FRBR & Facets Go to the Movies:

Improving Access to Moving Image Materials in Libraries

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OUTLINE

- Use cases: What would we like to do? What could we do?
- Prototype catalog: how FRBR and facets might help us
- Background info on FRBR and facets
- OLAC work on moving images and FRBR
- Future directions: thoughts on how to get there from here

CAN YOUR CATALOG ANSWER THESE Q'S?

- A teacher wants movies that were originally in Spanish or from China or from French-speaking Africa

- After finding French films, the teacher wants to limit to versions that have a French soundtrack for a language class or prefers versions with English subtitles for a history or film studies class

HOW ABOUT THESE?

- A user wants to browse by original release date for early film or for recent releases or for 1950s sci-fi films

- The 1950s sci-fi film fan wants to further limit to 2011 publication dates to see what has come out on DVD recently

- Would you like a catalog that could easily answer these kinds of questions?

- What would such a catalog look like?

OLAC PROTOTYPE

- If a picture = 1000 words then an interactive demo = 1000 pictures
- Funded by Online Audiovisual Catalogers (OLAC)
- Developed by Chris Fitzpatrick
- Open source tools: Ruby on Rails, Solr, Blacklight and Hydra plugins

OLAC PROTOTYPE

Caveats
- Small number of records (ca. 150 movies and programs in ca. 200 publications)
- Only a few representative attributes (director, but not cast; no duration)
- Simplified data modeling
- Shoestring budget for development

OLAC PROTOTYPE

- Prototype:
  http://blazing-sunset-24.heroku.com

- Code:
  https://github.com/cfitz/olac

Movie (mostly work) facets

Limit By Movie or Program:

Genre: Horror (12) [remove] Fiction (11) Experimental (6) Feature (6) Short (6) Ballet (1) Dance (1)
more »

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)

Director: Fisher, Terence, 1904-1980 (2) Browning, Tod, 1882-1962 (1) Coppola, Francis Ford, 1939- (1)
Laitala, Kerry (1) Maddin, Guy (1) Murnau, F. W. (Friedrich Wilhelm), 1888-1931 (1) Packard, Damon (1)
more »

Version (expression/manifestation/item) facets

Limit By Version:

At Library:	Spoken Language:
C (14) [remove]	English (8)
	None (5)
Format:	French (1)
	Spanish (1)
DVD (8)	
VHS (6)	**Subtitle/Caption Language:**
Publication Date:	English (9)
	French (4)
1990s (6)	
2000s (6)	
1980s (2)	

Hit List

1. Dracula (1931)

Director:	Browning, Tod, 1882-1962	Results focused on movie (work)
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)   **Library:** D   Fulfillment options below (expression, manifestation, item)
Spoken Language: English
Aspect Ratio: Unspecified(Unspecified)

DVD (2006)   **Libraries:** B , D , E ,
Spoken Language: English
Subtitle Languages: English; French; Spanish;
Aspect Ratio: Full screen (1.33:1)

WHAT ARE FACETS?

HDTVs
LCD HDTVs
Plasma HDTVs
LED HDTVs
TV-DVD Combos
Portable & Novelty TVs
> All TVs and HDTVs

Shop by Price
$0-$250
$250-$500
$500-$750
$750-$1,000
$1,000-$1,500
$1,500-$2,000
$2,000 & Above

Featured Brands
Samsung
Sony
LG
VIZIO
Panasonic

- Familiar from ecommerce

- Becoming more common in library catalogs

Narrow Your Search
☐ Currently available
☐ Available online
☐ New titles

⊟ **Subject**
Criticism and interpretation (697)
History (697)
History and criticism (542)
Stage history (351)
Theater (251)
Show more

⊟ **Genre**
Reference (321)
Dictionaries (184)
Electronic books (163)
Biography (140)
Primary Sources (108)
Show more

⊟ **Format**
Book (3481)
Online (368)
Videos and DVDs (74)
Audio (31)
Journal, Magazine, or Serial (28)

WHAT ARE FACETS?

Faceted interfaces provide clickable categories that allow users to refine and narrow their search without re-entering a query

WHY FACETS?

Facets…

- Support exploration and browsing
  - Empower users to do more complex searches simply
  - No zero result sets

WHY FACETS?

Facets…

- Require no prior knowledge of the collection or the indexing vocabulary
  - Not a blank screen
  - Communicate scope of collection
  - Present attributes for searching

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
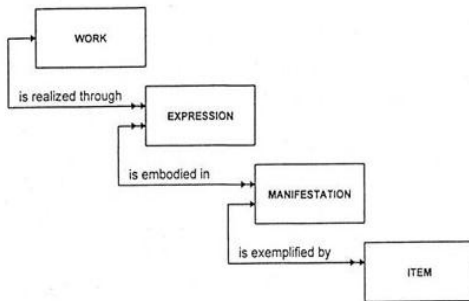
BROWSING IN LIBRARIES

- 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

WHAT IS FRBR?

FRBR WORK

Tim Spalding's "cocktail party" test

Would two people talking about a movie (or book) think they are discussing the same thing even if they watched (or read) two different versions?

- Large print vs. regular print
- Original voices or dubbed anime

FRBR ENTITIES

- Work: intellectual or artistic essence
- Expression (Version): content varies
  - Theatrical release vs. director's cut
- Manifestation (Publication): packaging varies
  - Blu-ray vs. DVD; change in publisher
- Item: object varies
  - Barcode; coffee stain

HOW CAN FRBR HELP? PATRON VIEW

Work-Focused Display

Similar to the Internet Movie Database or AllMovie Guide (work vs. DVD releases)

HOW CAN FRBR HELP? PATRON VIEW

Work-Focused Display

Highlights attributes that patrons care about

- People: directors, cast, crew
- Country of production
- Original language, date
- Summaries and topics
- Genre

HOW CAN FRBR HELP? PATRON VIEW

Version/Publication Differentiation

Manifestation (packaging)

- DVD vs. Blu-ray vs. streaming
- Publisher change

Expression (content)

- Widescreen vs. full screen
- Soundtrack & subtitle options

HOW CAN FRBR HELP? METADATA

Metadata creation & maintenance

- Reduces redundancy and workload
  → Saves money and time

- Improves accuracy and quality

CURRENT RECORDS MIX FRBR LEVELS

Citizen Kane (Motion picture)

Citizen Kane [videorecording] / an RKO Radio Picture … direction-production, Orson Welles.

2 videodiscs (120 min.) : sd., b&w ; 4 3/4 in.

Burbank, CA : Warner Home Video, [2001]

DVD. Dolby mono…

Closed-captioned; in English with optional English, French, Spanish, or Portuguese subtitles.

Academy Awards, 1942: Best Writing, Original Screenplay.

Charles Foster Kane, a newspaper icon…

Welles, Orson, 1915-1985.

MULTIPLE HITS FOR WORKS

#4 DVD VIDEO 57   [BBC, 1982]
  Macbeth [videorecording]
   Sutton, Shaun.
  2000

#5 VIDEO VHS 11255   [Thames TV, 1979]
  Macbeth [videorecording]
   Nunn, Trevor.
  1991

#6 VIDEO VHS-SP 9405   [Orson Welles, 1948]
  Macbeth [videorecording] 45th anniversary ed.
   Shakespeare, William, 1564-1616.
  1992

FRBR & MOVIES

Practical cataloging problems

Online Audiovisual Catalogers (OLAC) task force looked at various issues related to applying FRBR to moving images

WHAT IS A MOVING IMAGE WORK?

FRBR work definition

"distinct intellectual or artistic creation"

What do you do with the thing on your desk?

Movie adaptation of a novel?

WHAT IS A MOVING IMAGE WORK?

Work/Primary Expression

- Practical compromise
  work + primary expression (history)

- Primary expression usually =
  first public release

WHAT IS A MOVING IMAGE WORK?

Why Work/Primary Expression

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

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

BOUNDARIES OF MOVING IMAGE WORKS

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

NEW WORK?

- Feature film based on novel

- Remake using same script (Gus Van Sant's shot-by shot remake of *Psycho*)

- Theatrical release vs. unrated version

ATTRIBUTES OF WORKS

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

ATTRIBUTES OF WORKS

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

SOURCES OF WORK INFO

Where should we get work info?

- AACR2: some guidance on choosing uniform titles
- RDA: some guidance on choosing preferred titles for works
- RDA: other work info from any source

SOURCES OF WORK INFO

Primary sources

- Title frames
- Container
- Inserts and guides

Can't always rely on the piece-in-hand

SOURCES OF WORK INFO

Secondary sources

- Publisher's or distributor's brochure or website
- Reference sources
  – Print
  – Online (free and subscription)

OPERATIONAL DEFINITIONS & GUIDELINES

- Define the data elements
- Provide guidance on how to determine and record data values
- Additional data about metadata:
  – Provenance
  – Elaboration/specificity

DATA ABOUT METADATA

Provenance of metadata

- Where did this data come from?
- Needed at an element level, not the record level
- Trust, but verify in shared environment

FROM HERE TO THERE?

Is there a way to get FRBR work data out of MARC bibliographic records in a standardized form that could be used for facets?

OLAC has experimented with this.

ORIGINAL DATE

Not recorded in a consistent way or place

- 008 Date2 (with p or r)
- 008 Date1 (local practice with p or r)
- 033 $a (TV broadcast date)
- 046 $k (date of work)
- 500/518 Originally broadcast on television on June 5, 2006

ORIGINAL DATE

Optimal approach for faceting and computer-comprehension

MARC 046 $k
Beginning or single date created

- **046 $k** 19981022

- **046 $k** 2008

IDENTIFY DATA IN MARC RECORDS

008 DtTp	008 Date1	008 Date2	500 Note
s	1998		Originally *broadcast* as a CBS *television* special on June 16, **1998**.
p	2004	**1935**	Originally *produced* as a *motion* picture in **1935** … Special features: … on the Hy Gardner Show **1961** *broadcast*
s	2004		DVD *release* of the **1935** *motion* picture…
p	**1935**	1992	

IDENTIFY BEST VALUE

Title	008 Year	500 Year
AFI's 100 years, 100 movies	NULL	**1998**
A night at the opera	**1935**	1935 ; 1961→ **1935**
A night at the opera	NULL	**1935**
A night at the opera	**1935**	NULL

CLUSTER WORKS

Work	Title	Director	Year
1	AFI's 100 years, 100 movies	Smith, Gary	1998
2	**A night at the opera**	**Wood, Sam, $d 1883-1949**	**1935**
2	**A night at the opera**	NULL	**1935**
2	In der Oper	**Wood, Sam, $d 1883-1949**	**1935**

CREATE PROVISIONAL WORK RECORDS

Work	Title	Director	Year
1	AFI's 100 years, 100 movies	Smith, Gary	1998
2	A night at the opera	Wood, Sam, $d 1883-1949	1935

SUMMARY

- Use cases (how FRBR & facets might help)
- Prototype catalog (a taste of the possibilities)
- Practical issues for catalogers (how do we describe works)
- Strategies for mapping MARC data to normalized data about works

WHAT NEXT?

1. MARC → normalized, FRBR-based data
2. Develop end-user interface to take advantage of FRBR and facets
3. Support functions
   1. Backend interface for managing metadata
   2. Guidelines and documentation for catalogers

MORE INFO

Prototype http://blazing-sunset-24.heroku.com

OLAC Moving Image Work-Level Records Task Force Reports http://www.olacinc.org/drupal/?q=node/27

OLAC discussion group (lit review) http://www.olacinc.org/drupal/?q=node/434

McGrath & Bisko. "Identifying FRBR Work-Level Data in MARC Bibliographic Records for Manifestations of Moving Images" http://journal.code4lib.org/articles/775