FRBR, Facets and the Discoverability of Moving Image Materials in Libraries

2012 OLAC CONFERENCE

Kelley McGrath
University of Oregon
October 20, 2012
1. PROBLEM STATEMENT & PROPOSED SOLUTION
Users Are Looking for Movies
Libraries Describe Publications
Dracula [videorecording] / Columbia Pictures ; directed by Francis Ford Coppola …

2-disc special ed.
Culver City, Calif. : Columbia TriStar Home Entertainment, c2005.

2 videodiscs (ca. 130 min.) : sd., col. ; 4 3/4 in. + 1 booklet.

Horror film series
### Libraries Describe Publications

**Dracula**

[United States] : Sony Pictures Home Entertainment; Culver City, Calif. : Columbia TriStar Home Entertainment, c2005

View full record

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>CALL NUMBER</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIDEO COLL</td>
<td>VIDEO DVD 01562</td>
<td>AVAILABLE</td>
</tr>
</tbody>
</table>

**Nosferatu a symphony of horror**

New York : Kino on Video, c1991

View full record

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>CALL NUMBER</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIDEO COLL</td>
<td>VIDEOTAPE 03297</td>
<td>AVAILABLE</td>
</tr>
</tbody>
</table>

**Nosferatu**

Indianapolis, IN : KVC Entertainment [distributor], [199-?]
Users Care About Versions

日本語

Rg1024: open clip art library
Prototype: Movies & Versions

Funded: OLAC (Online Audiovisual Catalogers)
Developed by Chris Fitzpatrick
Small scale (limited data, few fields and records, simplified data model)
http://blazing-sunset-24.herokuapp.com
Movie (Mostly Work) Facets

Limit By Movie or Program:

Genre: Horror (12) Fiction (11) Experimental (6) Feature (6) Short (6) Ballet (1) Dance (1)

Dates: 1960s (3) 1990s (3) 2000s (2) 1920s (1) 1930s (1) 1950s (1) 1980s (1)

Original Language: English (8) Unknown (2) German (1) None (1)

Country: Unspecified (5) United Kingdom (2) United States (2) Austria (1) Canada (1) Germany (1)

Hit List

1. Dracula (1931)

Director: Browning, Tod, 1882-1962
Language: English
Country: United States
Genres: Feature; Fiction; Horror;
Description: After a naive real estate agent succumbs to the will of the Count, the two head to London where the vampire hopes to stroll among respectable society by day and search for potential victims by night.

Get from a library:

35 mm film (nitrate) (1931)
Spoken Language: English
Aspect Ratio: Unspecified

Library: D

DVD (2006)
Spoken Language: English
Subtitle Languages: English; French; Spanish;
Aspect Ratio: Full screen (1.33:1)

Libraries: B, D, E,
## Version (Expression/Manifestation/Item) Facets

**Limit By Version:**

<table>
<thead>
<tr>
<th>At Library:</th>
<th>Format:</th>
<th>Spoken Language:</th>
</tr>
</thead>
<tbody>
<tr>
<td>C (14) [remove]</td>
<td>DVD (8)</td>
<td>English (8)</td>
</tr>
<tr>
<td></td>
<td>VHS (6)</td>
<td>None (5)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>French (1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Spanish (1)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Publication Date:</th>
<th>Subtitle/Caption Language:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1990s (6)</td>
<td>English (9)</td>
</tr>
<tr>
<td>2000s (6)</td>
<td>French (4)</td>
</tr>
<tr>
<td>1980s (2)</td>
<td></td>
</tr>
</tbody>
</table>
Movie-Version Interaction

13 movies/programs found with 27 versions.
Displaying movies/programs 1 - 10 of 13

1. Citizen Kane (1941)

Alternate Titles: American; John Citizen, U.S.A.;
Director: Welles, Orson, 1915-1985
Prototype


ACTIVITY 1: USE CASES
Overview of Project

1. Develop end-user interface to take advantage of FRBR and facets

2. Extract and transform existing data
   - MARC $\rightarrow$ normalized, FRBR-based data
   - Cluster records for FRBR entities
   - Assess and correct errors where possible

3. Create backend interface for ongoing input and management of metadata

4. Develop guidelines and documentation for catalogers
2.
DISCOVERY INTERFACE
Centralized Discovery Interface

End-user discovery interface that incorporates:
- FRBR model
- Facet-based navigation

Based on a centralized, collaboratively-maintained data store
Centralized Discovery Interface

Interacts with local ILS’s item status information much as WorldCat Local does

Supports local (individual institution or consortium) views

Provides API access to data, as well as the ability to download data
Centralized Discovery Interface

• FRBR

• Faceted navigation

• Controlled, machine-actionable data
2a. FRBR & OUR MODIFICATIONS
Why the FRBR Model?

• to focus displays on original movies while supporting users in selecting and obtaining appropriate versions

• to enable shared maintenance of discrete movie-level records and reduce data redundancy, thereby supporting efficient production of more complete and accurate metadata
What is a Moving Image Work?

FRBR work

“distinct intellectual or artistic creation”

abstract concept (idea in someone’s head)
What is a Moving Image Work?

FRBR expression

“intellectual or artistic realization of a work in the form of ... sound, image..., etc., or any combination of such forms”
What is a Moving Image Work?

Some challenges

• Most moving images are collaborative works and incorporate the ideas of many people; not just from one person’s head

• Creation and realization are deeply intertwined and hard to separate
Challenges for a Work-Centric Display

FRBR: work has no language, duration

RDA: maps many roles to expression, such as cast, costume designer
Work/Primary Expression (WPE)

- Practical compromise
  work + primary expression
  (history)

- Primary expression usually =
  first public release
Why WPE?

• One record with info for re-use with any new expression or manifestation

• More efficient from a data modeling perspective
Why WPE?

- Includes original language and duration, cast, animators, costume designers, etc.

- Similar to the information given in reference works or online databases like IMDb
Why WPE?

• Agrees with results of user research

“We also saw that in both exercises the original expression was often given a special position, not bundled with the other expressions but rather much closer to the work in question. In fact, in some cases it seemed to be considered as a surrogate of work.” (Pisanski and Žumer 2010).
Why WPE?

• Other expressions most meaningful when contrasted with WPE
  – Director’s cut, unrated, airline version
  – Dubbed, subtitled, captioned, audio-described
  – Fullscreen (“modified to fit your screen”)
  – Colorized
FRBRoo Recording Work

“intended to apply to sets of concepts that pertain to the elaboration of any kind of recording. The type of the thing recorded is not taken into consideration: it can be birdsong, the changing aspect of the Empire State Building over eight hours in an Andy Warhol movie, or anything”

(Le Boeuf 2008)
FRBRoo Performance Work

“designed to cover the sets of concepts that pertain to the elaboration of live performances and of performances that take place with the sole purpose of being recorded (e.g., in movies, studio recordings of music, etc.)”

(Le Boeuf 2008)
Challenge for WPE

In most cases the choice of primary expression is obvious, but there are cases where this is unclear.
Work

is realized through

Expression

is embodied in

Manifestation

is exemplified by

Item

(a)

Movie (Work & Primary Expression)

is embodied in

Version/Publication (Expression & Manifestation)

is exemplified by

Item

is held by

Library

(b)

Displayed as “Limit By Movie or Program” facets

Displayed as “Limit By Version” facets
FRBR recognizes the problem

“Recognize the work through individual realizations or expressions of the work, but the work itself exists only in the commonality of content between and among the various expressions of the work. When we speak of Homer’s Iliad as a work, our point of reference is not a particular recitation or text of the work, but the intellectual creation that lies behind all the various expressions of the work.”
Boundaries of Moving Image Works

FRBR recognizes the problem

• Works are abstract so it’s difficult to define precise boundaries

• Works may be viewed differently from one culture to another. Different cultures or national groups may use different criteria for boundaries
Boundaries of Moving Image Works

Heuristics

- Degree of commonality
- Substitutability
- Primary and derivative relationship
Is This a New Work?

• Feature film based on a novel
  – Jane Austen’s *Pride and Prejudice*
  – 2005 feature film *Pride and Prejudice*

• Remake
  – *Ocean's 11* (1960 film)
  – *Ocean's Eleven* (2001 film)
ACTIVITY 2: WORK BOUNDARIES
2b. FACETS/ BROWSING
Why Faceted Navigation?

• supports exploratory search
• allows easy limiting
• exposes the content of collections
• enables flexible rather than hierarchical access to the FRBR group 1 entities
Facets…

• Support exploratory search and browsing
• Allow easy limiting
  – Empower users to do more complex searches simply
  – No zero result sets
Facets…

• Expose the content of collections
  – Don’t start from a blank screen
  – Require no prior knowledge of the collection or the indexing vocabulary
  – Communicate scope of collection
Facets...

- Enable flexible rather than hierarchical access to the FRBR group 1 entities
  - Not just pick work, then expression, then manifestation
  - See all movies on Blu-ray at my local library
  - See horror films to watch online
  - See *The Matrix* on Blu-ray
Browsing in Libraries

• Closed stacks
  – Users can only browse in the catalog
  – The catalog provides little or no guidance as to kinds of searches to do or vocabulary to use
Browsing in Libraries

• Physical collections browsable only by one attribute, usually genre

  – What if you want comedy sci-fi? Anime?
  – What if you want recent releases?
Browsing with Facets

• Users can choose

  • Multiple values: sci-fi + action
  • Multiple attributes: 1920s + comedy
  • Order of selection

• Requires controlled data
ACTIVITY 3: FACET LABELS
2c. CONTROLLED, MACHINE-ACTIONABLE DATA
Why Machine-Actionable Data?

• automatically derived from existing bibliographic data where possible

• easier to convert machine-actionable data to data for human consumption than to go in the opposite direction
Why Machine-Actionable Data?

- to support *faceted access* and the creation of more *readable, grid-like displays*

**Format:** DVD, NTSC  
**Languages:** English, German  
**Subtitles:** English, French, Spanish  
**Accessibility:** Closed-captioned  
**Region:** Region 1 (U.S. and Canada only)  
**Aspect Ratio:** Widescreen (1.78:1)  
**DVD Release Date:** July 1, 2003
Why Machine-Actionable Data?

- to enable more effective sharing of library data with other services, as well as supporting easier incorporation of data from other information providers, including linked data providers such as Freebase and DBpedia
Machine-Actionable Data

- **Structured data**
  
  OriginalReleaseYear = 2011
  
  *NOT*

  Originally released as a motion picture in 2011.

- **Mapped to FRBR entities and attributes**
  
  OriginalReleaseYear = Date of the Work
3. CONVERTING CURRENT DATA TO MACHINE-ACTIONABLE, FRBR-BASED DATA
3a. EXTRACTING MACHINE-ACTIONABLE DATA FROM MARC
Original Date of Work

• Identification: Ocean's Eleven (2001)

• Citation:


• Browsing

• Limiting
Three Questions

• Is the data there?
• Where is it?
• How to get it?
Is the Data Even There?

- We catalog the publication
- Work data not prioritized
  - Not always recorded; not required
  - Not recorded in a consistent way or place
  - Not recorded in a computer-friendly way
Is the Data Even There?

7.7B7. Edition and history

AACR2: Make notes relating to the edition being described or to the history of the motion picture or videorecording.

LCRI: When an item is known to have an original master in a different medium and the production or release date of the master is more than two years earlier than that of the item being cataloged, give an edition/history note.

- Originally produced as motion picture in [year]
- Originally issued as filmstrip in [year]
Is the Data Even There?

RDA 6.4 Date of Work

... a *core element when needed to differentiate* a work from another work with the same title or from the name of a person... [etc.]

Date of work ▼ is the earliest date associated with a work.

Date of work may be the date the work was created or the date the work was first published or released.
Where is the Data? All Over the Place.

008/fixed field dates p2012 1955
033 $a 19950105
046 $k 1977
130 True grit (Motion picture : 1969)
500 Originally broadcast on television in 2009.
505 $t Tunnel of love / $r Robert Milton Wallace $g (1997, b&w, 12 min.) -- …
## Where is the Data?

<table>
<thead>
<tr>
<th>Field</th>
<th>Date Present</th>
<th>%</th>
<th>Mult. Values</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>008</td>
<td>87</td>
<td>74%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>500</td>
<td>86</td>
<td>74%</td>
<td>36</td>
<td>42%</td>
</tr>
<tr>
<td>518</td>
<td>24</td>
<td>21%</td>
<td>6</td>
<td>25%</td>
</tr>
<tr>
<td>033</td>
<td>8</td>
<td>7%</td>
<td>4</td>
<td>50%</td>
</tr>
<tr>
<td>046</td>
<td>4</td>
<td>3%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any</td>
<td>109</td>
<td>93%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None</td>
<td>8</td>
<td>7%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Can We Get the Data Out?

It’s complicated…

008 p20121955

Catalogers misuse MARC: 008 p19552012

No way to account for multiple dates

What does a single date mean? 008 s2012

• DVD and original film both released in 2012?
• 2012 DVD, but original film date not recorded/known
Can We Get the Data Out?

Free text fields are even more challenging

Originally produced as a motion picture in 2010.

Videodisc release of the 2005 motion picture.

Originally broadcast on television on May 5, 1985.

Special features: … Hy Gardner Show (1964 broadcast)
Used Keywords + Years in Notes

- air
- aired
- broadcast
- copyright
- film
- filmed
- made
- motion
- originally
- performed
- premiered
- presented
- produced
- production
- recorded
- release
- released
- taped
- telecast
- televised
- television
- videotape
- videotaped

• Bonus ...
• Special ...
Data Challenges

• Data is not there
• Data is difficult to parse
• Heuristics for parsing lead to incorrect conclusions
• Too many data points lead to contradictory results
Data is Difficult to Parse

- Originally produced as motion picture in 1947 and restored in 1956
- 1999 videodisc release of a series of cartoons released between 1943- and 1946
- Originally produced in the 1930s and 1940s
- Originally telecast Oct. 23, 1958 (Aida) and Oct. 3, 1982 (concert)
- Premiered on PBS stations on November 5 and 12, 2003
Where Our Heuristics Go Wrong

• Uses a sequence from Alfred Hitchcock's 1972 film Frenzy

• Four short films by director/playwright Reza Abdoh (1963-1995). The first film, My face, was adapted from a story by William S. Burroughs

• DVD release of an 1974 (or earlier) production…

• As seen on HBO/Cinemax in 2002
Too Much Data?

Contradictory data

• Multiple locations $\rightarrow$ Rank

046$k > 008 date > 500 note$
Too Much Data?

Contradictory data

- Multiple values in one location

? Multiple works

Originally produced as separate motion pictures between 1995 and 1998

Tunnel of love / Robert Milton Wallace (1997, b&w, 12 min.) -- …
Too Much Data?

Contradictory data

• Multiple values in one location

? Different types of dates

Originally produced as a motion picture in 1947 and restored in 1956
Too Much Data?

Contradictory data

• Multiple values in one location

? Range of dates

033 $a 19830418 $a 19830426

Taped Apr. 18-26, 1983 at the BBC Television studios in London
Can We Get the Data Out?

Names and functions

Want to link authorized names with controlled vocabulary for functions

Director = Clint Eastwood

700 $a Eastwood, Clint, $d 1930- $4 drt
Identify Individual Statements Based on Punctuation

245 $c$ Metro-Goldwyn-Mayer picture $;$ screenplay by George S. Kaufman and Morrie Ryskind $;$ directed by Sam Wood

1. Metro-Goldwyn-Mayer picture
2. screenplay by George S. Kaufman and Morrie Ryskind
3. directed by Sam Wood
Make a List of Terms for Each Role (Synonyms)

- screenplay
- screen play
- screenwriter
- script

aus =

- scriptwriter
- writer
- written by
Make a List of Terms for Each Role (Translations; Unwanted Variations)

drt =

- directed
- direction
- director
- 監督
- Regie
- режиссер-постановщик
- director of photography
- animation director
Map Transcribed Names to Added Entries

1. screenplay by George S. Kaufman and Morrie Ryskind
2. directed by Sam Wood

1. 700 $a Kaufman, George S. ...
1. 700 $a Ryskind, Morrie, ...
2. 700 $a Wood, Sam, ...
Map Transcribed Roles to Added Entries

1. screenplay by George S. Kaufman and Morrie Ryskind
2. directed by Sam Wood

1. 700 $a Kaufman, George S. … $4 aus
1. 700 $a Ryskind, Morrie, … $4 aus
2. 700 $a Wood, Sam, … $4 drt
Many Possibilities...

700$a Wood, Sam, 1883-1949 $4 drt

http://id.loc.gov/authorities/names/n85151535.html
http://www.imdb.com/name/nm0939992/
http://id.loc.gov/vocabulary/relators/drt.html

Director: Wood, Sam, 1883-1949
Regie: Sam Wood
<table>
<thead>
<tr>
<th>Date</th>
<th>Field</th>
<th>Pos</th>
<th>Keyword</th>
<th>Subfield</th>
<th>Order</th>
</tr>
</thead>
<tbody>
<tr>
<td>1995</td>
<td>008</td>
<td>p</td>
<td>p</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1995</td>
<td>500</td>
<td>2</td>
<td>Originally made</td>
<td>a</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>motion</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

500 $a Title from container.

500 $a Originally made as a motion picture in 1995 in France.
3b. CLUSTERING, PROVISIONAL WORK RECORDS & ERROR CHECKING
Overview

- Extract data describing works from existing manifestation records
- Cluster manifestations describing the same work
- Create provisional work records from data in the clusters
- Perform quality control on these provisional records
Identify Data in MARC Records

<table>
<thead>
<tr>
<th></th>
<th>008 DtTp</th>
<th>008 Date1</th>
<th>008 Date2</th>
<th>500 Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>s</td>
<td>1998</td>
<td></td>
<td></td>
<td>Originally <em>broadcast</em> as a CBS <em>television</em> special on June 16, 1998.</td>
</tr>
<tr>
<td>p</td>
<td>2004</td>
<td>1935</td>
<td></td>
<td>Originally <em>produced</em> as a <em>motion</em> picture in <strong>1935</strong></td>
</tr>
<tr>
<td>s</td>
<td>2004</td>
<td></td>
<td></td>
<td>DVD <em>release</em> of the <strong>1935 motion</strong> picture…</td>
</tr>
<tr>
<td>p</td>
<td>1935</td>
<td>1992</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Identify Best Value

<table>
<thead>
<tr>
<th>Title</th>
<th>008 Year</th>
<th>500 Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFI's 100 years, 100 movies</td>
<td>NULL</td>
<td>1998</td>
</tr>
<tr>
<td>A night at the opera</td>
<td>1935</td>
<td>1935</td>
</tr>
<tr>
<td>A night at the opera</td>
<td>NULL</td>
<td>1935</td>
</tr>
<tr>
<td>In der Oper</td>
<td>1935</td>
<td>NULL</td>
</tr>
</tbody>
</table>
## Cluster Works

<table>
<thead>
<tr>
<th>Work</th>
<th>Title</th>
<th>Director</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AFI's 100 years, 100 movies</td>
<td>Smith, Gary</td>
<td>1998</td>
</tr>
<tr>
<td>2</td>
<td>A night at the opera</td>
<td>Wood, Sam, $d 1883-1949</td>
<td>1935</td>
</tr>
<tr>
<td>2</td>
<td>A night at the opera</td>
<td>NULL</td>
<td>1935</td>
</tr>
<tr>
<td>2</td>
<td>In der Oper</td>
<td>Wood, Sam, $d 1883-1949</td>
<td>1935</td>
</tr>
</tbody>
</table>
Create Provisional Work Records

<table>
<thead>
<tr>
<th>Work</th>
<th>Title</th>
<th>Director</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AFI's 100 years, 100 movies</td>
<td>Smith, Gary</td>
<td>1998</td>
</tr>
<tr>
<td>2</td>
<td>A night at the opera</td>
<td>Wood, Sam, $d 1883-1949</td>
<td>1935</td>
</tr>
</tbody>
</table>
Clean Up Provisional Work Records

• Identify records likely to need manual review, such as situations where the MARC record describes more than one work

• Develop some sort of interface, such as a fielded wiki, where people can cooperatively correct and enhance the data
What You Can Do Now

Use

• 130 uniform titles
• 257 country of producing entity
• 046$k for original date
• 041$h for original language
• 700 $4/$e relator codes or terms
What You Can Do Now

130 0- $a Lawrence of Arabia (Motion picture)
257 -- $a Great Britain $a United States $2 naf
046 -- $k 1962
041 0- $a eng $h eng
700 1- $a Lean, David, $d 1908-1991. $4 drt
700 1- $a O'Toole, Peter, $d 1932- $4 act
What You Can Do Now

130 0- $a My neighbor Totoro (Motion picture)
257 -- $a Japan $2 naf
046 -- $k 1988
041 1- $a jpn $a eng $j eng $h jpn
700 1- $a Miyazaki, Hayao, $d 1941- $4 drt
   $4 aus
4. ONGOING METADATA CREATION AND MAINTENANCE
4a. TOOLS & FORMS
Ongoing Metadata Creation and Maintenance

TOOLS and FORMS for

- Inputting or importing records directly into the new system
- Editing records
- Deleting records
- Mass updating of data and records
Backend Tools & Forms

- Some experimentation with efficiencies from FRBR-based input forms
  - VTLS
  - RIMMF (RDA in Many Metadata Formats)
  - Variations/FRBR
Usability of Backend Interfaces Often Overlooked

Jenn Riley (2010):

- Catalogers need usable systems just like end users
- Input forms don’t have to mirror underlying data
- Make it easy to do the right thing, and hard to screw up (e.g., useful feedback, autocomplete)
4b. DOCUMENTATION FOR CATALOGERS
Ongoing Metadata Creation and Maintenance

DOCUMENTATION for

- Data elements
- Data sources
- Input standards
- Using the tools for data input and maintenance
4b i). DOCUMENTATION: SOURCES OF INFO ABOUT WORKS
Sources of Info About Works

Current cataloging rules

• Focus on manifestations/publications
• Based on the item-in hand
• AACR2: chief source, prescribed sources
• RDA: preferred source of information
Sources of Info About Works

Where should we get work info?

• AACR2: some guidance on uniform titles
• RDA: some guidance on preferred titles for works
• RDA: other work info from any source
Sources of Info About Works

Primary sources

• Title frames
• Container
• Inserts and guides

Can’t always rely on the piece-in-hand
Sources of Info About Works

Secondary sources

• Publisher’s or distributor’s brochure or website

• Reference sources
  – Print: International Motion Picture Almanac, Magill's Cinema Annual, Variety
Sources of Info About Works

Secondary sources

• Reference sources
  – Online, free: IMDb, AllMovie Guide, BFI Film & TV Database, Chinese Movie Database
  – Online, pay: AFI Catalog, Film Index International
Sources of Info About Works

Plan to compile a database of secondary sources and the types of information they contain

Preliminary investigation:
4b ii). DOCUMENTATION: OPERATIONAL DEFINITIONS & GUIDELINES
Attributes of WPE

Examples

- Title
- Date
- Language
- Sound, color
- Duration
- Summary or description
- Genre or form
- Work based on
Attributes of WPE

Primary Creators & Contributors

Varies based on type of work

- Feature film: director, lead cast
- Fiction TV series: exec producer, lead cast
- Instructional video: instructor
- TV news: producer, reporter, network
ACTIVITY 4: ATTRIBUTES FOR USER TASKS
Operational Definitions & Guidelines

• Define the data elements
• Provide guidance on how to determine and record data values
• Data about metadata:
  – Source of metadata
  – Additional information about metadata values
Data About Metadata

Source of metadata

• Where did this data come from?
• Needed at an element level, not the record level
• Always provide unspecified or unknown option
Data about metadata

Details about metadata

• **Language Form**: audio, textual (intertitles), textual (subtitles), other

• **Title Language**: identifies language of title
Date

Operational Definition

A statement of calendar time identifying when a moving image work was copyrighted, produced, recorded, and/or released / distributed / broadcast.
Date

Guidelines

• Primary sources of information often contain multiple types of dates or may lack dates completely.

• Recommend consulting secondary sources to verify the appropriate date when possible.
Date

Format for recording data

- Year: YYYYY (e.g., 1997)
- Year and month: YYYYY-MM
  1997-07
- Complete date: YYYYY-MM-DD
  1997-07-16

*Based on the International Standard for the representation of dates and times, ISO 8601: 1988 (E)
Date

Subelement example (elaboration)

• DateType
  – Copyright: year a moving image work is registered for copyright
  – Production
  – Recording
  – Release / Distribution / Broadcast
  – Unspecified
Date

Subelement example (source of data)

• DateSource
  – For primary and secondary source(s):
    Identifier (ISBN, OCLC#, URL and date)
  Or
    Textual citation
  – None/Unknown
The Dark Knight

Date: 2008

DateType: Release / Distribution / Broadcast

DateSource:
http://www.imdb.com/title/tt0468569/
Date

Touch the Earth Lightly

Date: 1994
DateType: Copyright
DateSource: OCLC: 83726028
DatePrimaryDataSourceLocation: title frames
5. SUSTAINABLE BUSINESS MODEL
SUSTAINABLE BUSINESS MODEL

We need to identify and leverage appropriate economic and workflow efficiency incentives to support a sustainable model of collaborative maintenance of centrally-stored data about movies.
SUSTAINABLE BUSINESS MODEL

Brainstorm ideas for where to get

Funding
People to manage and improve metadata
People to manage and improve technology
Technological resources (server, etc.)
Interested in Participating?

Contact me at

Kelley McGrath
Metadata Management Librarian
University of Oregon Libraries
kelleym@uoregon.edu
(541) 346-8232