

# RDA and the group 1 entities

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# Plan

- brief overview of the FRBR and FRAD models
- FRBR/FRAD in RDA
- RDA: focus on the group 1 entities
  - new vocabulary and concepts
  - different way of thinking about elements
  - generalized instructions
  - changed instructions
  - new elements and instructions

# FRBR/FRAD

# Understanding RDA

## RDA 0.3

A **key** element in the design of RDA is its **alignment with the conceptual models** for bibliographic and authority data developed by the International Federation of Library Associations and Institutions (IFLA).



# Family of conceptual models

<b>FRBR</b>	Functional Requirements for Bibliographic Records	1998
<b>FRAD</b>	Functional Requirements for Authority Data	2009
<b>FRSAD</b>	Functional Requirements for Subject Authority Data	approved 2010

FRAD and FRSAD are extensions of the FRBR model

# RDA and FRBR/FRAD

- final editing of text of RDA in 2009
- RDA released in 2010
- alignment with the FRBR and FRAD models
- possible to extend alignment with FRSAD model
- placeholder sections and chapters for subject data

# Alignment with FRBR/FRAD

- provides a logically consistent framework that shapes RDA
- new vocabulary
- new concepts
- basis for RDA achieving key objectives:
  - comprehensive
  - extensible
  - adaptable

# Why are the models important?

## RDA 0.3.1

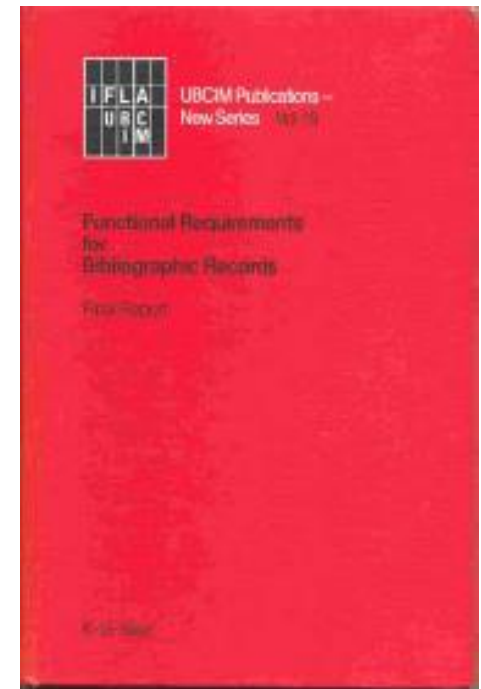
The FRBR and FRAD models provide RDA with an underlying framework that has the scope needed to support

**comprehensive** coverage of **all types** of content and media,  
the **flexibility** and **extensibility** needed to accommodate newly emerging resource characteristics,  
and the **adaptability** needed for the data produced to function within a wide range of technological environments.



# FRBR + FRAD

- IFLA task forces
- world-wide consultation
- international consensus
- based on the analysis of bibliographic and authority records



# FRBR + FRAD

## ➤ entity-relationship models

3 components:

- entities = “key objects of interest”  
entities of interest to those who use bibliographic and authority data
- attributes = characteristics of entities
- relationships = relationships between entities

# FRBR/FRAD Bibliographic entities

work  
expression  
manifestation  
item

---

person  
family  
corporate body

---

concept  
object  
event  
place

## FRBR Group 1

products of intellectual or  
artistic endeavor

## FRBR/FRAD Group 2

responsible for group 1 entities

## FRBR Group 3

subjects (includes group 1 & 2)

# Attributes & Relationships

- attributes of entities = characteristics

e.g. entity = a manifestation

attributes we record: title proper  
statement of responsibility  
edition statement  
place of publication  
etc.

- relationships between entities

e.g. *person* author of *work*  
*work A* adaptation of *work B*

# Group 1 entities

- work = a distinct intellectual or artistic creation
- expression = intellectual or artistic 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
- manifestation = physical embodiment of an expression of a work
- item = single exemplar or instance of a manifestation

# Group 1 entities

work

*is realized through*

expression

*is embodied in*

manifestation

*is exemplified by*

item

*FRBR 3.1.1*

# Example of Group 1 entities

**w** = idea for Hamlet story (in Shakespeare's head)

*is realized through*

**e** = original English text as he wrote it

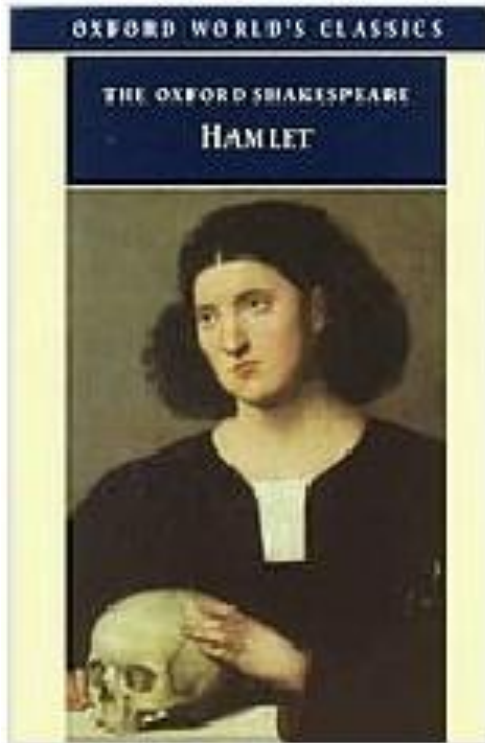
*is embodied in*

**m** = published in Oxford by Oxford University Press in 1998

*is exemplified by*

**i** = copy owned by McGill with  
barcode no. 3102930136A

# 4 entities – 1 resource



- an item
- an exemplar of the Oxford 1998 manifestation
- an embodiment of the original English expression
- a realization of the work, Hamlet

***4 aspects – each has its use***



# As a user ...

- I need to know Shakespeare's play Hamlet for an exam  
*I need to find the work*
- I need to read Hamlet, and my mother tongue is French, so I want a French translation of Hamlet  
*I need to find a particular expression*
- Our professor said we have to buy the 1998 Oxford publication in print  
*I need a particular manifestation*
- I need the copy I borrowed before because I accidentally jotted down a phone number on the back cover  
*I need a particular item*

# As library staff ...

- we build our collections by selecting **manifestations** that we want to buy
- we select manifestations mostly for the **expression** that the manifestation embodies; also for manifestation attributes such as the type of carrier (*e.g. print volume or online resource*)
- our bibliographic records are records for **manifestations**
- we buy, receive, label, barcode and loan **items** that are exemplars of the manifestation
- our subject headings are for the **work** or **expression**
- uniform titles bring together manifestations of the same **work** or **expression**

# FRBR/FRAD and RDA

# Organization and Structure of RDA

- 2 main parts

  - Recording attributes

  - sections 1-4*

  - Recording relationships

  - sections 5-10*

- Divided into 10 sections

  - sections are organized according to the bibliographic entities

# Organization and Structure of RDA

## *Section 1-4 = Recording attributes*

*Section 1.* Recording attributes of **manifestation** and **item**

*Section 2.* Recording attributes of **work** and **expression**

*Section 3.* Recording attributes of **person**, **family**, and  
**corporate body**

*Section 4.* Recording attributes of **concept**, **object**, **event**, and  
**place** [placeholder]

# Organization and Structure of RDA

## *Sections 5-10 = Recording Relationships*

- Section 5.* Recording primary relationships between **work**, **expression**, **manifestation**, and **item**
- Section 6.* Recording relationships to **persons**, **families**, and **corporate bodies** associated with a resource
- Section 7.* Recording the subject of a work [placeholder]
- Section 8.* Recording relationships between **works**, **expressions**, **manifestations**, and **items**
- Section 9.* Recording relationships between **persons**, **families**, and **corporate bodies**
- Section 10.* Recording relationships between **concepts**, **objects**, **events**, and **places** [placeholder]

# RDA Section 1

- each chapter associated with a **user task**

*Chapter 1:* General guidelines on recording attributes of manifestations and items

*Chapter 2:* Identifying manifestations and items  
*User task = Identify*

*Chapter 3:* Describing carriers  
*User task = Select*

*Chapter 4:* Providing acquisition and access information  
*User task = Obtain*

# RDA Section 2

- Chapter 5:* General guidelines on recording attributes of works and expressions
- Chapter 6:* Identifying works and expressions  
*User task = Identify*
- Chapter 7:* Describing content  
*User task = Select*



020 \$a 0521361834

-

de et de, \$d 1689-1755

240 10 \$a De l'esprit des lois. \$l English

245 14 \$a The spirit of the laws / \$c Montesquieu ; translated and edited by Anne M. Cohler, Basia Carolyn Miller, Harold Samuel Stone.

260 \$a Cambridge ; \$a New York : \$b Cambridge University Press, \$c 1989

300 \$a xlvii, 757 p. : \$b ill. ; \$c 22 cm.

500 \$a Translation of: De l'esprit des lois.

561 \$a From the collection of A.B. Smith. \$5 CaQMM

650 0 \$a Political science

650 0 \$a State, The

650 0 \$a Law \$x Philosophy

700 1 \$a Cohler, Anne M.

700 1 \$a Miller, Basia Carolyn.

700 1 \$a Stone, Harold Samuel, |d 1949

**manifestation** identifier

person: relationship to work

\$a = **work**    \$l = **expression**

**manifestation**

**manifestation**

**manifestation**

**expression**

**item**

concept

person

“realized by” relationship to this expression

# Bibliographic entities

- we are used to recording this type of information
- **what is new:**
  - distinguish between different types of information
  - define the types of information
  - use new terminology
  - new underlying theoretical framework that provides logical consistency

# Bibliographic entities

- what is new:
  - FRBR/FRAD model provides the basis for a logical and consistent theoretical framework
  - basis for a careful mapping that distinguishes between information about **content** and information about the **carrier**
  - FRBR/FRAD model also the basis for the definition of “**core elements**”

# Core elements

- not a level of description (AACR2 had 3 levels)
- core elements are a minimum *“a floor, not a ceiling”*
- a **subset** of elements that support the most important user tasks
  - tasks that the FRBR and FRAD models demonstrated to be most important
- must include any additional elements required to differentiate the resource or entity from a similar one
- inclusion of other elements is discretionary

# RDA

# Using RDA

Section 1 = start with the manifestation, as we  
have always done  
record similar data

- What has changed:
- vocabulary and concepts
  - different way of thinking about data
  - some changed instructions
  - some new instructions

# New vocabulary and concepts

# Vocabulary

- work = a distinct intellectual or artistic creation
- expression = intellectual or artistic 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
- manifestation = physical embodiment of an expression of a work
- item = single exemplar or instance of a manifestation



# Vocabulary

## **RDA**

creator – person, family or corporate body

authorized access point

preferred source of information

type of carrier

variant access point

preferred access point for a work or expression

## **AACR2**

author – see personal author

heading

chief / prescribed source of information

smd – specific mat. designation

reference

[ uniform title  
name-title added entry  
main entry (1XX/240 & 1XX/245)

# New vocabulary and concepts

## AACR2

1.5B. Extent of Item (including Specific Material Designation)

1.5B1. Record the extent of the item by giving the number of physical units in arabic numerals and the specific material designation as instructed in subrule .5B in the chapter dealing with the type of material to which the item belongs.

## RDA

3.4.1.3 Recording Extent

Record the extent of the resource by giving the number of units and an appropriate term for the type of carrier as listed under

3.3.1.3. ...

# Almost identical, but ...

- numerals and internationalization (RDA 0.11.3)
- no more gmds and smds -- different way of categorizing types of content, types of media and types of carriers
- concept of “class of material” is gone
- consistent set of general rules that apply to all resources, followed by special rules only when needed
- no longer use abbreviations for extent

***AACR2***

213 p.

***RDA***

213 pages

# New structure for the instructions

- new framework – new organization of the instructions
- careful separation of content and carrier

*carrier*                      *recording attributes of manifestation  
and items*

*content*                      *recording attributes of work and  
expression*

# Content and carrier

## AACR2 1.5B continued

1.5B4. If the item being described has a playing time, give that playing time as follows. ...

## RDA

**7.22 Duration** *in chapter: Describing Content*

7.22.1.3 Playing Time, Running Time, Etc.

If the resource has a playing time, running time, etc., record the time as follows, abbreviating terms for units of time as instructed in appendix B

# Almost identical, but ...

RDA: rigorous separation of content and carrier:

AACR2: extent = 1 sound cassette (40 min.)  
*content and carrier information together*

RDA: extent of carrier = 1 audiocassette                      chap. 3  
duration of content = 40 min.                                      chap. 7  
*careful separation of content and carrier  
information*

# Different way of thinking about data

# Elements as data elements

## RDA definition

**element** = A word, character, or group of words and/or characters representing a distinct unit of bibliographic information.

## AACR2 definition

**element** = A word, phrase, or group of characters representing a distinct unit of bibliographic information **and forming part of an area of the description**



# RDA elements = data elements



move away from:

- paragraph style (ISBD areas)
- data embedded in long character strings
- data stored in ambiguous elements



move towards:

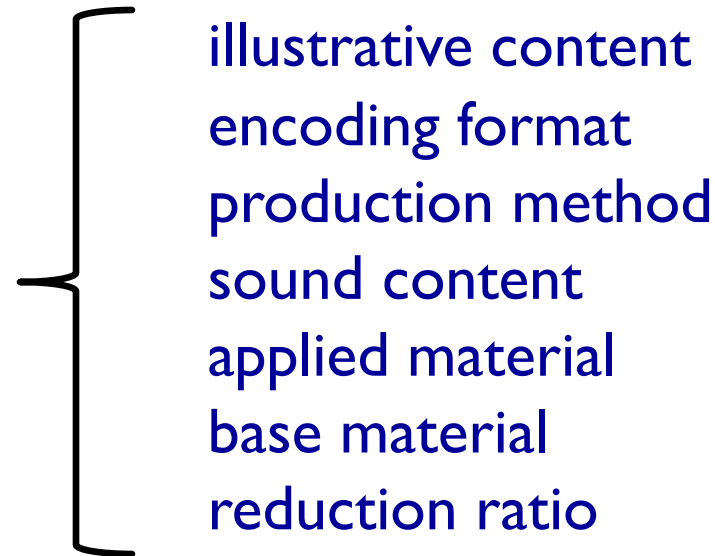
- independent, separate units of data
- precisely defined or “parsed”
- each element contains data about  
a single attribute  
*or* a single relationship
- increased use of controlled vocabulary

# Elements in AACR2

AACR2: information embedded in “other physical details” (or a non-specific note)

other physical  
details

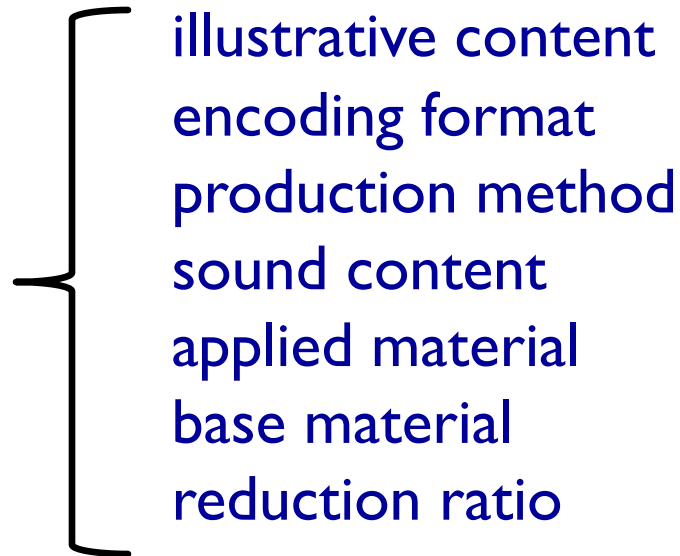
MARC 300 \$b



# Elements in RDA

defined and distinct elements for each kind of data

different element  
for each type of  
data



# Elements in RDA

- **separated** according to whether it is data about

content

*or*

carrier

illustrative content

sound content

encoding format

production method

applied material

base material

reduction ratio

- **controlled vocabulary** recommended for many elements

encoding format: DAISY, MPS, Excel, XML, JPEG, PDF, Blu-Ray

base material: Bristol board, canvas, cardboard, ceramic, glass ...

# Elements in RDA

**AACR2:** date of publication, distribution, etc.

**MARC 21:** 260 \$c

**RDA:** 4 different elements:

date of production

date of publication

date of distribution

date of copyright

day 1 of implementation -- will not see this degree of precision

all 4 RDA elements map to 260 \$c

# Elements in RDA

**AACR2:** dissertation or thesis information in note

**RDA** dissertation or thesis information

3 different elements:

academic degree

granting institution or faculty

year degree granted

**MARC 21:** 502 \$ b \$c \$d

day 1 of implementation – will be able to have this degree of precision

502 subfields already defined and implemented

# Instructions generalized

# Instructions are generalized

- instructions are applicable to all resources
- when specialized instructions are required, they follow after the general instructions
- no separate chapter for serials and integrating resources

AACR2

chapter 12

continuing resources

RDA

integrated

mode of issuance



# Mode of issuance

## RDA 2.13 Mode of issuance

Mode of issuance is a categorization reflecting whether a resource is issued in one or more parts, the way it is updated, and its intended termination.

single unit

multipart monograph

serial

integrating resource

➤ mode of issuance applies to **all** resources

# General followed by specific

**RDA 2.3.1.4** Transcribe a title as it appears  
on the source of information

*Optional omissions ...*

*Exceptions*

When transcribing the title proper of a serial or integrating resource, correct obvious typographic errors, and make a note giving the title as it appears on the source of information.

# General followed by specific

- 3: Describing Carriers
  - 3.0 Purpose and Scope
  - + 3.1 General Guidelines on Describing Carriers
  - + 3.2 Media Type
  - + 3.3 Carrier Type
  - 3.4 Extent
    - + 3.4.1 Basic Instructions on Recording Extent
    - + 3.4.2 Extent of Cartographic Resource
    - + 3.4.3 Extent of Notated Music
    - + 3.4.4 Extent of Still Image
    - + 3.4.5 Extent of Text
    - + 3.4.6 Extent of Three-Dimensional Form
  - + 3.5 Dimensions
  - + 3.6 Base Material

# Changed instructions

---

# Changed instructions

- changed because of omissions

e.g.            many instructions are similar except that  
                  you take what you see

transcription:            follow principle of  
                                  representation

# Similar but changed

## **AACR2 1.2B1.**

Transcribe the edition statement as found on the item. Use abbreviations as instructed in appendix B and numerals as instructed in appendix C.

## **RDA 2.5.1.4.**

Transcribe an edition statement as it appears on the source of information.

*No instruction to abbreviate.*

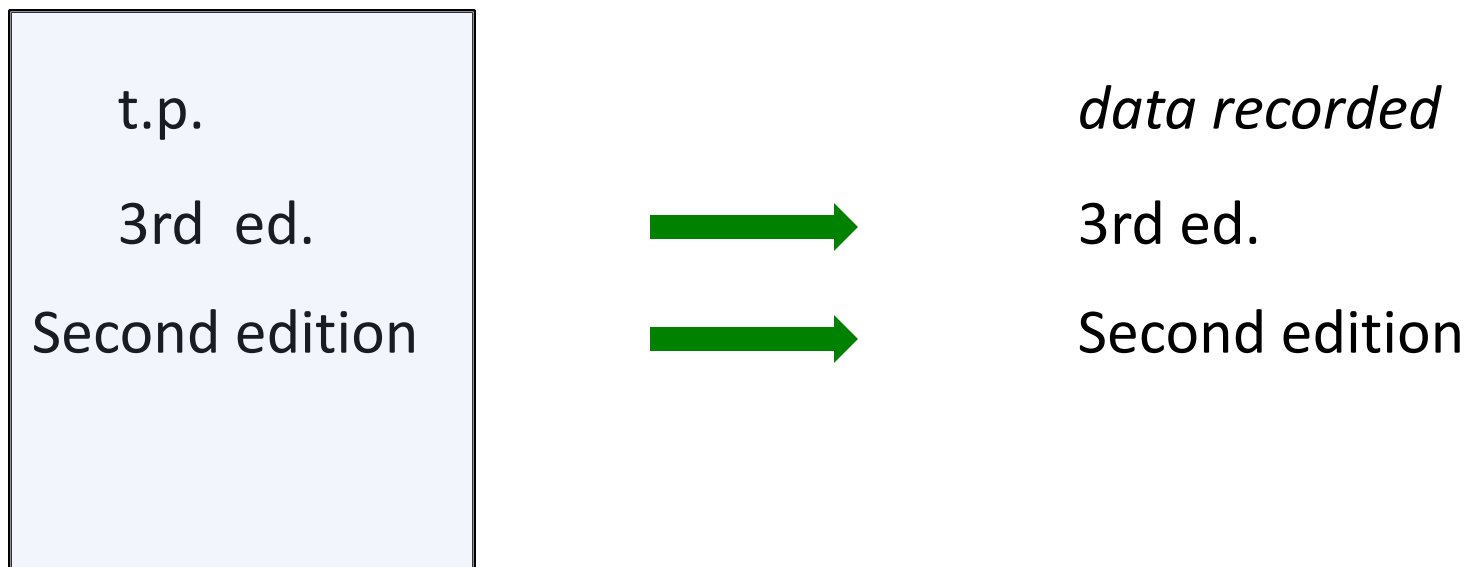
*No instruction to substitute with arabic numerals*

# Similar but changed

## Appendix B Abbreviations

### B.4 Transcribed elements

For transcribed elements, use **only** those abbreviations **found in the sources of information** for the element.



# Changed instructions

- record what you see when recording attributes of manifestations
    - e.g. do not abbreviate place of publication or publisher
    - e.g. more than one place of publication, record in the order indicated by the sequence, layout, or typography
  - no more cryptic Latin abbreviations
    - e.g. [S.l.] and [s.n.] are gone
- record:      Place of publication not identified  
                 publisher not identified



# Changed instructions

- preferred sources of information defined more broadly

e.g. **AACR2** : if statement of responsibility is not on the chief source of information, even if it comes from another source in the resource, it has to be recorded in square brackets

## **RDA:** 2.4.2.2 Sources of Information

Take statements of responsibility relating to title proper from the following sources (in order of preference):

- a) the same source as the title proper
- b) another source within the resource itself
- c) one of the other sources of information specified under 2.2.4

*would only use square brackets for c)*

# Changed instructions

## AACR2 1.0F Inaccuracies

In an area where transcription from the item is required, transcribe an inaccuracy or a misspelled word as it appears in the item. Follow such an inaccuracy either by [sic] or by i.e. and the correction within square brackets. Supply a missing letter or letters in square brackets.

*Source:* The wolrd of television

*Record title proper:* The wolrd [sic] of television

or The wolrd [i.e. world] of television

# Changed instructions

- take what you see :

## **RDA 1.7.9 Inaccuracies**

When instructed to transcribe an element as it appears on the source of information, transcribe an inaccuracy or a misspelled word as it appears on the source, except where instructed otherwise.

*Source:* The wolrd of television

*Record title proper:* The wolrd of television

*Record variant title:* The world of television

# New elements and instructions

# New elements to record

- over 300 precise data elements
- **new** elements because data is parsed more finely  
e.g. separate elements for playing speed, font size, sound content, production method ...
- **new** elements that correspond to the attributes and relationships mapped in the FRBR/FRAD models
- **new** elements because of the digital environment

# Systematic organization

- recording attributes of works and expressions
  - distinct from attributes of manifestation and item
  - some of this data was in AACR2, but not with clear categories
  - elements organized according to FRBR entities and FRBR attributes:

form of the work 380 \$a

date of the work 046 \$k \$l

place of origin of the work 370 \$g

other distinguishing characteristic of the work

other distinguishing characteristic of the expression

381 \$a

# Access to works and expressions

- constructing access points to **represent** works and expressions

- core elements:

When recording primary relationships between work, expression, manifestation, and item, include **as a minimum the work manifested**. If there is more than one expression of the work, record the expression manifested.

- step 1 = describing the manifestation
- step 2 = identifying the work (and expression)

# More accuracy

## ■ compilations

**AACR2**      • main entry for some compilations = first work in the compilation

**RDA**      • do not “name” the resource based on the first work  
             • access point for each work  
             • option to create a devised title

**aim:** accurate representation of the content



# Example from LC test documentation

**AACR2:** 100 1 \$a Polk, Sharon.  
240 10 \$a Community band concerts  
245 10 \$a Community band concerts / \$c Sharon Polk. Fall harvest festivals / Terri Swanson.  
700 12 \$a Swanson, Terri. \$t Fall harvest festivals

**RDA:** 245 00 \$a Community band concerts / \$c Sharon Polk.  
Fall harvest festivals / Terri Swanson.  
700 12 \$a Polk, Sharon. \$t Community band concerts.  
700 12 \$a Swanson, Terri. \$t Fall harvest festivals

**OR** 245 00 \$a [Two United States Midwest memoirs]  
505 0 \$a Community band concerts / Sharon Polk -- Fall harvest festivals / Terri Swanson.  
700 12 \$a Polk, Sharon. \$t Community band concerts.  
700 12 \$a Swanson, Terri. \$t Fall harvest festivals.

# Representing expressions

- a resource that contains multiple expressions in different languages: access point for the expressions must be precise



access points constructed with 2 languages or “Polyglot” no longer provide effective access in an automated environment

AACR2

Aesop’s fables. Polyglot.

RDA

Aesop’s fables. Greek

Aesop’s fables. Latin

Aesop’s fables. English

Aesop’s fables. German

# Representing expressions

- constructing access points for expressions

## **RDA 6.27.3**

Construct an access point representing a particular expression of a work or a part or parts of a work by adding to the authorized access point representing the work ... or the part or parts ..., as applicable:

- a) a term indicating content type
- b) the date of the expression
- c) a term indicating the language of the expression  
and/or
- d) a term indicating another distinguishing characteristic of the expression

# Representing expressions

*Resource described:* Babar and his children. *An audio recording of an English translation of the children's story*

Access point for the expression:

Brunhoff, Jean de, 1899–1937. Babar en famille. English. Spoken word

MARC 21 coding (*from LC test documentation*)

*authority record*

100 1# \$a Brunhoff, Jean de, \$d 1899-1937. \$t Babar en famille. \$l English. \$h  
Spoken word

*bibliographic record*

100 1# \$a Brunhoff, Jean de, \$d 1899-1937.

240 10 \$a Babar en famille. \$l English. \$h Spoken word

# New instructions

- recording attributes for the digital environment

RDA 4.6 uniform resource locator

RDA 3.19 digital file characteristic      file type  
encoding format  
file size  
resolution ...

RDA 1.7 Alternative

If data are derived from a digital source of information using an automated scanning, copying, or downloading process (e.g., by harvesting embedded metadata or automatically generating metadata), transcribe the element as it appears on the source of information, without modification.

# New elements for content + carrier

AACR2's gmds

can use only 1

categorization is mixed  
and inconsistent

RDA's categorization of  
content and carrier

3 elements

content type

media type

carrier type

precise and consistent  
categorization

# Categorization of Content & Carrier

consists of three elements:

content type



media type

carrier type



- can use as many of each type as needed
- can use in any combination
- each element has a set of controlled vocabulary
- clear distinction between content and carrier

# Categorization of Content & Carrier

content type

notated music  
performed music  
still image  
spoken word  
text ...

media type

audio  
microform  
unmediated ...

carrier type

audio cartridge  
audio disc  
audiocassette ...



# RDA = content standard

**RDA =** content standard  
what data do I record and why

- record the data



RDA is not a display standard

- data can be used to create different displays of information for the user
  - map to a “type”
  - map to an icon
  - map to different vocabularies for different audiences
  - map to terminology in different languages

# Categorization of Content & Carrier

## book

**Content** type = text

**Media** type = unmediated

**Carrier** type = volume



## music CD

**Content** type = performed music

**Media** type = audio

**Media** type = computer

**Carrier** type = audio disc

**Carrier** type = computer disc



# Categorization of Content & Carrier

## web page

**Content** type = text

**Media** type = computer

**Carrier** type = online resource



## online video

**Content** type = two dimensional moving image

**Media** type = computer

**Carrier** type = online resource



# AACR2

# RDA

[cartographic material]

cartographic image  
unmediated  
sheet

[microform]

cartographic image  
microform  
microfiche

[electronic resource]

cartographic image  
computer  
online resource

# AACR2

[electronic resource]

[electronic resource]

# RDA

text

computer

online resource

text, two-dimensional moving  
image, performed music,  
cartographic image

computer

online resource

# RDA in MARC 21

**RDA:** cartographic image  
unmediated  
sheet

336 \$a cartographic image \$2 rdacontent

337 \$a unmediated \$2 rdamedia

338 \$a sheet \$2 rdacarrier

**RDA:** text, two-dimensional moving image, performed music,  
cartographic image  
computer  
online resource

336 \$a text \$a two-dimensional moving image \$a performed music \$a  
cartographic image \$2 rdacontent

337 \$a computer \$2 rdamedia

338 \$a online resource \$2 rdacarrier

# Extensible categorization

- record attributes of the resource
- record as many as needed
- new combinations for new types of resources
- no “class of material” concept limiting which elements can be used
  
- record the data and then map to a display for the user
- change terminology? data remains as is but map to another display

# RDA: comprehensive, flexible and extensible framework

- RDA's underlying framework enables RDA to meet three key objectives:
  - comprehensive coverage of **all types** of content and media,
  - the **flexibility** and **extensibility** needed to accommodate newly emerging resource characteristics,
  - and the **adaptability** needed for the data produced to function within a wide range of technological environments
- FRBR and FRAD models provide RDA with this underlying framework



# RDA



some reworked AACR2 rules



new framework



new concepts



new vocabulary



some new instructions



some changed instructions

# Questions

Thank you.

Ready for group 2 entities?

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