FRBR Overview and Application

Understanding Conceptual Relationships

June 2012

Course Objectives

At the end of this course, you will be able to:
- Understand FRBR as a conceptual model
- Understand FRBR terminology
- Identify FRBR Group 1 entities
- Identify FRBR Group 1 attributes
- Understand FRBR relationships
- Appreciate FRBR Group 2 and Group 3 entities
- Apply RDA: Resource Description & Access with a better appreciation of its underlying concepts
Why FRBR?

Why do you need to understand this?
- RDA is based on this conceptual model
- RDA uses these terms and language
- To make the catalog work best for patrons

Why FRBR?

If you understand these concepts and terms
- It will be easier to navigate the RDA text
- It will be easier to use cataloger’s judgment in context
- You can better apply RDA (because we can’t cover everything in classroom training -- unless you want training to last the rest of your lives)
FRBR

Functional Requirements for Bibliographic Records

- Conceptual model
- Not a set of rules
- Uses an entity relationship model, rather than descriptive analysis

FRBR vs. RDA vs. MARC

- FRBR is a conceptual model
- RDA is a cataloging standard that is based on the FRBR conceptual model
- MARC is an encoding scheme by which computers exchange, use, and interpret bibliographic information
**FRBR**

**Functional Requirements for Bibliographic Records**

- Abstraction of how we can think about bibliographic records to facilitate relationships between data elements and between data and users
- Outlined in a 1998 report from the International Federation of Library Associations and Institutions (IFLA)

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**FRBR**

- User-centered, based on concrete user tasks:
  - Find
  - Identify
  - Select
  - Obtain
FRBR User Tasks

- **Find**
  to locate either a single entity or a set of entities as the result of a search using an attribute or relationship of the entity

- **Identify**
  to confirm that the entity described corresponds to the entity sought, or to distinguish between two or more entities with similar characteristics

FRBR User Tasks

- **Select**
  to choose an entity that meets the user's requirements with respect to content, physical format, etc., or to reject an entity as being inappropriate to the user's needs

- **Obtain**
  to acquire an entity through purchase, loan, etc., or to access an entity electronically through an online connection
FRBR - Modeling the Bibliographic Universe

- Utilizes an entity-relationship framework:
  - Entities (a class of things)
  - Relationships (associations among entities)
  - Attributes (characteristics of the entities) [RDA calls these “elements”]

FRBR - Modeling the Bibliographic Universe

- Entities:
  - Group 1 Entities – Works, Expressions, Manifestations, and Items
  - Group 2 Entities – Persons, Corporate Bodies, Families
  - Group 3 Entities – Concept, Place, Event, Object, plus all Group 1 & 2 Entities
Vocabulary

“Book”
Door prop
(item)
“publication”
at bookstore
any copy
(manifestation)

Cited from Patrick LeBoeuf, former chair of the IFLA FRBR Review Group

Vocabulary

“Book”
–Who illustrated?
(expression)
–Who wrote?
(work)

Cited from Patrick LeBoeuf, former chair of the IFLA FRBR Review Group
Which “book” are you cataloging?

- When you catalog a “book” on your desk:
  - You are working with a FRBR Group 1 *Item*
  - The bibliographic record you create will represent a FRBR Group 1 *Manifestation* with some characteristics of the contained *Work* and *Expression*
  - Attributes of other FRBR group entities may appear in the bibliographic record

WEMI (or IMEW?)

- FRBR Group 1 entities
  - Work
  - Expression
  - Manifestation
  - Item
- Item
  - Manifestation
  - Expression
  - Work
The *Item* in FRBR

- *Item* is a concrete entity
- A single physical object (e.g., a copy of a one-volume monograph, a single audio cassette, etc.)
  
  or:

- Can comprise more than one physical object (e.g., a monograph issued as two separately bound volumes, a recording issued on three separate compact discs, etc.).

Quick Quiz! Identify the FRBR *Item*

A. Digitized version of the printed Oxford University Press text published in 2008?

B. Leatherbound autographed copy in Rare Books Collection?

C. French translation?

D. London Symphony Orchestra 2005 performance?

E. Shakespeare’s Hamlet?
Quick Quiz! Which “book” is the FRBR Item?

A. We should order that book.
B. I’d like to read that book in French.
C. I have lost my book.
D. That movie is based on my favorite book.

The Manifestation in FRBR

- Encompasses a wide range of materials
  - Manuscripts
  - Books
  - Periodicals
  - Maps
  - Posters
  - Sound recordings
  - CD-ROMs
  - Multimedia kits
- Represents all the physical objects that bear the same characteristics, in respect to both intellectual content and physical form
Quick Quiz! Identify the FRBR Manifestation

A. Digitized version of the printed Oxford University Press text published in 2008?
B. Leatherbound autographed copy in Rare Books Collection?
C. French translation?
D. London Symphony Orchestra 2005 performance?
E. Shakespeare’s Hamlet?

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Quick Quiz! Which “book” is the FRBR Manifestation?

A. We should order that book.
B. I'd like to read that book in French.
C. I have lost my book.
D. That movie is based on my favorite book.
The Expression in FRBR

The intellectual or artistic realization of a work in the form of:

- Alpha-numeric notation
- Musical notation
- Choreographic notation
- Sound
- Image
- Object
- Movement
- Or any combination of such forms

How the ideas are communicated

Quick Quiz! Identify the FRBR Expression

A. Digitized version of the printed Oxford University Press text published in 2008?

B. Leatherbound autographed copy in Rare Books Collection?

C. French translation?

D. London Symphony Orchestra 2005 performance?

E. Shakespeare’s Hamlet?
Quick Quiz! Which “book” is the FRBR Expression?

A. We should order that book.
B. I’d like to read that book in French.
C. I have lost my book.
D. That movie is based on my favorite book.

Riva, Pat. CLA 2010 Conference, Edmonton, Alberta. 2 June 2010. IFLA’s Conceptual Models and RDA

The Work in FRBR

- Abstract entity - ideas
- No single material object one can point to
- Recognized through individual realizations or expressions
- Exists only in the commonality of content between and among the various expressions
Quick Quiz! Identify the FRBR Work

A. Digitized version of the printed Oxford University Press text published in 2008?
B. Leatherbound autographed copy in Rare Books Collection?
C. French translation?
D. London Symphony Orchestra 2005 performance?
E. Shakespeare’s Hamlet?


Quick Quiz! Which “book” is the FRBR Work?

A. We should order that book.
B. I'd like to read that book in French.
C. I have lost my book.
D. That movie is based on my favorite book.

Riva, Pat. CLA 2010 Conference, Edmonton, Alberta. 2 June 2010. IFLA’s Conceptual Models and RDA
Online Quiz 1: FRBR Terminology

- Online Quiz – 15 minutes
  - Multiple Choice
  - Fill-in-the Blanks
  - True/False
  - Graded results at end of quiz
- Instructor will guide you through the first question

FRBR beyond the library

The Work is the idea of a chair, which can be defined as something to sit on, has legs, and a seat, and any particular model of one was thought up by a particular person.

The Expression is the idea of that chair taking shape into a specific type of chair, such as an office chair, a dining room table chair, a schoolroom chair, a lounge chair, a metal folding chair, etc.

The Manifestation is the manufacturing run of Sauder’s office chair that has microsuede fabric and the ability to adjust height.

The Item is the chair you are sitting in now.
Attributes of an Item

- Item identifier
- Provenance of the item
- Marks/inscriptions
- Exhibition history
- Condition of the item
- Treatment history
- Scheduled treatment
- Access restrictions on the item
- Fingerprint

Item attribute example

- Look at this record – showing item attributes
- Provenance from a rare book catalog

| 051 | 1 | a | GV1645.R7 | b | A4 | Copy 4 | c | With inscription on t.p.: Prop. Houdin. Leand [sic] only to Goldin. |
| 051 | 1 | a | GV1645.R7 | b | A4 | Copy 5 | c | Extra-Illustrated copy, with photographs of Robert-Houdin's tomb, various obituaries, clippings, a performance handbill from 1848, etc., mostly laid in, although a few are laid in. Ms. annotations in the hand of Houdini throughout and extensive notes on blanks at end. Autographed by Houdini on added free front-endpaper. |
| 100 | 1 | t | a | Robert-Houdin, Jean-Eugène. | t | d | 1865-1871. |
| 240 | 1 | t | a | Confidences d'un prestidigitateur. | t | l | English |
Quick Quiz: Identify the Item attribute

1. First title: 4 Hands in Tricks
2. Variant title: from no. 12, etc.: 4 New famous serial works on conjuring
4. 21 pamphlets in f. x: Hb II., 4: 18 cm.
5. Title roman no. 21.
8. LC copy has inscription, both from Hagen collection. Harry Houdini. 6 DLC

Attributes of a Manifestation

- Title of the manifestation
- Statement of responsibility
- Edition/issue designation
- Place of publication/distribution
- Publisher/distributor
- Date of publication/distribution
- Fabricator/manufacturer
- Series statement
- Form of carrier
- Extent of the carrier
- Physical medium
- Others...
## Quick Quiz: Identify the Manifestation attribute

<p>| | | | | | | | | | | |</p>
<table>
<thead>
<tr>
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<td>Stanyon, Ellis, 1870-1961.</td>
<td></td>
<td>1?</td>
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<tr>
<td>246 1</td>
<td># First title: a New coin tricks</td>
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<td>246 1</td>
<td># Variant title, from no. 12, etc.: a Now famous serial works on conjuring</td>
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<td>Serial lessons in conjuring</td>
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<tr>
<td>300</td>
<td>21 pamphlets in 1 v.; b ill.; c 18 cm.</td>
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<td>3?</td>
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<tr>
<td>500</td>
<td>Title from no. 21.</td>
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</tr>
<tr>
<td>510 4</td>
<td>Price, H. STC of works on psychical res., c p. 357</td>
<td></td>
<td>4?</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

## Attributes of an Expression

- Form of expression
- Date of the expression
- Language of expression
- Other distinguishing characteristic
- Medium of performance
- Context for the expression
- Extent of the expression
- Summarization of content
- Others...
### Quick Quiz: Identify the Expression attribute

| 245 | 0 | 0 | ą Brujerias : ąb stones of witchcraft and the supernatural in the American Southwest and beyond / ąc collected and translated by Nasario Garcia. | 1? |
| 300 | ą xxiv, 373 p. : ąb ill. ; ąc 24 cm. |
| 440 | 0 | ą Grover E. Murray studies in the American Southwest. | 2? |
| 546 | ą English and Spanish. |
| 520 | ą | ą A collection of bilingual oral stories (Spanish/English) of witchcraft and the supernatural (including tales of sorcerers; witches; La Llorona, the vanishing hitchhiker; and apparitions) from old-timers and young people whose ages range from ninety-eight to seventeen and who live in Latin America and the American Southwest!—From the publisher. | 4? |
| 504 | ą includes bibliographical references (p. [349]-350) and indexes. |

### Attributes of a Work

- Title of the *work*
- Form of *work*
- Date of the *work*
- Other distinguishing characteristic
- Intended termination
- Intended audience
- Context for the *work*
- Others ...
### Quick Quiz: Identify the Work attribute

<table>
<thead>
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<th>Attribute</th>
<th>Value</th>
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<td>1</td>
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<tr>
<td>245</td>
<td>1</td>
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<tr>
<td>260</td>
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<tr>
<td>263</td>
<td>1</td>
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<tr>
<td>300</td>
<td>1</td>
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<td>338</td>
<td>1</td>
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<td>490</td>
<td>0</td>
</tr>
<tr>
<td>650</td>
<td>0</td>
</tr>
<tr>
<td>700</td>
<td>1</td>
</tr>
</tbody>
</table>

- **100**: †a Athanasius, †c Saint, Patriarch of Alexandria, †d d. 373, †e author.
- **240**: †a De Incarnatione, †l English
- **245**: †a On the Incarnation: †b English translation, †r Athanasius the Great of Alexandria; †p preface by C.S. Lewis, †t translation and introduction by John Behr.
- **260**: †a Yonkers, NY: †b St. Vladimir’s Seminary Press, †c 2011.
- **263**: †a 1111
- **300**: †a pages cm
- **336**: †a text, †l rdacontent
- **337**: †a unmediated, †l rdamedia
- **338**: †a volume, †l rdacontainer
- **490**: †a Popular patristics series; †v no. 44b
- **650**: †a Incarnation †v Early works to 1800.
- **700**: †a Behr, John, †e translator, †e writer of added commentary.

### Online Quiz 2: Attributes of FRBR Group 1 Entities

- **Online Quiz – 15 minutes**
  - Multiple Choice
  - True/False
  - Graded results at end of quiz
- **Instructor will guide you through the first question**
Entity Relationships and FRBR

- Inherent relationships:
  - work “is realized by” by an expression
  - expression “is embodied in” a manifestation
  - manifestation “is exemplified by” an item
FRBR Group 1 Entities

- **Work**
  - is realized through
  - **Expression**
    - is embodied in
    - **Manifestation**
      - is exemplified by
      - **Item**

Intellectual/Artistic Content

Physical – Recording of Content

- one
- many
Quick Quiz!  Identifying Group 1 Entities

Harry Potter and the Goblet of Fire

Summary: Fourteen-year-old Harry Potter joins the Weasleys at the Quidditch World Cup, then enters his fourth year at Hogwarts Academy where he is mysteriously entered in an unusual contest that challenges his wizarding skills, friendships and character, amid signs that an old enemy is growing stronger.

This book is number four in the Harry Potter series.

Quick Quiz!  Identifying Group 1 Entities

Identify the FRBR Group 1 entities:

- Harry Potter and the Philosopher’s Stone
- Harry Potter and the Chamber of Secrets
- Harry Potter and the Prisoner of Azkaban
- Harry Potter and the Order of the Phoenix
- Harry Potter and the Half-Blood Prince
- Harry Potter and the Deathly Hallows
Quick Quiz! Identifying Group 1 Entities

Adaptations:

- **Movie**: Harry Potter and the Goblet of Fire (2005)
- **Video game**: Harry Potter and the Goblet of Fire (2005)
Family of Works

Equivalent
- Microform Reproduction
- Copy
- Exact Reproduction
- Facsimile
- Reprint

Derivative
- Edition
- Abridged Edition
- Illustrated Edition
- Revision
- Translation
- Variations or Versions
- Arrangement
- Slight Modification
- Expurgated Edition
- Change of Genre
- Parody
- Imitation

Free Translation
- Summary
- Abstract
- Digest
- Dramatization
- Novelization
- Screenplay
- Libretto

Same Style or Thematic Content
- Adaptation

Original Work-- Same Expression

Same Work – New Expression

Cataloging Rules
Cut-Off Point

New Work

Descriptive
- Review
- Casebook
- Criticism
- Evaluation
- Annotated Edition
- Commentary

**Entity Relationships and FRBR**

- **Content relationships:**
  - Equivalence
  - Derivative
  - Descriptive

- **Structural relationships:**
  - Whole/part
  - Part-to-part
  - Sequential
  - Accompanying

- **Shared characteristics**

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**Quick Quiz! Identifying Group 1 Entities**

  - Bloomsbury (UK) hardcover
  - Bloomsbury (UK) paperback
  - Bloomsbury (UK) paperback (adult cover)
  - Scholastic (US) hardcover
  - Scholastic (US) paperback
  - Raincoast (Canada) hardcover
  - Raincoast (Canada) paperback
  - Penguin (Canada) paperback (adult cover)
Quick Quiz! Identifying Group 1 Entities

○ Translations
  ● Arabic
    ○ Hardcover
    ○ Softcover
  ● Finnish
    ○ Hardcover
    ○ Softcover
  ● Italian
    ○ Hardcover
    ○ Softcover

Quick Quiz! Identifying Group 1 Entities

○ Audiobooks
  ● Jim Dale’s reading (2000)
    ○ Listening Library: 17 cassettes
    ○ Listening Library: 12 CDs
  ● Stephen Fry’s unabridged reading (2001)
    ○ BBC Audiobooks: 14 CDs
    ○ BBC Audiobooks: 18 cassettes
Quick Quiz! Identifying Group 1 Entities

- Audiobooks in translation
  - French
    - CD
    - Cassette
  - Japanese
    - CD
    - Cassette
Group 2 Entities

- Persons, corporate bodies, and families responsible for:
  - the intellectual or artistic content,
  - the physical production and dissemination, or
  - the custodianship of the entities
Group 2 Entities: basic relationships

- **Person**: Wagner, Richard, 1813-1883

- **Musical Work**: Die Meistersinger von Nürnberg (Opera)

- **Literary Work**: Die Meistersinger von Nürnberg (Libretto)

Created by Wagner, Richard, 1813-1883 creates the Musical Work: Die Meistersinger von Nürnberg (Opera), which in turn is created by the Literary Work: Die Meistersinger von Nürnberg (Libretto).
FRAD (Functional Requirements for Authority Data)

- **User tasks:**
  - **Find:** Find an entity or set of entities corresponding to stated criteria
  - **Identify:** Identify an entity
  - **Clarify** (Justify): Document the authority record creator’s reason for choosing the name or form of name on which an access point is based.
  - **Contextualize** (Understand): Place a person, corporate body, work, etc. in context
    - Example: WorldCat Identities: [http://worldcat.org/identities/](http://worldcat.org/identities/)

FRAD Attributes

**Attributes of a person**

- Title of person
- Dates associated with the person (birth/death/period of activity)
- Gender
- Place of birth
- Place of death
- Country
- Place of residence
- Affiliation
- Address
- Language of person
- Field of activity
- Profession / occupation
- Biography / history
- Other informational elements associated with the person
FRAD Attributes

Attributes of a family
- Type of family
- Dates of family
- Places associated with family
- Field of activity
- History of family

Attributes of a corporate body
- Place associated
- Dates associated
- Language of the corporate body
- Address
- Field of activity
- History
- Other information associated with the corporate body

Group 3 Entities

- Subjects of Group 1 or Group 2’s intellectual endeavor, and include:
  - Concepts
  - Objects
  - Events
  - Places
  - Group 1 entities (WEMI)
  - Group 2 entities (P/F/CB)
Group 3 Entities: basic relationships

- **Work**: Songs of Innocence and Experience
- **Work**: Approaches to Teaching Blake
- **Person**: Blake, William, 1757-1827
- **Person**: Gleckner, Robert F.
- **Concept/Topic**: Literary education

Relationships:
- Has Subject
- Created by
- Creates
- Is Subject of
- Has Subject
Entity Relationships and FRBR

- Relationships also exist between Groups
  - Group 1 WEMI to Group 2 P/F/CB
  - Group 1 WEMI to Group 3 C/O/E/P
  - Group 2 P/F/CB to Group 3 C/O/E/P

Entity Relationships and FRBR

- Group 1 WEMI to Group 2 P/F/CB
  - Creator (author) to Work
  - Contributor (editor) to Expression
  - Manufacturer (Printer) to Manifestation
  - Owner (Current owner) to Item
Entity Relationships and FRBR

- Group 2 P/F/CB to Group 2 P/F/CB
  - Person (Real identity) → Person (Alternate identity)
  - Corporate body (Employer) (Earlier name) → Person (Employee)
  - Person (Progenitor) → Corporate body (Later name)
  - Person (Family member) → Family (Descendants) (Founder)
  - Corporate body (Founded organization)

Back to User Tasks

- At the beginning of this course, we looked at FRBR User Tasks
- Then we looked at FRAD User Tasks
- Here is a comparison of the two:

<table>
<thead>
<tr>
<th>Bibliographic Data</th>
<th>Authority Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Find</td>
<td>Find</td>
</tr>
<tr>
<td>Identify</td>
<td>Identify</td>
</tr>
<tr>
<td>Select</td>
<td>Clarify (Justify)</td>
</tr>
<tr>
<td>Obtain</td>
<td>Understand (Contextualize)</td>
</tr>
</tbody>
</table>
Why Do Libraries Need FRBR?

- To avoid becoming marginalized by other information delivery services
- To cut costs for the description and access to resources in our libraries
- To encourage redesign of our systems to move us into linked data information discovery and navigation systems in the Internet environment
- To make our bibliographic descriptions and access data more internationally acceptable


Bibliography

- Childress, Eric, CO-ASIS&T Program, Columbus, OH. 21 July 2005. *What’s FRBR?*
- Riva, Pat. CLA 2010 Conference, Edmonton, Alberta. 2 June 2010. *IFLA’s Conceptual Models and RDA*
Online Quiz 3: Group 2 & 3 entities, Relationships

- Online Quiz – 15 minutes
  - Multiple Choice
  - True/False
  - Graded results at end of quiz

- Instructor will guide you through the first question