 - Text in the original language with a translation Orations / Aelius Aristides; edited and translated by Michael Trapp Parallel texts in Greek and English
 - ▶ DVD with a choice of spoken and/or subtitle languages

Holy hell In English with optional subtitles in Arabic, Chinese (traditional and simplified), Danish, Dutch, English, Finnish, French, German, Italian, Korean, Portuguese (Brazilian and European), Spanish (Latin America and Castilian), Swedish

New Aggregating Work?

- ► When there's a static work
 - ▶ New manifestation = new aggregating work *if* the <u>content</u> changes
 - ▶ Different expressions (e.g., the same musical works, but with different performers)
 - Another work is added
 - ▶ But not necessarily if the carrier changes
- When there's a work with content added over time
 - ► New manifestation = new aggregating work *if* the <u>plan</u> changes
 - ► Could include frequency, content type, language, and/or carrier type
 - ▶ Boundary decisions based on local cataloging policies
 - ▶ Not a new aggregating work when only new content is added

New concept: Diachronic Works

- Planned to be embodied over time
- Work content changes over time
 - Revision / replacement Single expression
 - May be done at regular intervals
 - Additions / accumulations Successive expressions
 - Previous content retained
- New categories planned
 - Integrating monographic work
 - Sequential monographic work
 - Integrating continuing work
 - Serial work (sequential continuing work)

Aspects of Diachronic Works

- Extension of content
 - Essential
 - ▶ If the extension is not completed, the whole work loses integrity
 - Inessential
 - ▶ If/when the extension terminates, the cumulative issued parts are unaffected
- Extension mode
 - Integration of added content
 - Successive release of new content
- Termination of content
 - Determinate (known): a pre-determined end
 - ► Indeterminate (unknown): could continue indefinitely

Extension Mode

Termination of Content

✓ Integration

Determinate

Succession

Indeterminate

Essential extension: Kit with pieces issued monthly - to be assembled into a model

Build R2-D2 | 1:2 Scale

Pay-as-you-build option

Premium 25 months subscription at \$69.99/ month

Standard 25 months subscription at \$64.99/ month



Inessential extension: Conference website



Extension Mode

Termination of Content

✓ Integration

Determinate

Succession

✓ Indeterminate

Essential extension: Online news website

Inessential extension: Ongoing wiki or blog







Extension Mode

Termination of Content

Integration

✓ Determinate

✓ Succession

Indeterminate

Essential extension: 4 volume dictionary, published 1882-1883

Inessential extension: Conference video diary

0

THE

IMPERIAL DICTIONARY

OF

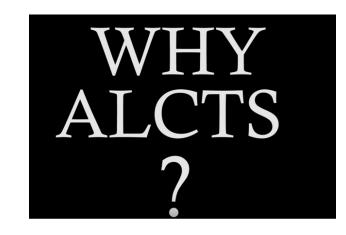
THE ENGLISH LANGUAGE:

A COMPLETE ENCYCLOPEDIC LEXICON, LITERARY, SCIENTIFIC, AND TECHNOLOGICAL

RV

5/6- :

JOHN OGILVIE, LL.D.,



Extension Mode
 Integration
 ✓ Succession
 Termination of Content
 Determinate
 ✓ Indeterminate

Essential extension: An impossibility??

- No value to content until complete
- No intention to terminate the content

Inessential extension: Annual report



Annual Reports

Reconceptualizing Serials via LRM

- Complex construct
- Serial work = sequentially issued sequence of aggregate manifestations
 - ▶ A plan, not the contents!
 - ► Each issue is an aggregate of articles
- Whole/part relationship between serial work and individual issues
- Dynamic
 - Description not limited to the past; includes assumptions about the future

Serials: A particular type of Work

- Commonality of content differs from monographs
 - ▶ Intention from publisher/editor that all issues belong to the whole
 - ➤ Translations & different formats not considered new *expressions* instead they are different [but closely related] *works*
 - ► Cannot ensure future commonality between the two "versions"
- ► Thus, each *serial work* has only one *expression* and one *manifestation*
 - ► Relationships between "versions" are work-to-work

For serials and other continuing resources

- Most data elements should "live" at the work level
 - ► Mode of issuance (Extension mode & Termination of content)
 - Frequency
 - **ISSN**
 - ▶ But need to determine which modifications merit describing a new work
- Need to be able to relate different works with similar content.
 - Different formats (print vs. e)
 - Different linguistic editions of a journal
 - Different regional editions of a newspaper

More Information

- ► RDA Toolkit/3R Project website
 - http://www.rdatoolkit.org/3Rproject
- ► RDA Steering Committee Presentations
 - ► http://www.rda-rsc.org/rscpresentations
 - ► Including recent presentations by the RSC Chair, Gordon Dunsire
- ► IFLA Library Reference Model
 - https://www.ifla.org/files/assets/cataloguing/frbr-lrm/ifla-lrm-august-2017.pdf
- ► Email me: kglennan@umd.edu

Questions?

