



New bibliographic framework

AFTER MARC: OPTIONS

Aside: what we need to do

- *Identify the resources we are describing, e.g.*
<http://lccn.loc.gov/agr52000278>
- *Identify the data elements we are using, e.g.*
<http://rdvocab.info/Elements/title>
- *Identify (where possible) the information of our description, e.g.*
<http://www.geonames.org/4984247/ann-arbor.html>

Aside: what we need to do

<http://www.worldcat.org/oclc/474017053>

<http://viaf.org/viaf/27068555>

<http://purl.org/dc/terms/creator>



RDA scenarios

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RDA Database Implementation
Scenarios

1. Relational/object-oriented
2. Linked bibliographic and authority records
3. Flat file (no links)

Scenario 3: 'Flat file' database structure (no links)

BIBLIOGRAPHIC RECORD

Authorized access point representing the expression*
 Title proper*
 Statement of responsibility
 Edition statement
 Publication statement
 Carrier type
 Extent
 Nature of the content
 ...
 Item-specific carrier characteristic
 Custodial history of item
 Restrictions on access
 ...
 Variant title*
 Authorized access point representing person associated with the work*
 Relationship designator
 Authorized access point representing person associated with the expression*
 Relationship designator
 Authorized access point representing related work*

NAME AUTHORITY RECORD

Authorized access point representing the person*
 x Variant access point representing the person*
 xx Authorized access point representing related person*
 ...

NAME-TITLE AUTHORITY RECORD

Authorized access point representing the expression*
 xx Authorized access point representing related work*
 ...

NAME AUTHORITY RECORD

Authorized access point representing the person*
 x Variant access point representing the person*
 xx Authorized access point representing related person*
 ...

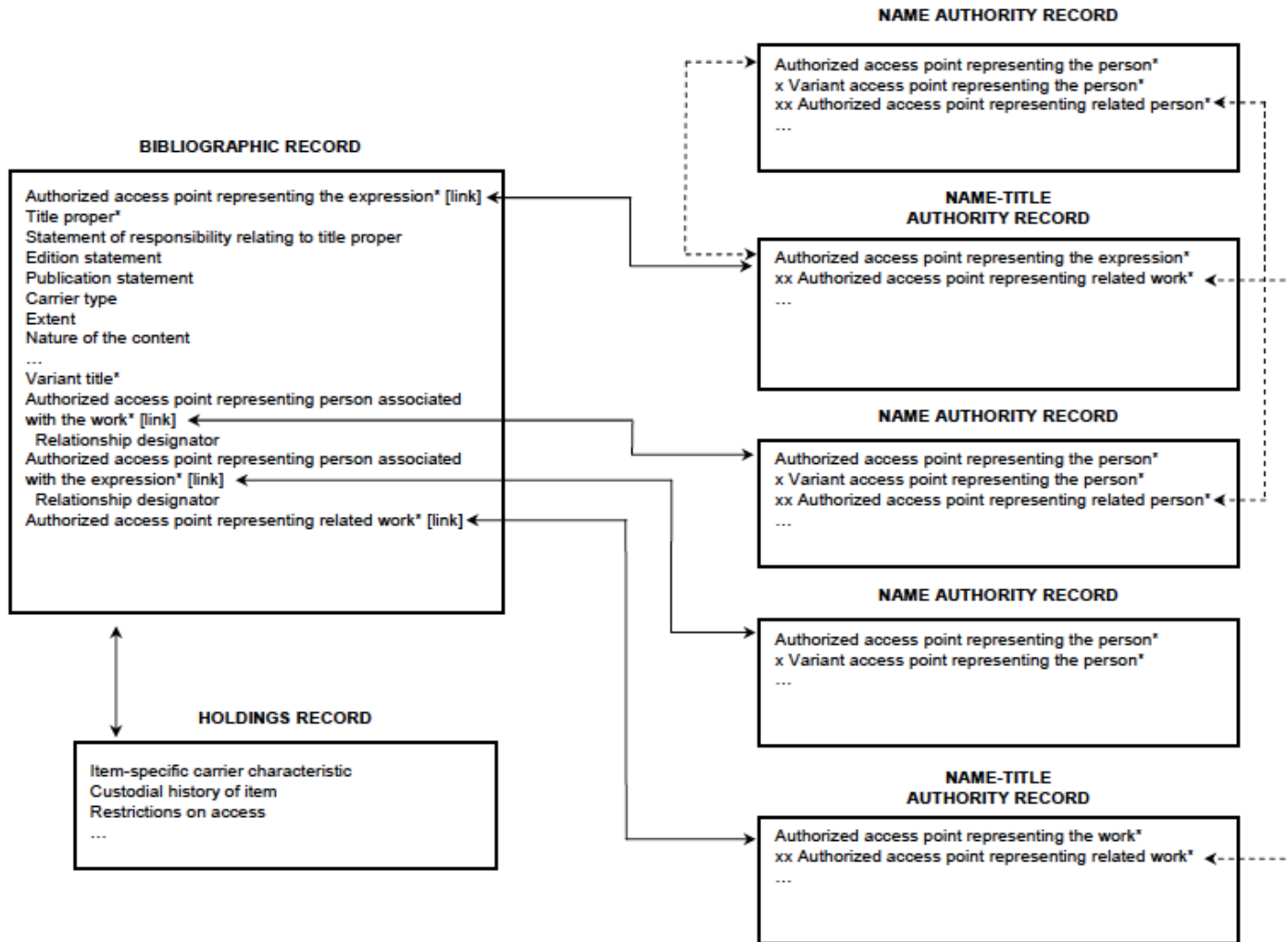
NAME AUTHORITY RECORD

Authorized access point representing the person*
 x Variant access point representing the person*
 ...

NAME-TITLE AUTHORITY RECORD

Authorized access point representing the work*
 xx Authorized access point representing related work*
 ...

Scenario 2: Linked bibliographic and authority records



New bibliographic framework scenarios

according to Coyle

1. Go native
2. Extract
3. Serialize

Serialize

“To put data into a particular data format that can be stored or transmitted.”

Serialize

dc:title="Scheduling Ourselves to Death"

dc:date="2003"

dc:description="The use of office scheduling software has led to an increase in meetings, to the point that I am definitely scheduled for meetings after retirement, and probably even after death. The fault is in the basic premise of the software: you are either in a meeting, or available to be in a meeting."

dc:creator="Karen Coyle"

key/value pairs

Serialize

<dc:title>Scheduling Ourselves to Death**</dc:title>**

<dc:date>2003**</dc:date>**

<dc:description>The use of office scheduling software has led to an increase in meetings, to the point that I am definitely scheduled for meetings after retirement, and probably even after death. The fault is in the basic premise of the software: you are either in a meeting, or available to be in a meeting.**</dc:description>**

<dc:creator>Karen Coyle**</dc:creator>**

XML

Serialize

```
{  
  "title": "Scheduling Ourselves to Death",  
  "date": "2003",  
  "description": "The use of office scheduling software has led to an  
increase in meetings, to the point that I am definitely scheduled for  
meetings after retirement, and probably even after death. The fault is  
in the basic premise of the software: you are either in a meeting, or  
available to be in a meeting.",  
  "creator": "Karen Coyle"  
}
```

JSON

MARC & MARCXML

100 \$a Coyle, Karen

245 \$a Scheduling...

```
<datafield tag="100" ind1="1" ind2=" " >
```

```
<subfield code="a">Coyle, Karen
```

```
</subfield>
```

```
</datafield>
```

```
<datafield tag="245" ind1="1"
ind2="0">
```

```
<subfield code="a">Scheduling...
```

```
</subfield>
```

```
</datafield>
```

MARC to RDF

001 1234567

100 \$a Coyle, Karen

245 \$a Scheduling ourselves to death

MARC to RDF

1234567	100 \$a	Coyle, Karen
1234567	245 \$a	Scheduling ourselves to death

MARC to RDF

http://mystuff/123 4567	100 \$a	Coyle, Karen
http://mystuff/123 4567	245 \$a	Scheduling ourselves to death

MARC to RDF

http://mystuff/123 4567	http://mystuff/100 \$a	Coyle, Karen
http://mystuff/123 4567	http://mystuff/245 \$a	Scheduling ourselves to death

MARC to RDF

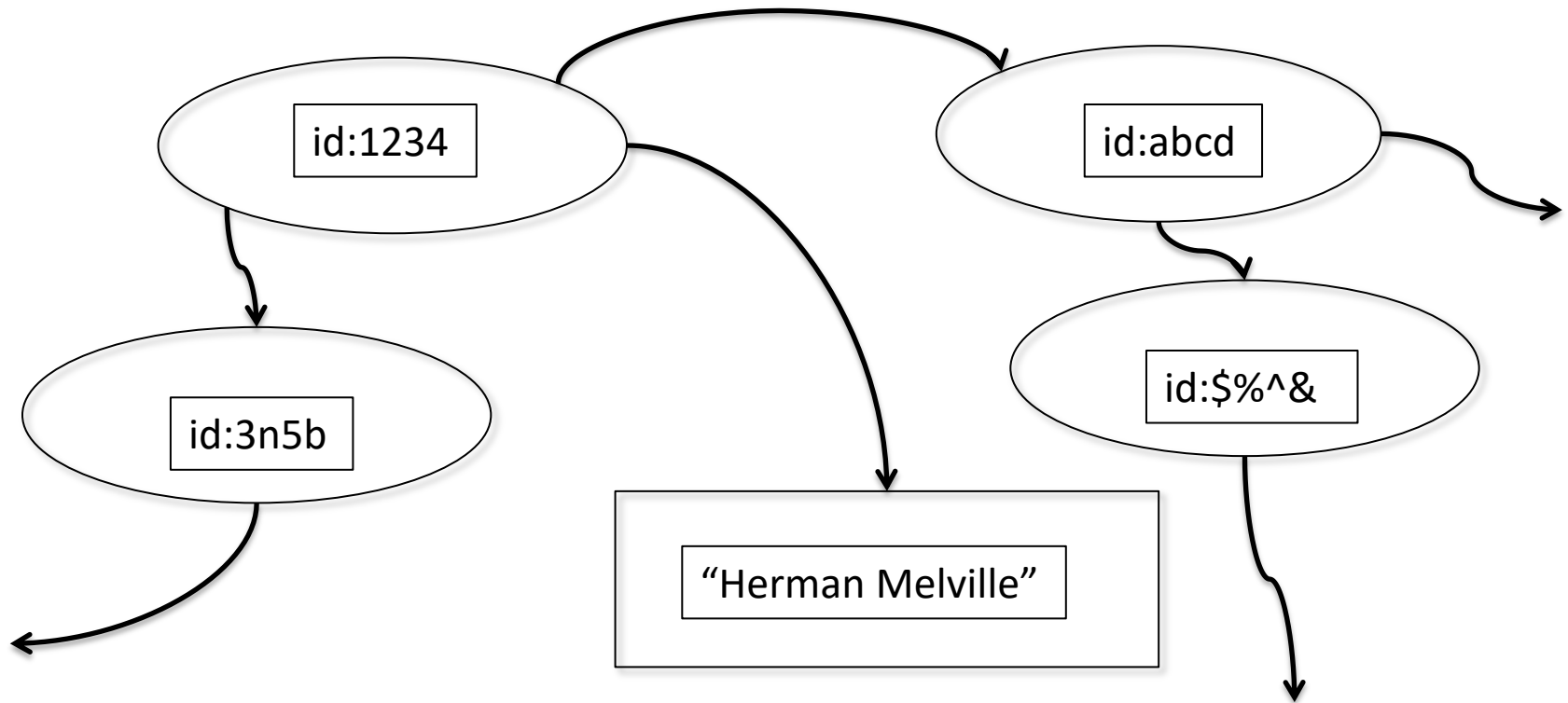
http://mystuff/123 4567	http://mystuff/100 \$a	Coyle, Karen
http://mystuff/123 4567	http://mystuff/245 \$a	Scheduling ourselves to death

subject URI

relationship
URI

“Text”

“things and strings”



MARC to RDF

http://mystuff/123 4567	http://mystuff/100 \$a	Coyle, Karen
http://mystuff/123 4567	http://mystuff/245 \$a	Scheduling ourselves to death
http://mystuff/123 4567	http://mystuff/830 \$v	457
http://mystuff/123 4567	http://mystuff/100 \$d	1949

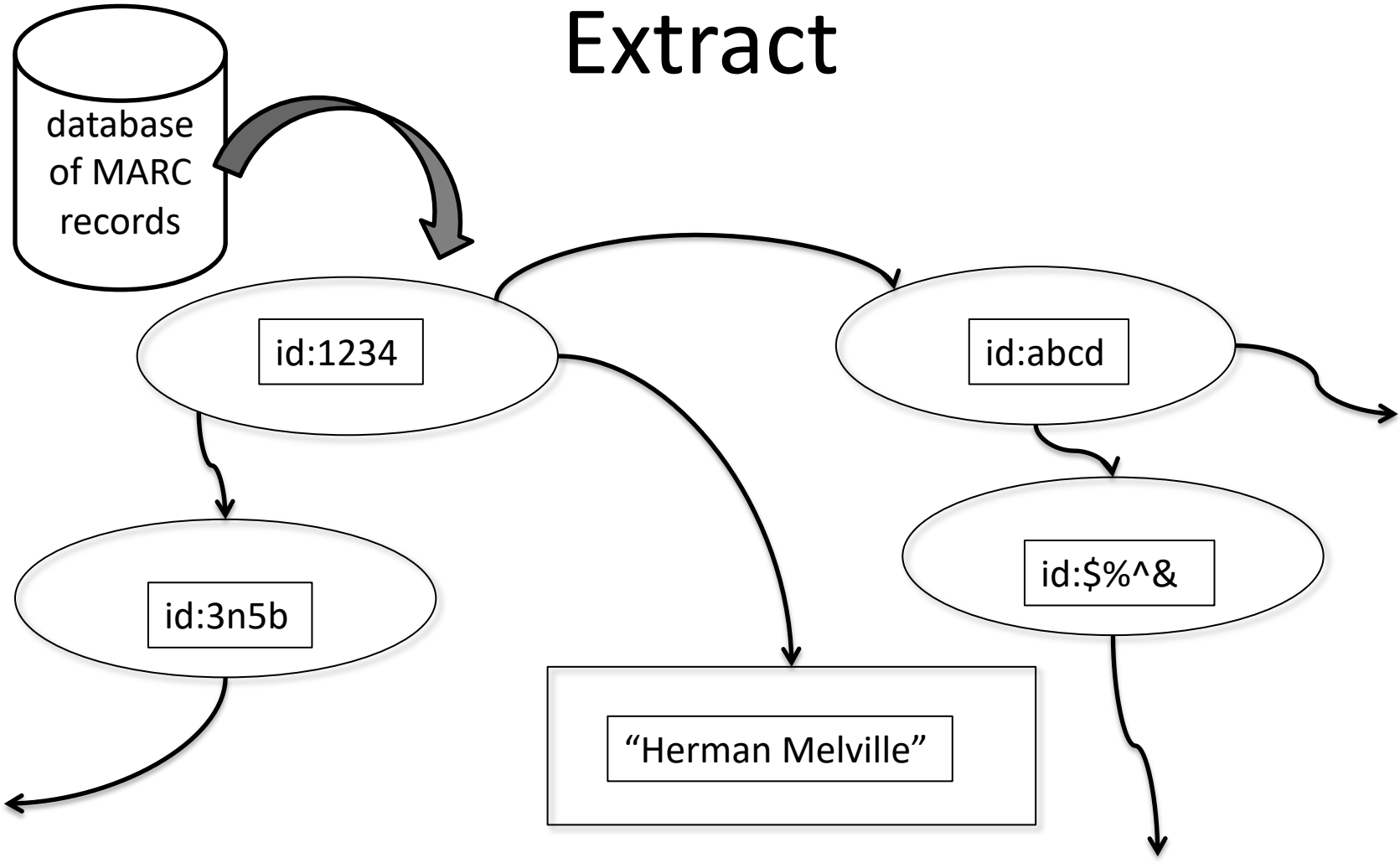
advantages

- mechanical
- doesn't change the data
- doesn't require system changes

disadvantages

- doesn't change the data
- keeps library data in a library-only silo
- doesn't link to any data outside of libraries

Extract



“things and strings”

What's a "thing"?

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5 / 5 Find 84.1%

Scenario 3: 'Flat file' database structure (no links)

BIBLIOGRAPHIC RECORD

- Authorized access point representing the expression*
- Title proper*
- Statement of responsibility
- Edition statement
- Publication statement
- Carrier type
- Extent
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- Restrictions on access
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NAME-TITLE AUTHORITY RECORD

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- ...

NAME AUTHORITY RECORD

- Authorized access point representing the person*
- x Variant access point representing the person*
- xx Authorized access point representing related person*
- ...

NAME AUTHORITY RECORD

- Authorized access point representing the person*
- x Variant access point representing the person*
- ...

NAME-TITLE AUTHORITY RECORD

- Authorized access point representing the work*
- xx Authorized access point representing related work*
- ...

What's a "thing"?

Work

Expression

Manifestation

Item

Person

Family

Corp

Object

Place

Concept

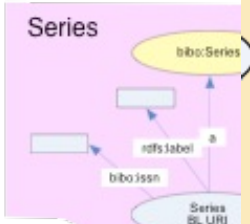
Event

FRBR

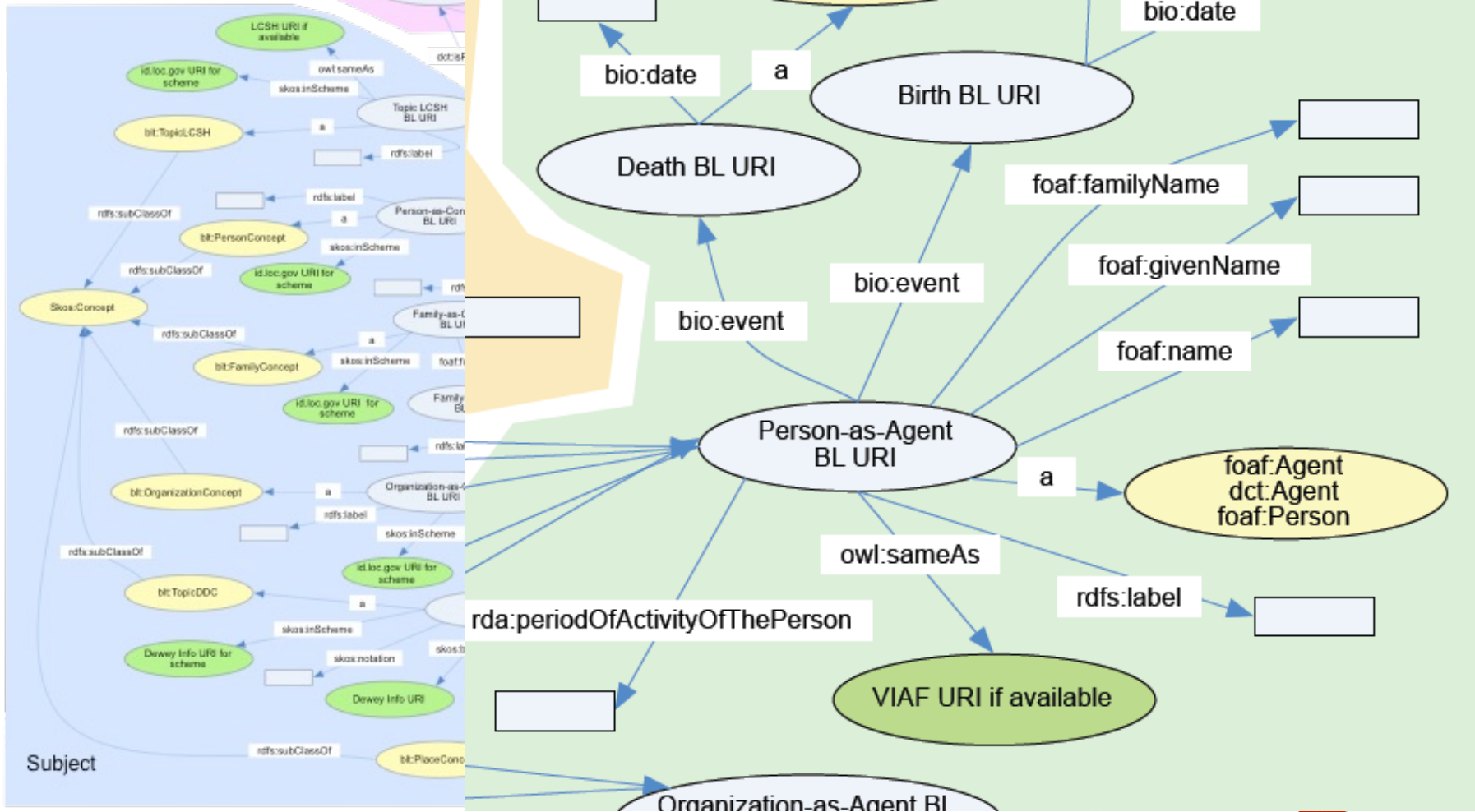
British Library Data Model

```

@prefix bit: <http://data.bl.uk/schemas/bit/ontology#>.
@prefix dci: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>.
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#>.
@prefix owl: <http://www.w3.org/2002/07/owl#>.
@prefix xsd: <http://www.w3.org/2001/XMLSchema#>.
@prefix dct: <http://purl.org/dc/terms/>.
@prefix skos: <http://www.w3.org/2004/02/skos/core#>.
@prefix bio: <http://purl.org/ontology/bio/>.
@prefix rda: <http://rdvocab.info/ElementsDct/>.
@prefix foaf: <http://xmlns.com/foaf/0.1/>.
@prefix event: <http://purl.org/NET/1/date/vent/dateTime/>.
@prefix org: <http://www.w3.org/2003/01/geo/wgs84_pos#>.
    
```

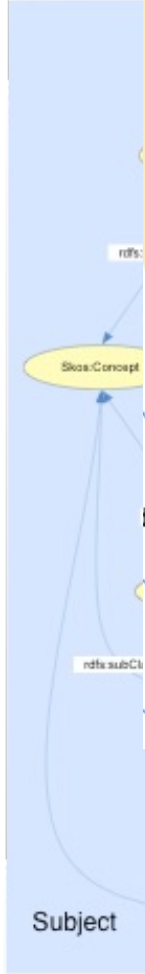
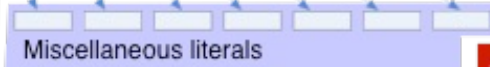
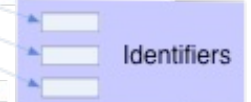
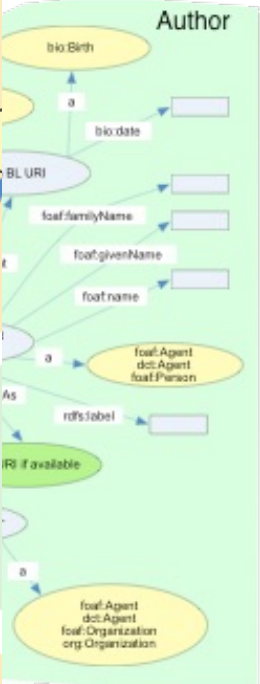
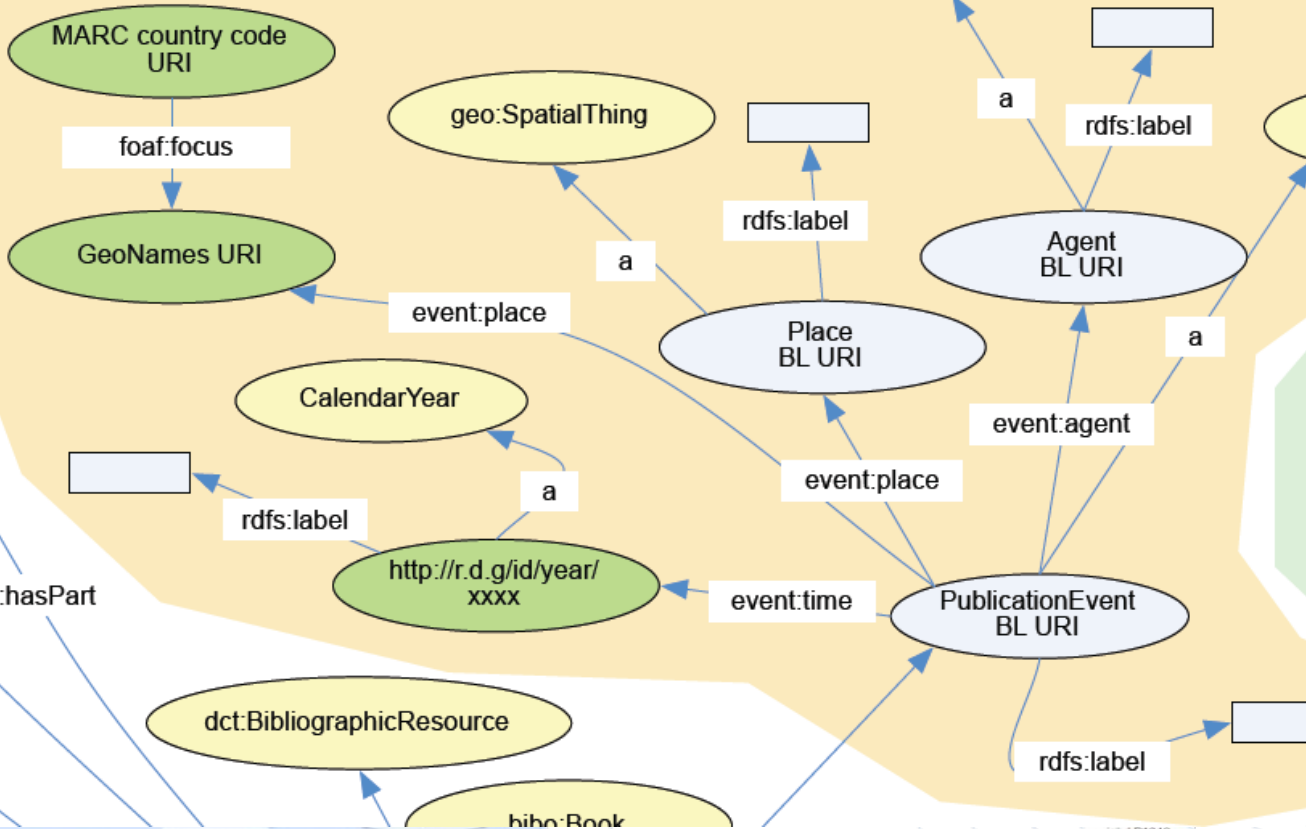


Author



@prefix int: <http://id.loc.gov/ontologies/int/>
 @prefix id: <http://www.wikidata.org/ontology/id/>
 @prefix rdfs: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
 @prefix owl: <http://www.w3.org/2002/07/owl#>
 @prefix skos: <http://www.w3.org/2004/02/skos/core#>
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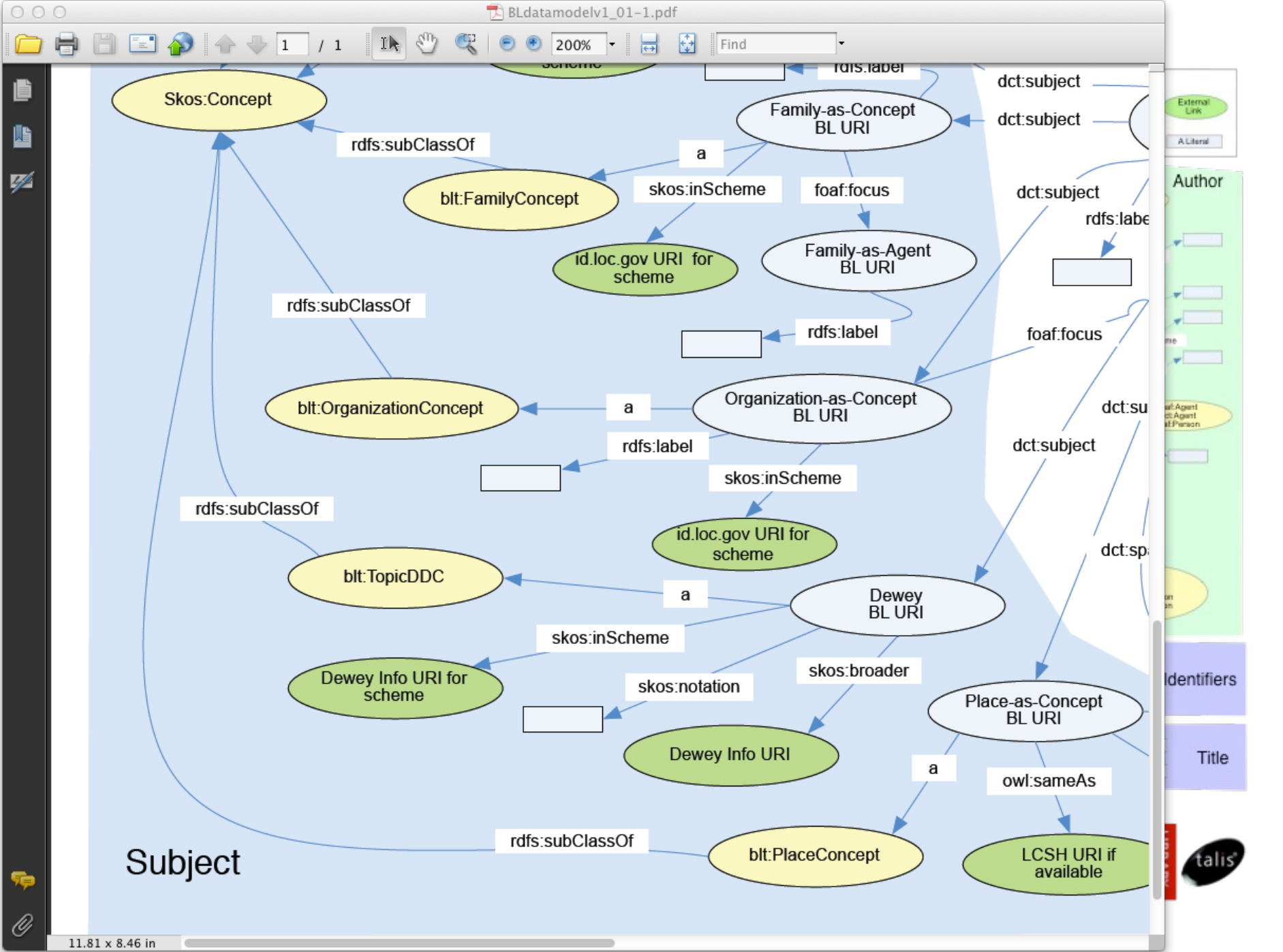
Publication Events



Tim Hodson - tim.hodson@talis.com
 Corine Dellec - Corine.Dellec@talis.com
 Alan Daniels - Alan.Daniels@talis.com
 Heather Rodin - Heather.Rodin@talis.com
 Jan Ashton - Jan.Ashton@talis.com

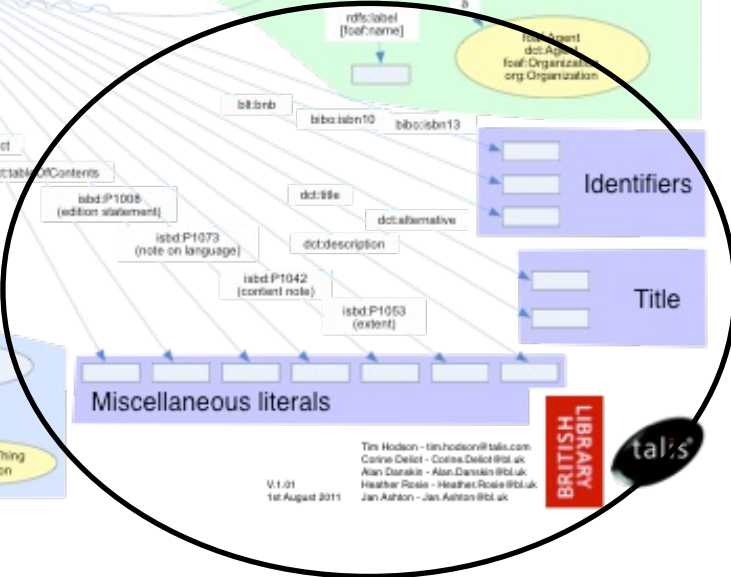
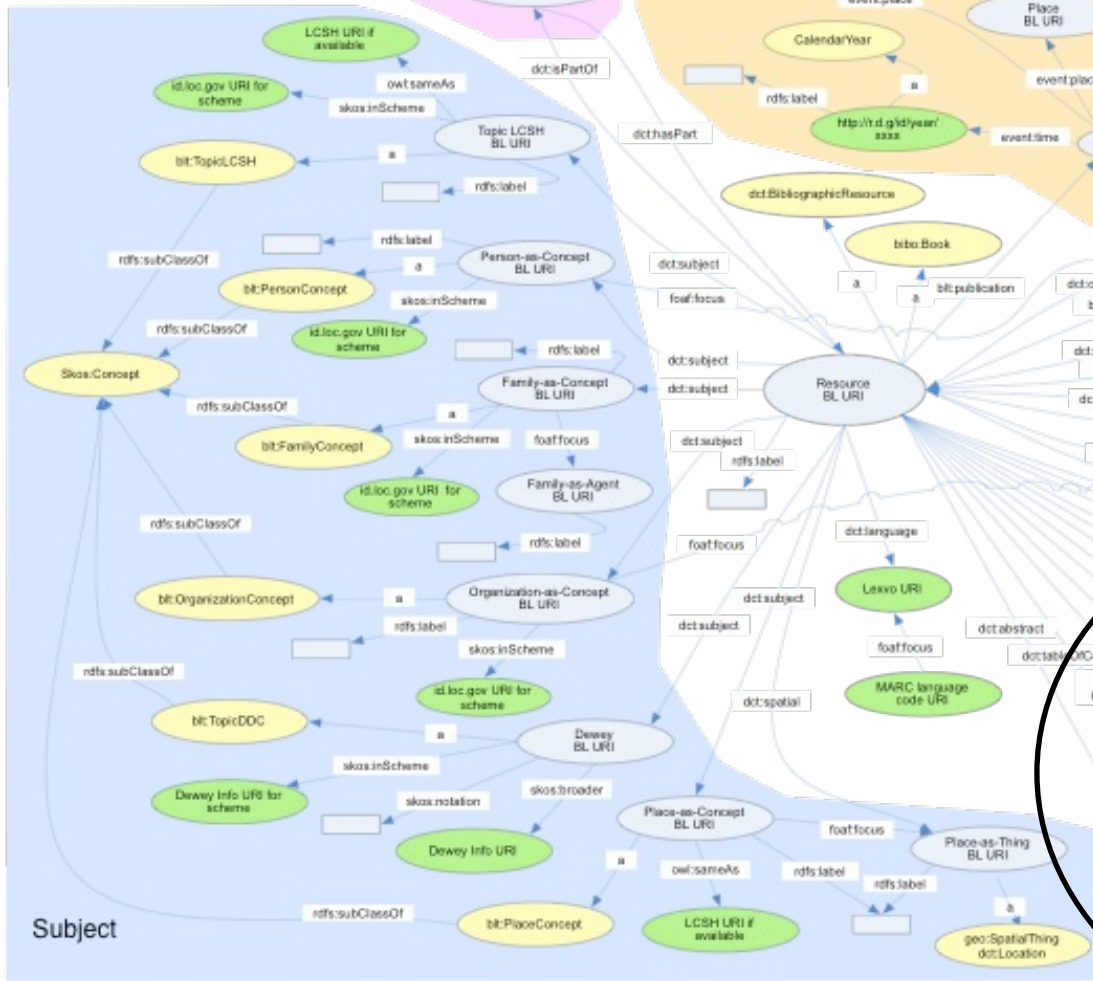
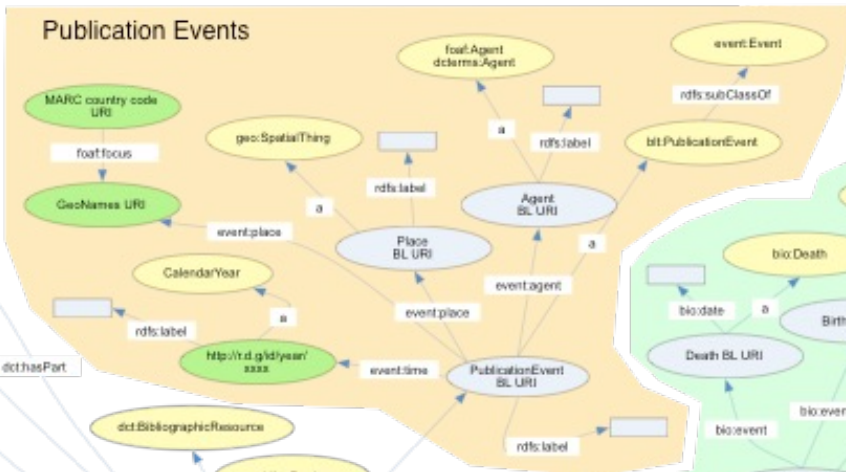
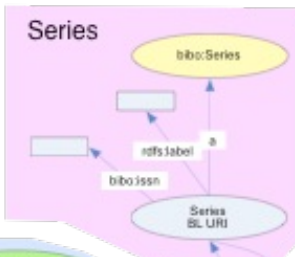
V.1.01
1st August 2011



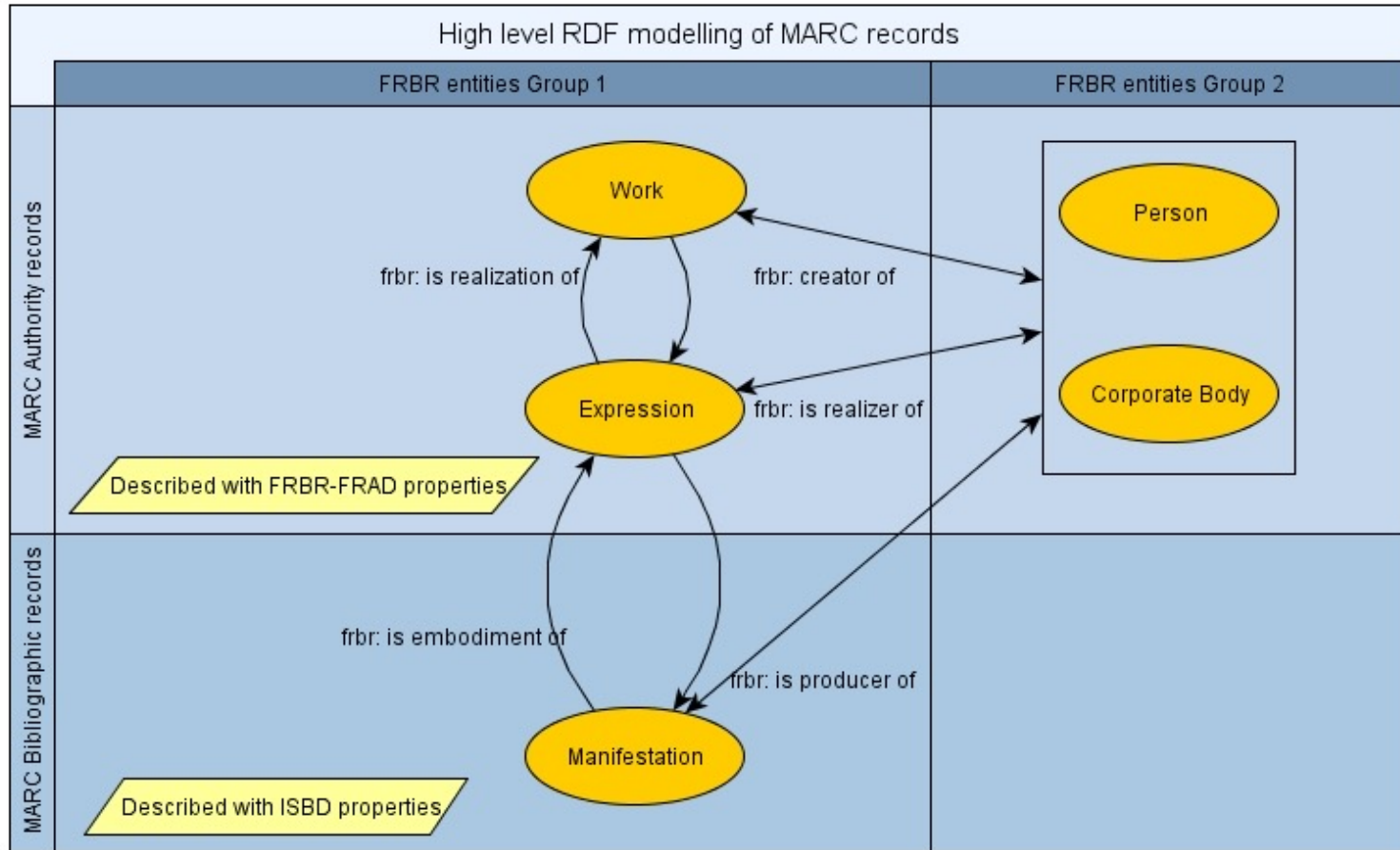


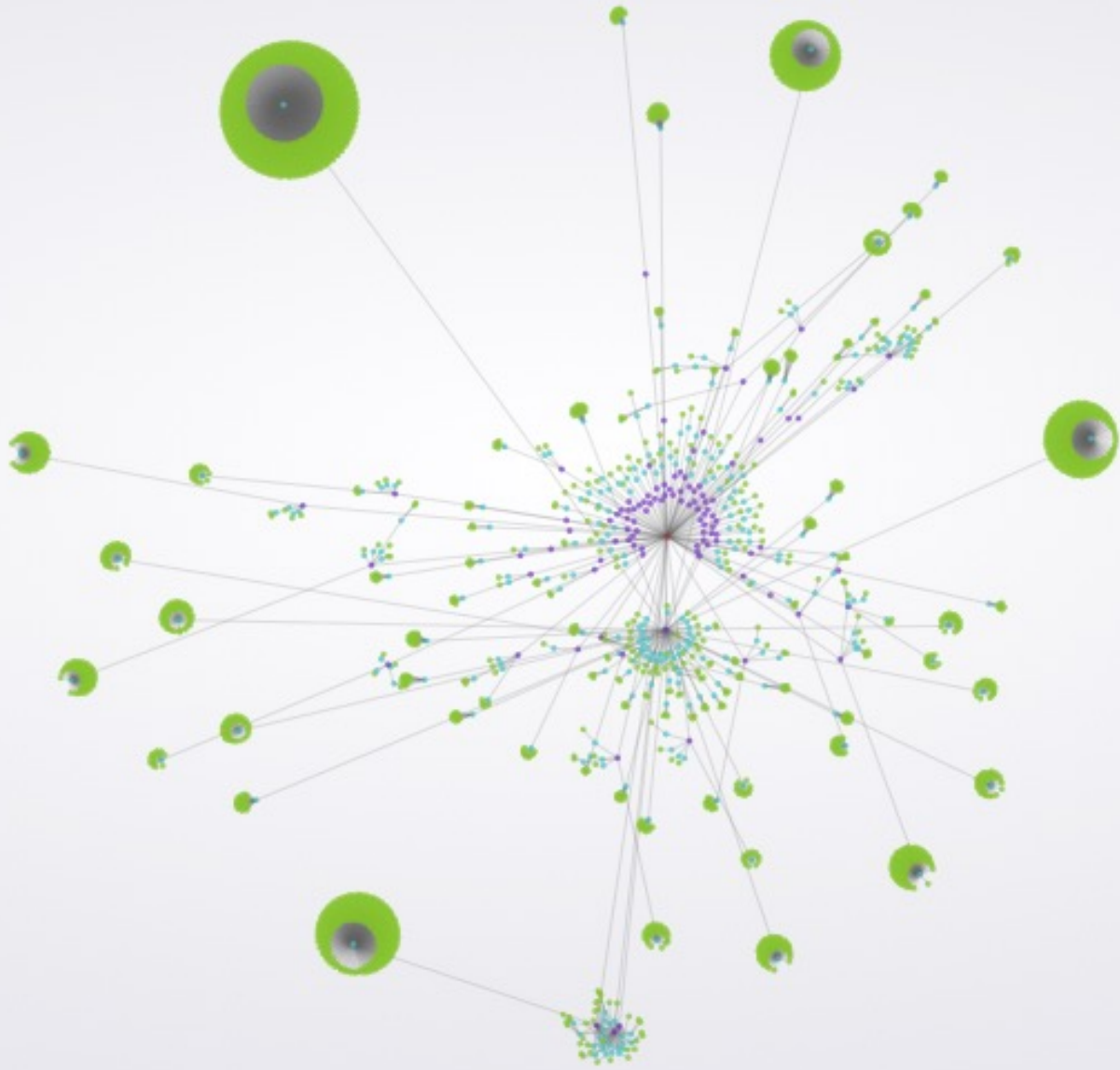
British Library Data Model

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 @prefix xsd: <http://www.w3.org/2001/XMLSchema#>
 @prefix dct: <http://purl.org/dc/terms/>
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 @prefix foaf: <http://xmlns.com/foaf/0.1/>
 @prefix event: <http://purl.org/NET/101/event.owl#>
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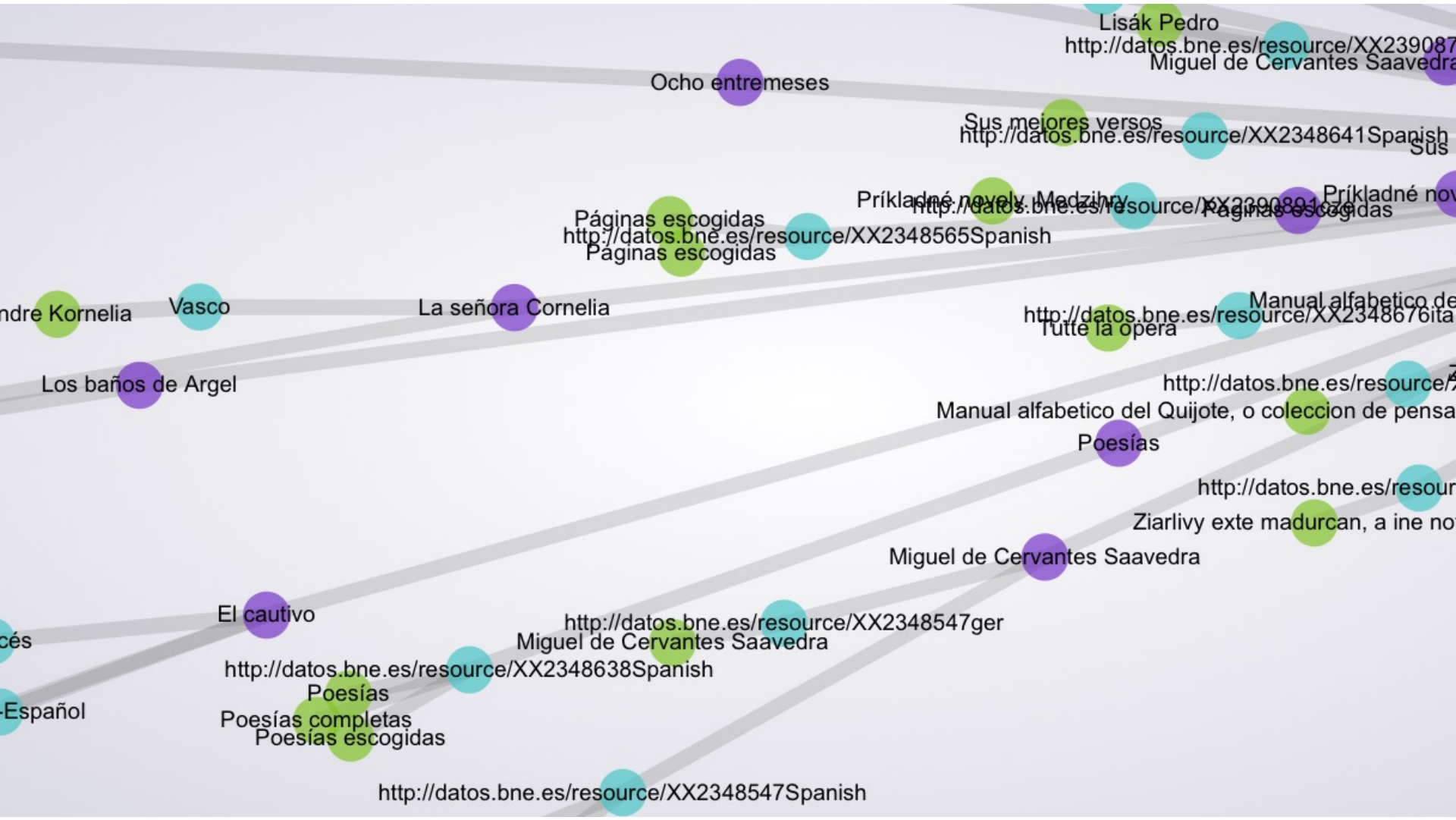


National Library of Spain (BNE)





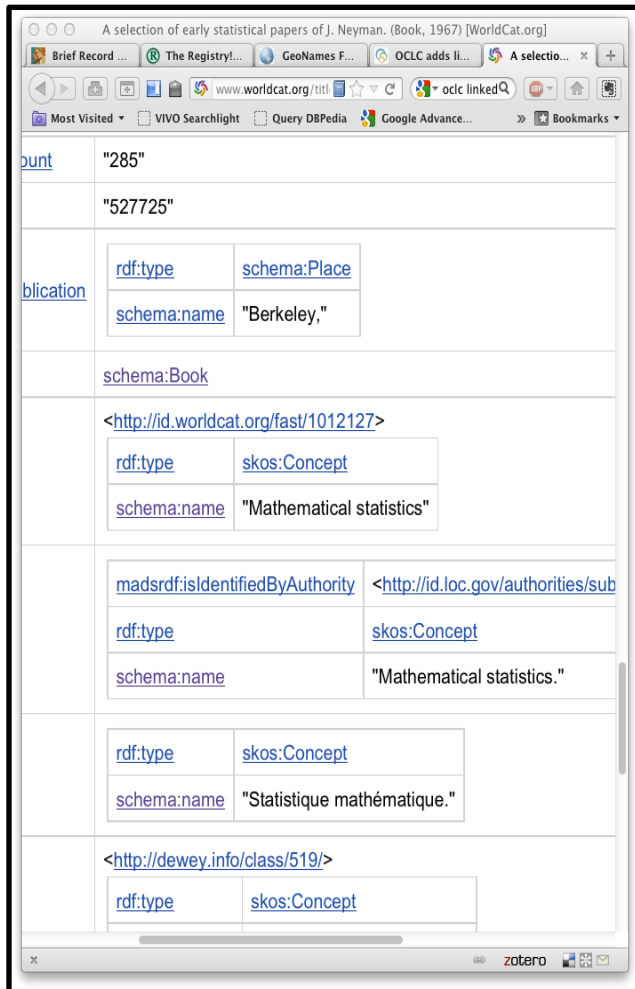




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Property	Value
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isbd:P1008	▪ Ed. crema
isbd:P1016	▪ Madrid
isbd:P1018	▪ [1946?]
isbd:P1019	▪ Madrid
isbd:P1020	▪ Imp. de Federico Domenech
isbd:P1022	▪ 504 p., [1] h. de lám.
isbd:P1024	▪ 15 cm
isbd:P1068	▪ Don Quijote de la Mancha
isbd:P1117	▪ Librería Beltrán
isbd:P1185	▪ [Texto impreso]
ifla-frbr:P2004	▪ bne:resource/XX3383563spa
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OCLC “linked data”



A selection of early statistical papers of J. Neyman. (Book, 1967) [WorldCat.org]

Number of pages: "285"

Number of pages: "527725"

Publication:

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schema:Book

<<http://id.worldcat.org/fast/1012127>>

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msrdf:isIdentifiedByAuthority: <<http://id.loc.gov/authorities/sub>>

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schema:name	"Mathematical statistics."

rdf:type: skos:Concept

schema:name	"Statistique mathématique."
-------------	-----------------------------

<<http://dewey.info/class/519/>>

rdf:type	skos:Concept
----------	--------------

- Uses microformats (RDFa and schema.org)
- Is embedded in the record display
- Was announced June 20, 2012

Extract

Advantages

- Does not require library system changes
- Can be re-extracted as we learn more
- Isn't visible to catalogers

Disadvantages

- Isn't visible to catalogers, so no human QC
- Key identifiers are not part of the base metadata
- Limited by what we put into records today

“go native”

- things, elements and values that have URIs
- a data design that stores things and relationships
- a creation interface that hides this from creators but maintains the integrity of the data

“go native”

Advantages

- Interoperability with web resources
- Interoperability with intent of RDA
- Possibilities for a richer library catalog, and one that does not require the user to choose between the library and the web as information resources

Disadvantages

- Requires replacement of library systems
- Difficult to make the cost/benefit argument

... MORE THOUGHTS?