BIBFRAME Update

LC's Bibliographic Framework Initiative: An Update

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28 November 2012
Semantic Web in Bibliotheken 2012
Cologne, Germany

BIBFRAME Update

Outline

What is LC's Bibliographic Framework Initiative?

Requirements/expectations

BFI and Linked Data

BIBFRAME Model Basics

Early Experimentations

Fin

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What is BIBFRAME?

The Bibliographic Framework Initiative will re-imagine and implement a bibliographic environment for a post-MARC world.

Key dates:

May 2011 – Initiative announced.

October 2011 – LC publishes general plan

May 2012 – Zepheira LLC contracted to evaluate related initiatives and data modeling

November 2012 – LC publishes high-level model document

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Increasing User Expectations

URIs, URIs, URIs

Decentralization of data

Ability to annotate or otherwise augment data

Flexibility – for future cataloging and uses

Leverage technology while leaving librarians to their areas of expertise

Web-ready/web-accessible – more openness

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What is BIBFRAME?

Requirements/expectations:

Content model agnostic (RDA, DACS, CCO)

Description and management for all types of library holdings
- Traditional materials, such as books and serials,
- But also digital materials, such as born-digital video, ebooks.

Provision for data that supports bibliographic description
- Authority data, Holdings, Classification

Replace MARC

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Bibliographic Framework Initiative and Linked Data

Linked Data
- RDF Vocabulary/Data Model
- Network-based technological protocols
- For the web, on the web

Relationships
- Links replace strings = Reduced maintenance
- URIs = authority
- Atomicity = flexibility

Relationship to MARC
- MARC has provided means for data representation
- MARC has been a suitable communication format

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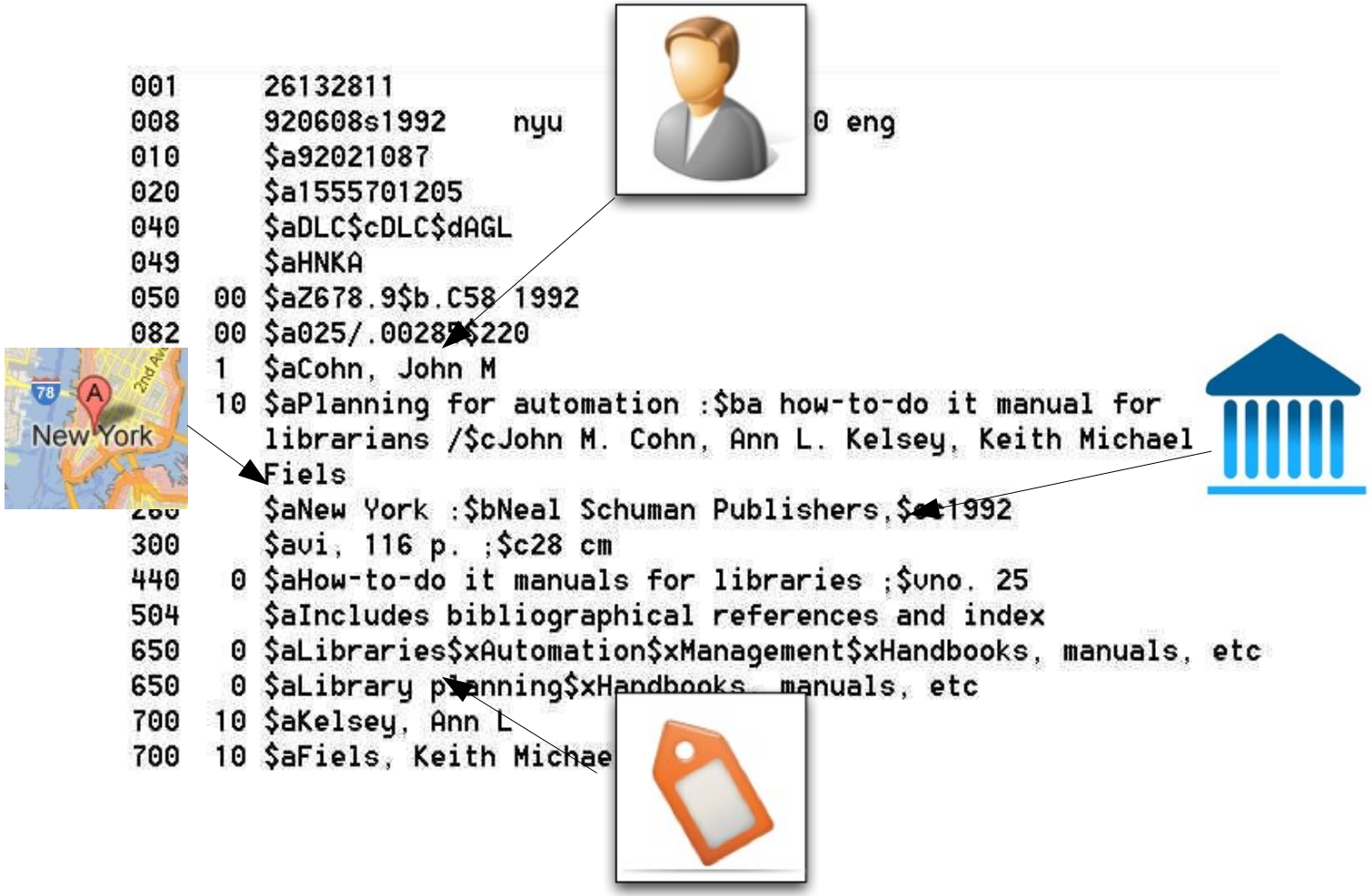
BIBFRAME



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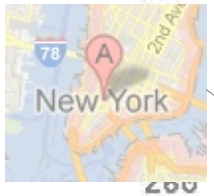

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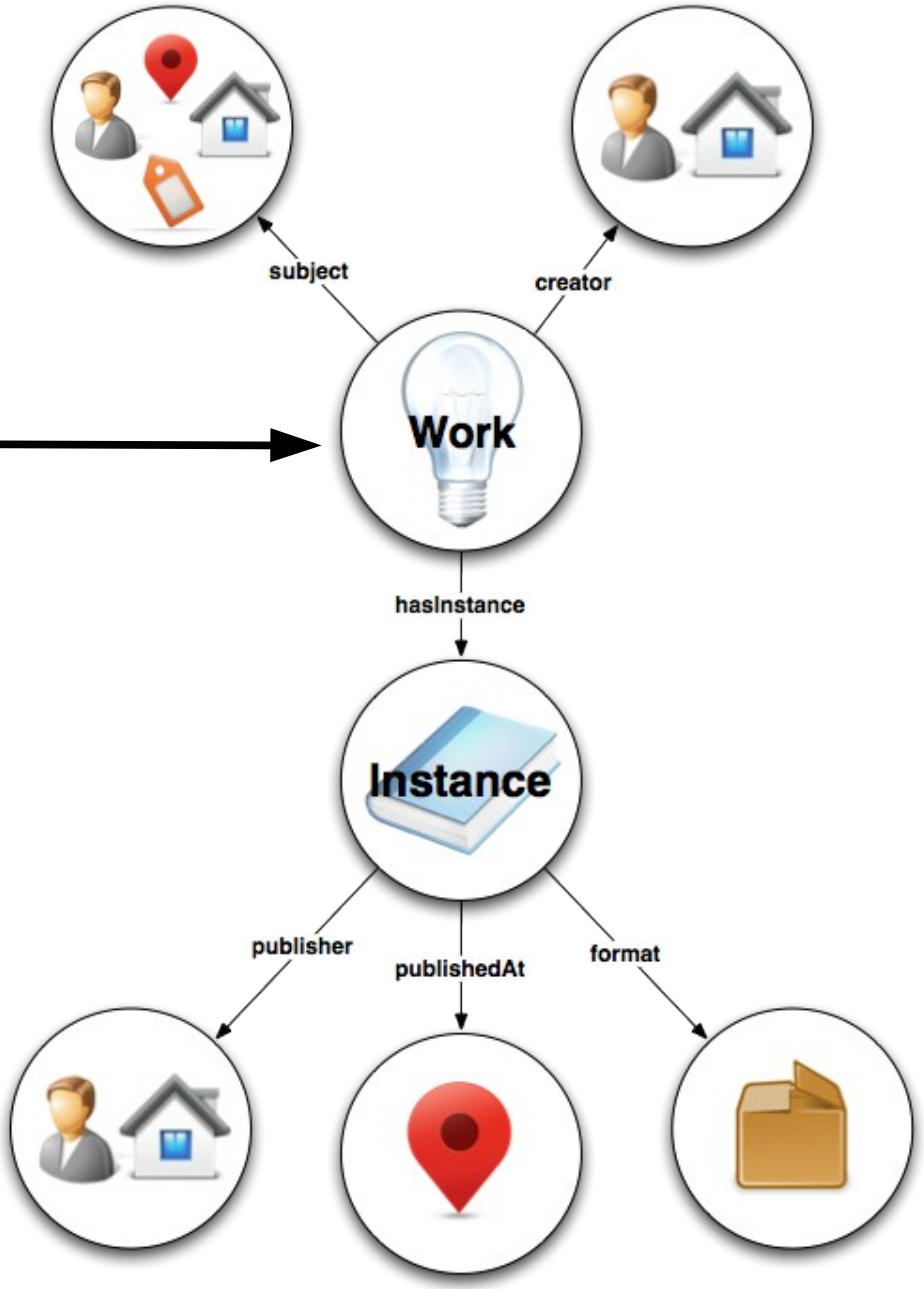
Core Classes

Work



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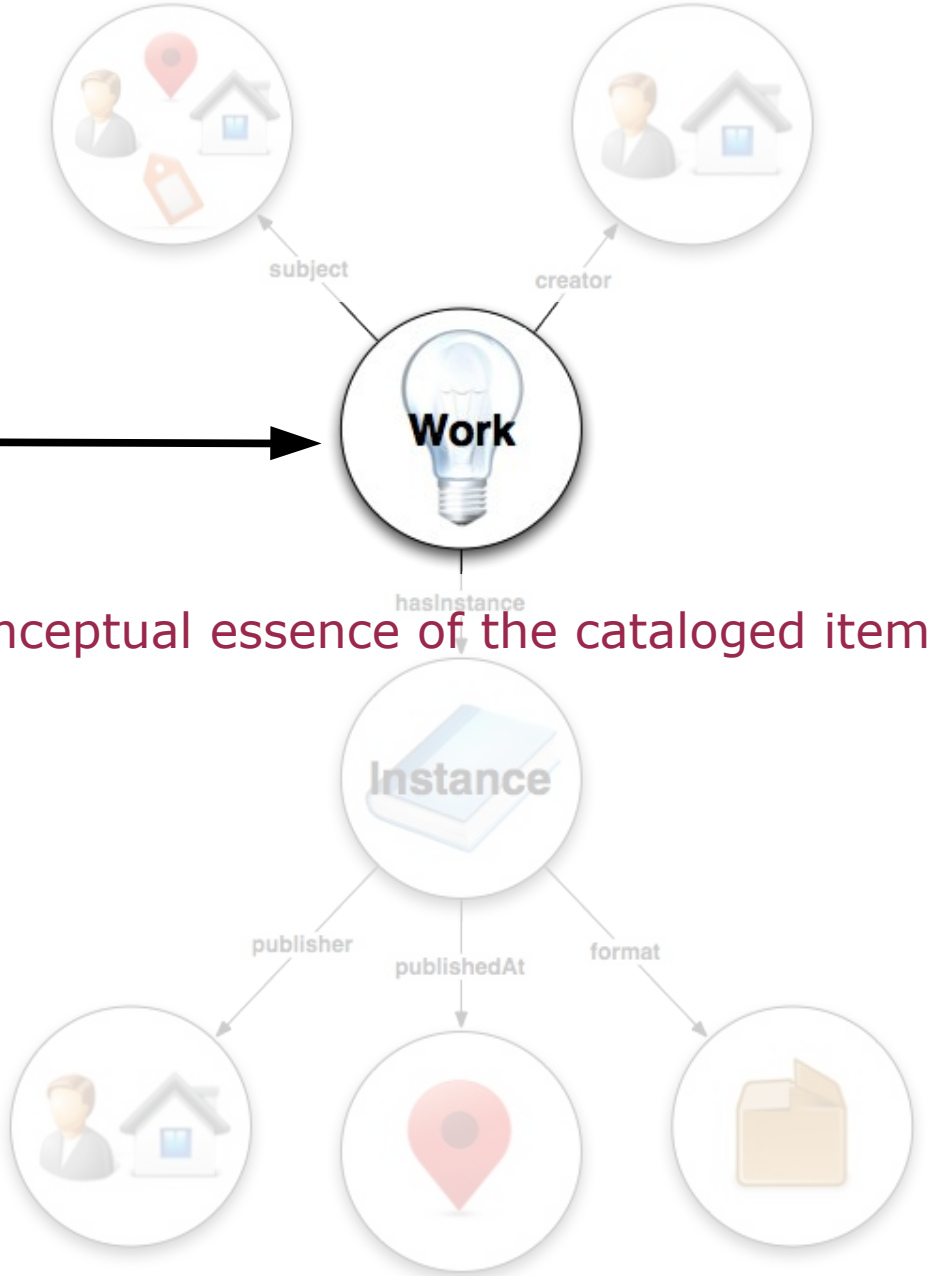

Resource reflecting the conceptual essence of the cataloged item

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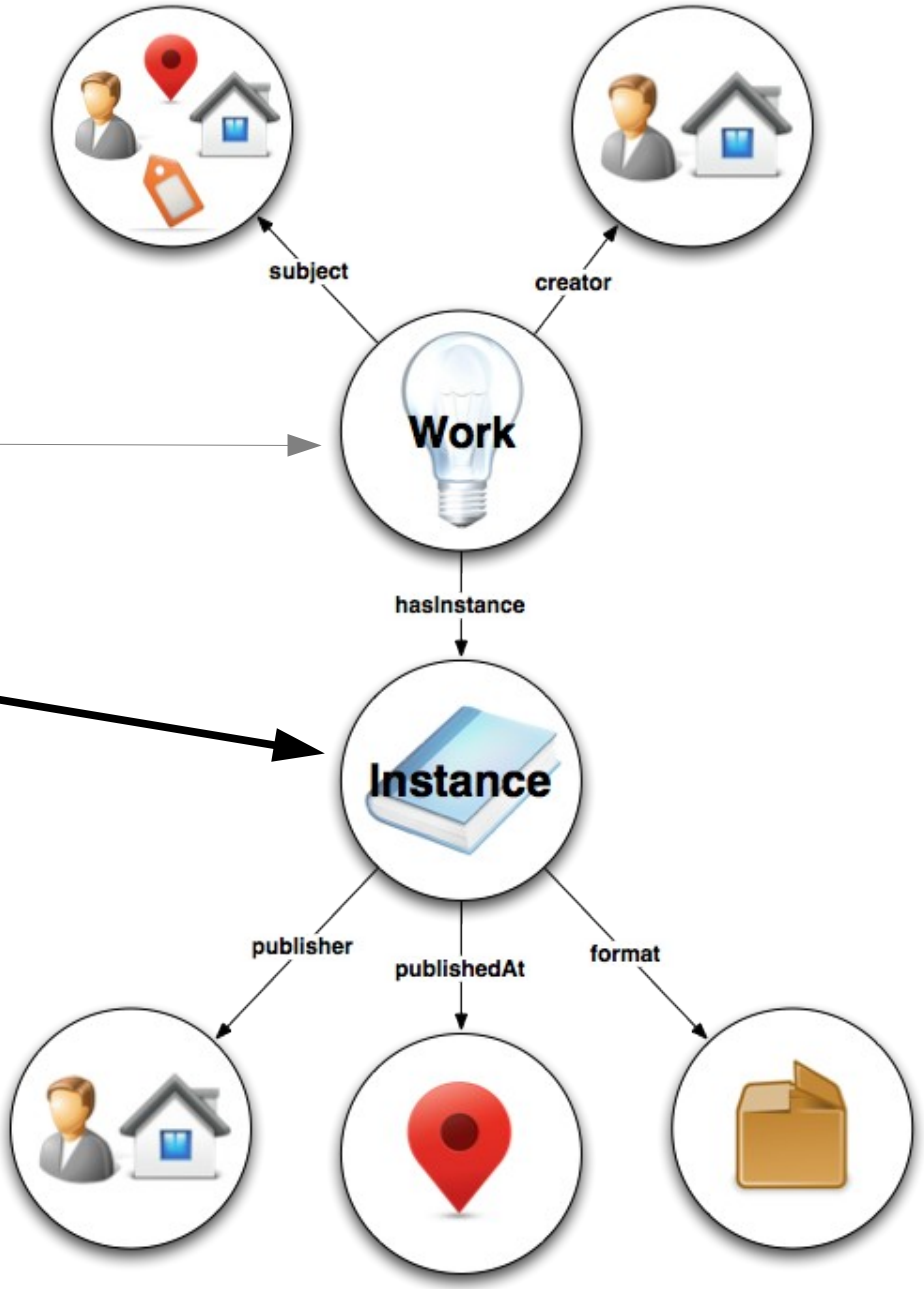
Core Classes

Work

Instance



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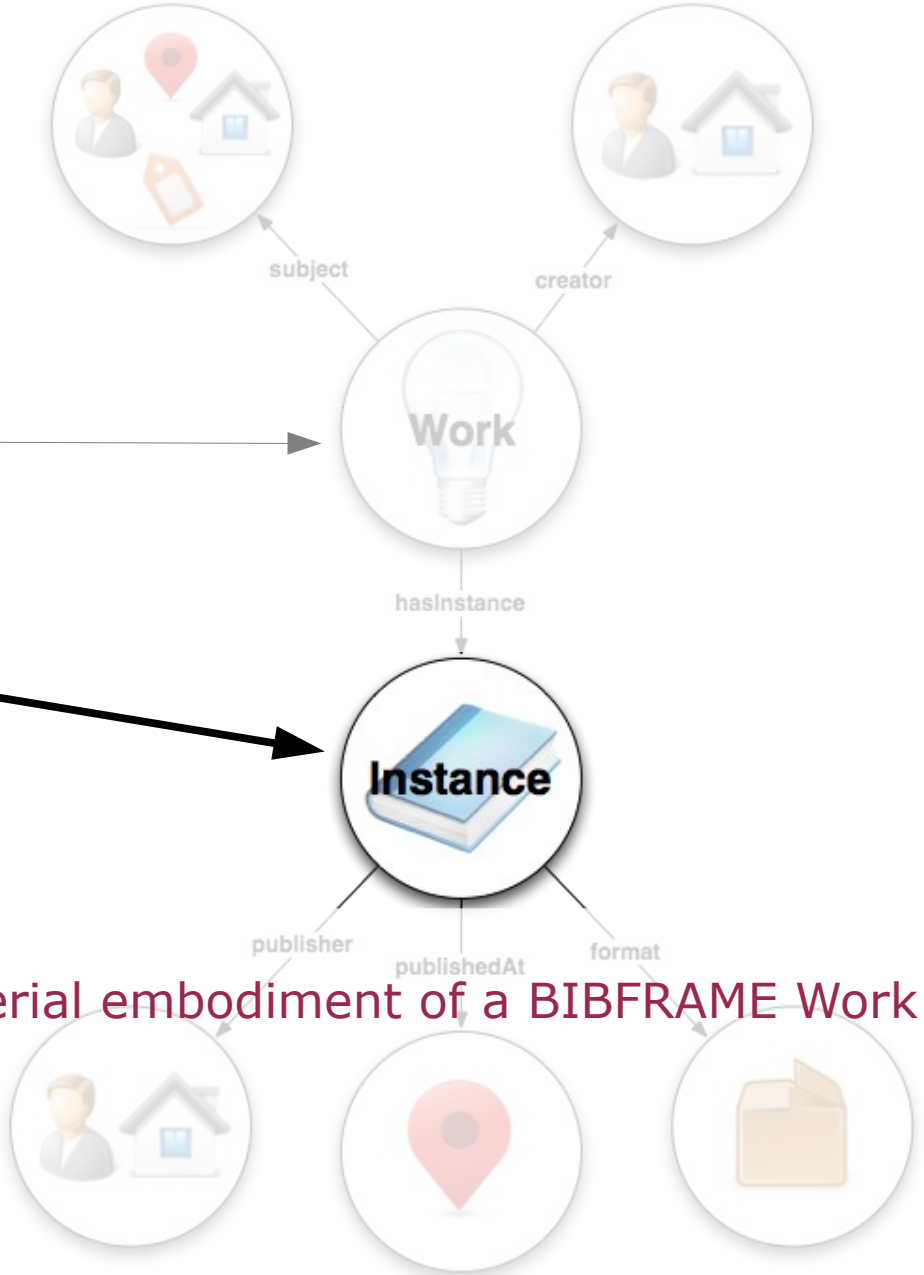

Resource reflecting a material embodiment of a BIBFRAME Work

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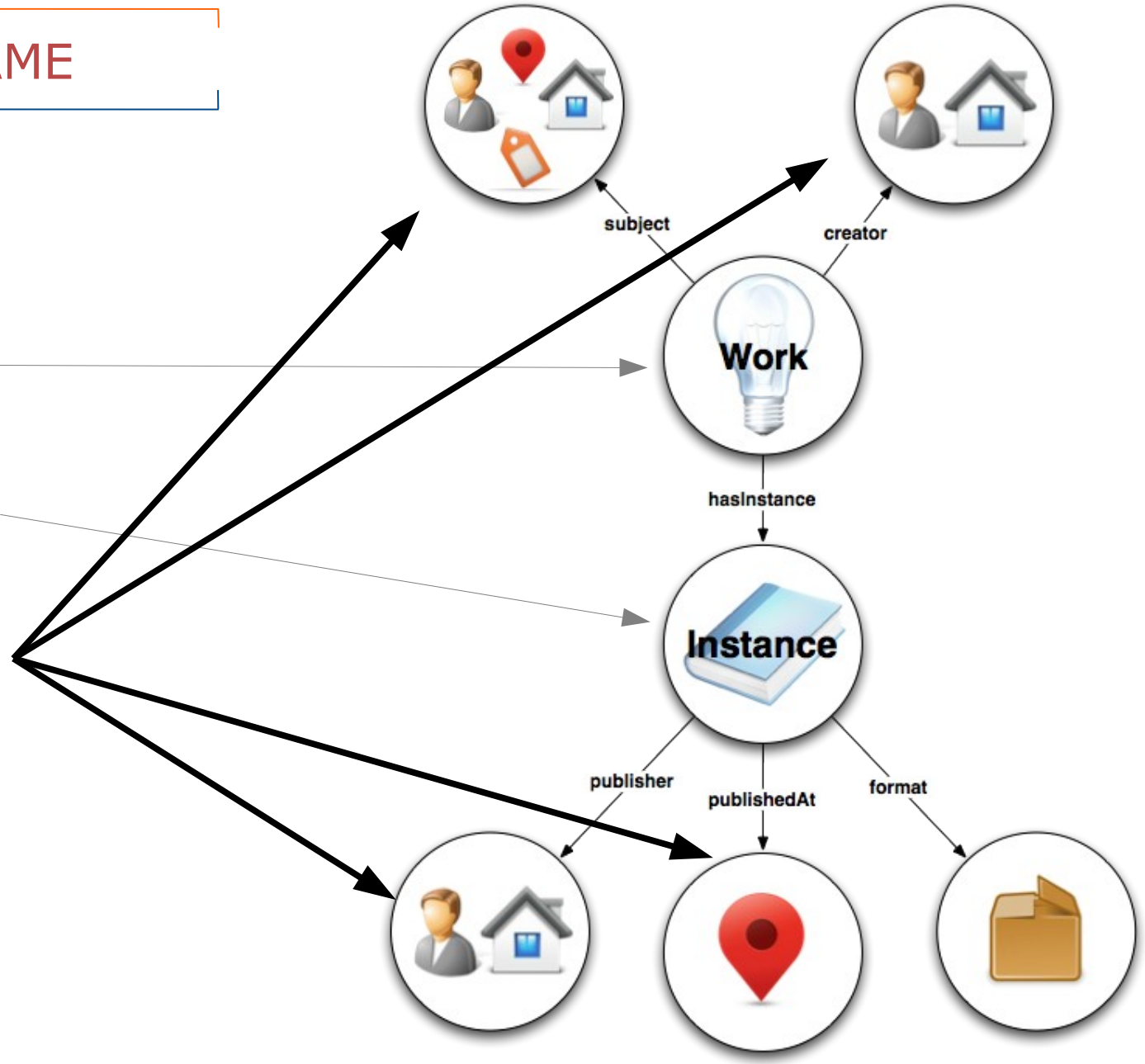
Core Classes

Work

Instance

Authority



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Core Classes

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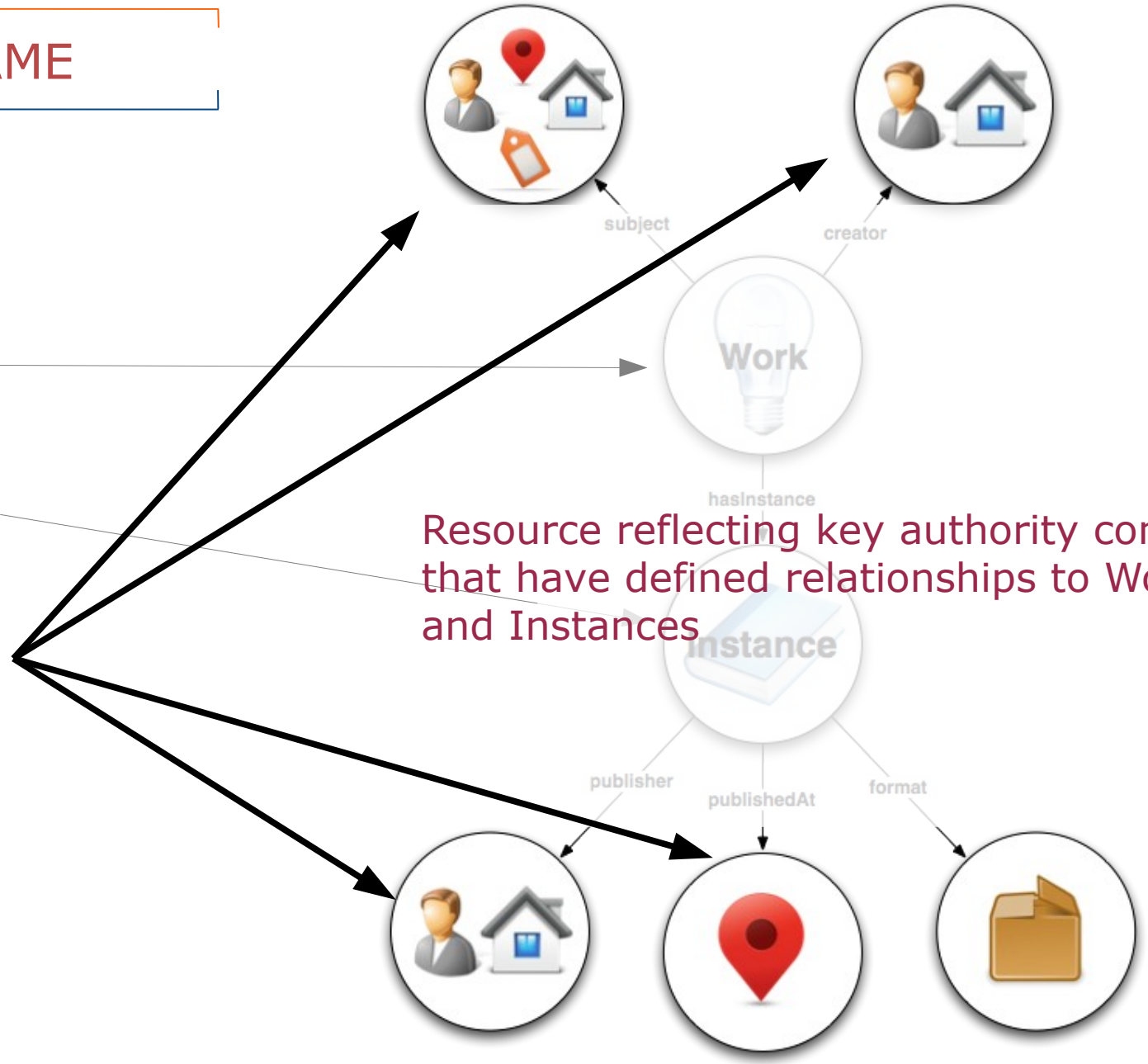

Resource reflecting key authority concepts that have defined relationships to Works and Instances

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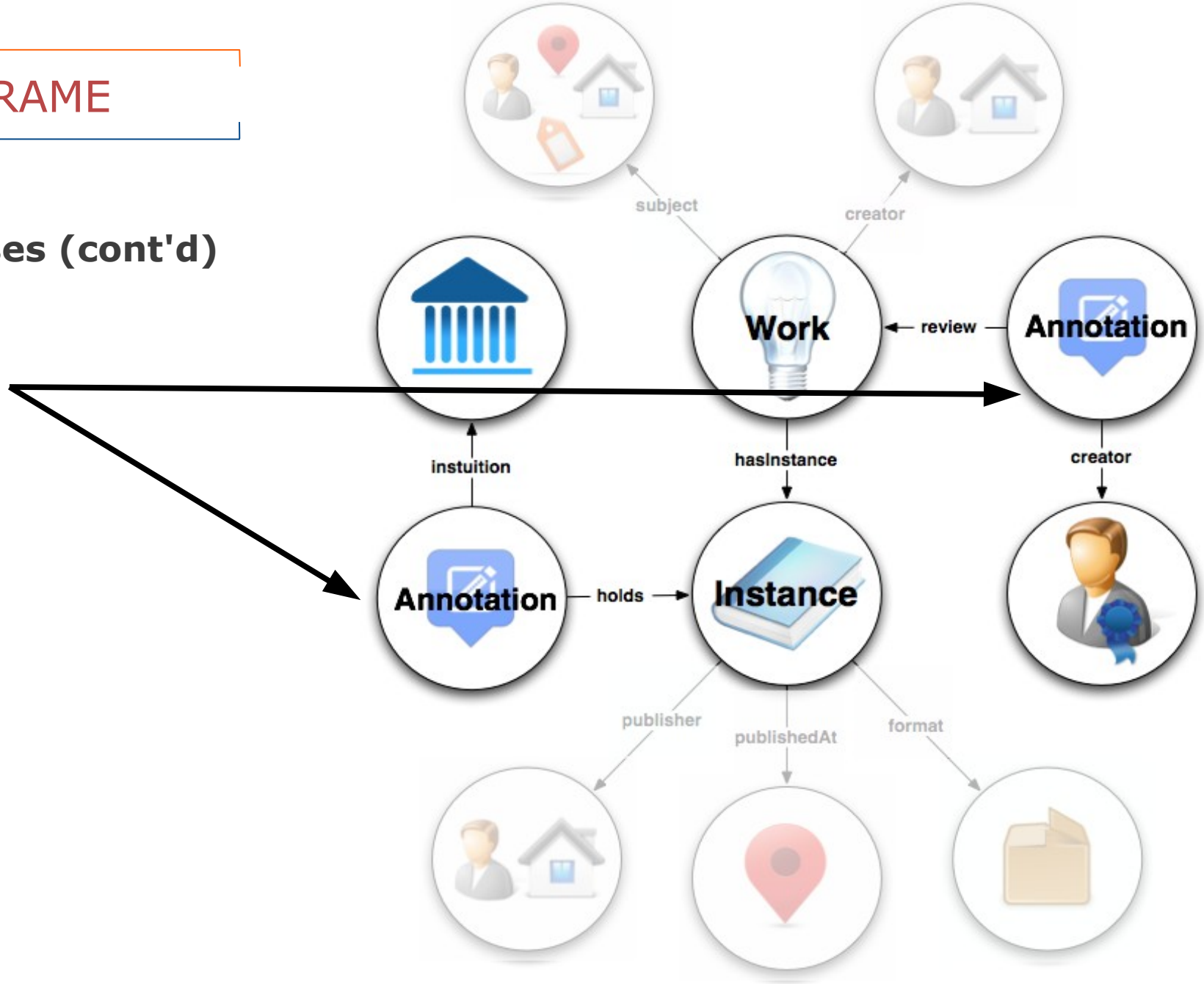
Core Classes (cont'd)

Annotation



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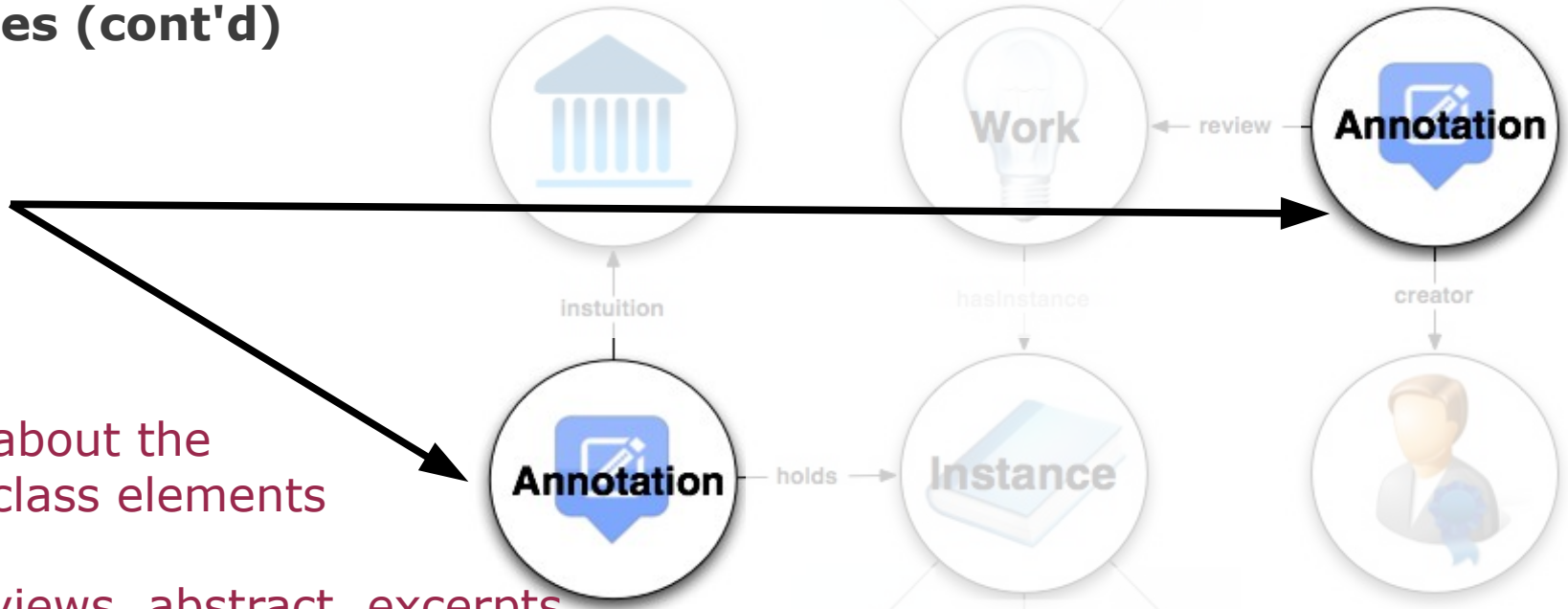

Assertions about the other core class elements

Works – reviews, abstract, excerpts

Instances – holdings, book cover images

Name authority – author information

Administrative metadata

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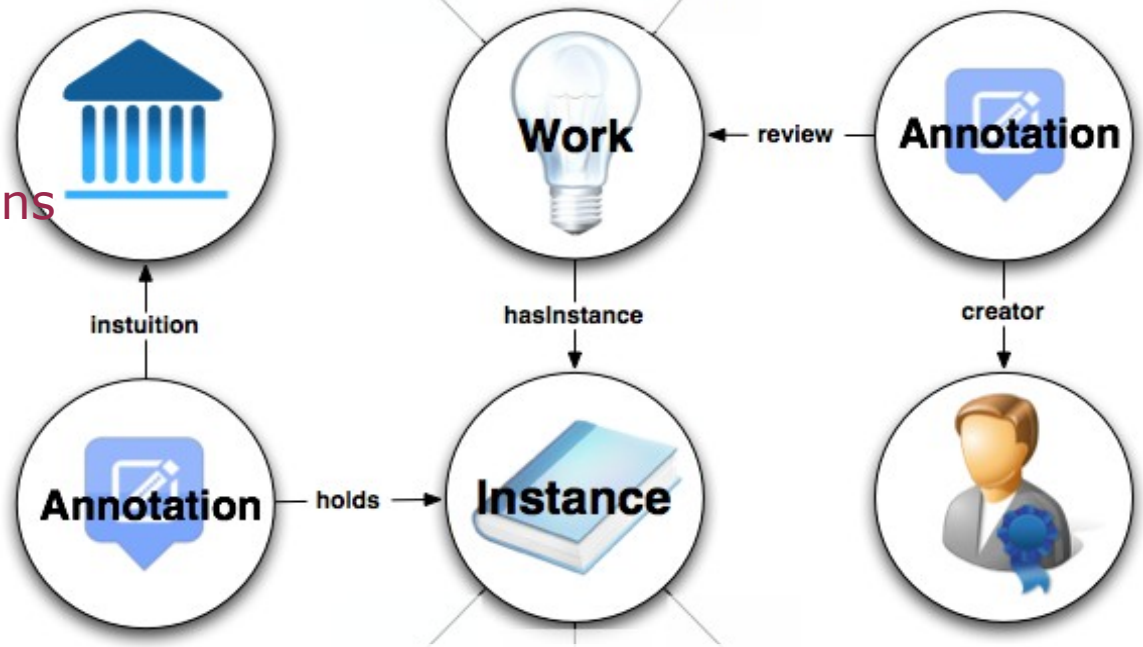
Annotations (cont'd)

Annotations are *additional* assertions
- Local, as in holdings
- Local, selected reviews
- External, publisher description

By contrast

Works and Instances
could
be controlled.

Authorship does not change.
Place of Publication doesn't change.



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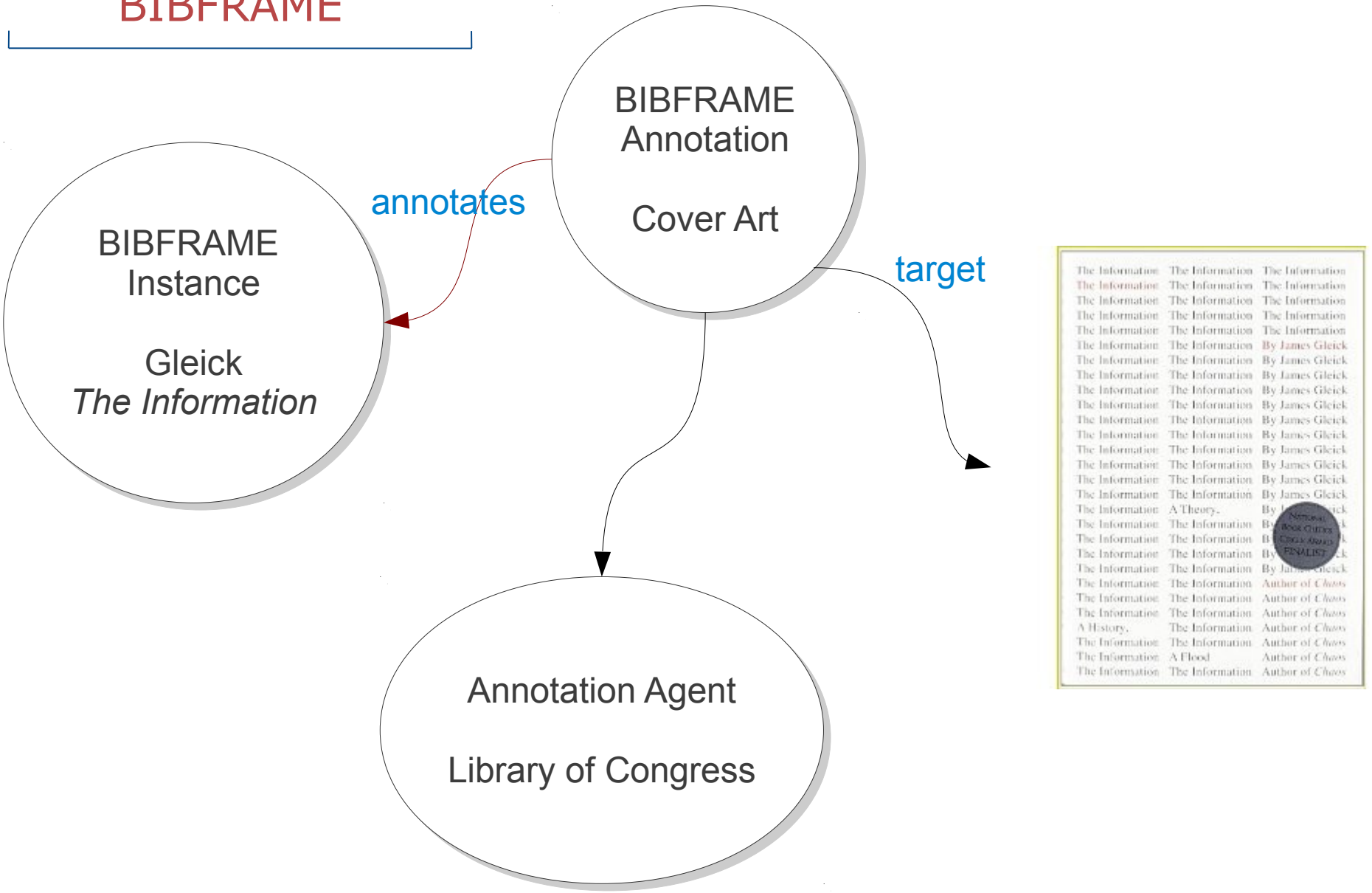

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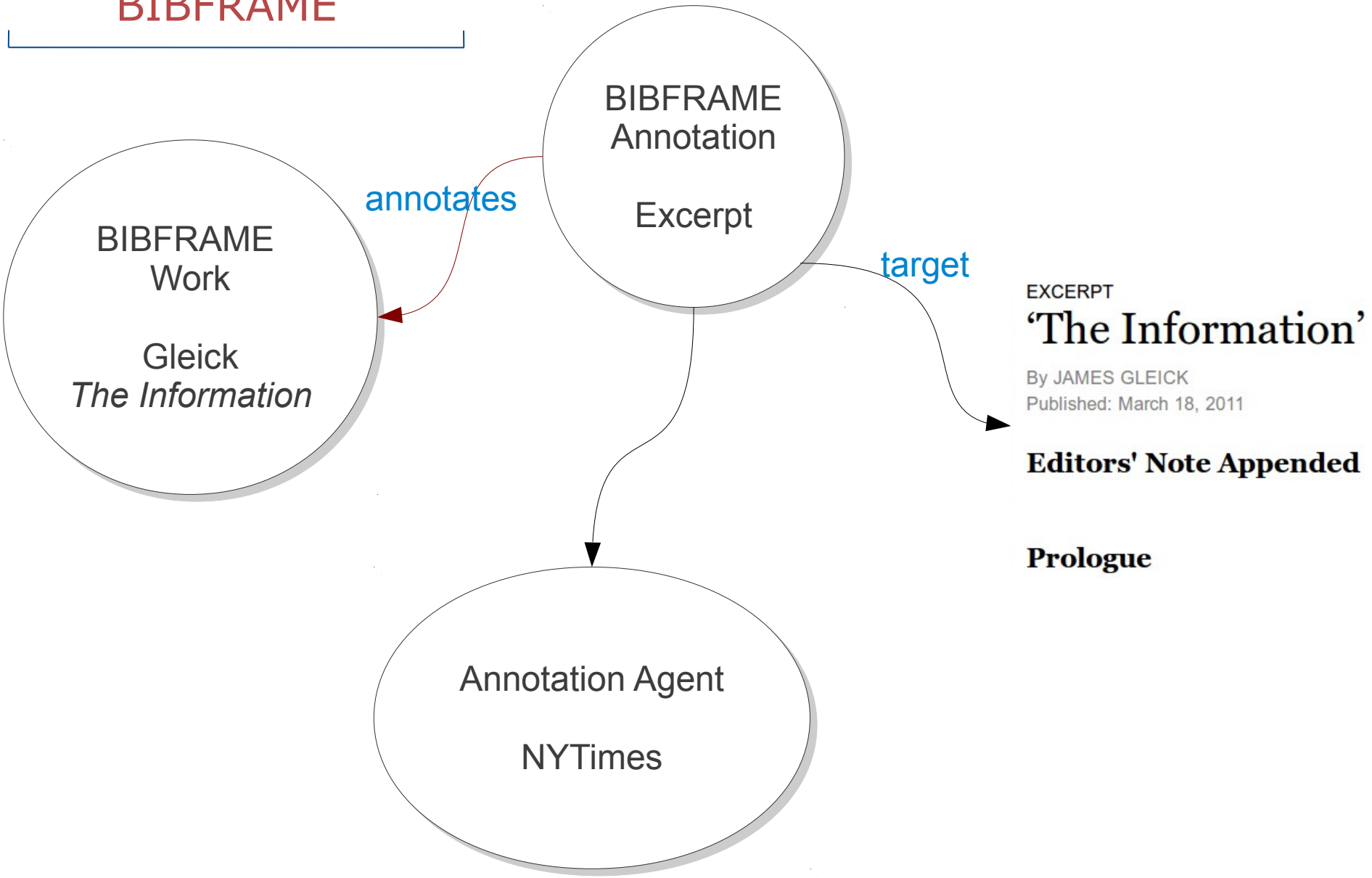

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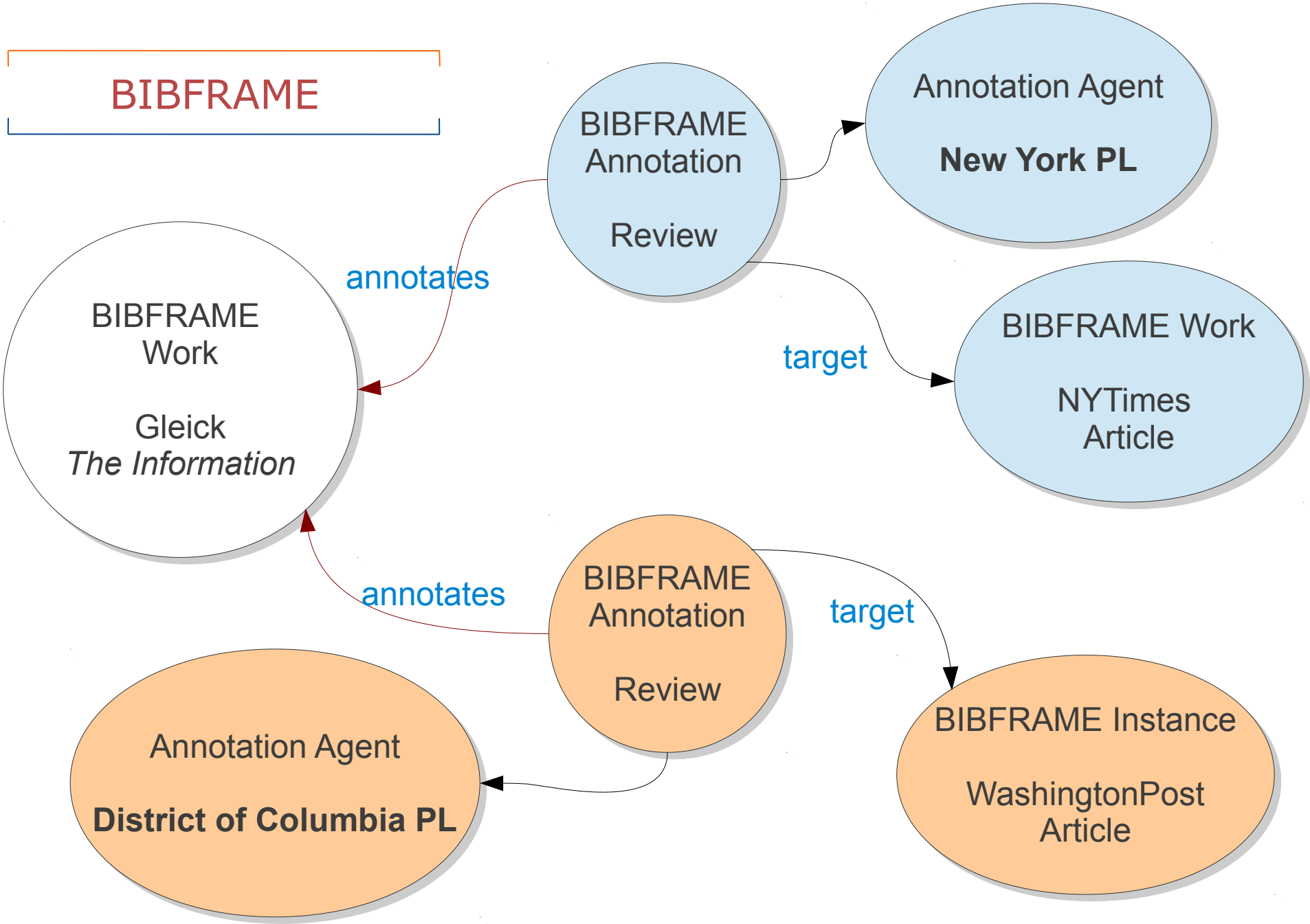

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Status

DRAFT, expected to change, and will

LC Preliminary tests are promising
Small group of early experimenters investigating the model

Adjustments as needed
Mappings
Conversion tools

Iterative development

Lots of questions – testing for answers

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BIBFRAME

LC Experimentation

- Working primarily with MARC21 data
- Base BIBFRAME Works generated from Authorities
  - Name/Title Authorities
  - Title Authorities
- MARC21 → BIBFRAME/Raw transform (Splitting)
  - Essentially splitting MARC21 Bib to Work, Instance(s), Annotation(s)
- Consolidation (Folding)
  - Look for pre-existing BIBFRAME Work
    - Based on [Name.] Title[. Language] match
    - If not found, Create new BIBFRAME Work

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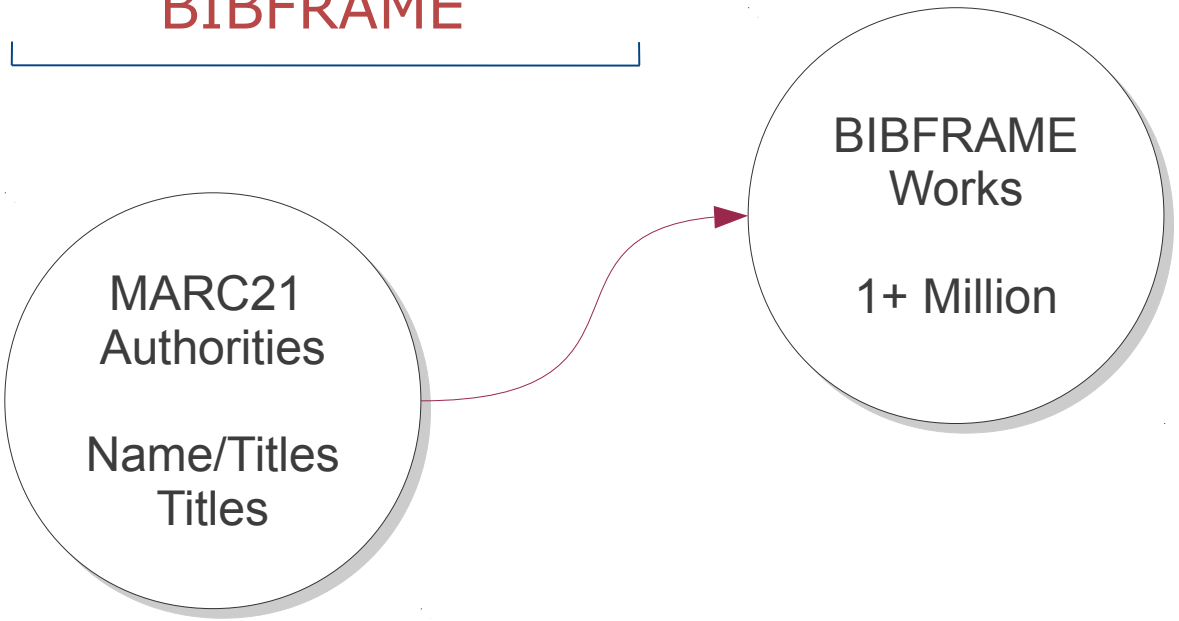

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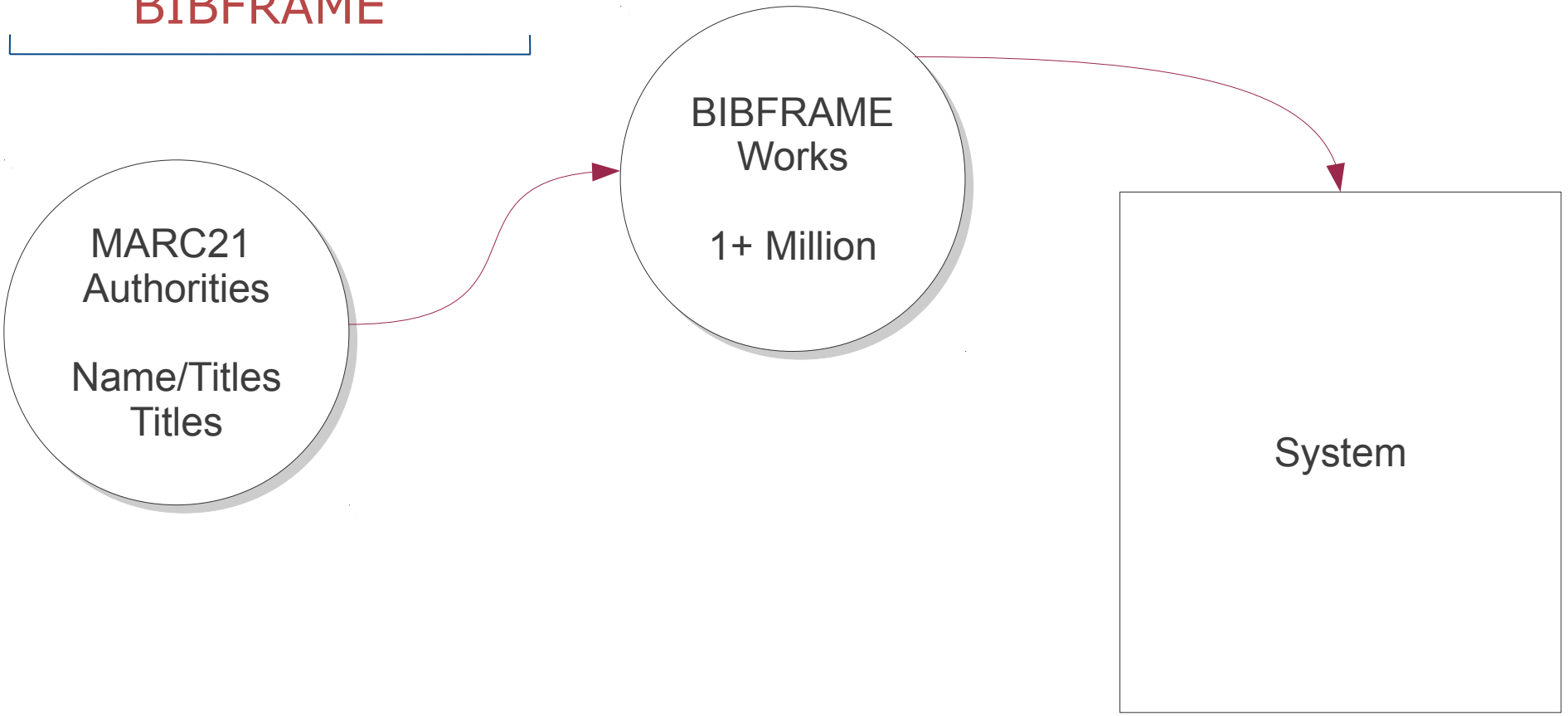

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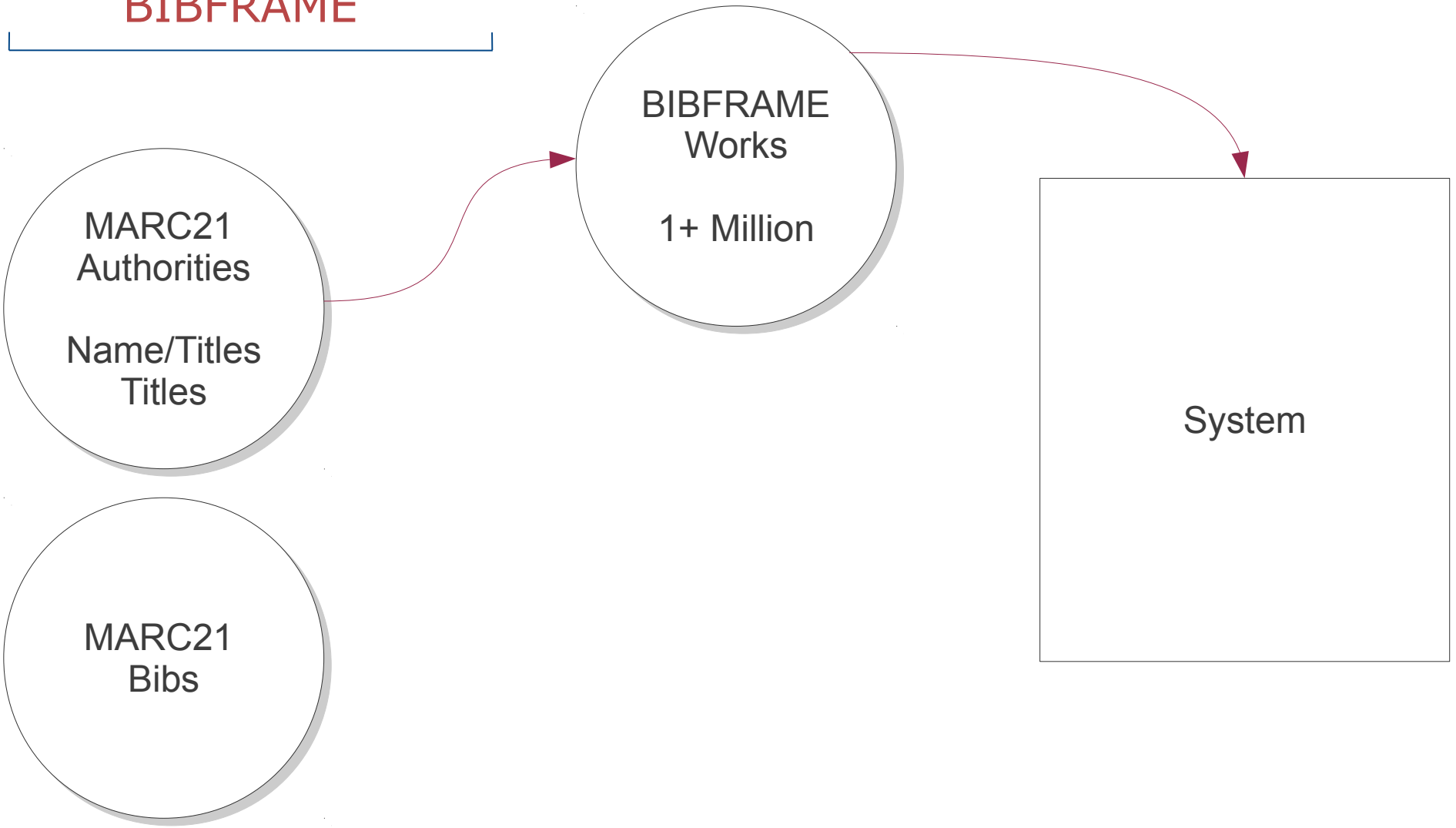

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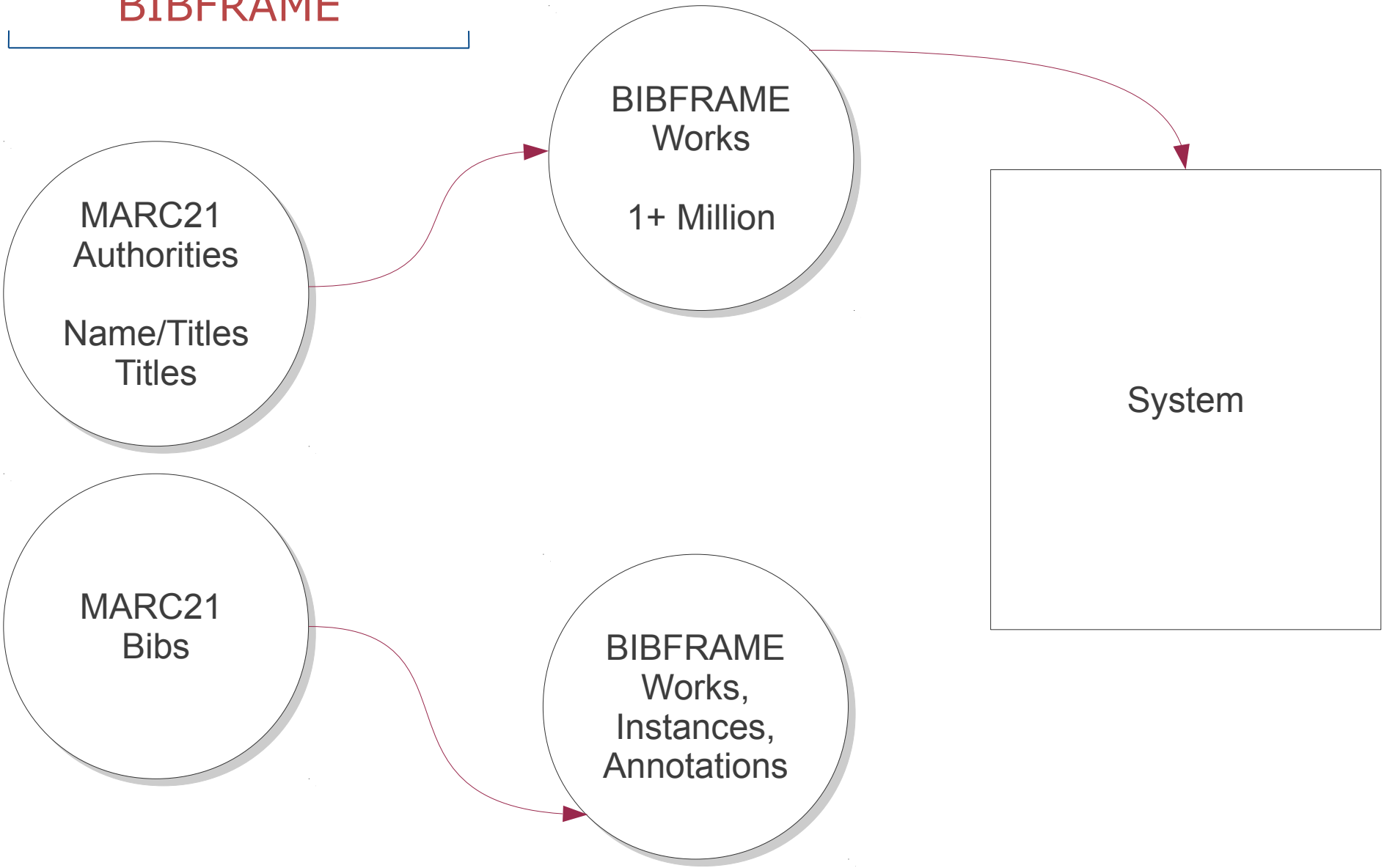

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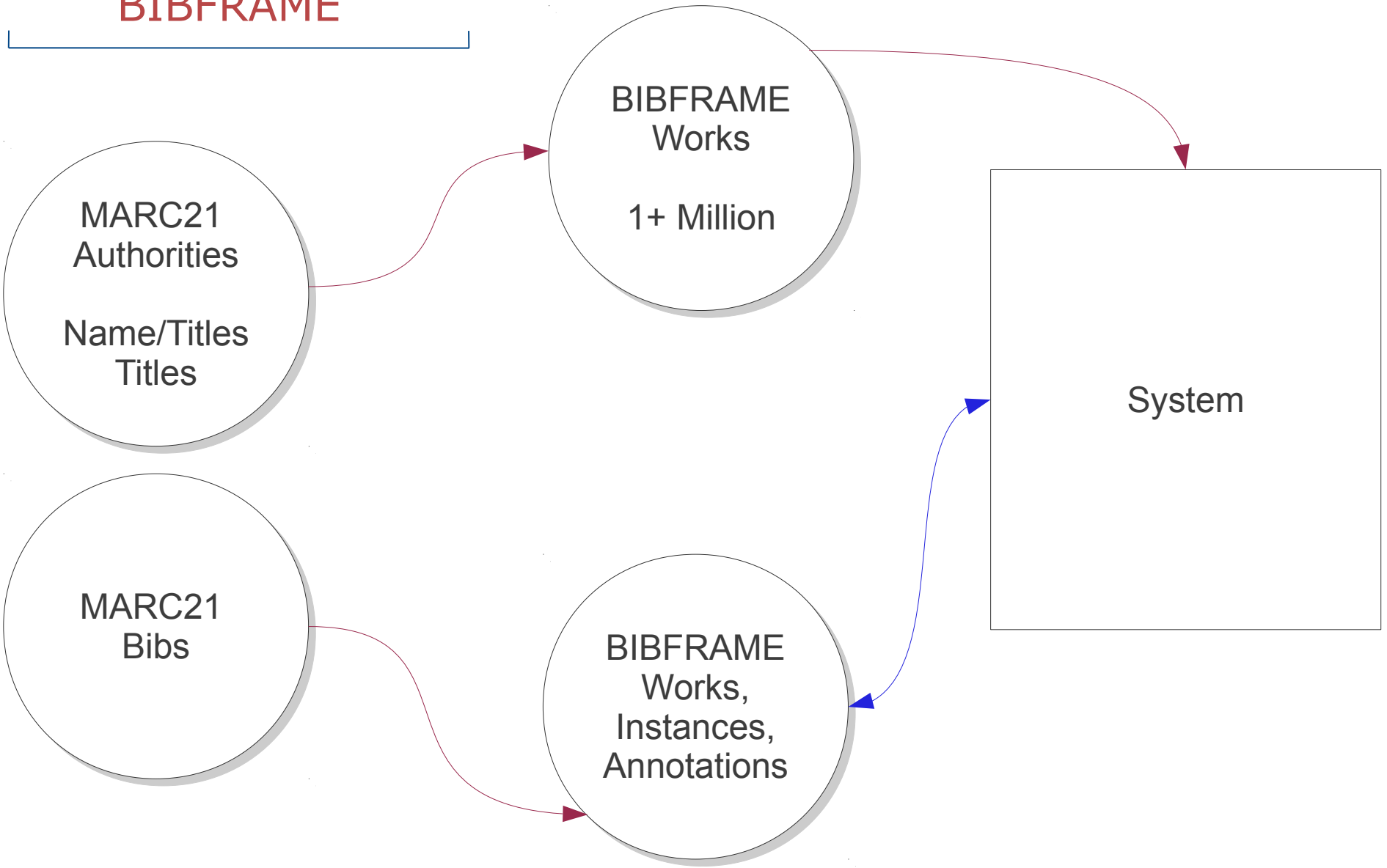

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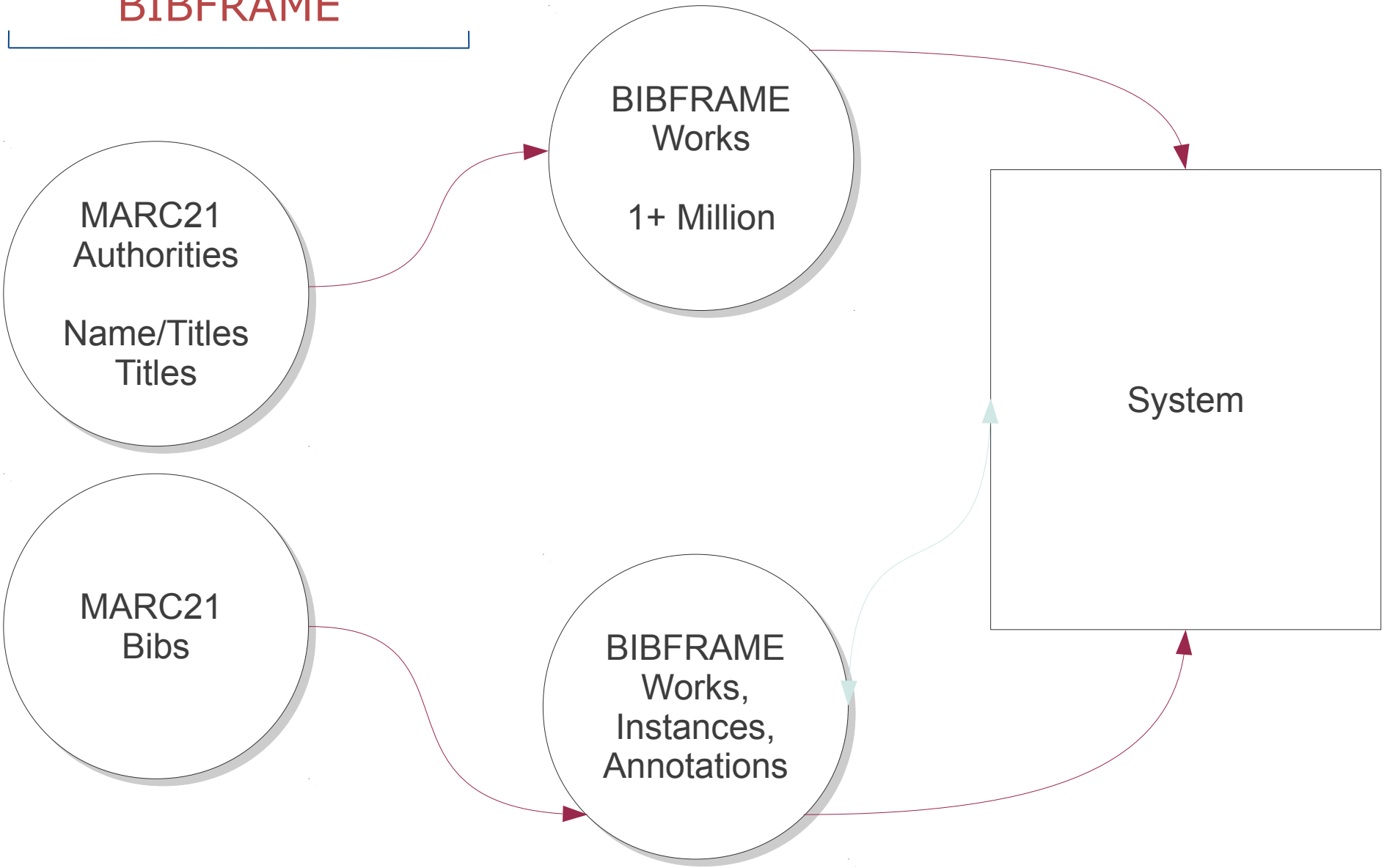

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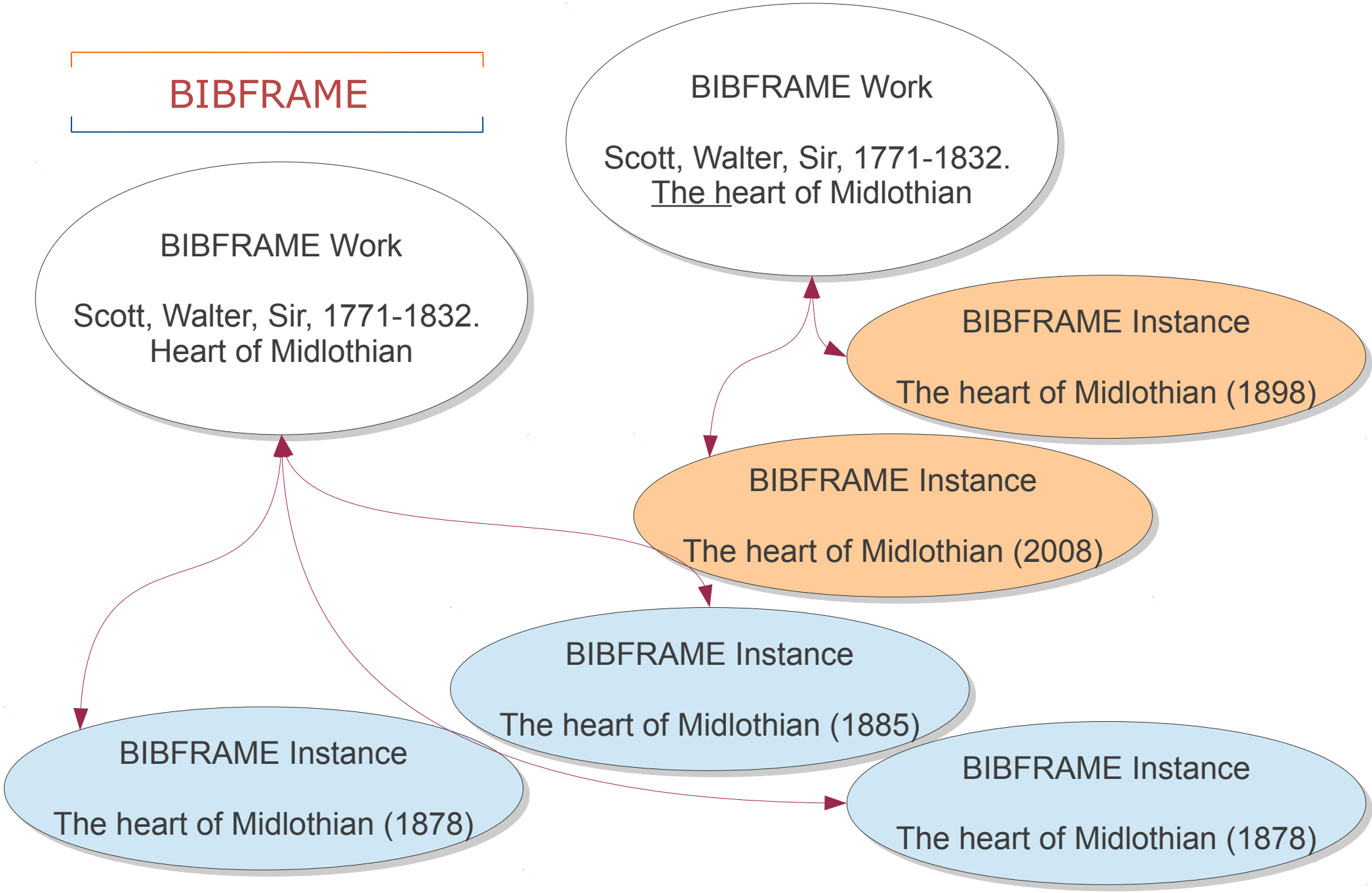
BIBFRAME

```
@prefix bf: <http://bibframe.org/vocab/>.
@prefix madsrdf: <http://www.loc.gov/mads/rdf/v1#>.

<http://bibframe.org/resources/works/003680557> bf:creator <http://bibframe.org/auths/names/n79038434>;
     bf:title "The robber bridegroom";
     a bf:Text,
          bf:Work;
     bf:language <http://bibframe.org/vocabulary/languages/eng>;
     bf:subject <http://bibframe.org/auths/subjects/sh2007102158>,
          <http://bibframe.org/auths/subjects/sh2008107229>,
          <http://bibframe.org/auths/subjects/sh2008107699>;
     bf:instance <http://bibframe.org/resources/instances/0036805570001>,
          <http://bibframe.org/resources/instances/0036805670001>,
          <http://bibframe.org/resources/instances/0036806010001>,
          <http://bibframe.org/resources/instances/0036806280001>;
     bf:derivedFrom <http://bibframe.org/resources/bibs/3681690>;
     bf:consolidates <http://bibframe.org/resources/bibs/1005582>,
          <http://bibframe.org/resources/bibs/8791933>,
          <http://bibframe.org/resources/bibs/8820540>;

<http://bibframe.org/auths/names/n79038434> bf:label "Welty, Eudora, 1909-2001.";
     madsrdf:authoritativeLabel "Welty, Eudora, 1909-2001"@en;
     a bf:Person,
          madsrdf:Authority;
     rdfs:label "Welty, Eudora, 1909-2001.".
```

BIBFRAME



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28 November 2012
Semantic Web in Bibliotheken 2012
Cologne, Germany

Many questions

- Split on what - 260, 300, ISBNs, etc.?
- RDA
  - Couple of Early Experimenters investigating
- Other content standards/models?
- Holdings – Annotation or Core?
- Authorities: lightweight? Full representation?
- Authorities: LCSH, pre-coordination
- Data format/serialization (next phase)

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BIBFRAME & ID

Join the discussion…

BIBFRAME

Website: http://www.loc.gov/marc/transition/

Listserv: http://listserv.loc.gov/listarch/bibframe.html

Listserv Email: bibframe@listserv.loc.gov

Thank you.

Questions?

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