

An Introduction to FRBR, RDA, and Library Linked Data



# INFORMATION ORGANIZATION MOVES INTO THE 21<sup>ST</sup> CENTURY

Guest lecture, LIS5703, Dr. Michelle Kazmer  
FSU College of Information, October 26, 2011

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## 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

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# Functional Requirements of Bibliographic Records (FRBR)

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***Functional Requirements for  
Bibliographic Records: Final Report /***  
IFLA (International Federation of Library  
Associations and Institutions) Study Group on  
the Functional Requirements for Bibliographic  
Records. -- 1998.

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### Objectives of the Final Report 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

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## Entity-Relationship Model

Entity

Attributes

Values

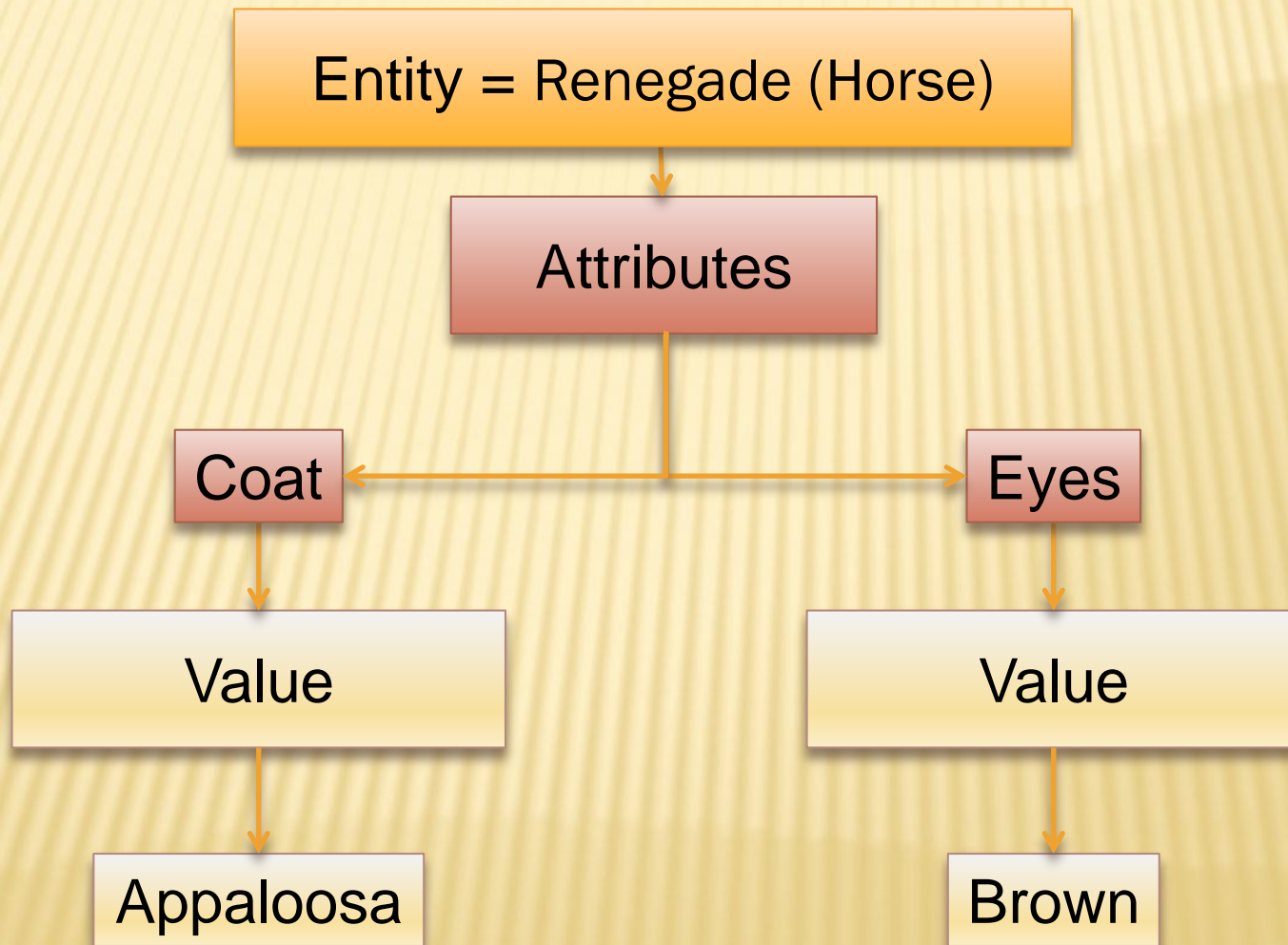
Expression

Item

Work

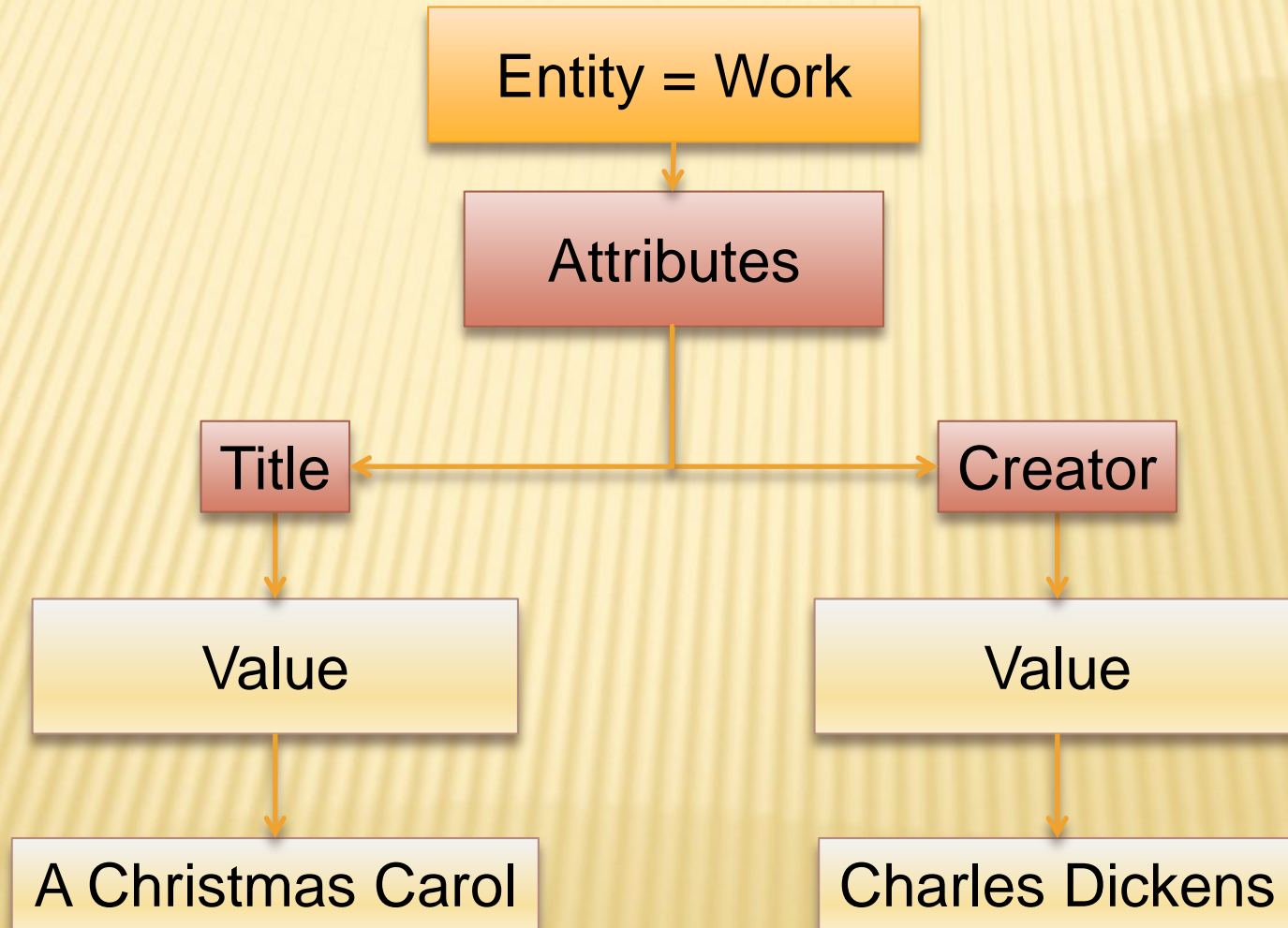
Manifestation

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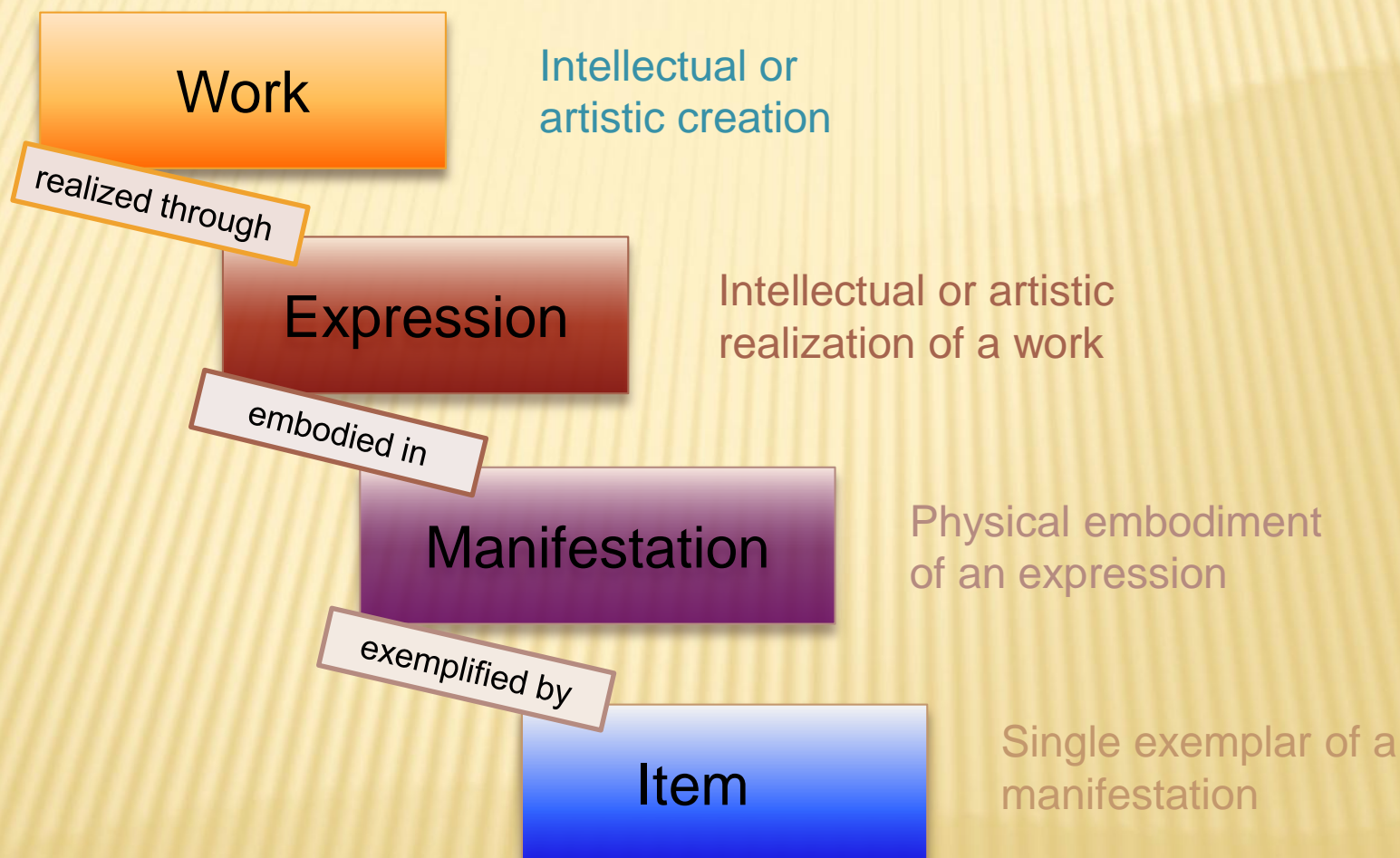


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## Group One Entities



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## Group One Entities

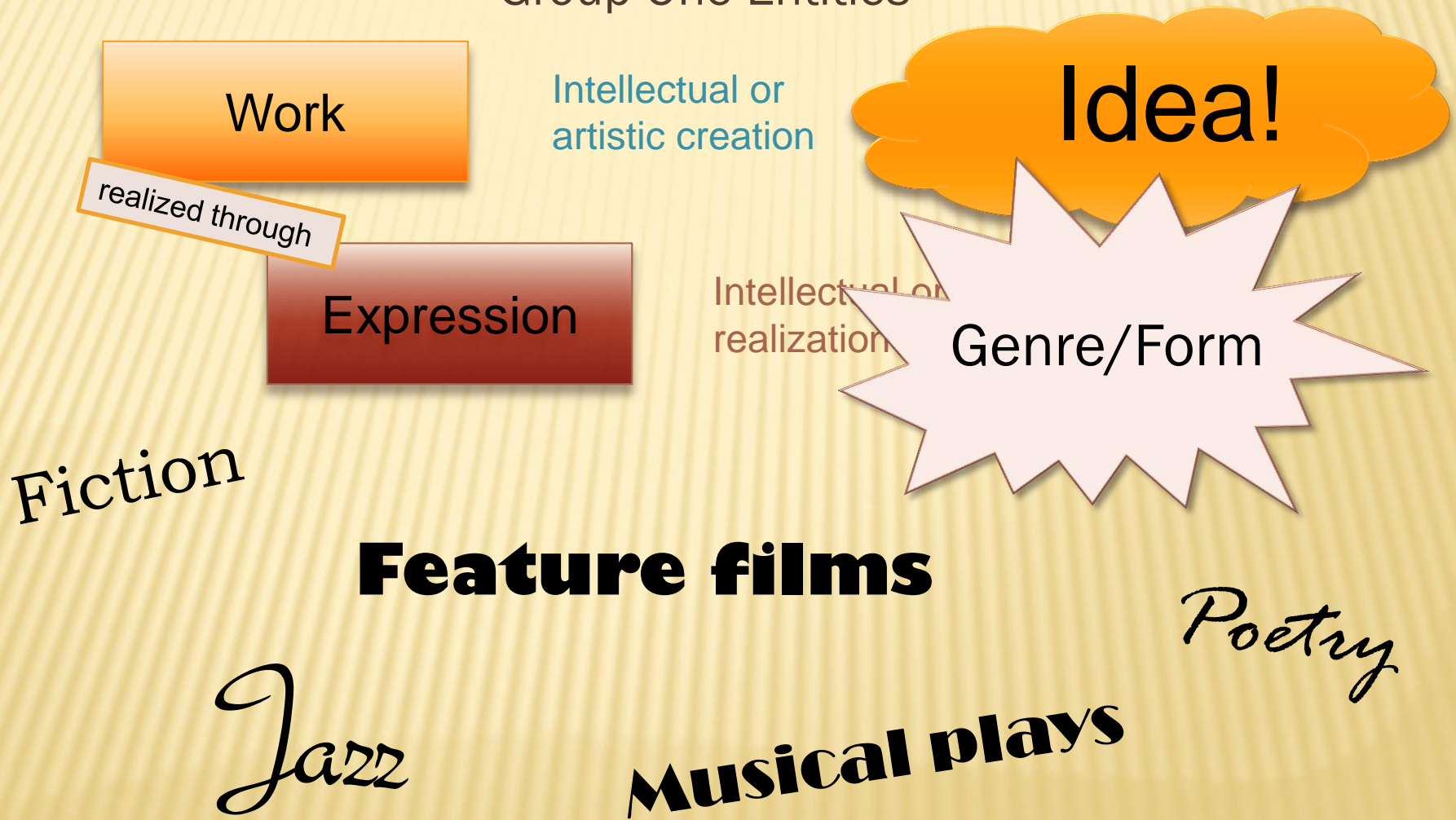
Work

Intellectual or  
artistic creation

Idea!

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## Group One Entities



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## Group One Entities

Work

Intellectual or  
artistic creation

Idea!

realized through

Expression

Intellectual or  
realization

Edition

2nd edition

**Extended version**

*French translation*

*Performed by Nat King Cole*

**Broadway cast**

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## Group One Entities



Print : Hardcover (356 pages) ; 32 cm

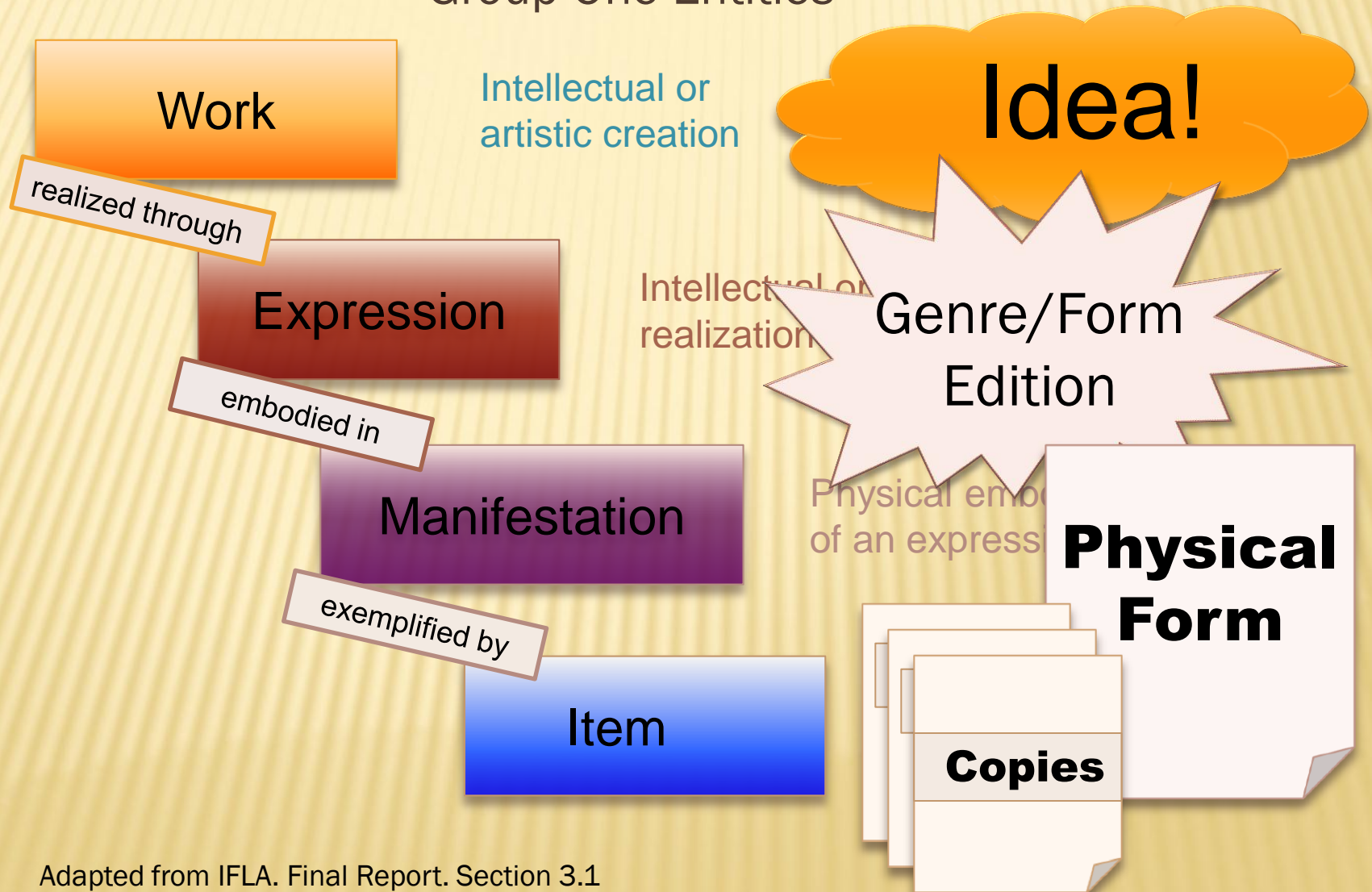
Print : Paperback (233 pages) ; 21 cm

Digital (PDF) : CD-ROM

Digital (HTML) : Online

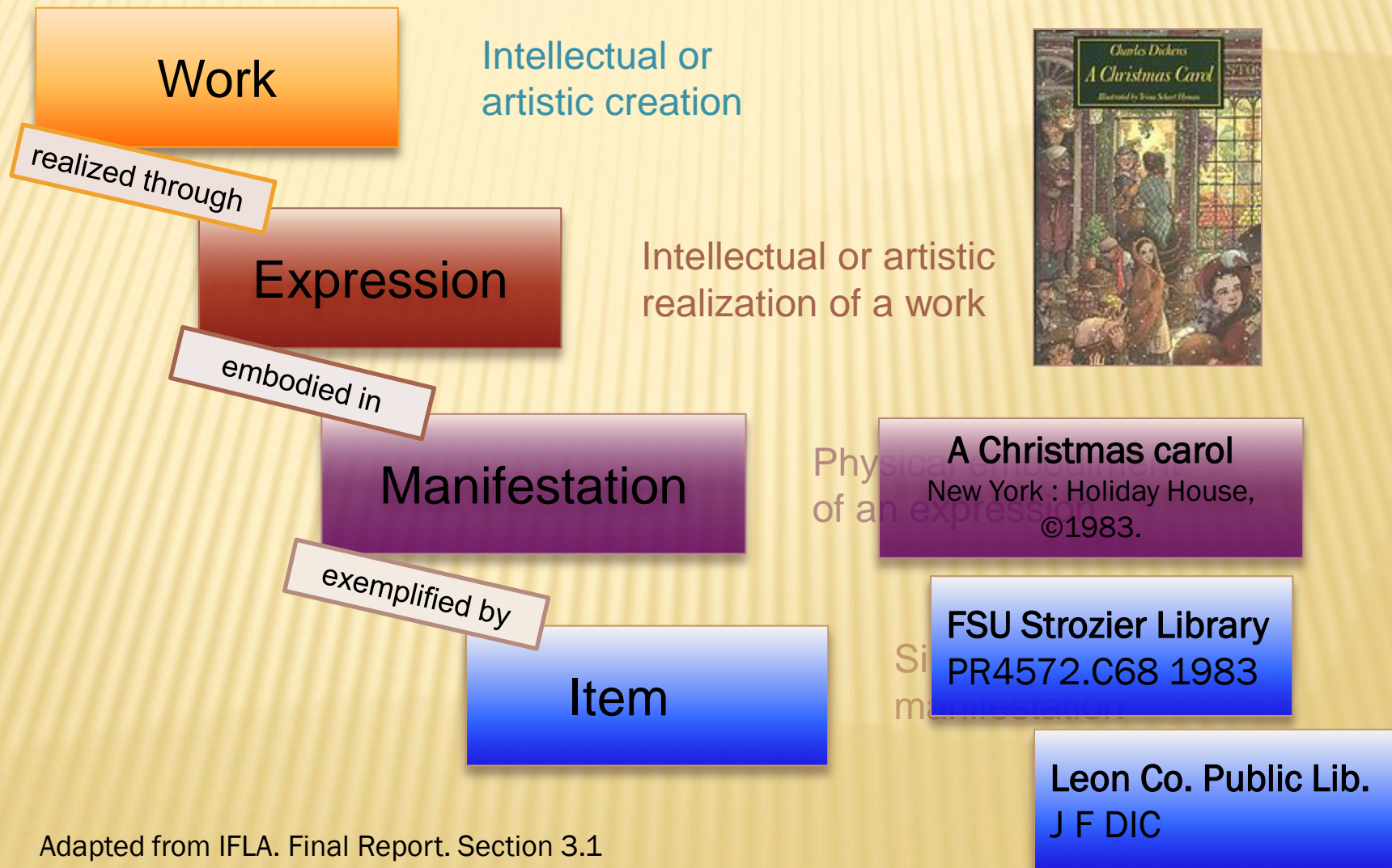
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## Group One Entities



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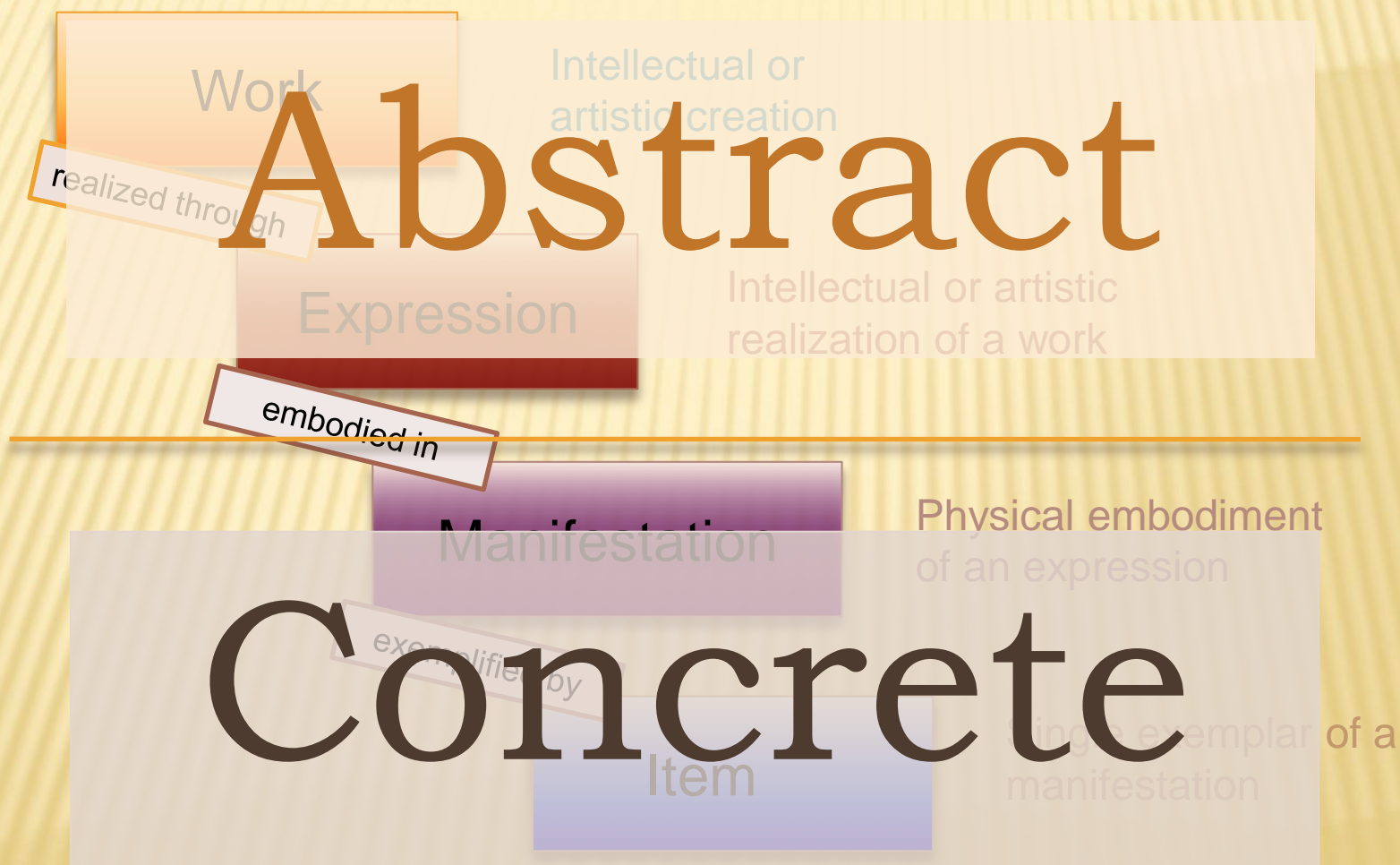
## Group One Entities





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## Group One Entities



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## Group Two Entities

**Person**

an individual

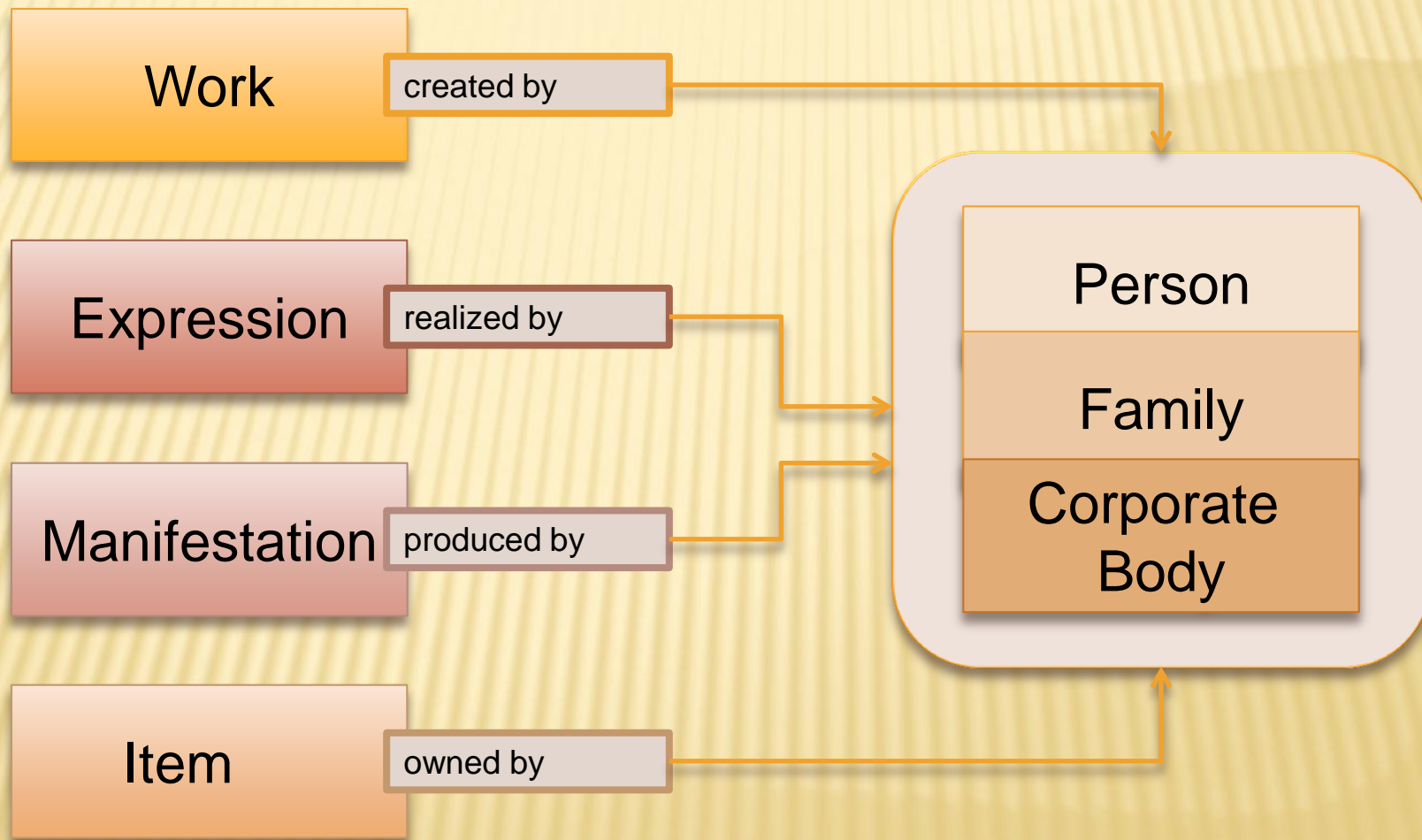
**Family**

A group of related  
persons

**Corporate  
Body**

an organization or group of  
individuals and/or organizations

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## Group Three Entities

**Concept**

an abstract notion  
or idea

**Object**

a material thing

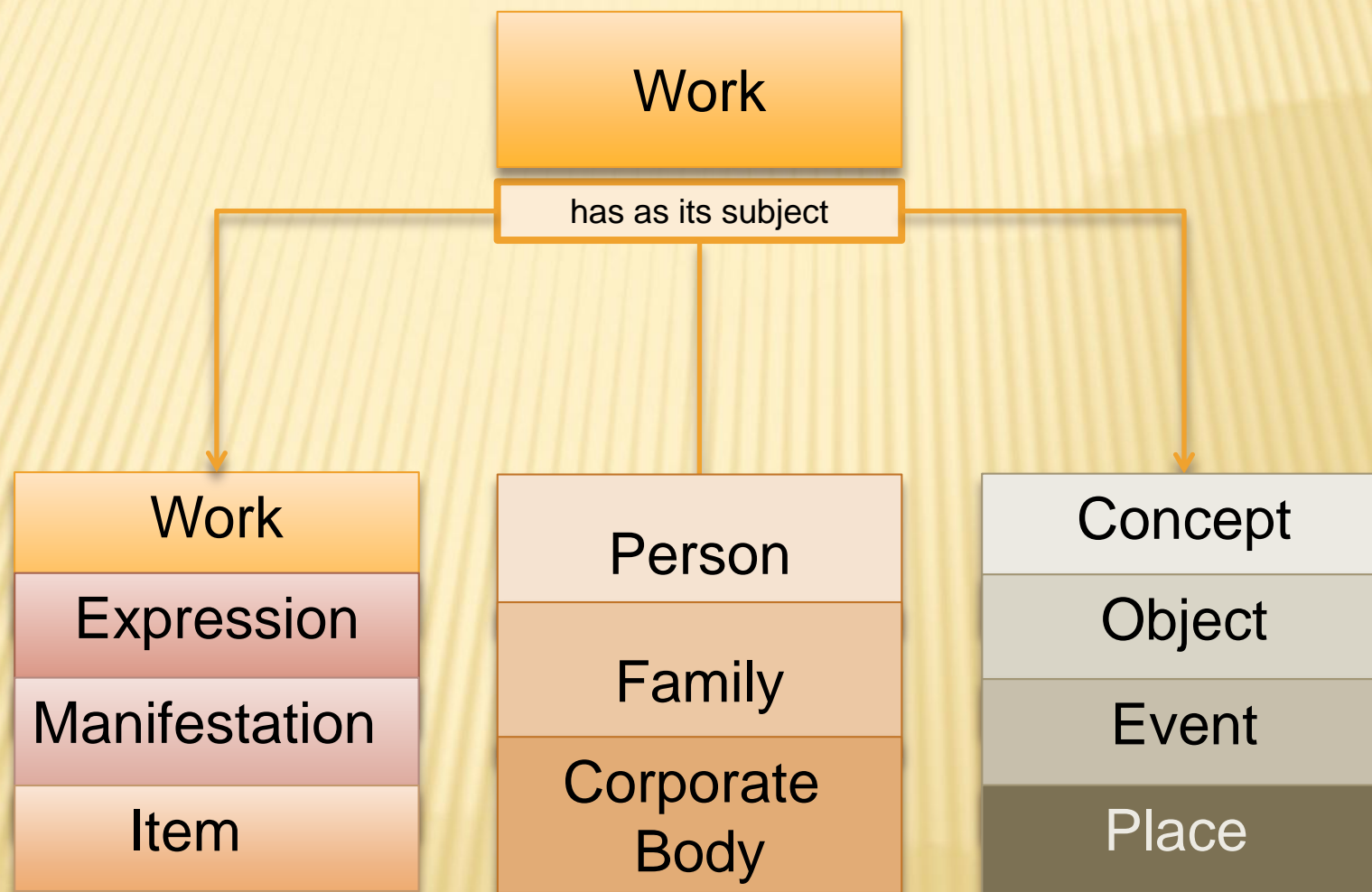
**Event**

an action or occurrence

**Place**

a location

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# Resource Description and Access

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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:
  - ▶ Full implementation by Library of Congress no earlier than January 1, 2013
  - ▶ RDA records in OCLC: ~31,900; in FSU Aleph: ~350

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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, replaced



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## AACR2 Part 1 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

## RDA is based FRBR

### 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.

**Physical description:** 166 p.,  
[4] leaves of plates : ill.  
(some col.) ; 17 cm.

**Language:** English

**Entity:** Person; **Role:** Creator; **Value:**  
Dickens, Charles, 1812-1870

**Entity:** Work; **Element:** Preferred title;  
**Value:** Christmas carol

**Entity:** Work; **Element:** Title; **Value:** A  
Christmas carol : in prose ; being a  
ghost story of Christmas

**Entity:** Expression; **Element:** Language;  
**Value:** English

**Entity:** Manifestation; **Element:**  
Publisher name; **Value:** Chapman &  
Hall

**Entity:** Manifestation; **Element:** Extent;  
**Value:** 166 pages, 4 unnumbered  
leaves of plates

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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
- ▶ “Take what you see, accept what you get.”
  - ▶ Less abbreviations and truncation, less stringent capitalization rules

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How will RDA impact public catalogs?

- ▶ Searching in FSU Mango
  - ▶ More name headings, no more “Rule of Three”
- ▶ Display in FSU Mango
  - ▶ “pages” and “illustrations”
  - ▶ “cm” is a symbol, not an abbreviation
  - ▶ “©” instead of “c” in front of copyright year
  - ▶ Full stops after abbreviations: “1<sup>st</sup> ed..”

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## AACR2 Record in Mango

**Title:** The Nature and **future** of the **catalog** : proceedings of the ALA's Information Science and Automation Division's 1975 and 1977 institutes on the **catalog**  
edited by Maurice J. Freedman and S. Michael Malinconico.

**Published:** Phoenix, AZ : Oryx Press, 1979.

**Description:** xvi, 317 p. : ill. ; 24 cm.

**Notes:** "A Neal-Schuman professional book."  
Includes bibliographical references and index.

**ISBN:** 0912700084 :

**Subjects, general:** **Cataloging** -- Congresses  
Libraries -- Automation -- Congresses  
Library **catalogs** -- Congresses

**Subjects, medical:** **Cataloging** -- congresses  
**Catalogs**, Library -- congresses

**Other author(s), etc:** American Library Association Information Science and Automation Division  
Freedman, Maurice J.  
Malinconico, S. Michael

**Format:** Book

The Nature  
and Future of  
The Catalog:  
Proceedings of the  
ALA's Information Science  
and Automation Division's  
1975 and 1977 Institutes

more info @  
Google™

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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



preview @  
Google™

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## Library Linked Data

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1. Title and Statement of responsibility	Personal names	Corporate names	Meeting names	
2. Edition statement				
3. Material specific designation				
4. Publication, etc.	Series titles	Uniform titles	Titles	
5. Physical description				
6. Series statement				
7. Notes	Topical	Geographic	Names	Titles
8. Numbers and terms of availability				
Subjects				



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245 \$a [Title] / \$c [Statement of responsibility]	100 [Name] 700 [Name]	110 [Corporate name] 710 [Corporate name]	111 [Meeting name] 711 [Meeting name]
250 \$a [Edition statement]			
245 \$h [Material specific designation]			
260 \$a [Publication place] : \$b [Publisher name], \$c [Publication date].	800 [Name/Series title] 810 [Corp. Name/ Series title] 830 [Series title]	130 [Uniform title] 730 [Uniform title]	
300 \$a [Extent] : \$b [Illustrative matter] ; \$c [Dimensions].			
490 \$a [Series statement]			
5xx \$a [Notes]. 546 \$a [Language note]. 504 \$a [Bibliography note]. 505 \$a [Contents note].	650 [Topical]	651 [Geographic]	600 [Name] 630 [Title]
0xx \$a [Numbers and coded data] 020 \$a [ISBN]			

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Call number: Z693.A15 N39  
Publication: Phoenix, AZ : Oryx Press, 1979.  
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  
**Published:** Media, PA : Information Associates, c1979.  
**Description:** 12 p. ; 22 cm.  
**Subjects, general:** Card catalogs.  
**Format:** BK  
**Material type:** <Book>

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Books Digital Collections Course Reserves

Basic Search  Search begins with (browse)  Advanced Search

Conversations with catalogers in the 21st Anywhere Search Start Over

Search: 'Conversations with catalogers in the 21st century' :

We found 6 matching items at FSU

Show 25 items that you can request statewide  (what's this?)

Did you mean [conversations with catalog in the 21st century?](#)

## Narrow Results By:

Books in the library

## Library/Collection

- STROZIER LIBRARY (5)
- GOLDSTEIN LIBRARY (1)

[show more...](#)

## Series Title

- Libraries Unlimited library management collection (1)

## Subject: Topic


- Art, Modern (2)
- History (2)
- Art, American (1)

[show more...](#)

## Author

- Ahuja, Sunil (1)
- Balkema, Annette W. (1)
- Blauvelt, Andrew 1964- (1)

[show more...](#)

 My Folder is empty

Results/page: 10 Sort By: Relevance



## 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"--



book

**GOLDSTEIN LIBRARY Professional**

Z693 .C65 2011

Due 1/4/12 10 PM  
Place a Hold

 add  print  email  txt  cite this  export

## 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

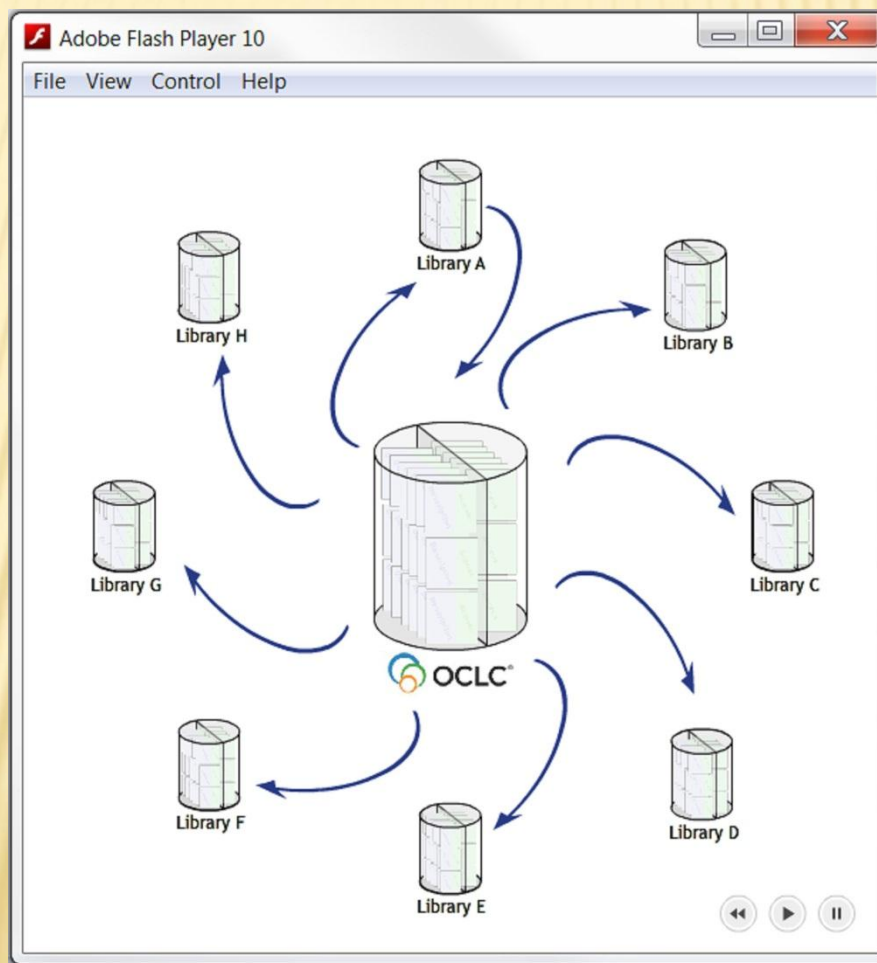


book

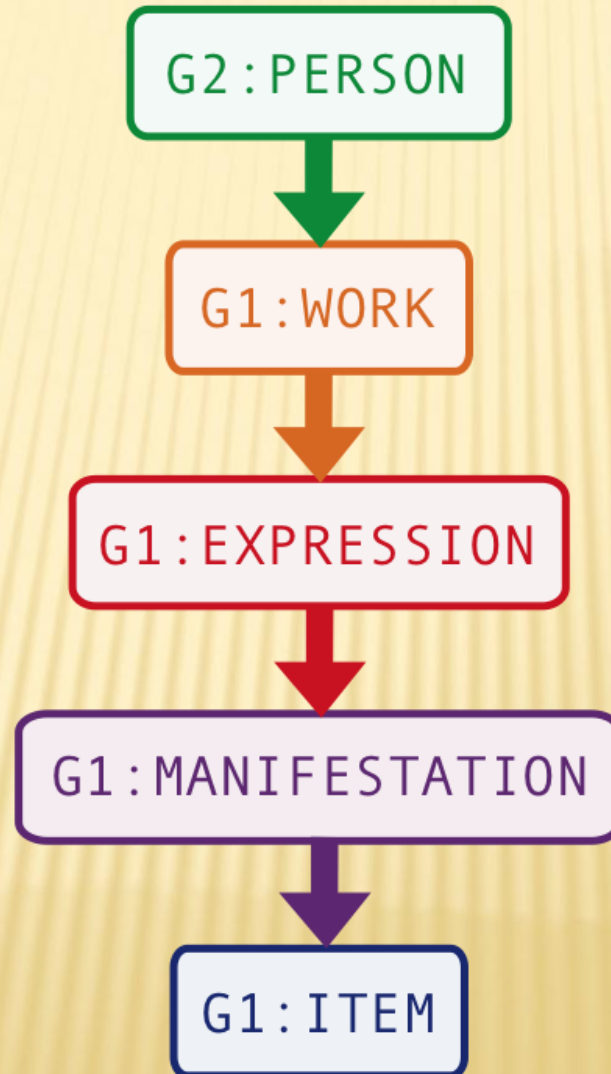


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## Boxed Data



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```
<frbr:Person>
  <rdaElement:idPerson uri= "[VALUE]" />
  <rdaElement:PreferredName>[VALUE]
</rdaElement:PreferredName>
  <rdaElement:AssociatedDate>
    <rdaSubelement:birthdate>[VALUE]
  </rdaSubelement:birthdate>
  </rdaElement:AssociatedDate>
</frbr:Person>
```

```
<frbr:Work>
  <rdaElement:idWork uri= "[VALUE]" />
  <rdaElement:PreferredTitle>[VALUE]
</rdaElement:PreferredTitle>
  <rdaElement:WorkCreator>
    <role:author>
      <rdaElement:idPerson uri= "[VALUE]" />
    </role:author>
  </rdaElement:WorkCreator>
</frbr:Work>
```

```
<frbr:Expression>
  <rdaElement:idExpression uri= "[VALUE]" />
  <link:idWork uri= "[VALUE]" />
  <rdaElement:Language>[VALUE]
</rdaElement:Language>
</frbr:Expression>
```

```
<frbr:Manifestation>
  <rdaElement:idManifestation uri= "[VALUE]" />
  <link:idExpression uri= "[VALUE]" />
  <rdaElement:TitleProper>[VALUE]
</rdaElement:TitleProper>
  <rdaElement:PublicationDate>[VALUE]
</rdaElement:PublicationDate>
  <rdaElement:Extent>[VALUE]
</rdaElement:Extent>
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```

```
<frbr:Item>
  <rdaElement:idItem uri= "[VALUE]" />
  <link:idManifestation uri= "[VALUE]" />
  <rdaElement:Location>[VALUE]
</rdaElement:Location>
  <rdaElement:Classification>[VALUE]
</rdaElement:Classification>
</frbr:Item>
```

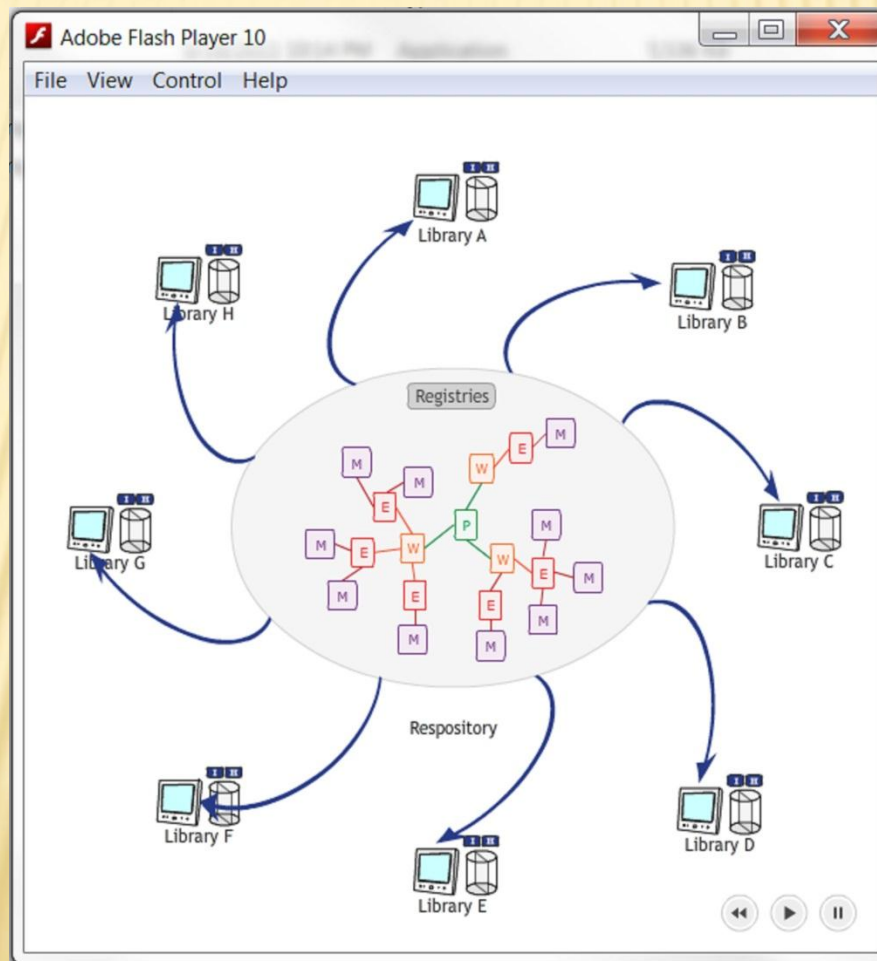
# INFORMATION ORGANIZATION MOVES INTO THE 21<sup>ST</sup> C.

```
<frbr:Person>  
  <rdaElement:idPerson uri= "[VALUE]" />  
  <rdaElement:PreferredName>[VALUE]  
  </rdaElement:PreferredName>  
  <rdaElement:AssociatedDate>  
    <rdaSubelement=birthdate>[VALUE]  
    </rdaSubelement=birthdate>  
  </rdaElement:AssociatedDate>  
</frbr:Person>
```

```
<frbr:Work>  
  <rdaElement:idWork uri= "[VALUE]" />  
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  </rdaElement:PreferredTitle>  
  <rdaElement:WorkCreator>  
    <role:author>  
      <rdaElement:idPerson uri= "[VALUE]" />  
    </role:author>  
  </rdaElement:WorkCreator>  
</frbr:Work>
```

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## Linked Data





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Please don't hesitate to contact me!

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FSU Libraries

[aglerum@fsu.edu](mailto:aglerum@fsu.edu)