An Introduction to FRBR, RDA, and Library Linked Data

INFORMATION ORGANIZATION MOVES INTO THE 21ST CENTURY: FRBR, RDA, LLD

Guest Lecture for LIS5307, Dr. Michelle Kazmer, FSU College of Information, October 17, 2012
INFORMATION ORGANIZATION MOVES INTO THE 21ST C.

Objectives of this class:

- Fundamentals of FRBR
  - Entity-Relationship Model
- Introduction to RDA
  - Successor to AACR2
- Overview of Linked Data
  - The Future of Information Organization
Functional Requirements of Bibliographic Records
Objectives of the Final Report (1998) of the IFLA Study Group:

1. to provide a clearly defined, structured framework for relating the data recorded in bibliographic records to the needs of users
2. to recommend a basic level of functionality for records created by national bibliographic agencies
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FRBR are defined in relation to the following user tasks when searching and making use of national bibliographies and library catalogues:

- Find
- Identify
- Select
- Obtain

IFLA. Final Report. Section 2.1
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Entity-Relationship Model

- Entity
- Attributes
- Values
- Expression
- Item
- Manifestation
- Work
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Entity = Horse

Attributes

Name

Value

Renegade

Breed

Value

Appaloosa

Value

Entity = Horse

Attributes

Name

Value

Renegade

Breed

Value

Appaloosa
Information organization moves into the 21st C.

Entity = Work

Attributes

Title

Value

A Christmas Carol

Creator

Value

Charles Dickens
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Group One Entities

- **Work**: Intellectual or artistic creation, realized through
- **Expression**: Intellectual or artistic realization of a work, embodied in
- **Manifestation**: Physical embodiment of an expression, exemplified by
- **Item**: Single exemplar of a manifestation

Adapted from IFLA. Final Report. Section 3.1
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Work

realized through

Expression

embodied in

Manifestation

exemplified by

Item

Idea!

Intellectual or artistic realization of a work

Physical embodiment of an expression

Single exemplar of a manifestation

Idea!

Intellectual or artistic creation
INFORMATION ORGANIZATION MOVES INTO THE 21ST C.

- Work: Intellectual or artistic creation, realized through expression
- Expression: Intellectual or artistic realization of a work
- Manifestation: Physical embodiment of an expression, exemplified by item
- Language Materials: Text
- Fiction
- Poetry
- Feature films
- Extended version
INFORMATION ORGANIZATION MOVES INTO THE 21ST C.

Print: Hardcover (356 pages); 32 cm

Work

Expression

Intellectual or artistic creation

realized through

Embodied in

Manifestation

Janet Eyre

Exemplified by

Item

Digital (PDF): CD-ROM
INFORMATION ORGANIZATION MOVES INTO THE 21ST C.

Print: Hardcover (356 pages); 32 cm

Jane Eyre

Niceville Pub. Lib.
YA FIC BRONTE 1

Indian River State College
PR4167 J3 2006B

Palm Beach Co. Lib.
Sys.
FIC BRONTE

Work
Intellectual or artistic creation

realized through

Expression
Intellectual or artistic realization of a work

embodied in

Manifestation
Physical embodiment of an expression

exemplified by

Item
Single exemplar of a manifestation

Exact Copies

Print: Hardcover (356 pages); 32 cm
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Abstract

realized through

Expression

embodied in

Manifestation

Concrete

Item

Work

Intellectual or artistic creation

Intellectual or artistic realization of a work

Physical embodiment of an expression

Single exemplar of a manifestation
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**Group Two Entities**

- **Person**: an individual
- **Family**: A group of related persons
- **Corporate Body**: an organization or group of individuals and/or organizations

Final Report. Section 3.2
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- **Work** created by
- **Expression** realized by
- **Manifestation** produced by
- **Item** owned by
- **Person**
- **Family**
- **Corporate Body**
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Group Three Entities

- **Concept**: an abstract notion or idea
- **Object**: a material thing
- **Event**: an action or occurrence
- **Place**: a location

IFLA. Final Report. Section 3.2
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Work

has as its subject

Work
Expression
Manifestation
Item

Person
Family
Corporate Body

Concept
Object
Event
Place

IFLA. Final Report. Section 3.3
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Resource Description and Access
What are the new cataloging rules?

Resource Description and Access (RDA)

- Successor to AACR2 cataloging rules
- Released June 23, 2010
- Already implemented by some libraries in the US:
- RDA records in OCLC this morning: 91,627; in our SUS “Uborrow” Mango: 3,582
What are the new cataloging rules?

How are AACR2 and RDA the same?

❌ Both establish a standard for bibliographic description so that information resources can be found, identified, selected, and accessed

❌ RDA built of the ‘bricks’ of AACR2
  ✤ Dismantled, reconstructed, remodeled
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AACR2 Part 1 is based on
ISBD Areas of Description
1. Title and statement of responsibility
2. Edition area
3. Material specific details
4. Publication, etc.
5. Physical description
6. Series
7. Notes
8. Standard numbers and terms of availability

Part 2 covers headings

RDA is based FRBR entities
Group 1 Entities:
  Work, Expression, Manifestation, Item
Group 2 Entities:
  Persons, Corporate Bodies, Families
Group 3 Entities:
  Concept, Object, Event, Place
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Author: Dickens, Charles, 1812-1870.

Uniform title: Christmas carol

Title: A Christmas carol: in prose; being a ghost story of Christmas

Publisher: London: Chapman & Hall, 1843.


Language: English
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What are the new cataloging rules?

How is RDA different?

- Based on FRBR, a conceptual entity-relationship model
- Designed for a digital environment: RDA Toolkit
- “Take what you see, accept what you get.”*
  + Less abbreviations and truncation, less stringent capitalization rules

* Dr. Barbara B. Tillett, Chief, Policy and Standards Division, Library of Congress
RDA’S IMPACT ON SEARCHING & DISPLAY

How will RDA impact our public catalogs?

- Searching in Mango
  - Potentially more names; no more “Rule of Three”

- Display in Mango
  - “pages” and “illustrations”
  - “cm” is a symbol, not an abbreviation
  - “©” instead of “c” in front of copyright year
  - Full stops after abbreviations: “1st ed.”
**AACR2 Record in Mango**

<table>
<thead>
<tr>
<th><strong>Title:</strong></th>
<th>The Nature and <strong>future</strong> of the <strong>catalog</strong>: proceedings of the ALA's Information Science and Automation Division's 1975 and 1977 institutes on the <strong>catalog</strong> edited by Maurice J. Freedman and S. Michael Malinconico.</th>
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<td><strong>Published:</strong></td>
<td>Phoenix, AZ : Oryx Press, 1979.</td>
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<td><strong>Description:</strong></td>
<td>xvi, 317 p. : ill. ; 24 cm.</td>
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<td>&quot;A Neal-Schuman professional book.&quot; Includes bibliographical references and index.</td>
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<td>0912700084 :</td>
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<td>American Library Association Information Science and Automation Division</td>
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<td>Malinconico, S. Michael</td>
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RDA Record in Mango

Title: Conversations with catalogers in the 21st century
Elaine R. Sanchez, editor; foreword by Michael Gorman.
Published: Santa Barbara, California: Libraries Unlimited, [2011], ©2011.
Description: xii, 283 pages : illustrations ; 24 cm.
Series note: Libraries Unlimited library management collection
Series: Libraries Unlimited library management collection.
Alternate title: Conversations with catalogers in the twenty-first century
Notes: Includes bibliographical references and index.
Summary: "Authored by cataloging librarians, educators, and information system experts, this book of essays addresses ideas and methods for tackling the modern challenges of cataloging and metadata practices"-- Provided by publisher.
ISBN: 1598847023 (pbk. : acid-free paper)
9781598847024 (pbk. : acid-free paper)
Subjects, general: Cataloging -- History -- 21st century
Other author(s),etc: Sanchez, Elaine
Format: Book
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Library Linked Data
## INFORMATION ORGANIZATION MOVES INTO THE 21\textsuperscript{ST} C.

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<td>$a$ [Geographic]</td>
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<td>600</td>
<td>$a$ [Name]</td>
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RDA’S IMPACT ON SEARCHING & DISPLAY

Call number:  Z693.A15 N39
Description:  xvi, 317 p. : ill. ; 24 cm.
Notes:        Includes bibliographical references and index.
Subject:      Cataloging--Congresses.
Subject:      Library catalogs--Congresses.
Added name:   Freedman, Maurice J.

Author, etc.:  Daly, Richard R.
Title:        The future crisis in the card catalog : how libraries are preparing for it / by Richard R. Daly
Description:  12 p. ; 22 cm.
Subjects, general:  Card catalogs.
Format:       BK
Material type:  <Book>
RDA’s Impact on Searching & Display

Did you mean conversations with catalog in the 21st century?

1. Conversations with catalogers in the 21st century
   Elaine R. Sanchez, editor; foreword by Michael Gorman.
   Published: Santa Barbara, California: Libraries Unlimited, [2011], ©2011.
   Summary: "Authored by cataloging librarians, educators, and information system experts, this book of essays addresses ideas and methods for tackling the modern challenges of cataloging and metadata practices".

2. Unser Jahrhundert: ein Gespräch
   Helmut Schmidt, Fritz Stern.
   Author: Schmidt, Helmut 1918 Dec. 23-
   Published: München : C.H. Beck, c2010.
   Summary: "'Get Started, Fritz'- this sentence begins a conversation with friends...see more"
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Boxed Data
RDA’s Impact on Searching & Display

G2: PERSON

G1: WORK

G1: EXPRESSION

G1: MANIFESTATION

G1: ITEM
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Linked Data
Any questions?
Please don’t hesitate to contact me!

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INFORMATION ORGANIZATION MOVES INTO THE 21ST C.

Bibliography

- Childress, Eric. Retrieval That Works: FRBR (Functional Requirements for Bibliographic Records) and OCLC. Presentation. SEALL 2006, Raleigh, NC, 8 April 2006.