



Resource Description and Access

Overview: History, Principles,
Conceptual Models

by Dr. Barbara B. Tillett
Chief, Cataloging Policy & Support Office
Library of Congress
IFLA Satellite Meeting, Québec City, August 8, 2008

Overview

- Changes in technology
 - Impact on descriptive/access data
 - book catalogs
 - card catalogs
 - OPACs
 - next generation
- Move from individual library to international audience
- Move from classes of materials to elements and values (more controlled vocabularies)

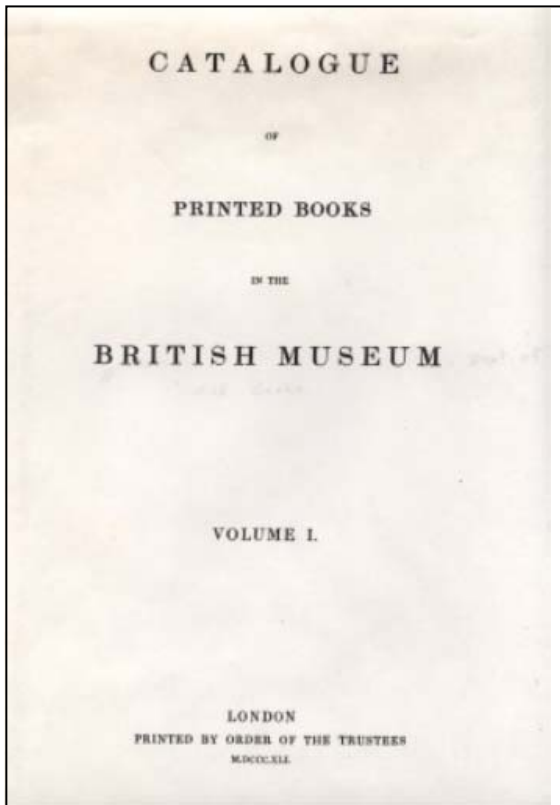
Bibliographic Universe



Influences

- Anglo-American cataloging tradition
- Paris Principles
- ISBD
- FRBR/FRAD
- Internet
- Toronto Conference 1997
- IME ICC
- Web environment collaborations

Anglo-American Tradition



1841



British Museum 1841

(“full and accurate” book catalog)

ACOSTA (CHRISTOVAL).

Tractado de las drogas, y medicinas de las Indias Orientales, con sus plantas. *Burgos*, 1578. 4^o

Another copy.

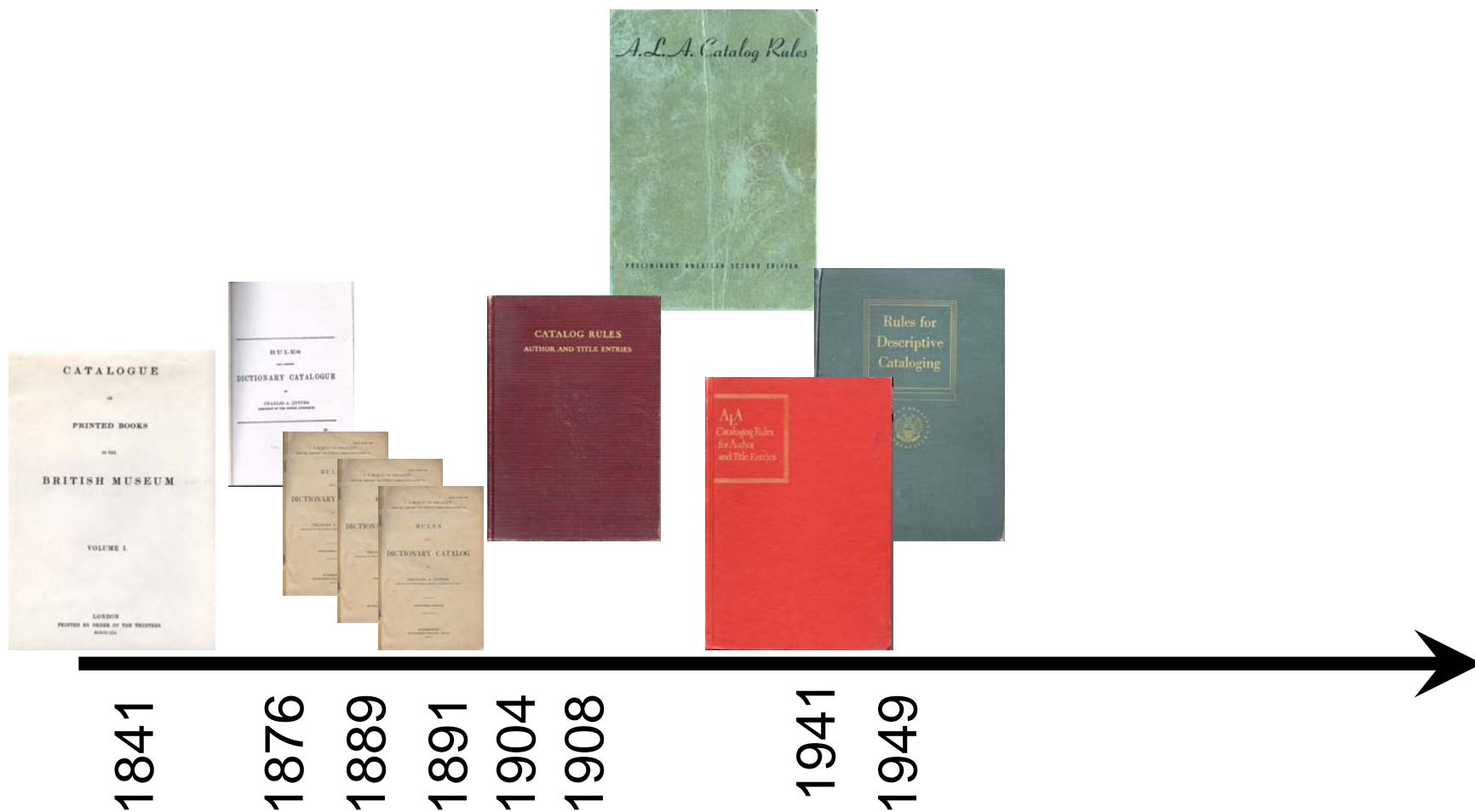
The same. *Ital.* *Venetia*, 1585. 4^o

 Another copy.

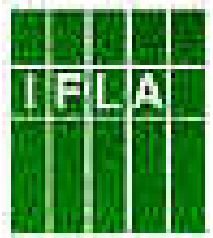
Tractado en loor de las mugeres. *Venetia*, 1592. 4^o

ACOSTA (DUARTE NUÑEZ DE). *See* NUÑEZ.

Anglo-American Tradition

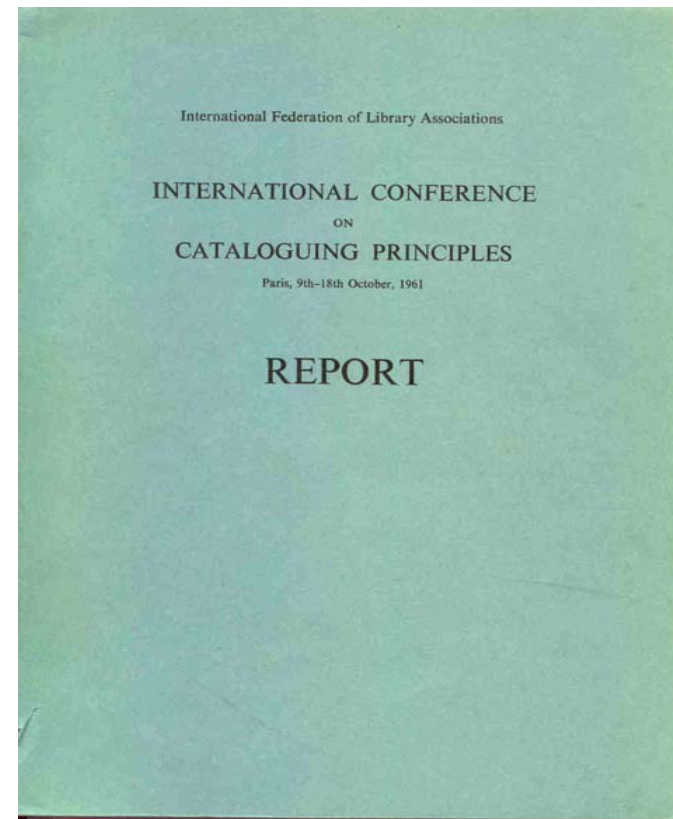


IFLA's Influence on Cataloguing Codes

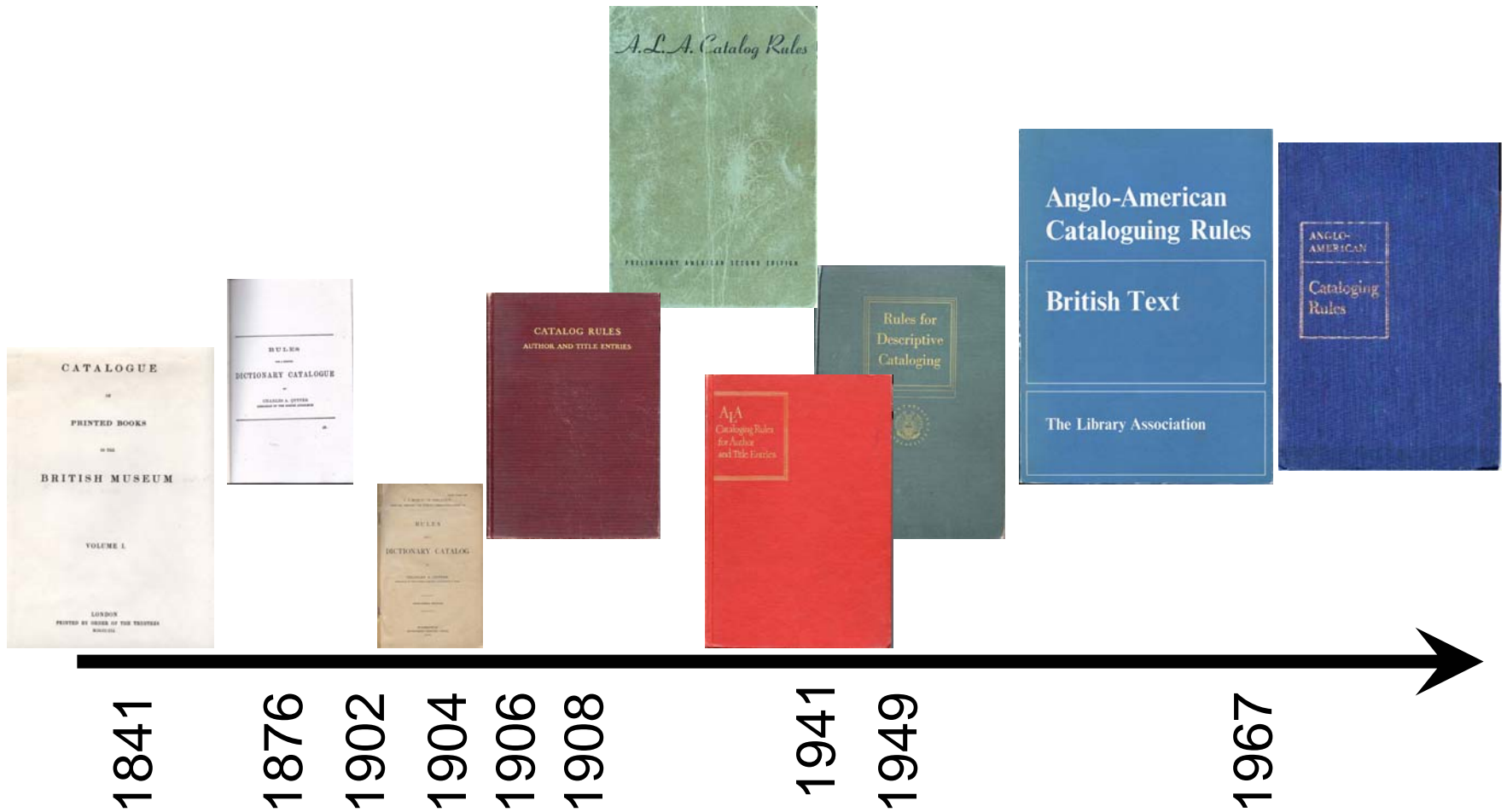


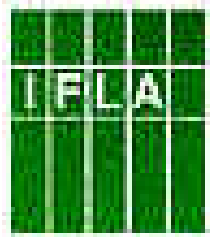
1961 –

“Paris Principles”



Anglo-American Tradition





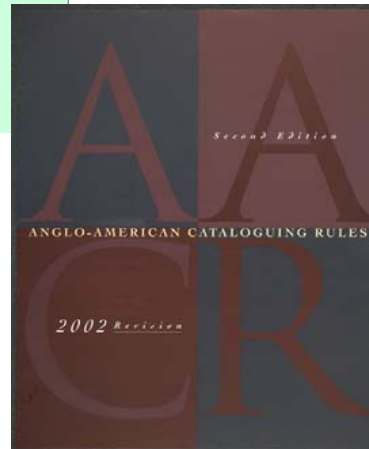
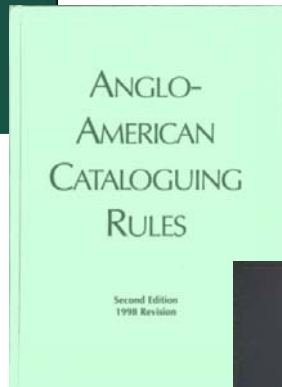
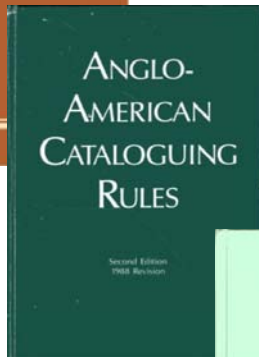
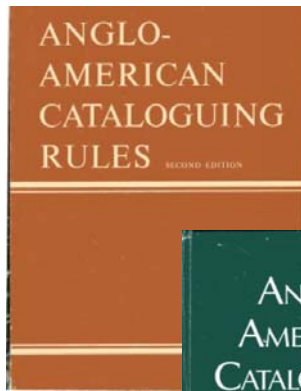
More of IFLA's Influence

1969 – ISBDs

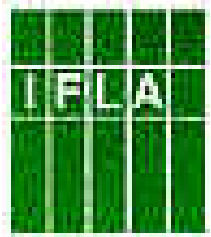
- International Standard Bibliographic Description



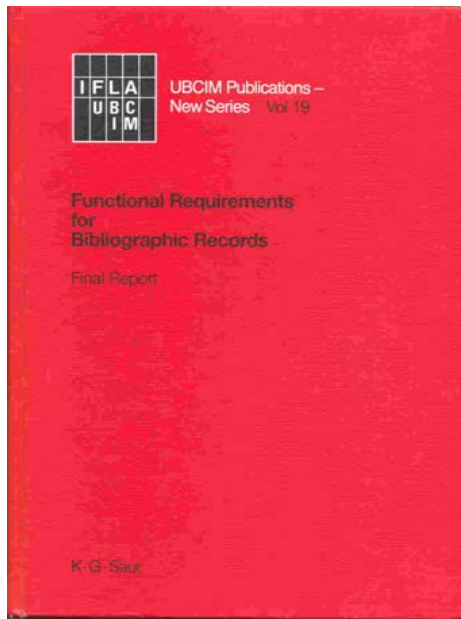
- 2007 Consolidated edition



AACR2
1978
1988
1998
2002



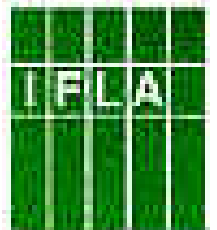
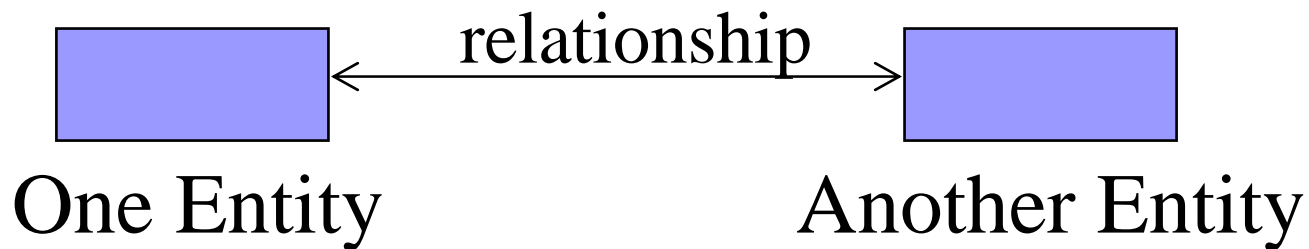
FRBR

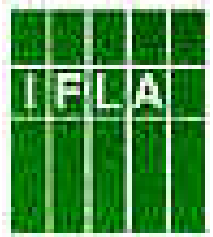


- IFLA's Functional Requirements for Bibliographic Records (FRBR)
- User tasks
 - Find
 - Identify
 - Select
 - Obtain
- Entities, Relationships, Attributes
- Mandatory elements for a national level bibliographic record

FRBR's Entity-Relationship Model

- Entities
- Relationships
- Attributes (data elements)

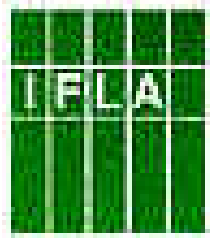




FRBR Entities

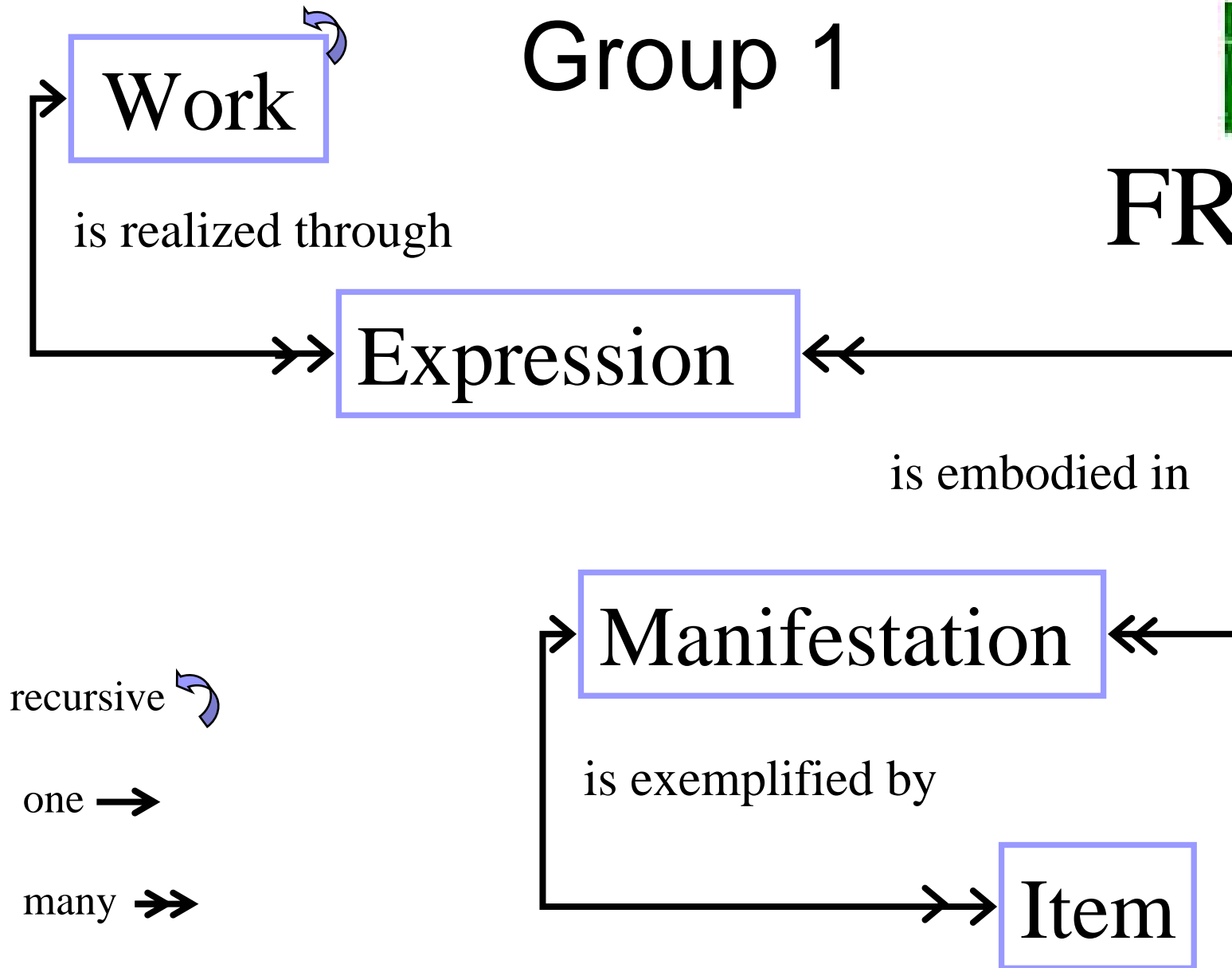
Group 1: Products of intellectual & artistic endeavor

- Work**
- Expression**
- Manifestation**
- Item**

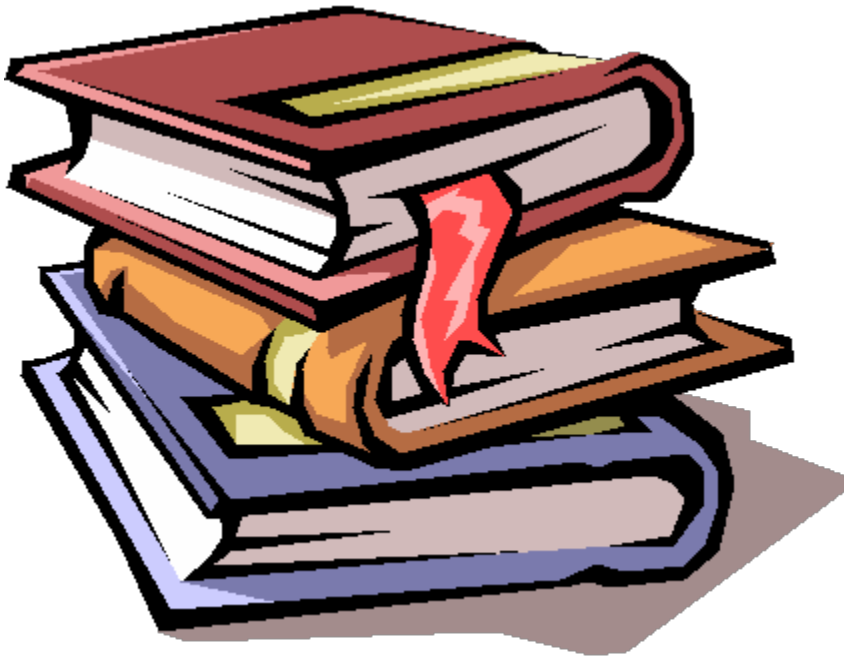


Group 1

FRBR



Vocabulary

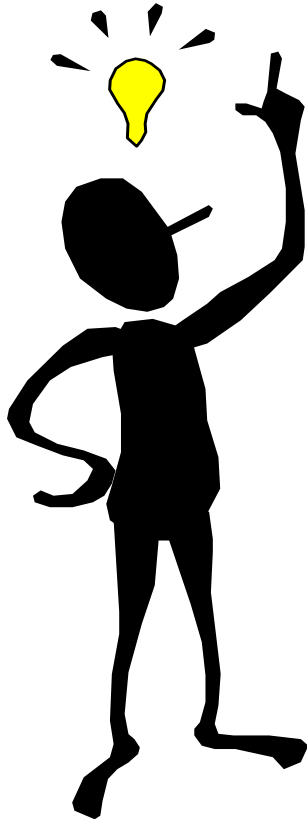


■ “Book”

–Door prop
(item)

–“publication”
at bookstore
any copy
(manifestation)

Vocabulary



■ “Book”

–Who translated?
(expression)

–Who wrote?
(work)

Group 1 Entities' Attributes

FRBR

■ Work

- ID
- Title
- Date
- etc.

■ Expression

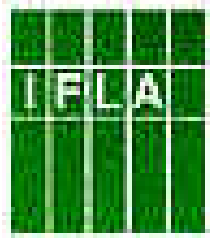
- ID
- Title
- Form
- Date
- Language
- etc.

■ Manifestation

- ID
- Title
- Statement of responsibility
- Edition
- Imprint (place, publisher, date)
- Form/extent of carrier
- Terms of availability
- Mode of access
- etc.

■ Item

- ID
- Provenance
- Location
- etc.

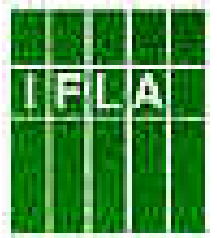


FRBR Entities

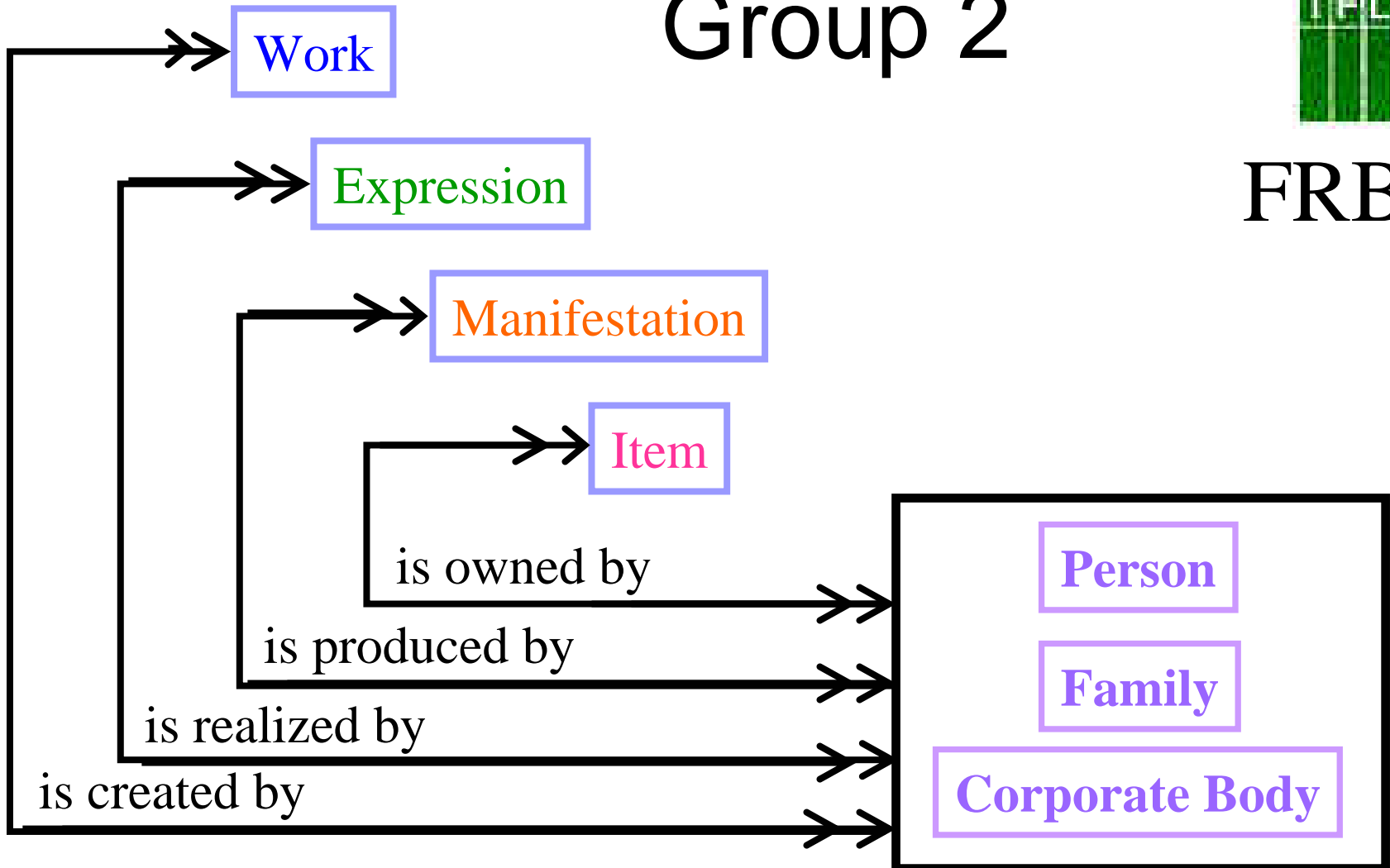
Group 2: Those responsible for the intellectual & artistic content

- Person**
- Corporate body**
- Family**

Group 2

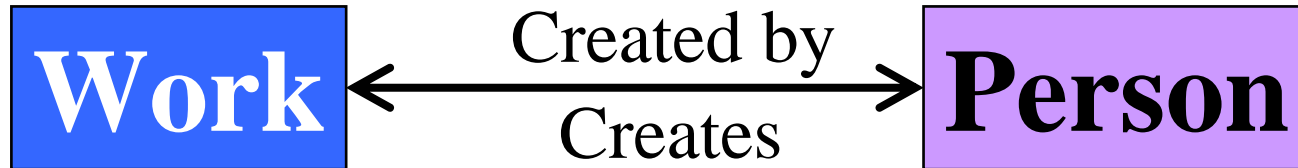


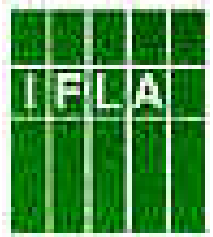
FRBR



many ➡➡

Relationship vs. Attribute

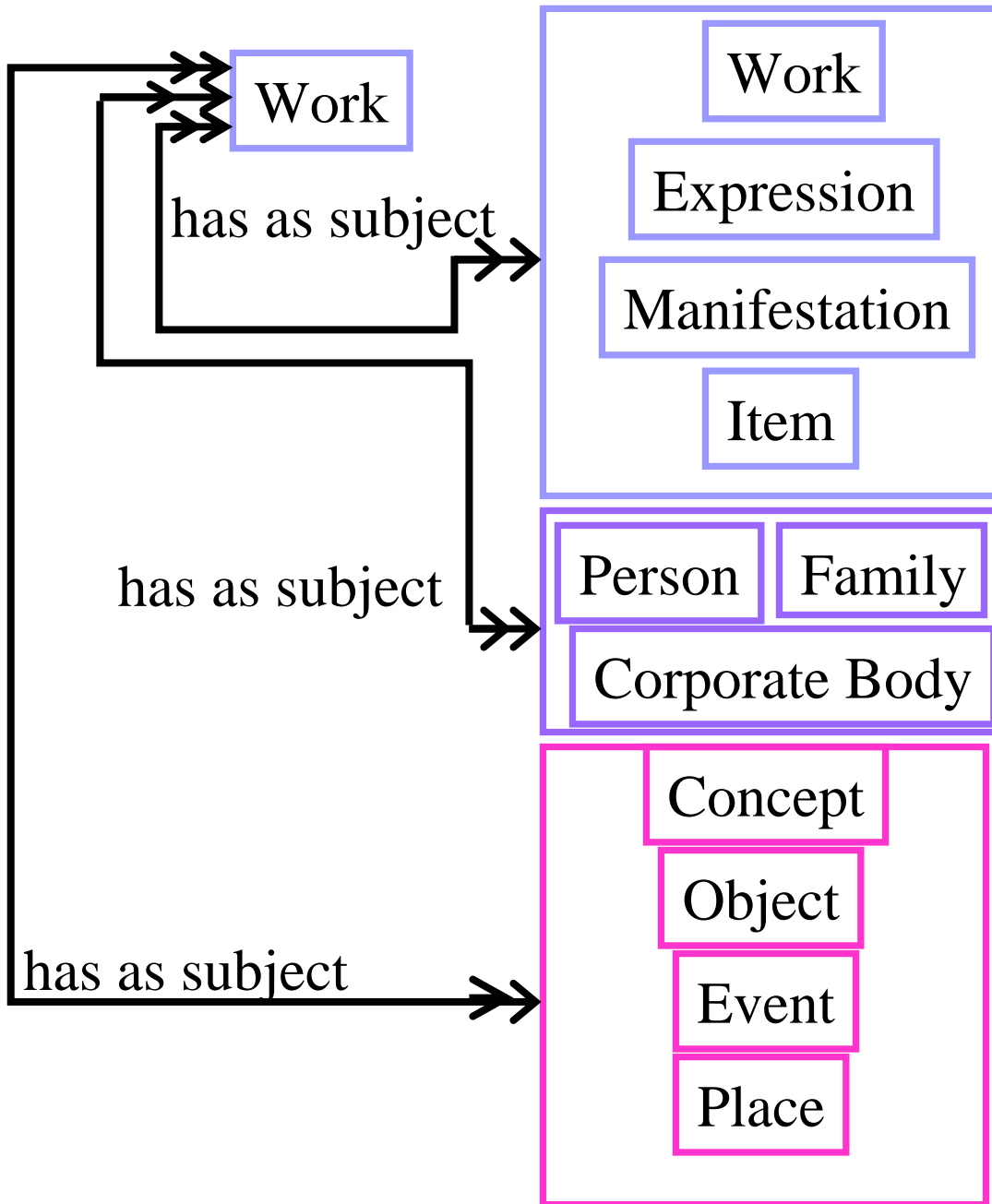




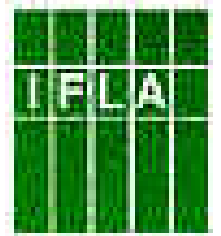
FRBR Entities

Group 3: Subjects of works

- Groups 1 & 2 *plus***
- Concept**
- Object**
- Event**
- Place**



Group 3



FRBR

many ➔

British Museum 1841

(“full and accurate” book catalog)

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Tractado de las drogas, y medicinas de las Indias
Orientales, con sus plantas.

Work 1



Tractado en loor de las mugeres.

Work 2



British Museum 1841

(“full and accurate” book catalog)

ACOSTA (CHRISTOVAL).

Tractado de las drogas, y medicinas de las Indias
Orientales, con sus plantas.

Burgos, 1578. 4º

Venetia, 1585. 4º

Manifestation 1

```
graph TD; M1[Manifestation 1] --> B[Burgos, 1578. 4º]; M2[Manifestation 2] --> V[Venetia, 1585. 4º];
```

Manifestation 2

British Museum 1841

("full and accurate" book catalog)

ACOSTA (CHRISTOVAL).

Tractado de las drogas, y medicinas de las Indias
Orientales, con sus plantas. *Burgos, 1578. 4º*

Another copy.

Item 2



Item 1



British Museum 1841

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ACOSTA (CHRISTOVAL).

Tractado de las drogas, y medicinas de las Indias
Orientales, con sus plantas. *Burgos, 1578. 4°*

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Expression

British Museum 1841

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Tractado en loor de las mugeres. *Venetia, 1592. 4°*


Work 2


Manifestation


Item



LIBRARY OF CONGRESS ONLINE CATALOG



Shakespeare, William, 1564-1616. Hamlet. French.

LC Control No. : 47023612

LCCN Permalink : <http://lccn.loc.gov/47023612>

Type of Material : Book (Print, Microform, Electronic, etc.)

Personal Name : [Shakespeare, William, 1564-1616.](#)

Main Title : ... Hamlet, traduit par André Gide.

Published/Created : [Paris] Gallimard [1946]

Description : 2 p. 1., 7-237, [2] p. 17 cm.

CALL NUMBER : [PR2779.H3 G5](#)Copy 1

-- **Request in** : Jefferson or Adams Bldg General or
Area Studies Reading Rms



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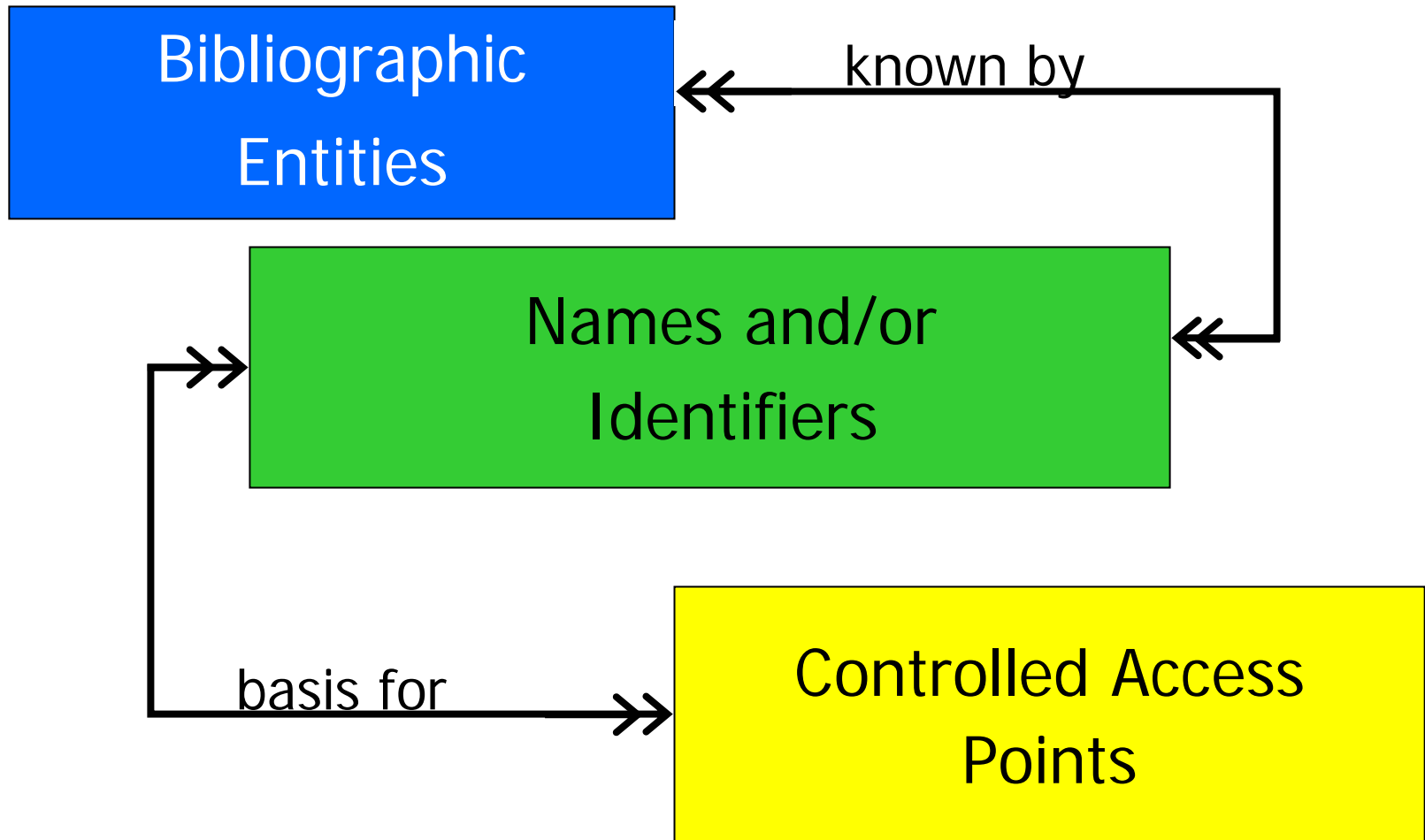
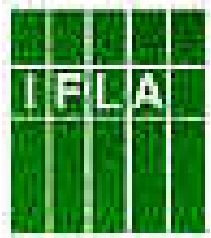
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↙ Item

CALL NUMBER : [PR2779.H3 G5](#)Copy 1

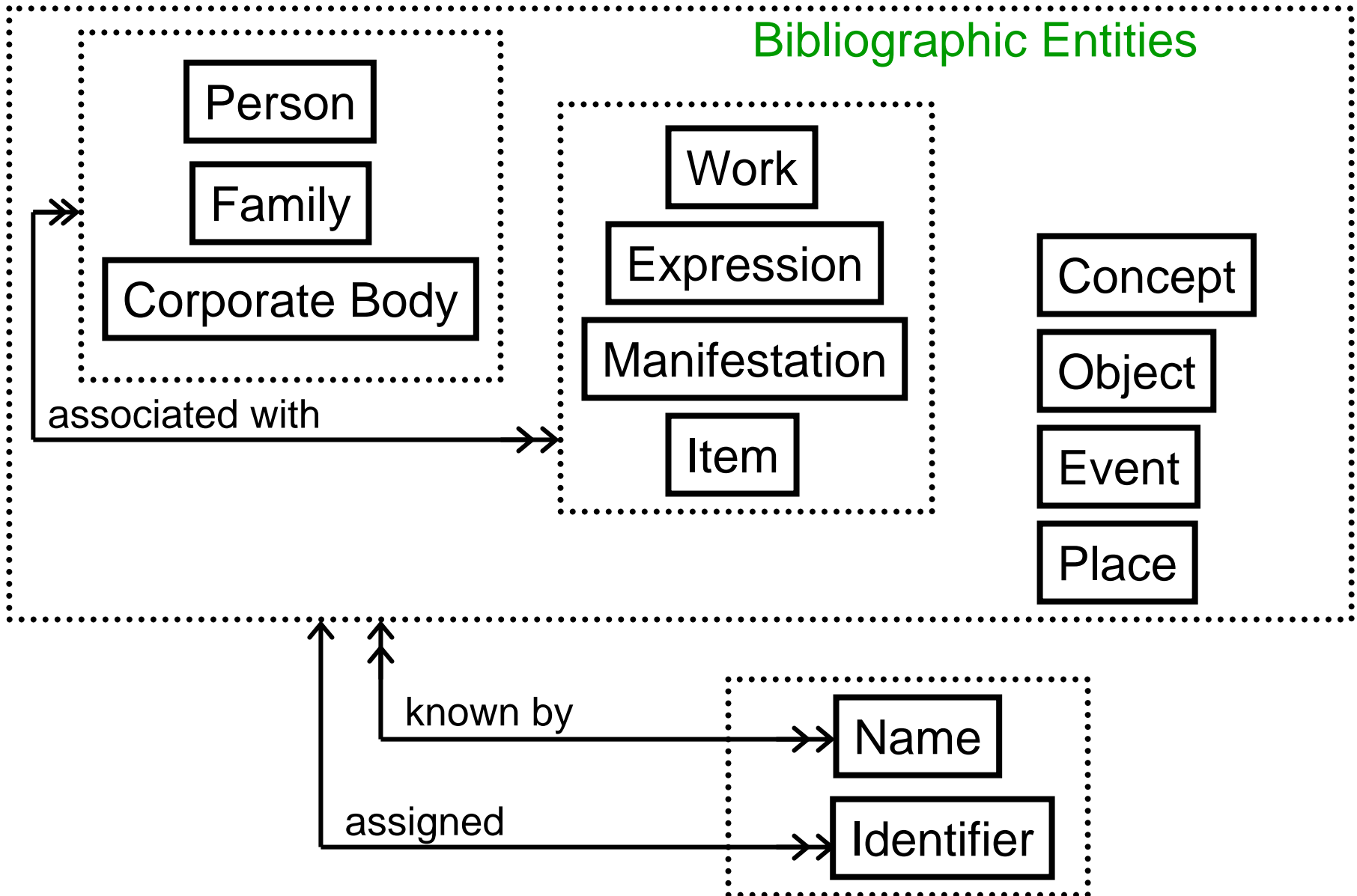
-- **Request in** : Jefferson or Adams Bldg General or
Area Studies Reading Rms

Functional Requirements for Authority Data (FRAD)

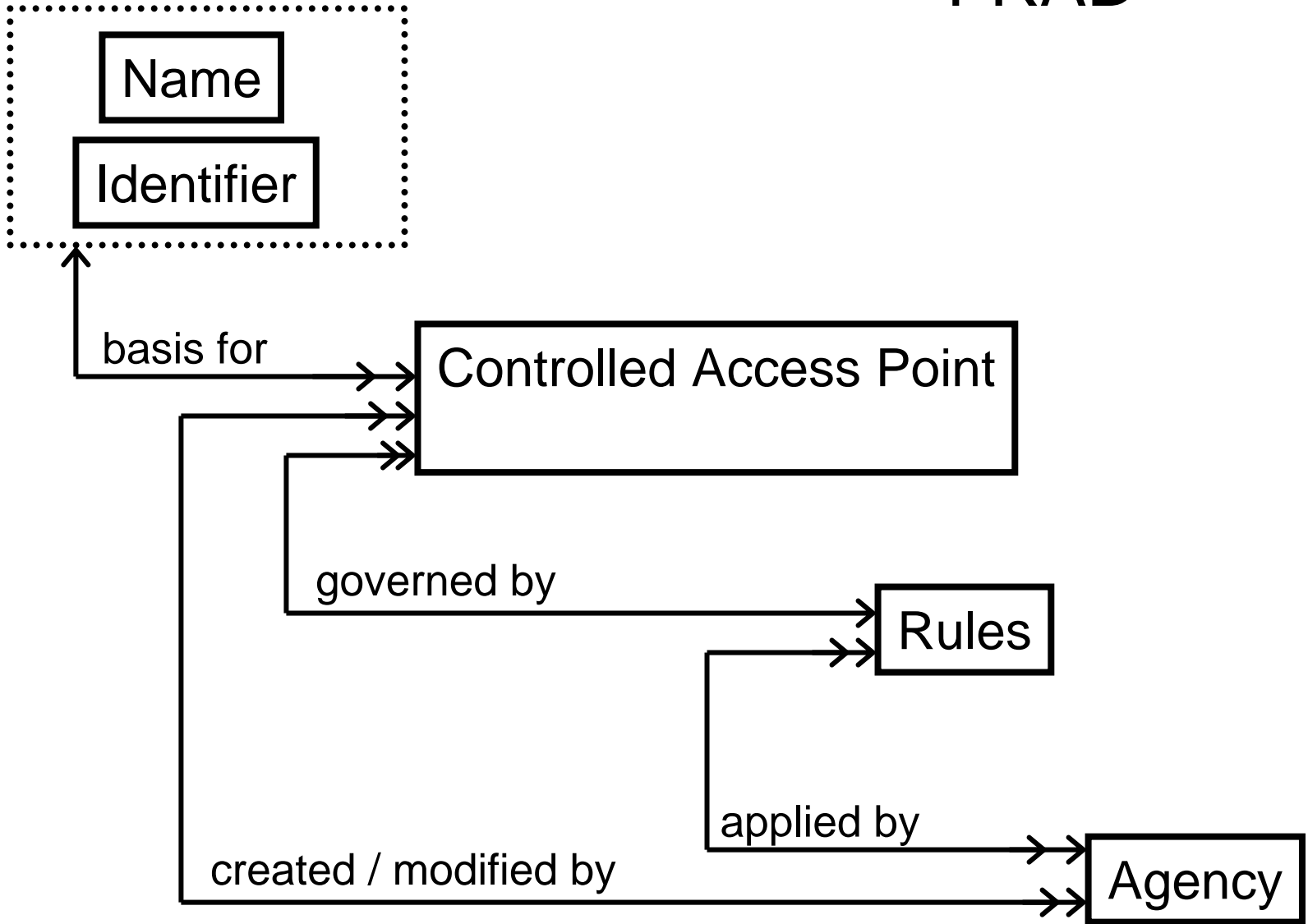


FRAD

Bibliographic Entities

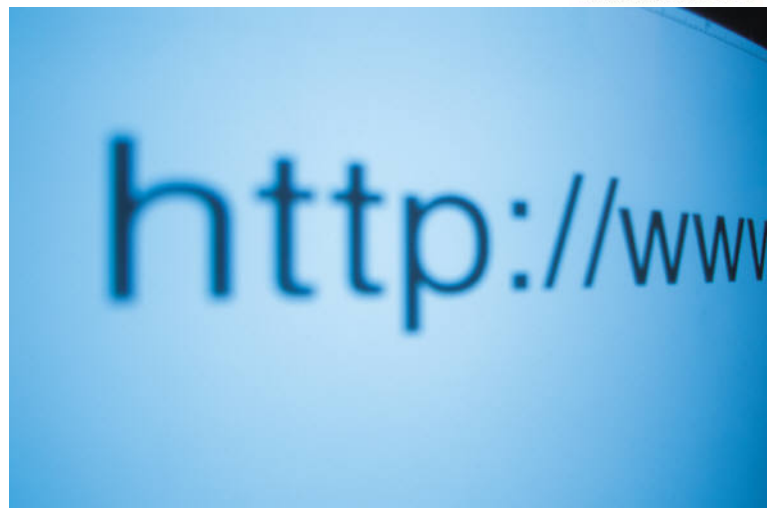


FRAD



Internet

- Catalogs are no longer the end points in isolation
 - Global access to data
- Integrate bibliographic data with wider Internet environment
 - Share data beyond institutions



Current Cataloging Environment

- Web-based
- Wide range of information carriers
 - complexity of content
- Metadata (bibliographic information)
 - Created by a wider range of personnel in and outside libraries
 - **Element-based** metadata schemas
 - Dublin Core, ONIX, etc.

1997 International Conference on the Principles and Future Development of AACR

- **Toronto**, Canada
- JSC invited worldwide experts
- Issues leading to RDA
- Principles
- Content vs. carrier
- Logical structure of AACR
- Seriality
- Internationalization

Strategic Plan for RDA 2002+

<http://www.collectionscanada.gc.ca/jsc/stratplan.html>



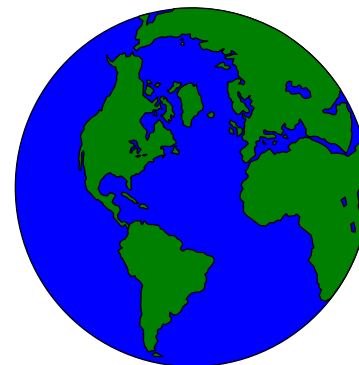
GOALS:

RDA will be ...

- A new standard for **resource description and access**
- Designed for the **digital** world
 - Optimized for use as an online product
 - Description and access of all resources
 - All types of content and media
 - Resulting records usable in the digital environment (Internet, Web OPACs, etc.)

RDA will be ...

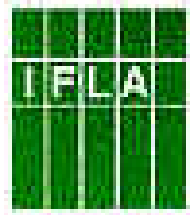
- A consistent, flexible, and extensible framework
- Compatible with internationally established principles, models, and standards
- Primarily for use in libraries, but also adaptable across many information communities worldwide



Foundations

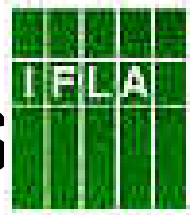
- Support FRBR user tasks
 - Find, identify, select, obtain
- FRAD user tasks
 - Find, identify, contextualize, justify
- IME ICC statements

General Principles (IME ICC)



- Convenience of user
- Representation
- Common usage
- Accuracy
- Sufficiency and necessity
- Significance
- Economy
- Consistency and Standardization
- Integration
- Defensible, not arbitrary
- If contradict, take a defensible, practical solution.

IME ICC★ Regional Meetings



First IFLA Meeting of Experts on an International Cataloguing Code



July 28 - 30, 2003, Frankfurt am Main, Germany

IME ICC1 – Europe/Anglo-American (2003)
http://www.d-nb.de/standardisierung/afs/imeicc_index.htm



IME ICC2 – Latin America-Caribbean (2004)
<http://www.loc.gov/imeicc2>



IME ICC3 – Middle East (2005)
<http://www.loc.gov/loc/ifla/imeicc/>



IME ICC4 – Asia (2006)
<http://www.nl.go.kr/icc/icc/main.php>



IME ICC5 – Sub-Saharan Africa (2007)
<http://www.imeicc5.com>

★ IFLA Meeting of Experts on an International Cataloguing Code

Transcription – Principle of Representation in RDA

- “Take what you see”
 - Correction of inaccuracies elsewhere
 - No more abbreviating
- Accept what you get
 - Facilitating automated data capture

Collaborations with other Metadata Communities

- ONIX (Publishers)
- RDA, Dublin Core, IEEE/LOM, Semantic Web
 - “Data Modeling Meeting” - London 2007



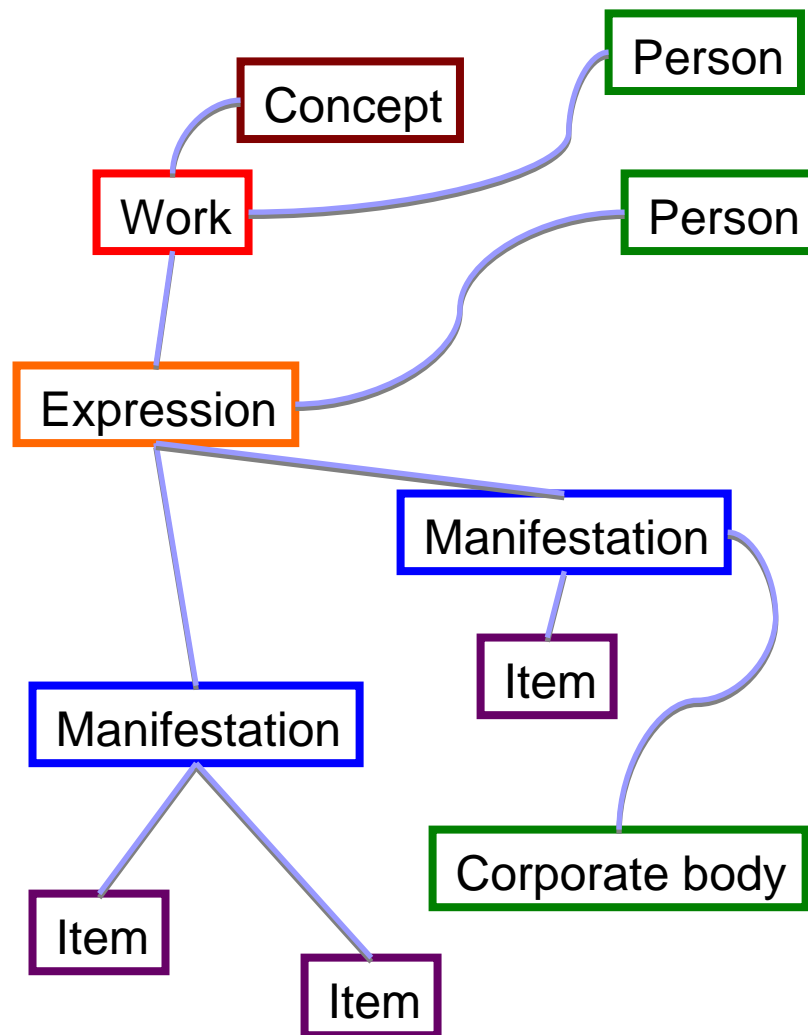
- RDA/MARC Working Group (MARBI)

Cataloging Scenarios

■ Scenario 1

□ Linked records for entities

- works, expressions, manifestations, items, persons, corporate bodies, families, concepts, etc.

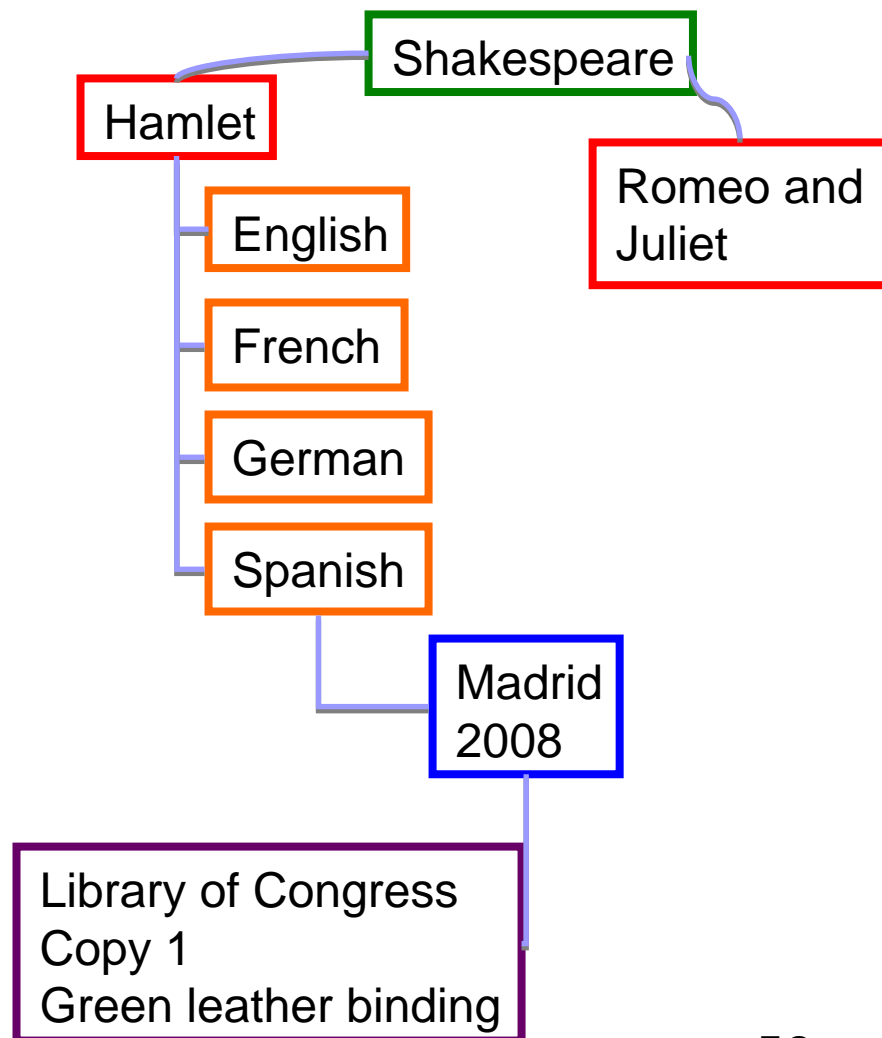


Cataloging Scenarios

■ Scenario 1

□ Display

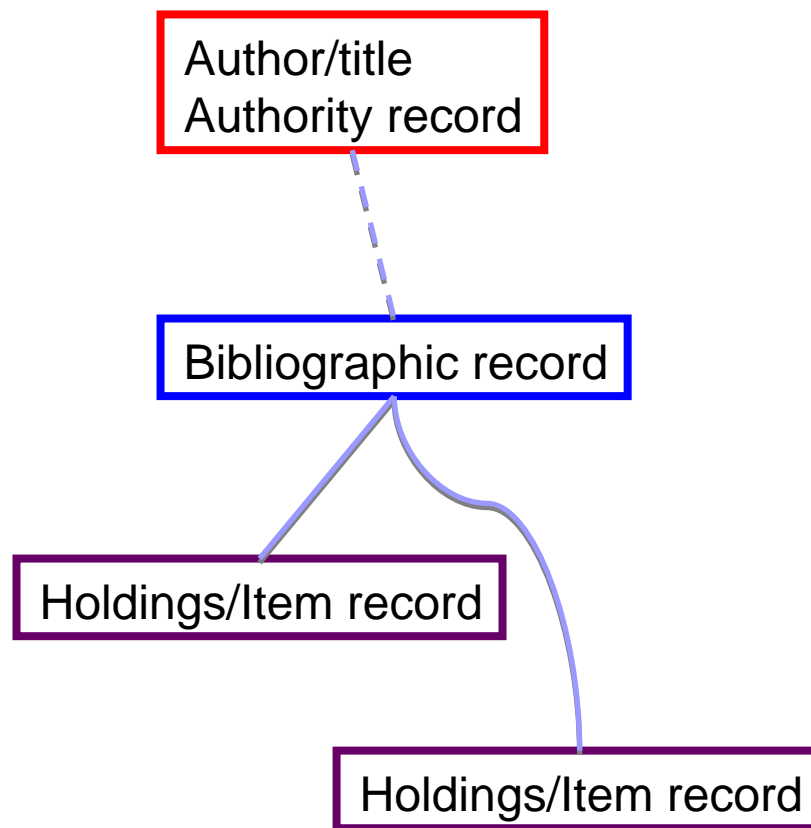
- All the works associated with a person, etc.
- All the expressions of the same work
- All the manifestations of the same expression
- Related works/expressions



Cataloging Scenarios

■ Scenario 2

- MARC structure
 - Self-contained records
 - May or may not be any real connection between bibliographic and authority records



RDA Online Demonstrations

August 8, 2008: IFLA Satellite Workshop
demonstration of *RDA Online* (prototype)

Approximately October 2008-January 2009:
Review of full draft

Summary

- User-oriented models (FRBR/FRAD)
 - Collocate works/expressions
- Internationalization
 - Cost reduction
 - Across information communities

Summary

- Principle-based rules (IME ICC)
 - Cataloger's judgment
- Facilitate harvesting and sharing of descriptive metadata
 - Less rigid, more flexible
- Add controlled vocabularies for precision of searching

JSC Public Web Site/FAQ



<http://www.collectionscanada.gc.ca/jsc/index.html>

Thank you!

Acronyms and Links

- CoP – Committee of Principals
- DC – Dublin Core
 - DCMI – Dublin Core Metadata Initiative

<http://dublincore.org/>
- DCAM – Dublin Core Abstract Model

<http://dublincore.org/documents/2007/04/02/abstract-model/>
- FRAD – Functional Requirements for Authority Data

<http://www.ifla.org/VII/d4/wg-franar.htm>
- FRBR – Functional Requirements for Bibliographic Records (this site includes a Webliography)

<http://www.ifla.org/VII/s13/frbr/frbr.htm>

Acronyms and Links

- IEEE/LOM – Institute of Electrical and Electronic Engineers/Learning Object Metadata

<http://ltsc.ieee.org/wg12/>

- IFLA – International Federation of Library Associations and Institutions

<http://www.inflanet.org>

- JSC – Joint Steering Committee for Development of RDA

<http://www.collectionscanada.gc.ca/jsc/index.html>

- RDA – Resource Description and Access

<http://www.collectionscanada.ca/jsc/rda.html>

Terms

Attributes – Elements/data to identify an entity (e.g., title; place of publication; date of publication; etc.)

Carrier types – categories of the kinds of packages to convey information (e.g., volume, microfiche, videocassette, globe)

Content types (e.g., text, image, sound, cartographic content, notated movement)

Media types (e.g., audio, video, unmediated)