

CILIP Executive Briefings 2014



RDA: Resource Description and Access

Thursday 12 June 2014

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#CILIPRDA14



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RDA in a linked data world

Gordon Dunsire, Chair of the Joint Steering Group for Development of RDA

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#CILIPRDA14




RDA in a linked data world

Gordon Dunsire

Presented at CILIP RDA: Resource
Description and Access Executive Briefing
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Overview

- ❖ Linked data 101
 - ❖ RDA entities and relationships
 - ❖ RDA and linked data
- 

Linked data ✨ links 2 specific things

Of interest to
Libraries
Archives
Museums

purchased
owned
autographed

Of interest to
Publishers
Booksellers

Item is donated by Person

borrowed
conserved
photocopied

Of interest to
The Crowd
The Cloud
Semantic Web

Linked data

✦ goes both ways

Entity

relationship

Entity

purchaser

owner

autographer

Person is

donor

of Item

borrower

conserver

photocopier

Linked data

✦ needs identities

Which person?

“Jane Smith,
the author of
‘Paper’, OUP, 2001”

Person is

“Smith, Jane, 1975-”

{URI}

Uniform
Resource
Identifier

Global

purchaser

owner

autographer

donor

borrower

conserver

photocopier

{URI}

Which item?

“The one in
the Reference
section”

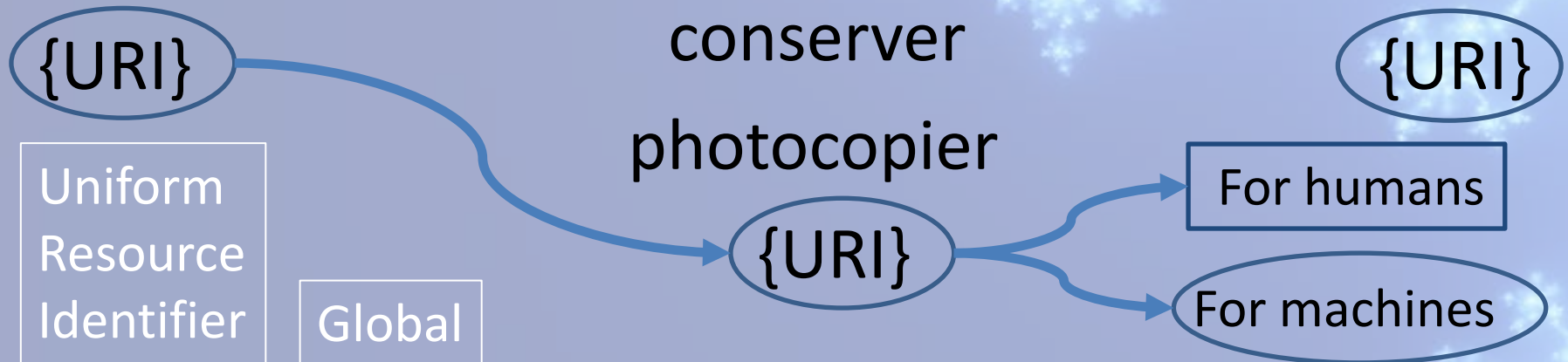
of Item

“0123-456-789”

{URI}

For humans

For machines

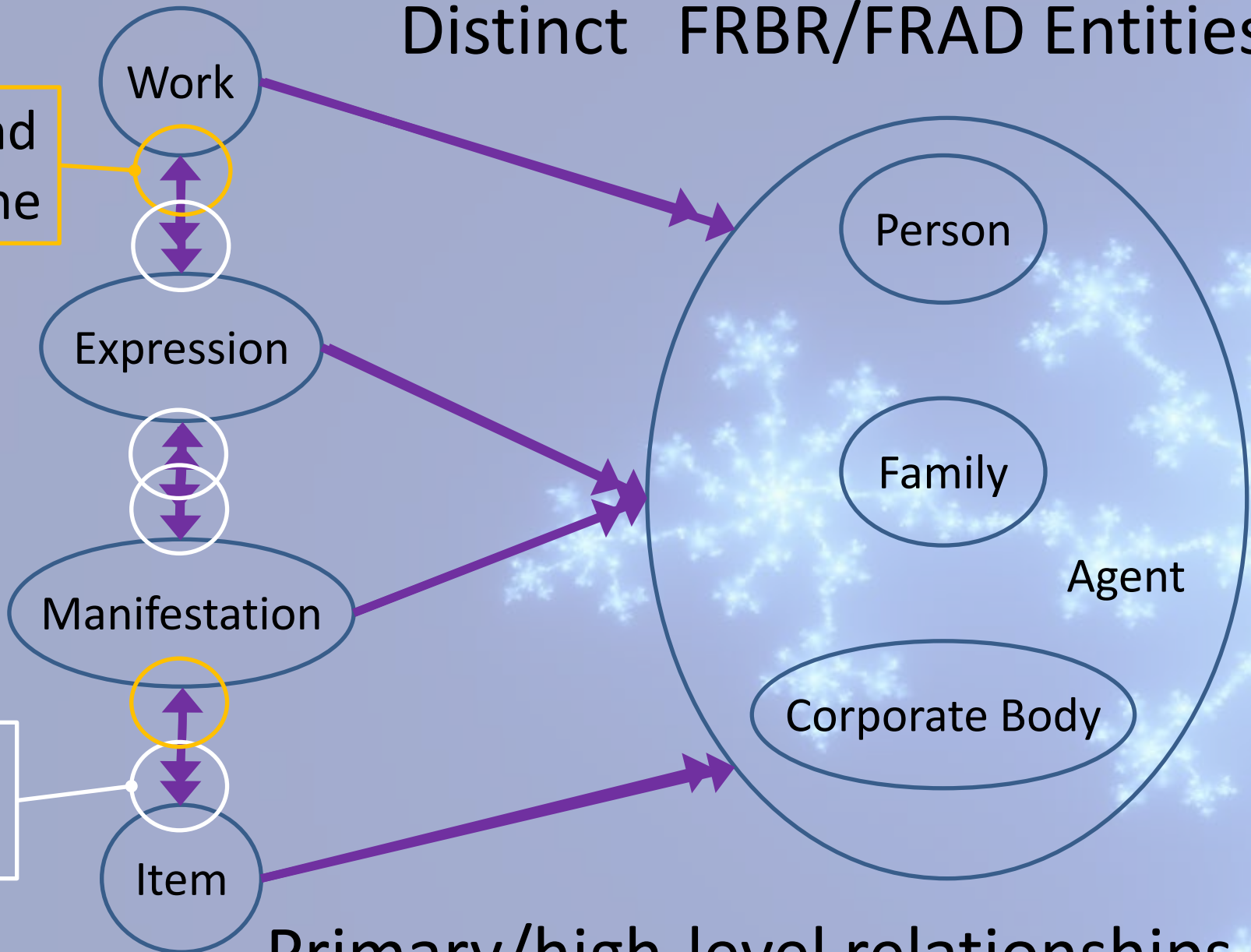


RDA entities

- ❖ Based on modern international models
 - ❖ Work, Expression, Manifestation, Item, Person, Corporate Body (FRBR)
 - ❖ Family (FRAD)
- ❖ Work-Expression-Manifestation-Item are discrete components of a resource. This avoids duplication of data
 - ❖ E.g. Work creator and Expression language are linked to, not copied in, multiple Manifestation descriptions such as a printed book and e-book

Distinct FRBR/FRAD Entities

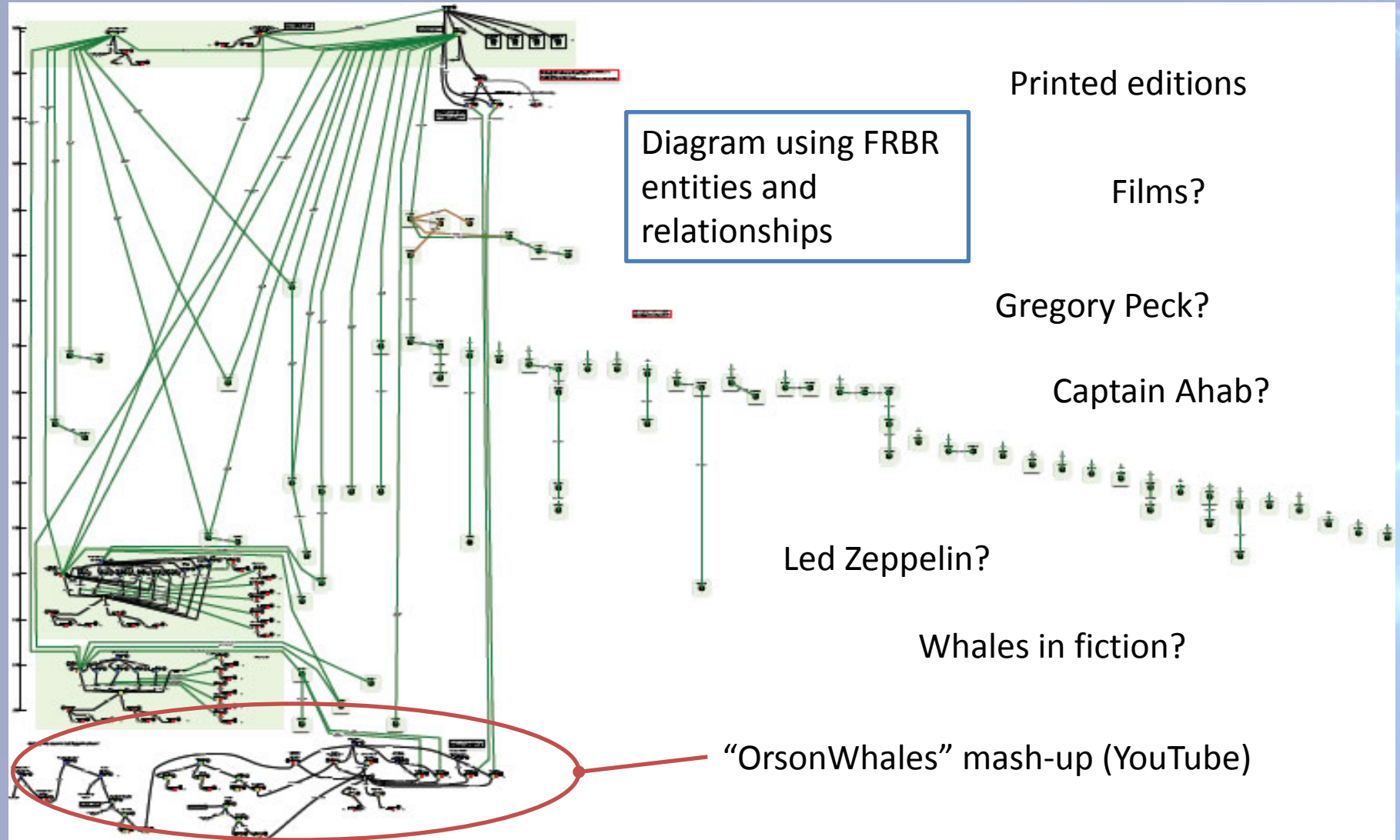
One and only one



One or more

Primary/high-level relationships

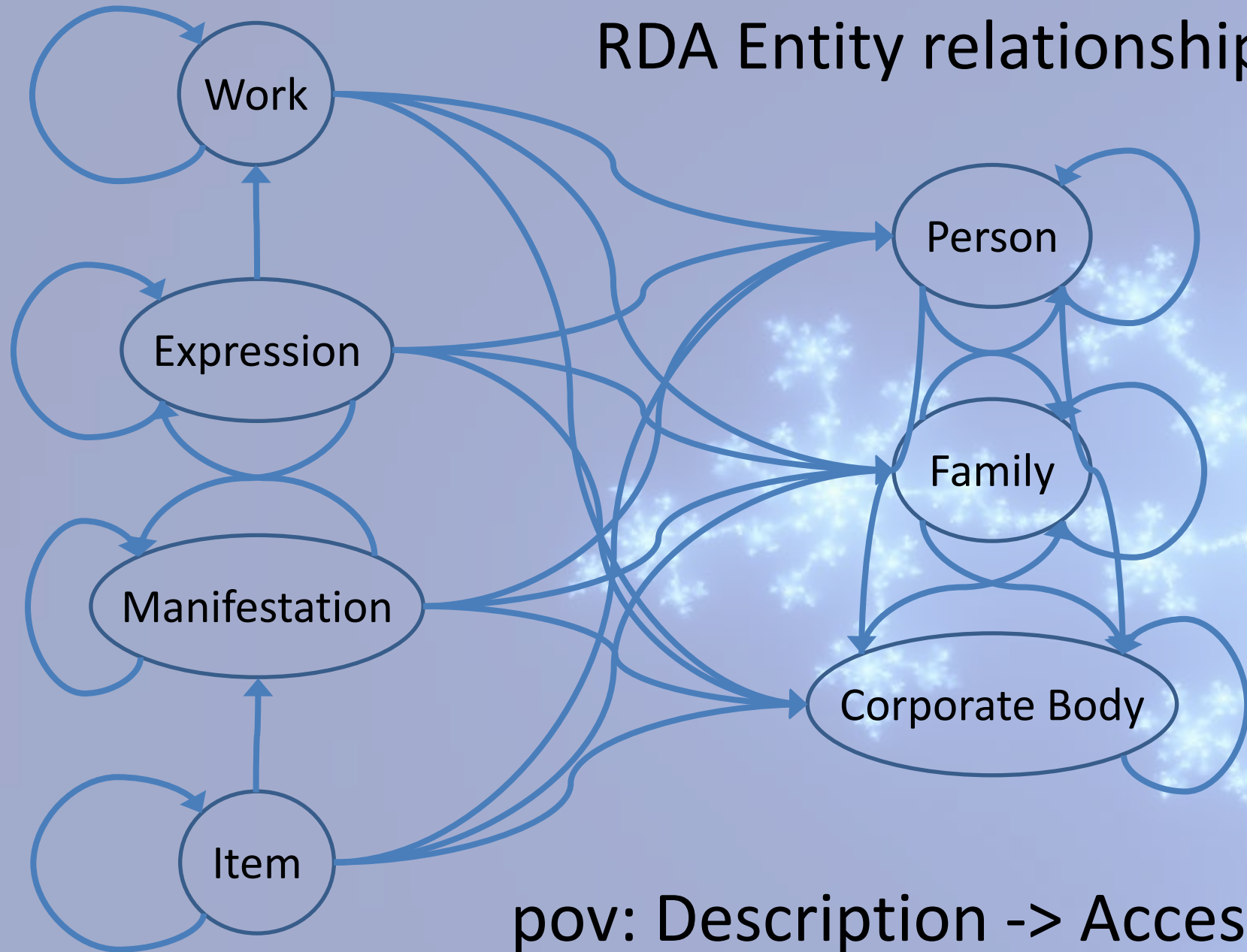
Complexity of relationships: Moby Dick



Ronald J. Murray: From Moby Dick to mash-ups

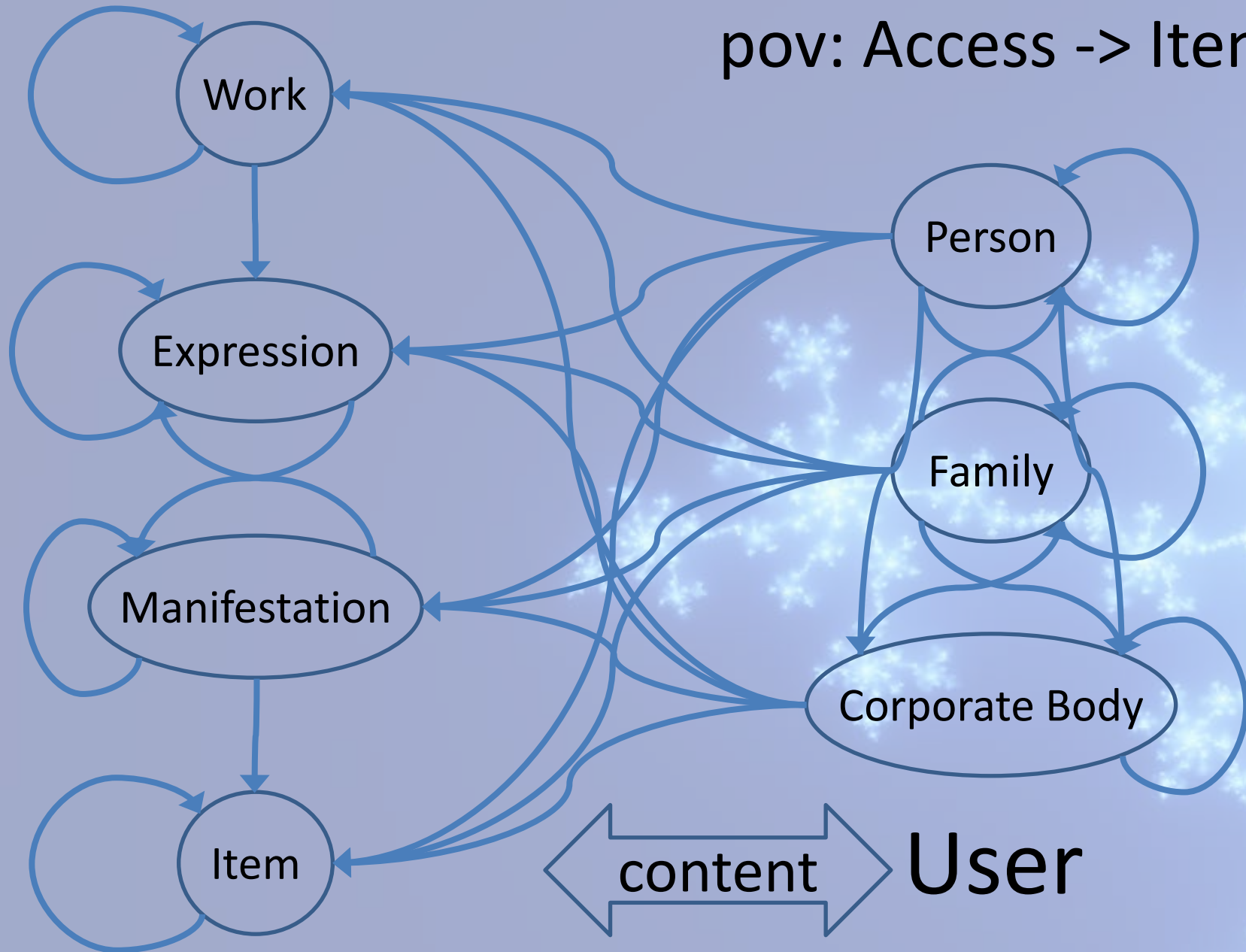
<http://www.slideshare.net/RonMurray/from-mobydick-to-mashups>

RDA Entity relationships



pov: Description -> Access

pov: Access -> Item



RDA Registry

- [RDA Registry](#) (Home)
- [Elements](#) (RDA element sets)
 - [Classes](#)
 - [Work properties](#)
 - [Expression properties](#)
 - [Manifestation properties](#)
 - [Item properties](#)
 - [Agent properties](#)
 - [Unconstrained properties](#)
- [Values](#) (RDA value vocabularies)
- [Data](#) (Linked data using RDA vocabularies)
 - [Examples](#) (Single resource)
 - [Datasets](#) (Multiple resources)
- [Tools](#)
 - [Maps](#) (RDF maps between RDA vocabularies and other namespaces)
 - [Alignments](#) (Alignment tables for RDA vocabularies and other namespaces)
- [About](#) (More about the RDA vocabularies)
 - [Versions](#) (Version control)
 - [Deprecation](#) (Removal of vocabulary entries)
- [FAQ](#) (Answers to frequently asked questions)
- [Guide](#) (Guide to RDA vocabularies for technical communities)
- [Project](#) (RDA-Vocabularies project on GitHub)
- [RDA Toolkit](#) (Full text of RDA - subscription required)

Welcome to the RDA Registry!

The RDA Registry contains linked data and Semantic Web representations of the elements and relationship designators approved by the [Joint Steering Committee on Development of RDA \(JSC\)](#).

The RDA Registry is based on the [Open Metadata Registry](#). It is maintained by the JSC and [Metadata Management Associates](#) in association with [ALA Digital Reference](#).

Please use the contacts below for more information. Remember that questions or comments about individual RDA elements or concepts can be easily made by using the OMR feedback button on the far right center of the page describing the individual property (it is orange, with white lettering).

Contacts:

- [JSC: Gordon Dunsire](#)
- [MMA: Diane Hillmann](#)
- [OMR technical issues: Jon Phipps](#)
- [ALA Digital Reference: James Hennelly](#)

If you discover a problem with the representations of the RDA vocabularies, or have a question, or even wish to engage in a philosophical or practical discussion, please [raise an issue!](#)

rdaregistry.info



Web view of RDA elements (for humans)

Element Sets: Show detail for RDA Manifestation properties

Detail

Elements

History

Maintainers

Label	Type	URI	Status	Updated	Last Updated by	Actions
has carrier type	subproperty	.../Elements/m/P30001	Published	2014-01-19 3:51	Jsc Chair	
has media type	subproperty	.../Elements/m/P30002	Published	2014-01-19 3:51	Jsc Chair	

Detail

Label: has carrier type

Name: carrierType

URI: <http://rdaregistry.info/Elements/m/P30001> (RDF)

Description: Relates a manifestation to a categorization reflecting the format of the storage medium and housing of a carrier in combination with the type of intermediation device required to view, play, run, etc., the content of a resource.

has parallel designation of a named revision of an edition	subproperty	.../Elements/m/P30012	Published	2014-01-19 3:51	Jsc Chair	
has parallel designation of edition	subproperty	.../Elements/m/P30013	Published	2014-01-19 3:51	Jsc Chair	
has numbering within series	subproperty	.../Elements/m/P30014	Published	2014-01-19 3:51	Jsc Chair	
has numbering within subseries	subproperty	.../Elements/m/P30015	Published	2014-01-19 3:51	Jsc Chair	
is electronic reproduction	subproperty	.../Elements/m/P30016	Published	2014-01-19 3:51	Jsc Chair	
has parallel distributor's name	subproperty	.../Elements/m/P30017	Published	2014-01-19 3:51	Jsc Chair	
has file type	subproperty	.../Elements/m/P30018	Published	2014-01-19 3:51	Jsc Chair	
is facsimile contained in	subproperty	.../Elements/m/P30019	Published	2014-01-19 3:51	Jsc Chair	
is contained in (manifestation)	subproperty	.../Elements/m/P30020	Published	2014-04-16 20:47	Jsc Chair	

214 results

◀ 1 2 3 4 5 ▶

Machine view of RDA elements

```
-<rdf:RDF xml:base="http://rdaregistry.info/Elements/m/">
  <!-- Element Set: RDA Manifestation properties -->
  -<rdf:Description rdf:about="http://rdaregistry.info/Elements/m/">
    <dc:title xml:lang="en">RDA Manifestation properties</dc:title>
    -<skos:note xml:lang="en">
      Properties derived from RDA elements and relationship designators with the domain of RDA Manifestation.
    </skos:note>
  </rdf:Description>
  <!--Property: has carrier type-->
  -<rdf:Description rdf:about="http://rdaregistry.info/Elements/m/P30001">
    <rdfs:isDefinedBy rdf:resource="http://rdaregistry.info/Elements/m/" />
    <reg:status rdf:resource="http://metadataregistry.org/uri/RegStatus/1001" />
    <reg:name xml:lang="en">carrierType</reg:name>
    <rdfs:label xml:lang="en">has carrier type</rdfs:label>
    -<skos:definition xml:lang="en">
      Relates a manifestation to a categorization reflecting the format of the storage medium and housing of a carrier in combination
      with the type of intermediation device required to view, play, run, etc., the content of a resource.
    </skos:definition>
    <rdf:type rdf:resource="http://www.w3.org/1999/02/22-rdf-syntax-ns#Property" />
    <rdfs:domain rdf:resource="http://rdaregistry.info/Elements/c/C10007" />
    <rdfs:subPropertyOf rdf:resource="http://rdaregistry.info/Elements/u/P60048" />
    <owl:sameAs rdf:resource="http://rdaregistry.info/Elements/m/carrierType" />
  </rdf:Description>
  <!-- Status properties used in this document -->
  -<skos:Concept rdf:about="http://metadataregistry.org/uri/RegStatus/1001">
    <skos:prefLabel xml:lang="en">Published</skos:prefLabel>
  </skos:Concept>
</rdf:RDF>
```

RDA and linked data

RDA Entity	Relationships	To link	To text
Work	235	200	35
Expression	235	190	45
Manifestation	210	50	160
Item	50	40	10
Agent	225	175	50

*Totals are approximate

A set of linkable entities rich enough to represent the complexity of and support access to global cultural heritage content.

A set of textual relationships rich enough to describe all types of content and carrier.

Thank you!

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