



Bibliographic Data: A New Context

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The Road to (and from) RDA

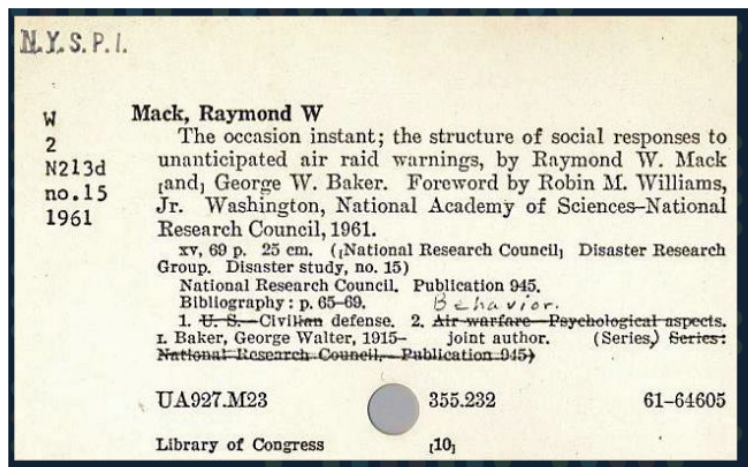
- Panizzi's Rules (1839)
- Cutter, Dewey, etc. (1876)
- Paris Principles (1961)
- ISBD (1971)
- FRBR (1998)
- **RDA** (2008)
- FRAD (2009)
- International Cataloging Principles (2009)

RDA

- **Rules and decisions** (“What is THE title?”)
- **Data elements** (“title” “parallel title” “edition”)
- **Data entry** (“1 audio disc” “Novels. Selections”)
- **Vocabularies** (“film cartridge, film cassette, film reel...”)

RDA

AACR



RDA

Author: Mack, Raymond W

pages: xv, 60 pages

series: National Research Council.
Disaster study, no. 15

title: The occasion instant

RDA

Content

Title
Subjects
Author
Genre

Carrier

Format
Size
Manufacture

RDA and FRBR

FRBR

work
expression
manifestation
item

person
family
corporate body

concept
object
event
place

RDA

Section 1: Recording Attributes of
Manifestation and Item

Section 2: Recording Attributes of Work and
Expression

Section 3: Recording Attributes of Person,
Family and Corporate Body

Section 4: Recording Attributes of Concept,
Object, Event, and Place

FRBR

Group 1

Bibliographic: Work, Expression, Manifestation, Item

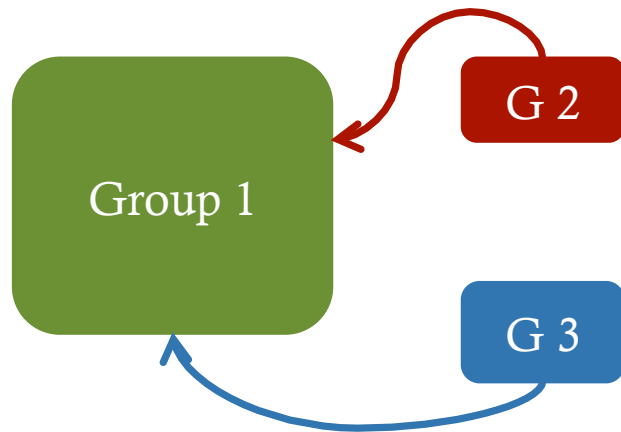
Group 2

Agents: Persons, Corporate bodies

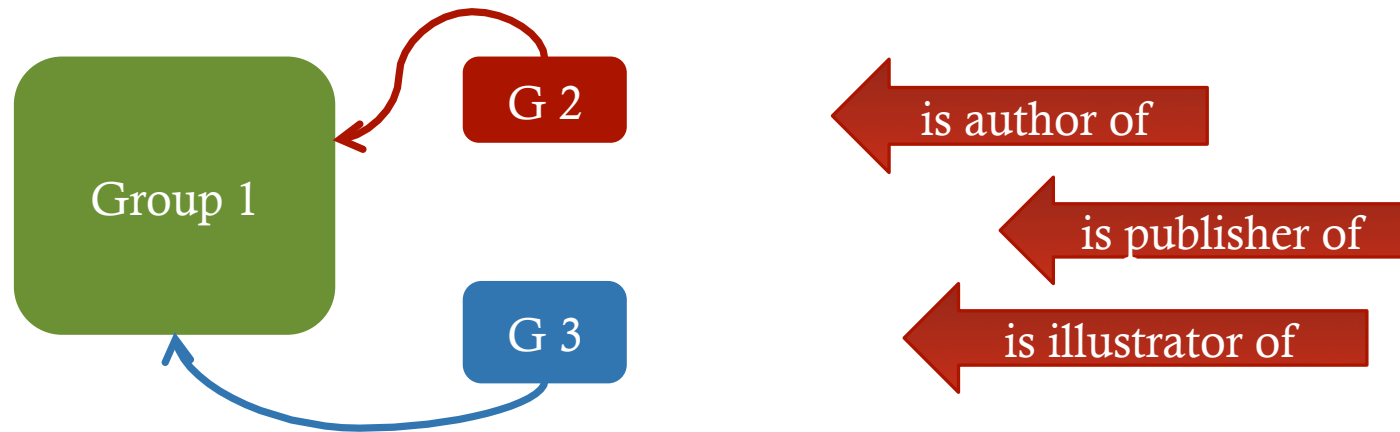
Group
3

Subjects

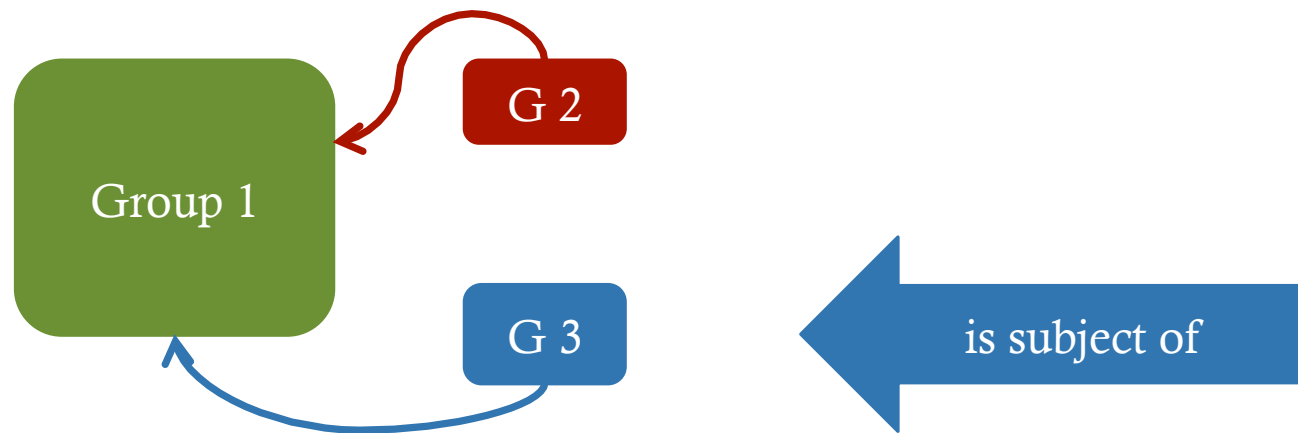
FRBR: Entities and relationships



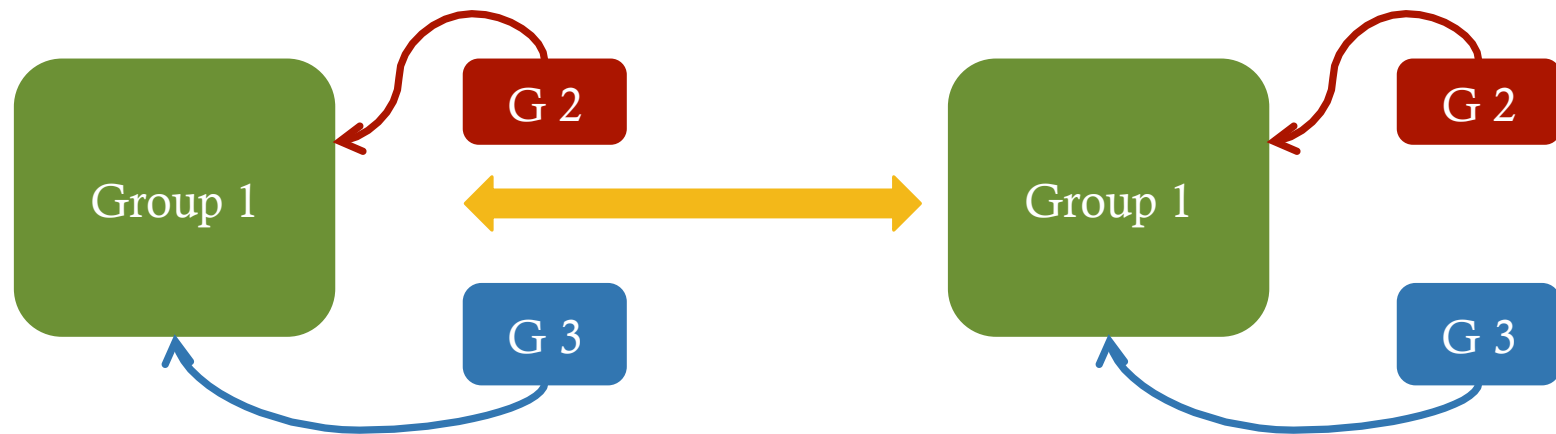
FRBR: Entities and relationships



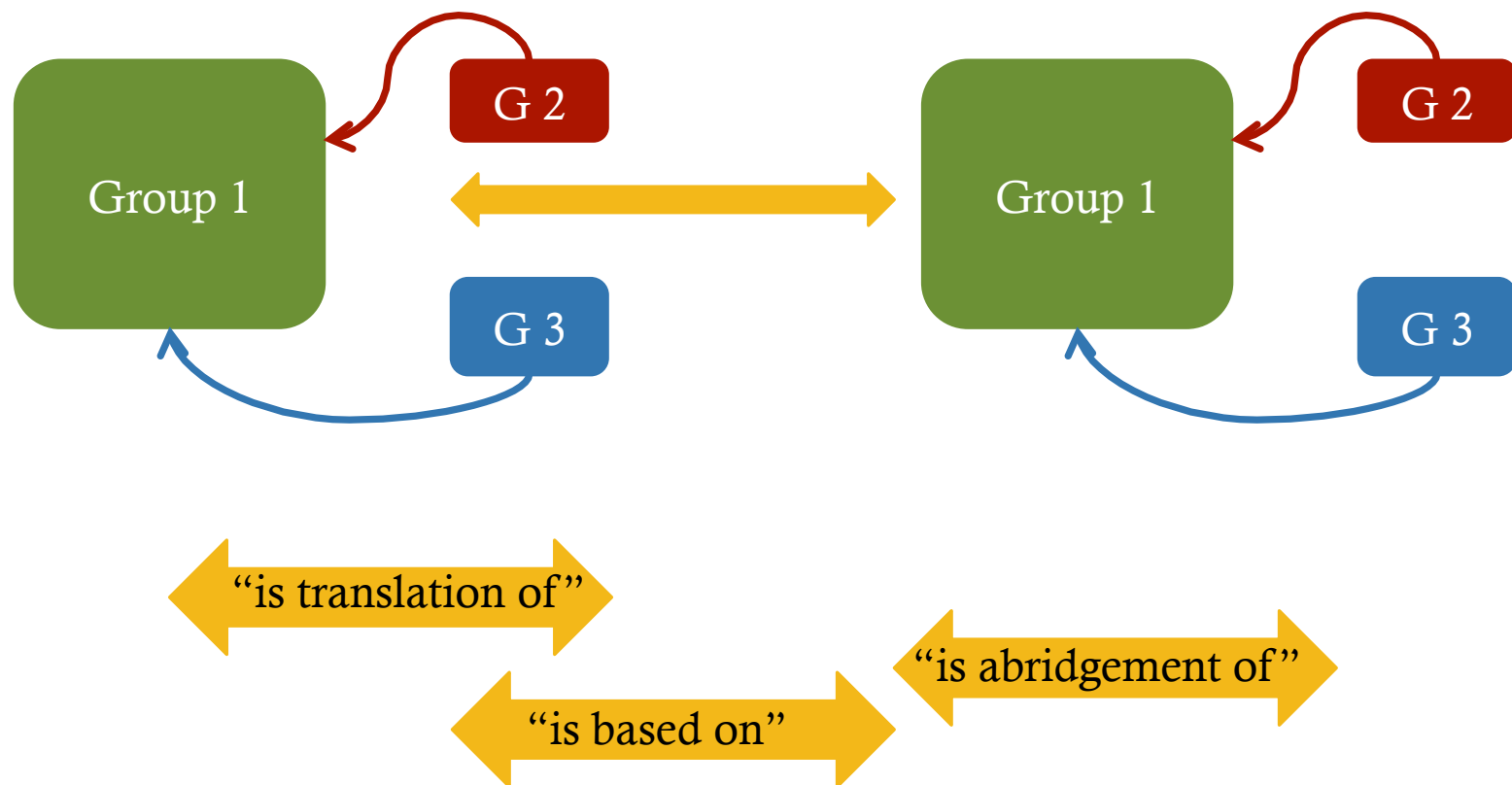
FRBR: Entities and relationships



FRBR: Relationships!



FRBR: Relationships!





The Future

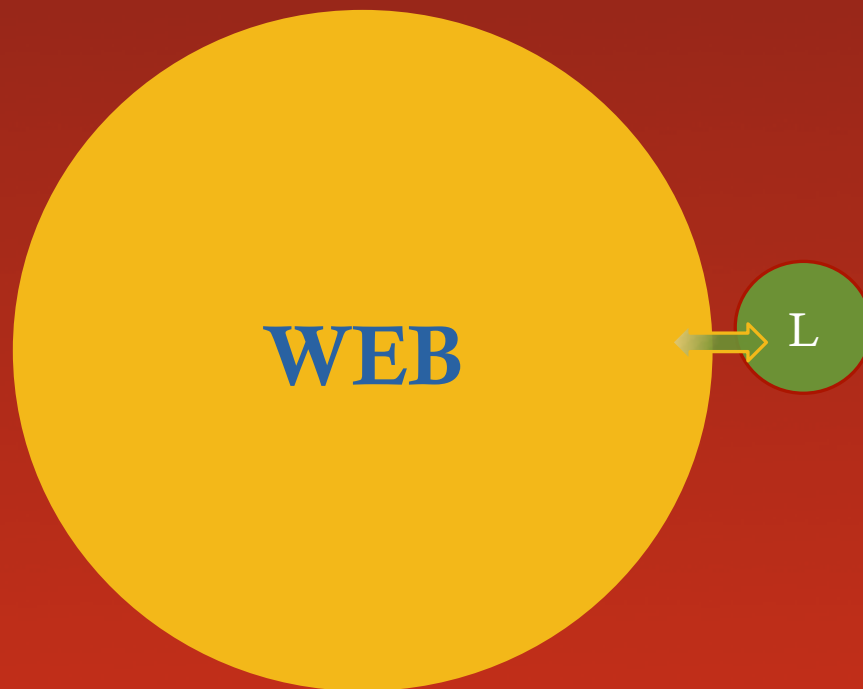


The ~~Future~~ Present



WEB

The ~~Future~~ Present



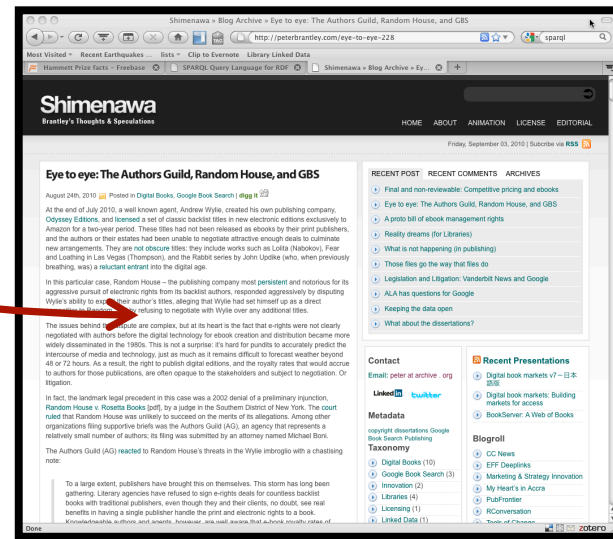
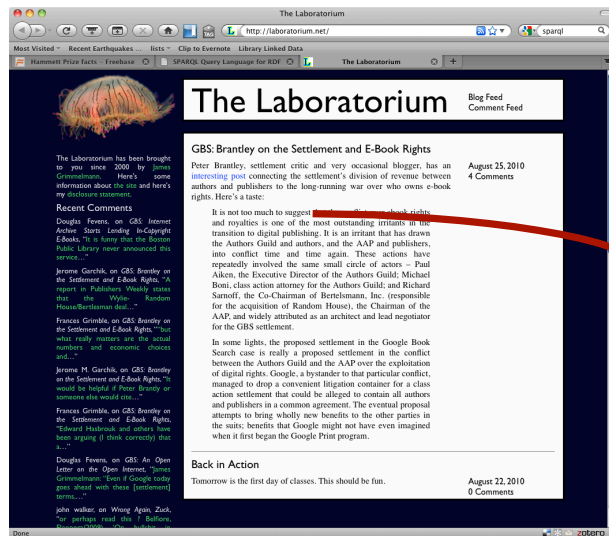
The Future



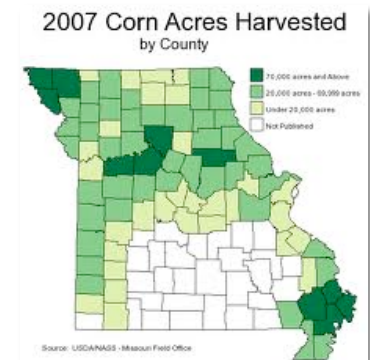
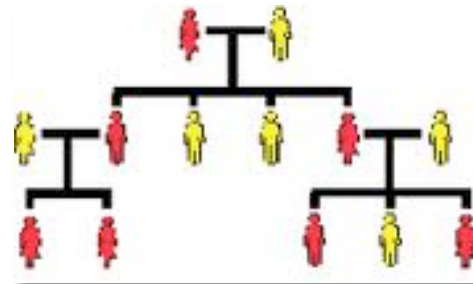
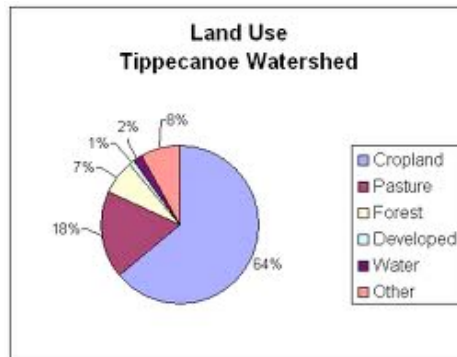
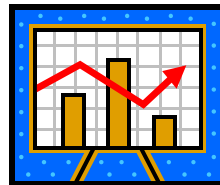
A decorative vertical bar on the left side of the slide, consisting of a wide yellow section and a thin red section on its right edge.

Semantic Web

The “Regular” Web

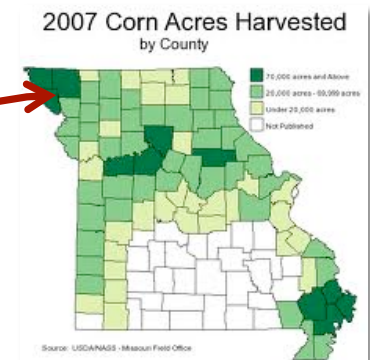
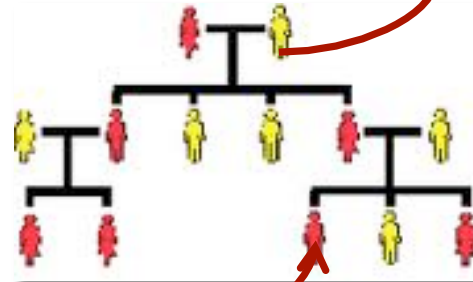
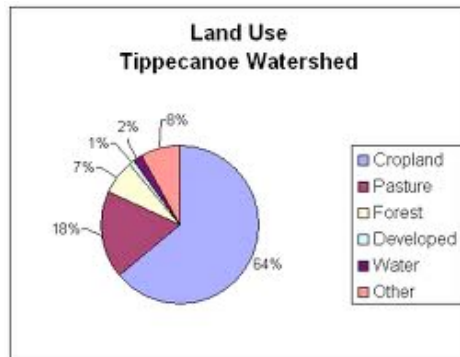
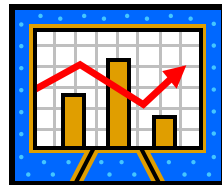


Semantic Web



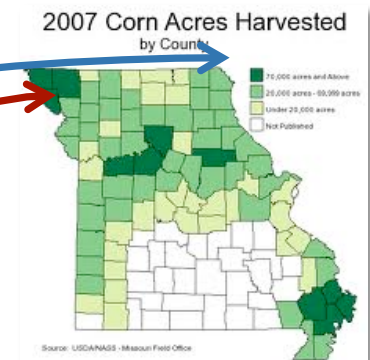
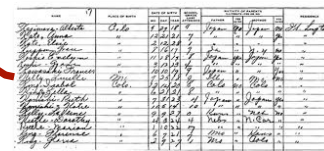
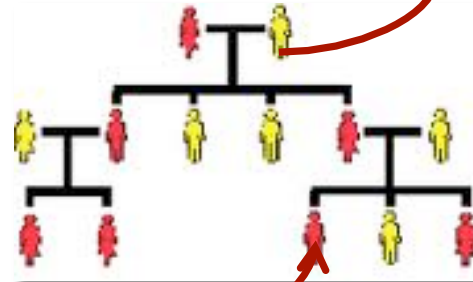
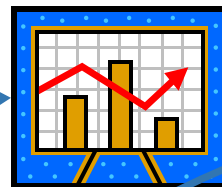
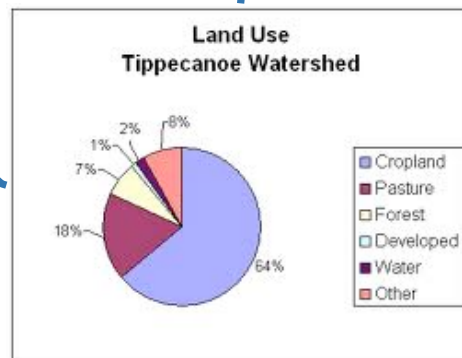
NAME	PLACES OF BIRTH	DATE OF BIRTH	DATE OF DEATH	EDUCATION	MARRIAGE		CHILDREN	REMARKS
					WIFE	DATE		
James, Abbot	Chile	1 25/10	1 25/10	High School	James	24	1	Chile
John, ...	"	1 25/10	1 25/10	High School	John	24	1	"
John, ...	"	1 25/10	1 25/10	High School	John	24	1	"
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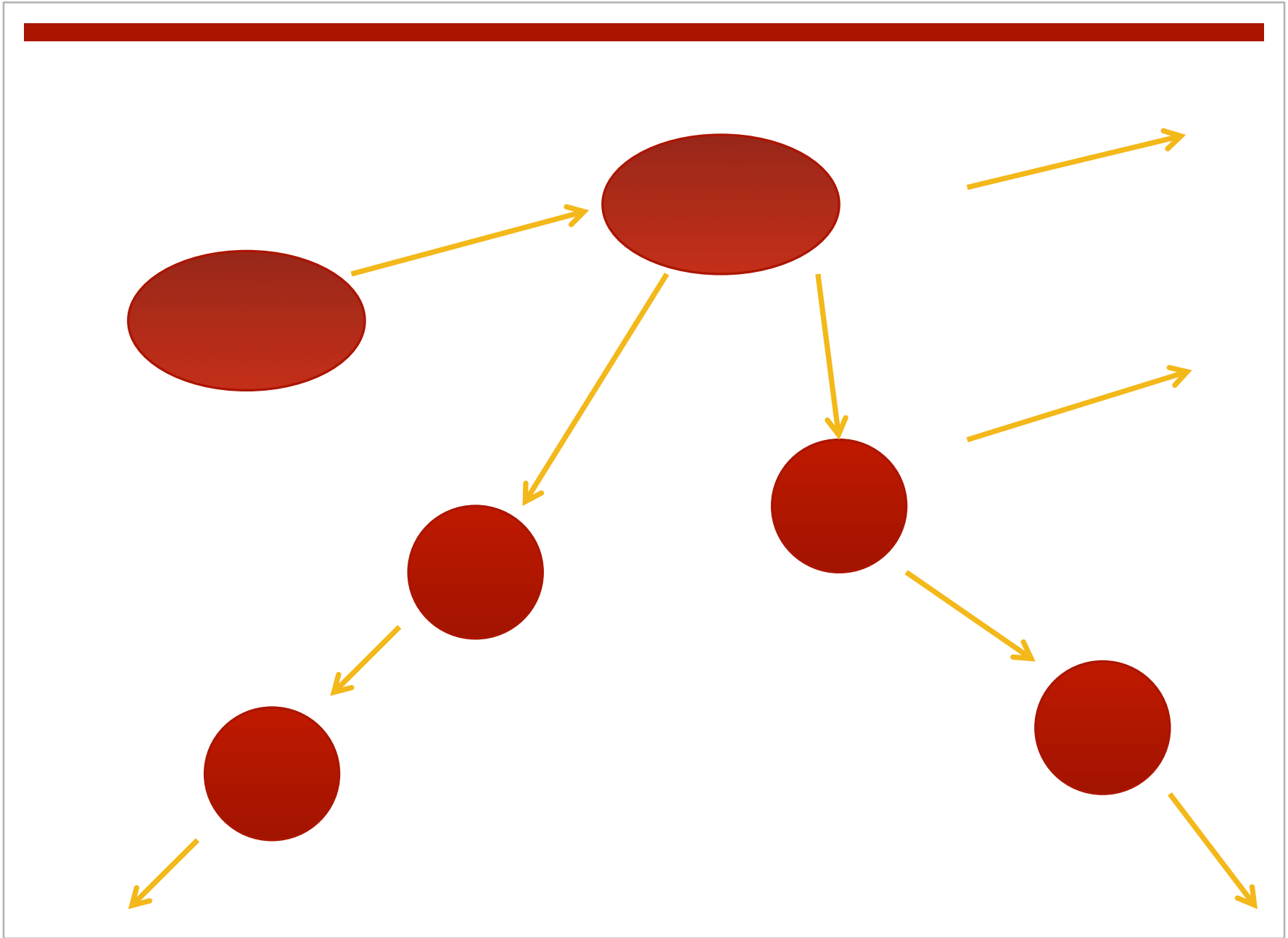
Linked Data

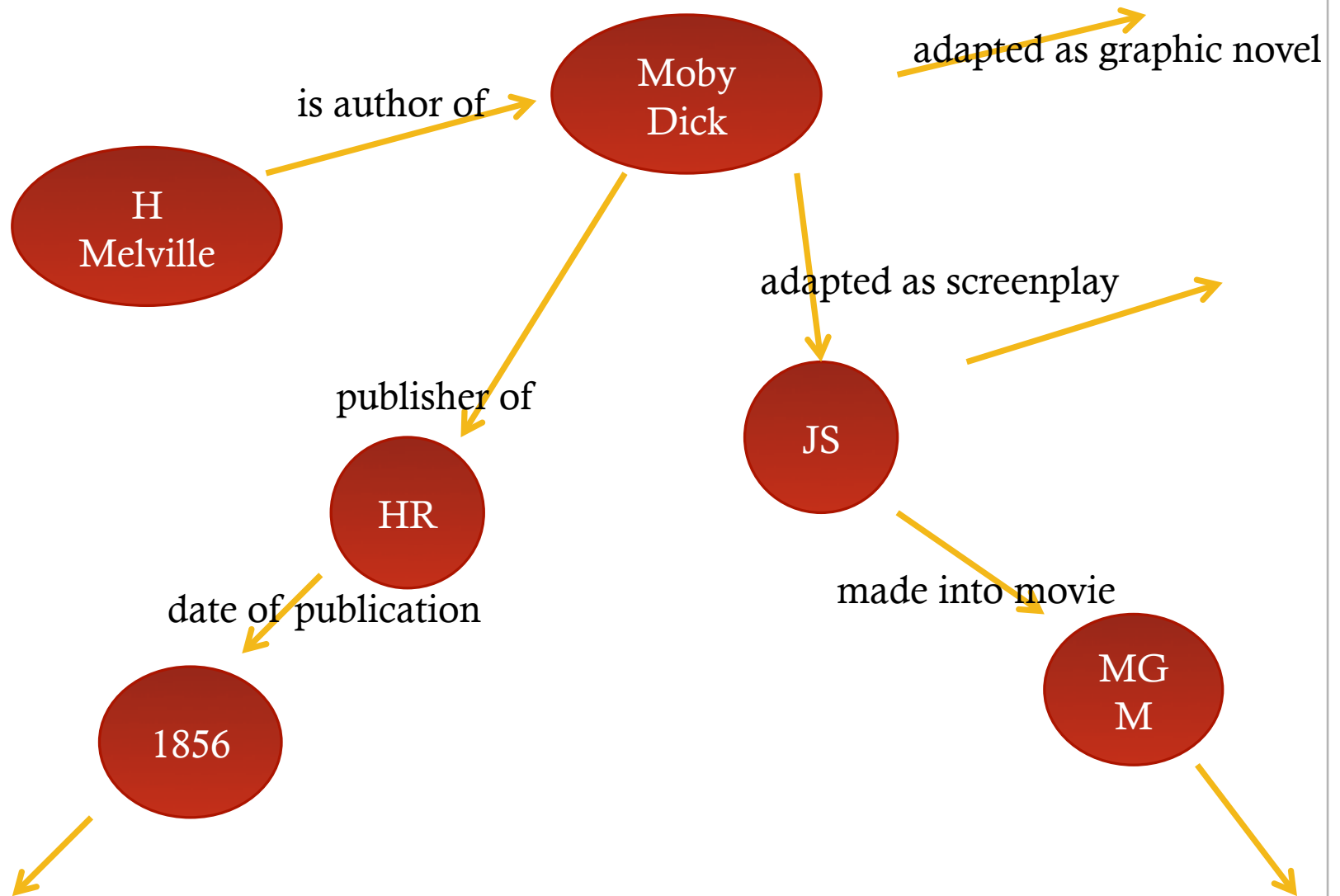


NAME	PLACES OF BIRTH	DATE OF BIRTH	DATE OF DEATH	EDUCATION	MARRIAGE		CHILDREN	REMARKS
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Johnson, Abbie	Ohio	1 25 18	1 25 18		John	24	4	2nd wife
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"	"	1 25 18	1 25 18		"	"	"	"</

Linked Data







Basic Principles

- Data (not text)
- Identifiers (not words)
 - things
 - relationships
- Statements (not records)



Data

What's data?

23 cm.



size:
height:
unit=**centimeters**
value=**23**



What's data?

Norwegian literature (Nynorsk)



<http://id.loc.gov/authorities/sh85092728>



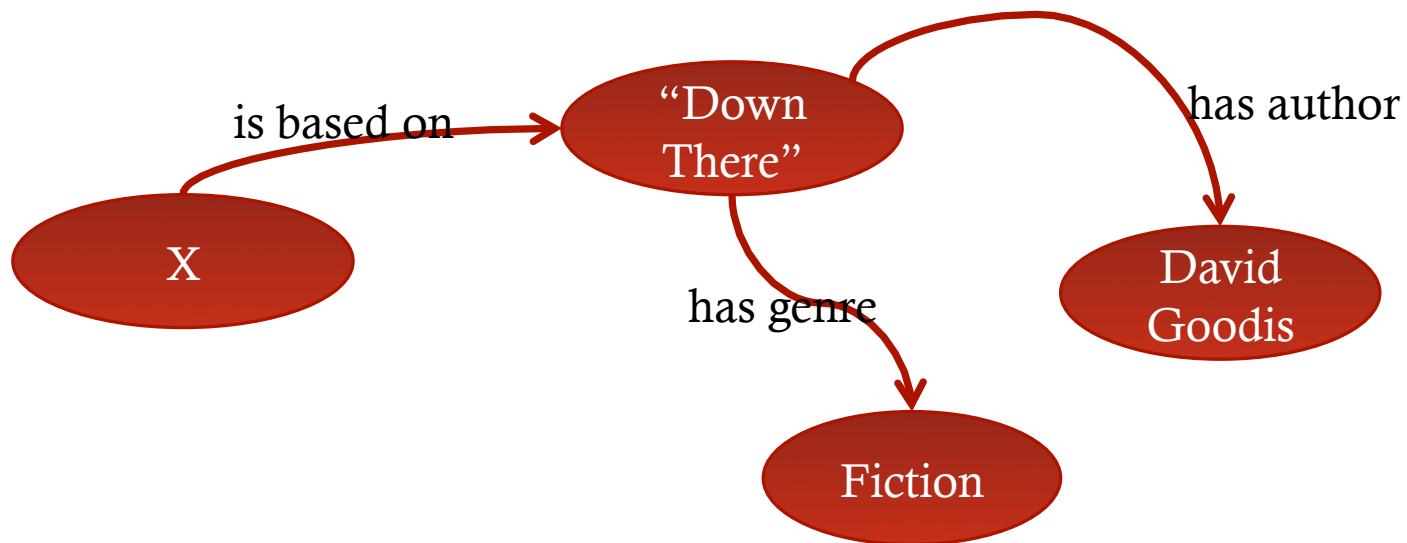
label=Norwegian literature (Nynorsk)

broader=<http://id.loc.gov/authorities/sh92005396>

narrower=<http://id.loc.gov/authorities/sh85092717>

Relationships are data, too

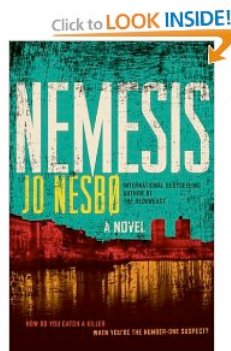
500 \$a Based on the novel "Down there" by David Goodis.





Identifiers

Things



<http://www.amazon.com/Nemesis-Jo-Nesbo/dp/B002SB8R0Y>

<http://books.google.com/ebooks?id=q-ZyntEIbEoC&d>

<http://openlibrary.org/works/OL5939025W/>

Things



<http://openlibrary.org/authors/OL1471661A>

<http://viaf.org/viaf/44460209/>

<http://www.amazon.com/Jo-Nesb-oslavh;/e/B001JOJT6C/>

Things



<http://en.wikipedia.org/wiki/Norway>

<http://www.geonames.org/countries/NO/norway.html>

<http://id.loc.gov/vocabulary/countries/no>

Data elements

Dublin Core

<http://purl.org/dc/elements/1.1/title>

(Title)

Friend of a Friend (FOAF)

http://xmlns.com/foaf/spec/#term_Person

(Person)

http://xmlns.com/foaf/spec/#term_name

(Person name)

DBpedia

<http://dbpedia.org/ontology/Place>

(Place)

Relationships

<http://rdvocab.info/RDARelationshipsWEMI/reproductionOfManifestation>

RDA: “is a reproduction of....”

<http://iflastandards.info/ns/fr/frbr/frbrer/P2044>

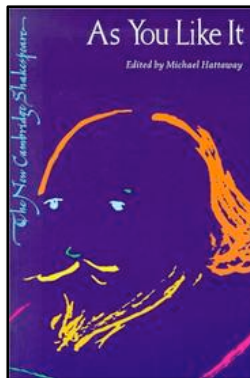
FRBR: “is successor to....”



Statements

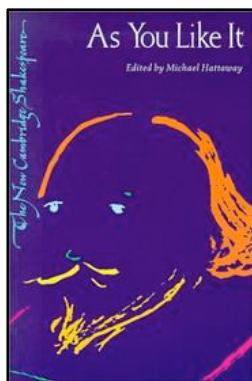
“not records”

A record



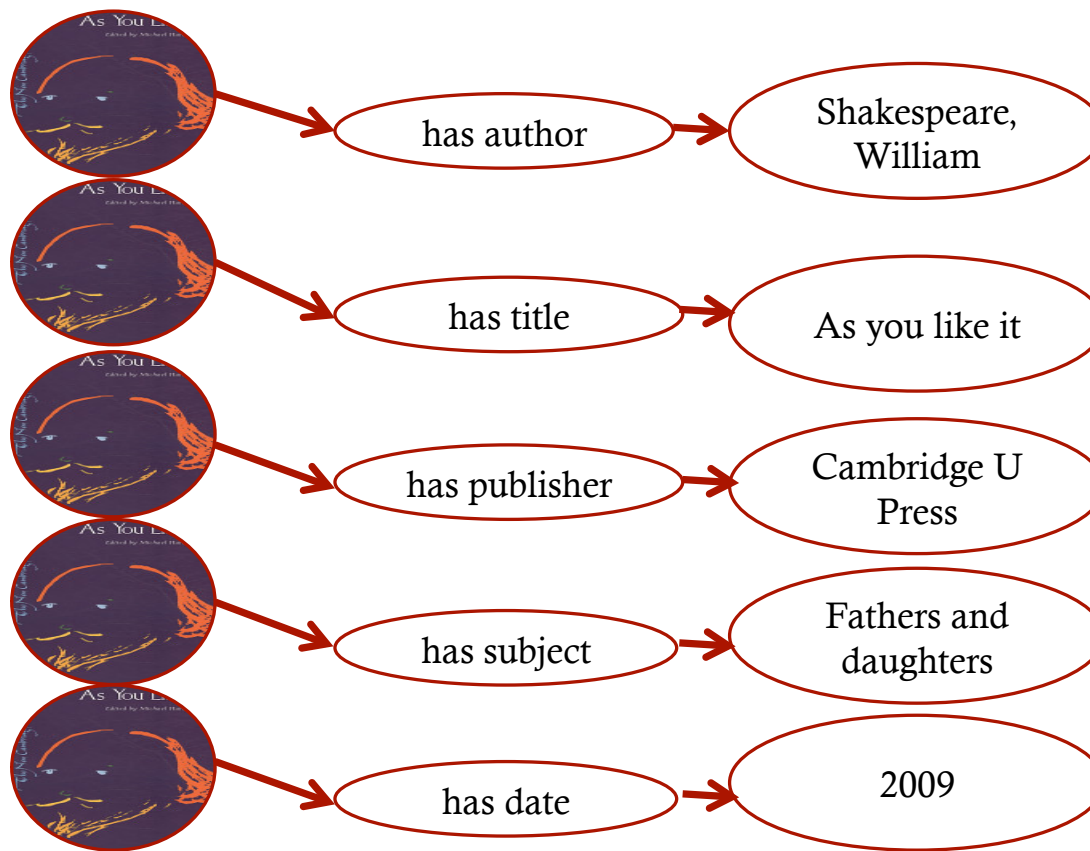
- 001 |a 822.3/3 |2 22
|a Shakespeare, William, |d 1564-1616.
- 24510 |a As you like it / |c edited by Michael Hattaway.
- 250 |a Updated ed.
- 260 |a Cambridge, UK ; |a New York : |b Cambridge University Press, |c 2009.
- 300 |a xv, 240 p. : |b ill. ; |c 24 cm.
- 4901 |a New Cambridge Shakespeare
- 504 |a Includes bibliographical references (p. 240).
- 5050 |a Introduction. Journeys ; Plays within the play ; Theatrical genres ; Pastoral ; Counter-pastoral ; The condition of the country ; Politics ; 'Between you and the women the play must please' ; Gender ; Nuptials ; Sources ; Date and occasion ; Stage history ; Recent critical and stage interpretations -- Note on the text -- List of characters -- The play -- Textual analysis -- Appendixes : 1. An early court performance? ; 2. Extracts from Shakespeare's principal source, Lodge's Rosalind ; 3. The songs.
- 650 0 |a Fathers and daughters |v Drama.
- 650 0 |a Exiles |v Drama.
- 60010 |a Shakespeare, William, |d 1564-1616. |t As you like it.
- 57 |a Pastoral drama. |2 gsafd

A record



- ja 822.3/3 |2 22
- 001 |a Shakespeare, William, |d 1564-1616.
- 24510 |a As you like it / |c edited by Michael Hattaway.
- 250 |a Updated ed.
- 260 |a Cambridge, UK ; |a New York : |b Cambridge University Press, |c 2009.
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- 650 0 |a Fathers and daughters |v Drama.
- 650 0 |a Exiles |v Drama.
- 60010 |a Shakespeare, William, |d 1564-1616. |t As you like it.
- 57 |a Pastoral drama. |2 gsafd

Statements



“Triples”

Triples

<http://lcn.loc.gov/2009025024>

(the book)

<http://RDVocab.info/roles/authorWork>

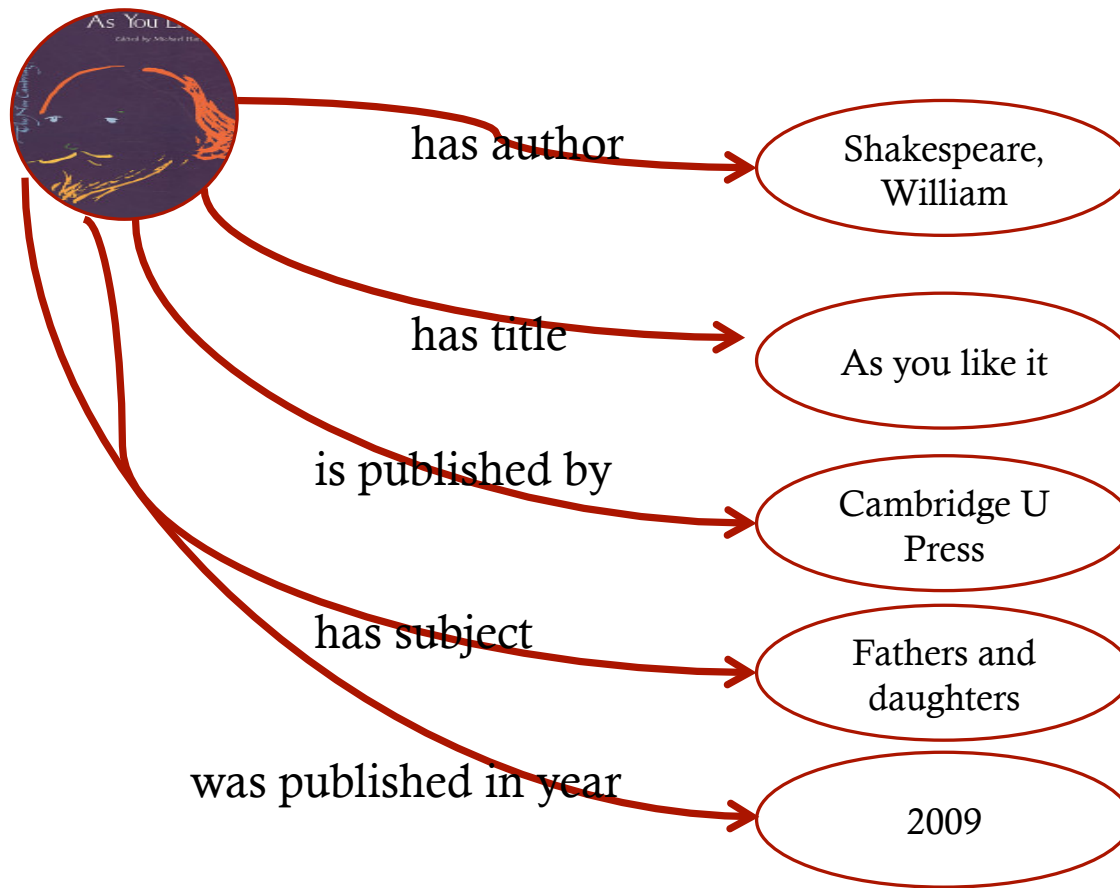
(has author)

<http://lcna.loc.gov/n 78095332>

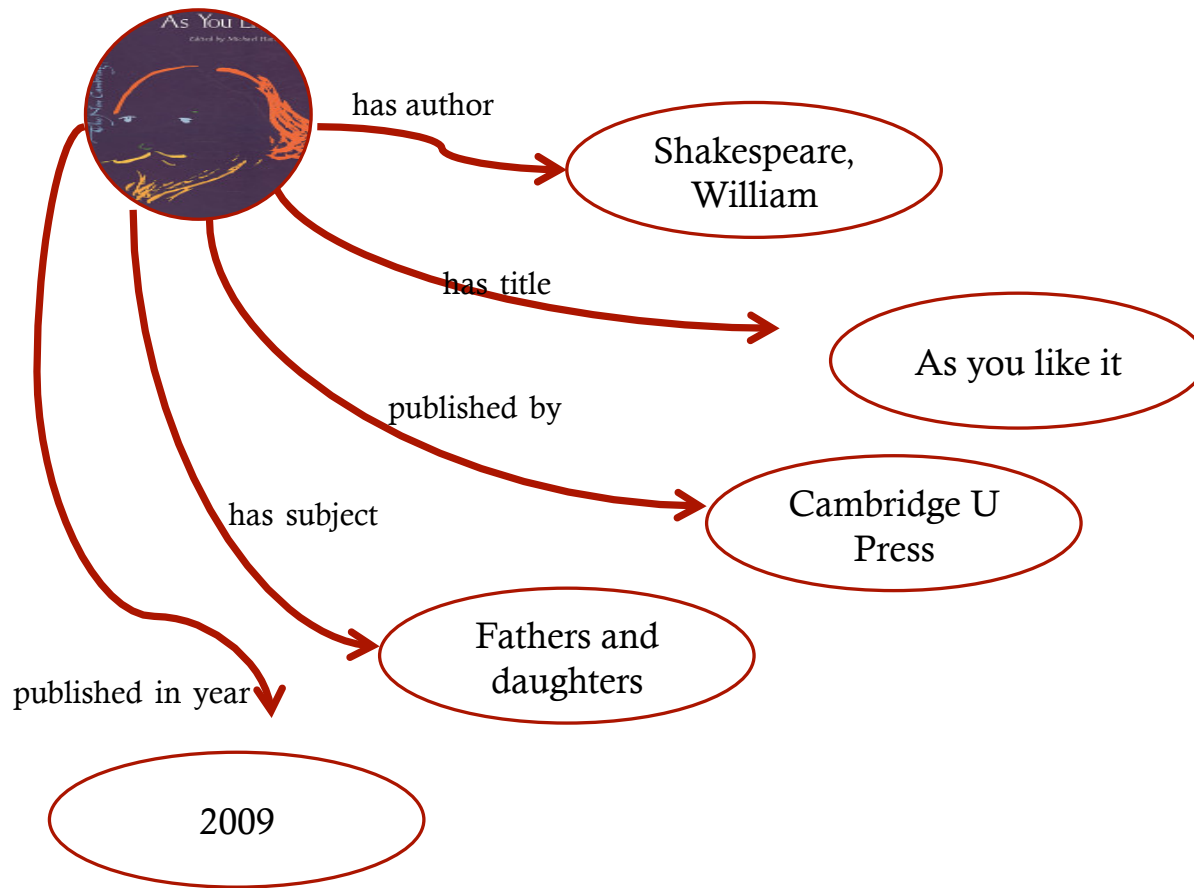
(the author)

`<http://lcn.loc.gov/2009025024><http://RDVocab.info/roles/authorWork><http://lcna.loc.gov/n 78095332>`

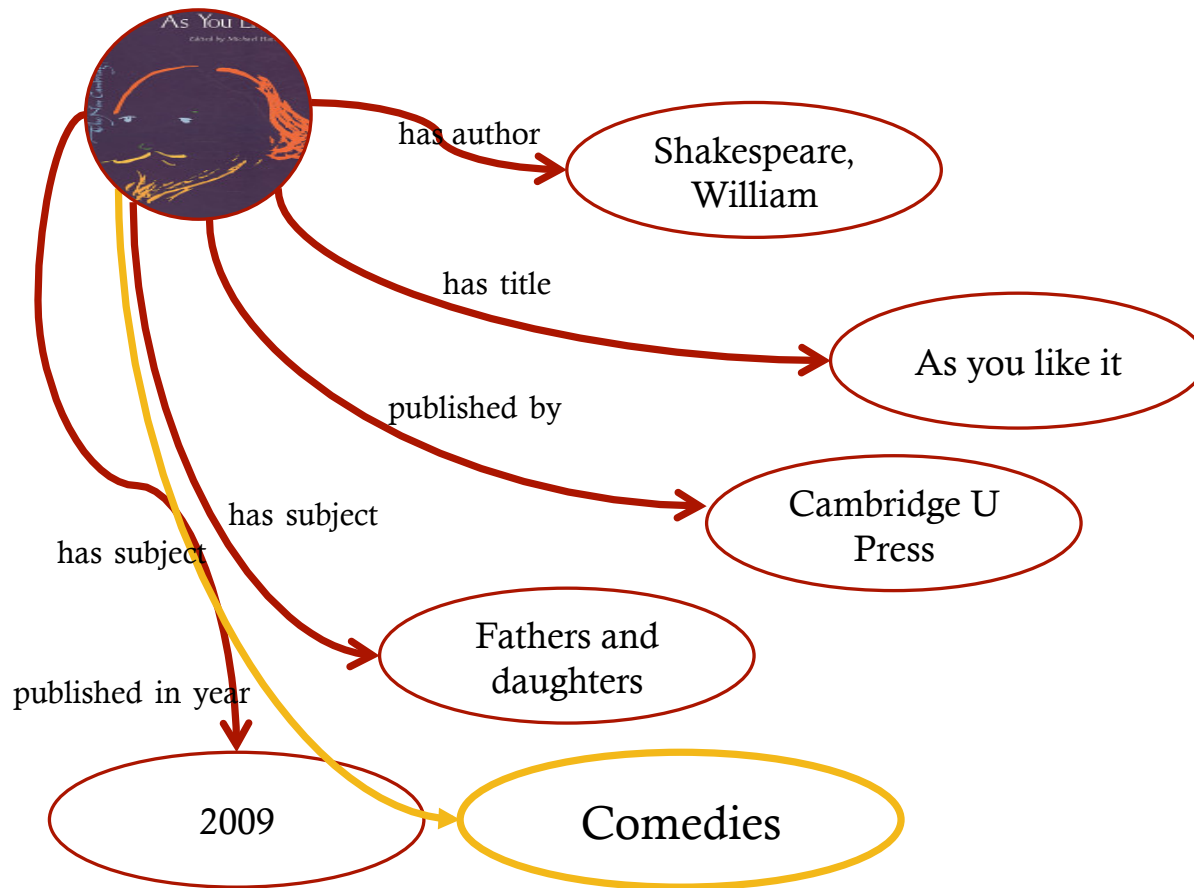
Graphs



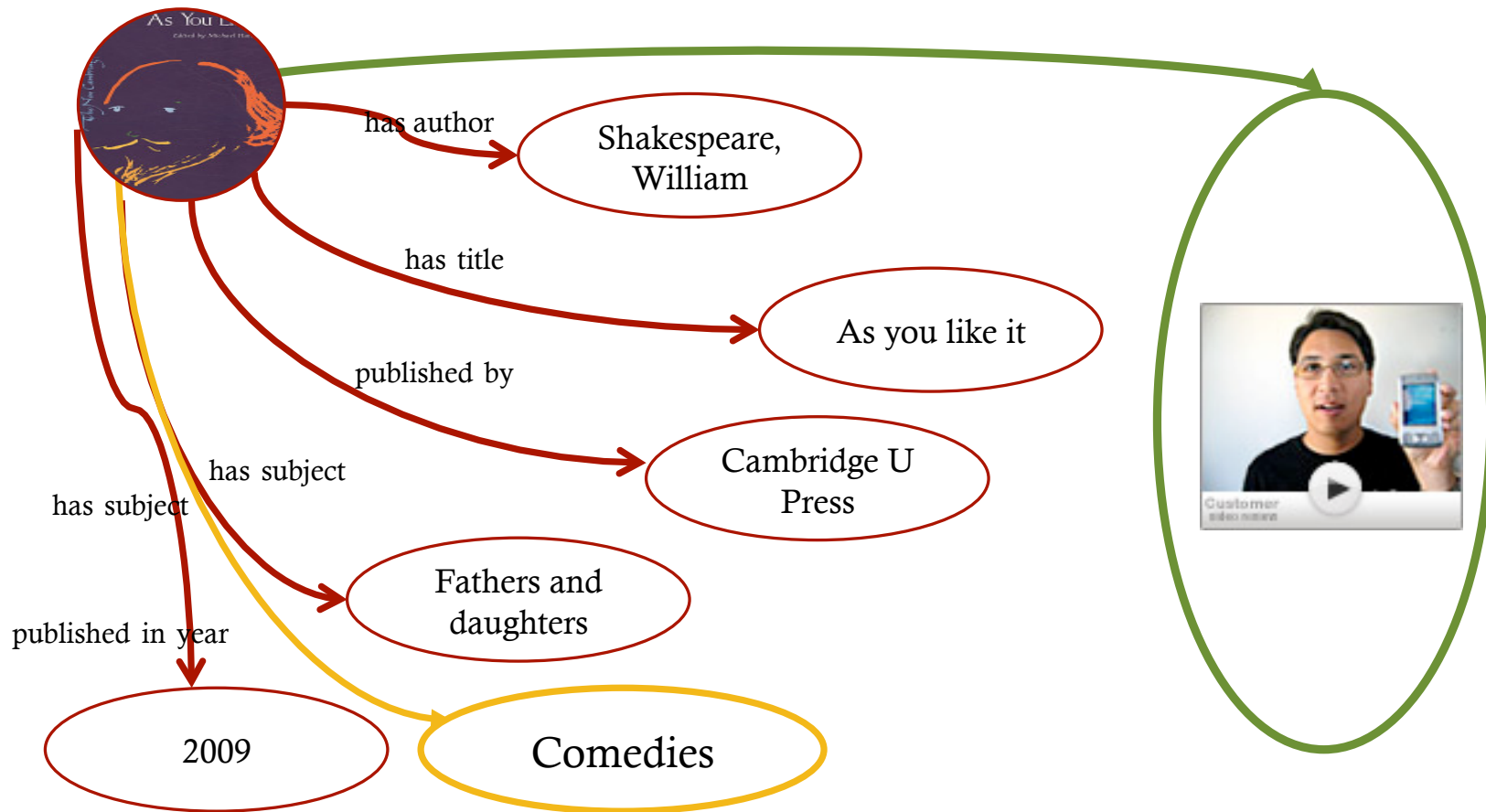
Graphs



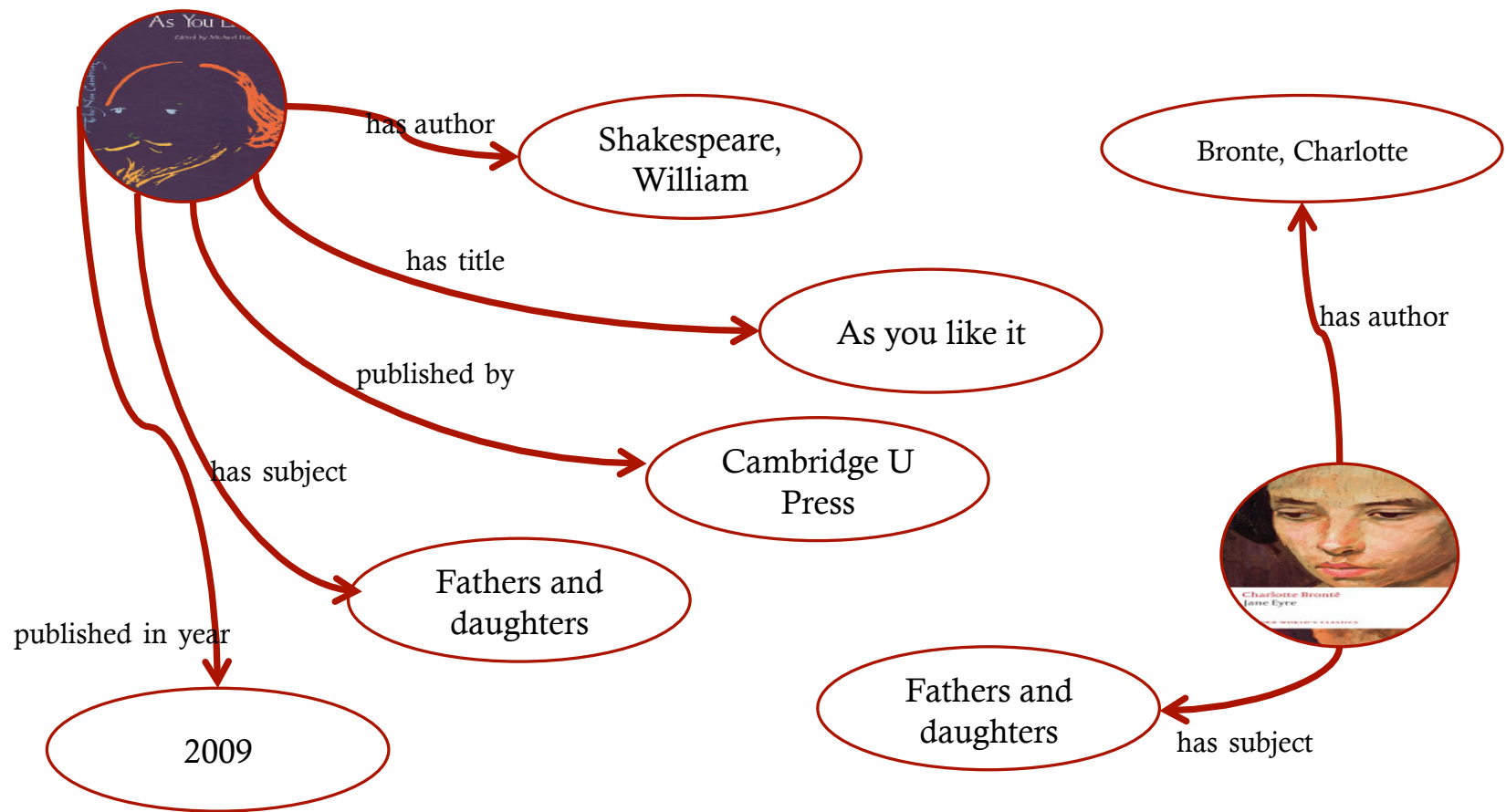
Advantages: flexibility



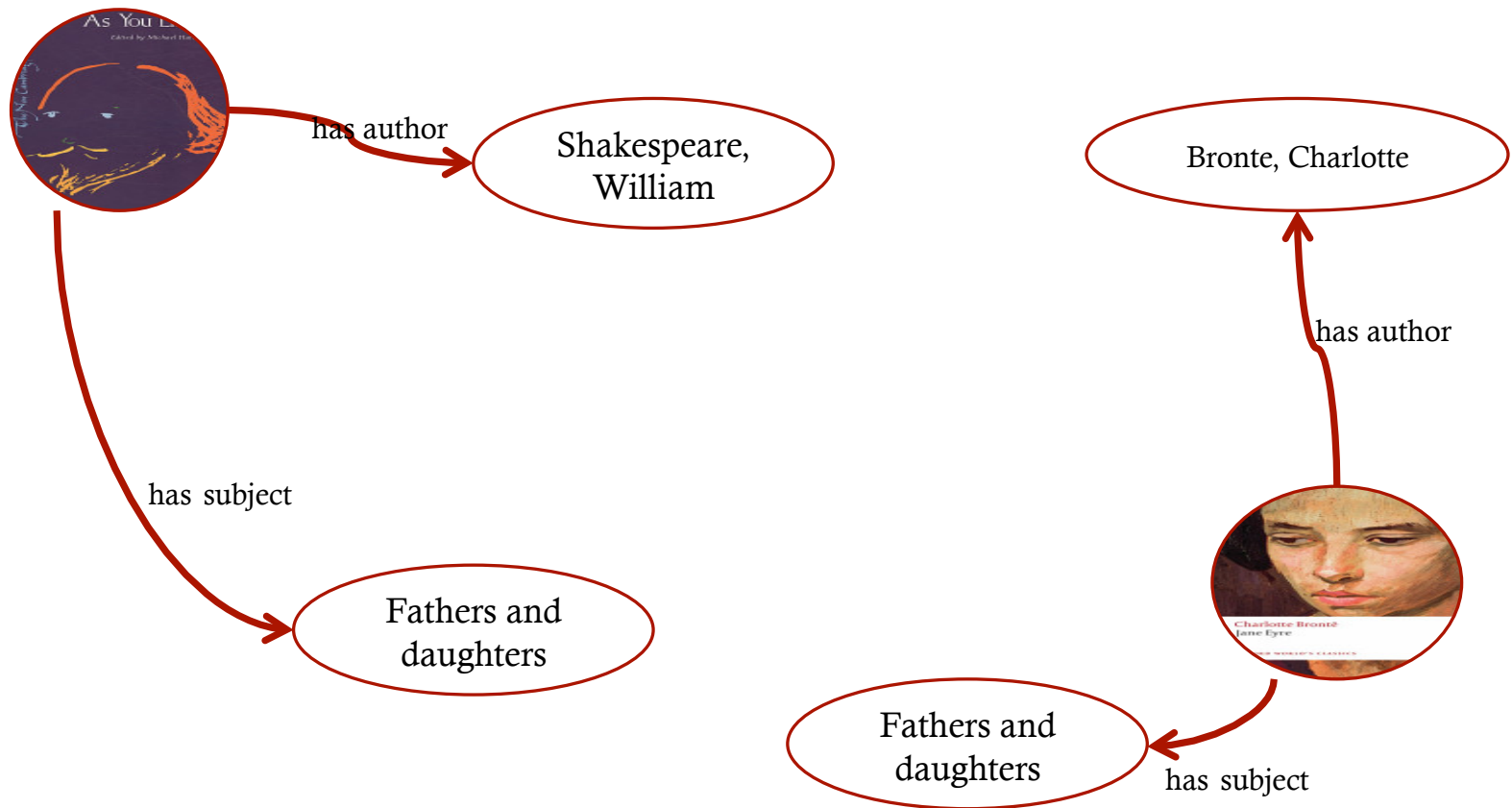
Advantages: flexibility



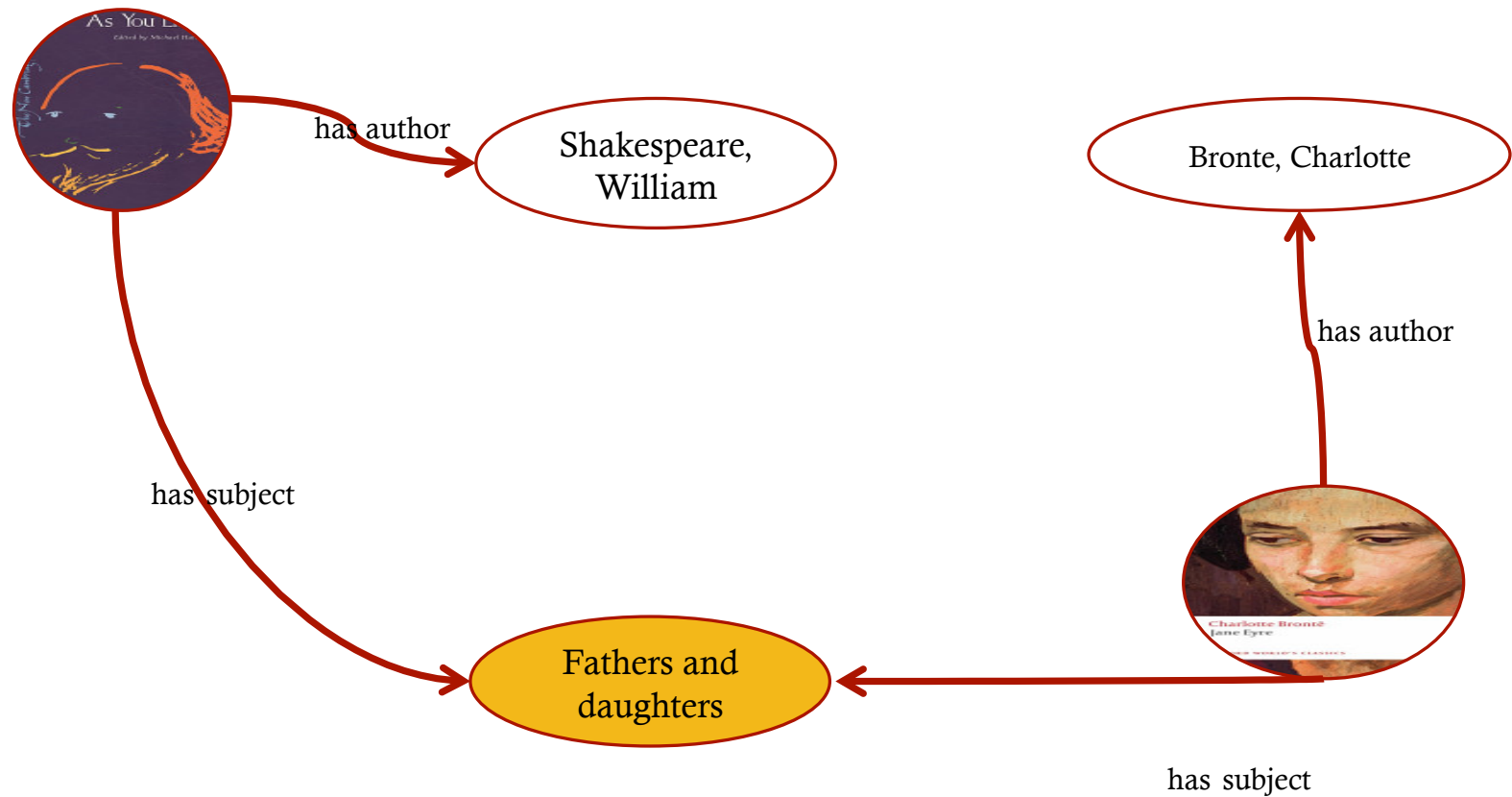
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Recombinant metadata



Recombinant metadata



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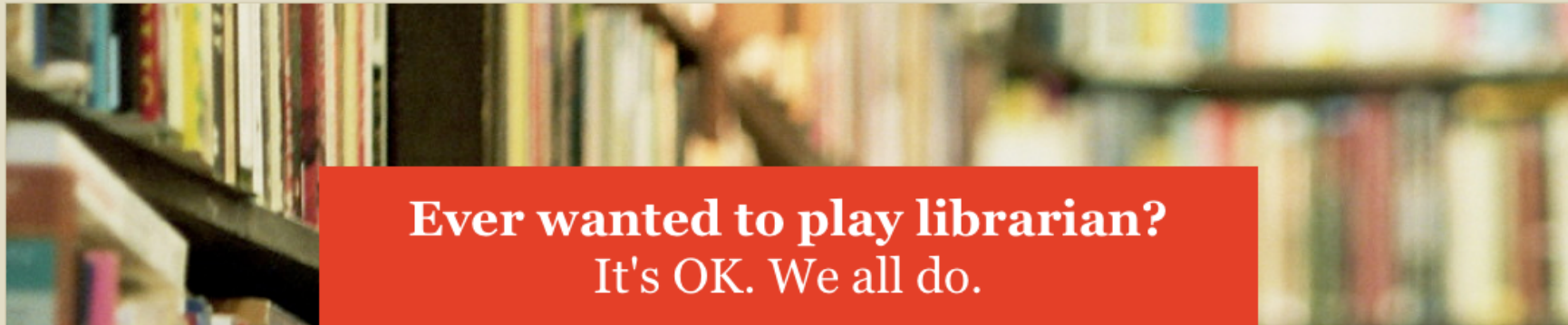


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1,339 works

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Captive heart

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Elizabethan Love

Stars in my heart

Love is dangerous

Love on the run

A Deal of Hearts

The Struggled Heart

A hazard of hearts

Love leaves an echo

Wings on my heart

A ghost in Monte Carlo

The little pretender

The enchanted walk

The role of love

The magic of love

No heart is free

Love in the Moon

Love is the enemy

Amour against love

Sweet punishment

The fire of love

The wings of love

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Last edited by [George](#)
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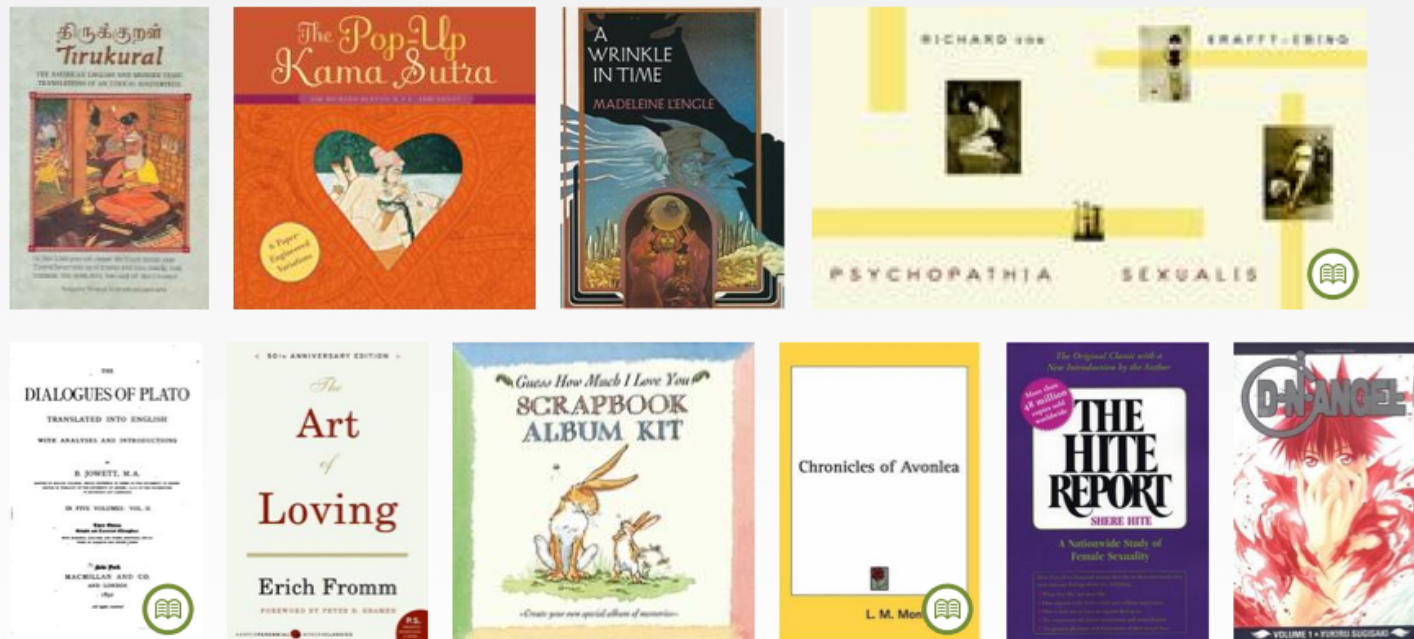
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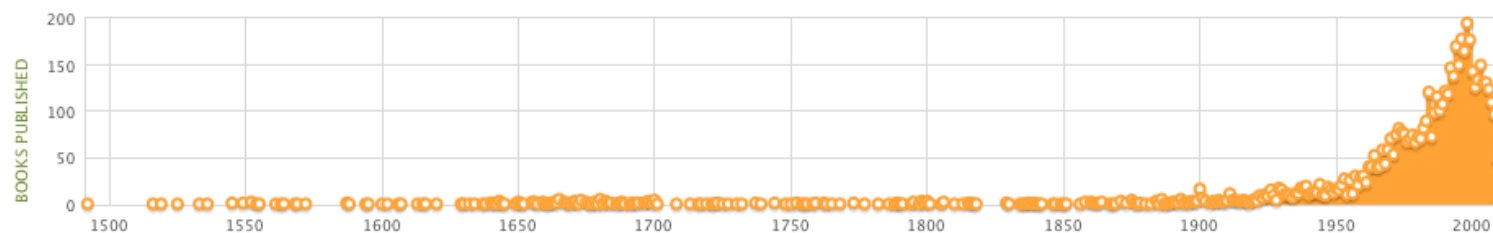
OPEN LIBRARY

Love 5,129 books published between 1492-2011



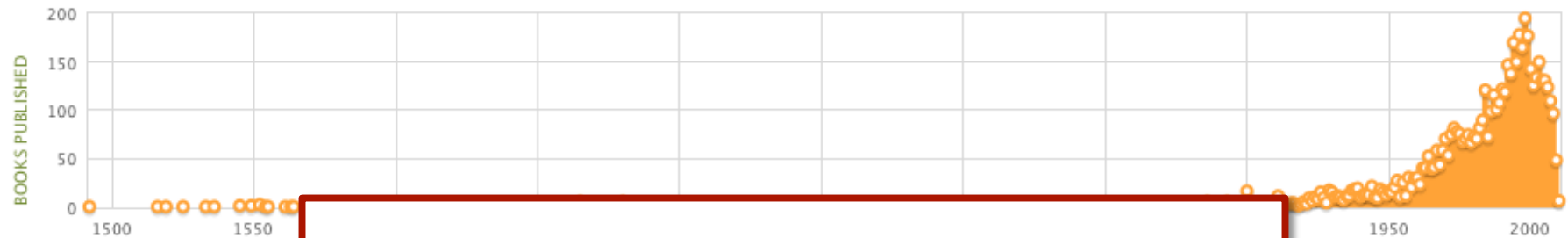
Publishing History

This graph is interactive. Click and drag to select a range, or click a single year and we'll load the books above.



Publishing History

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Prolific Authors

who have written the most books on this topic

[Ruoquan Wu](#), 21 books

[Plato](#), 11 books

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[William Shakespeare](#), 7 books

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[Gary D. Chapman](#), 6 books

PEOPLE

[Jesus Christ](#), [Plato](#), [Thomas Aquinas](#), [Saint \(1225?–1274\)](#), [Augustine](#), [Saint](#), [Bishop of Hippo](#), [Socrates](#), [Sigmund Freud \(1856–1939\)](#), [William Shakespeare \(1564–1616\)](#), [Vātsyāyana](#), [León Hebreo \(b. ca. 1460\)](#), [Søren Kierkegaard \(1813–1855\)](#)

[Pocket Books](#), 33 books

[Macmillan](#), 32 books

[Doubleday](#), 31 books

[Paulist Press](#), 27 books

[Gallimard](#), 25 books

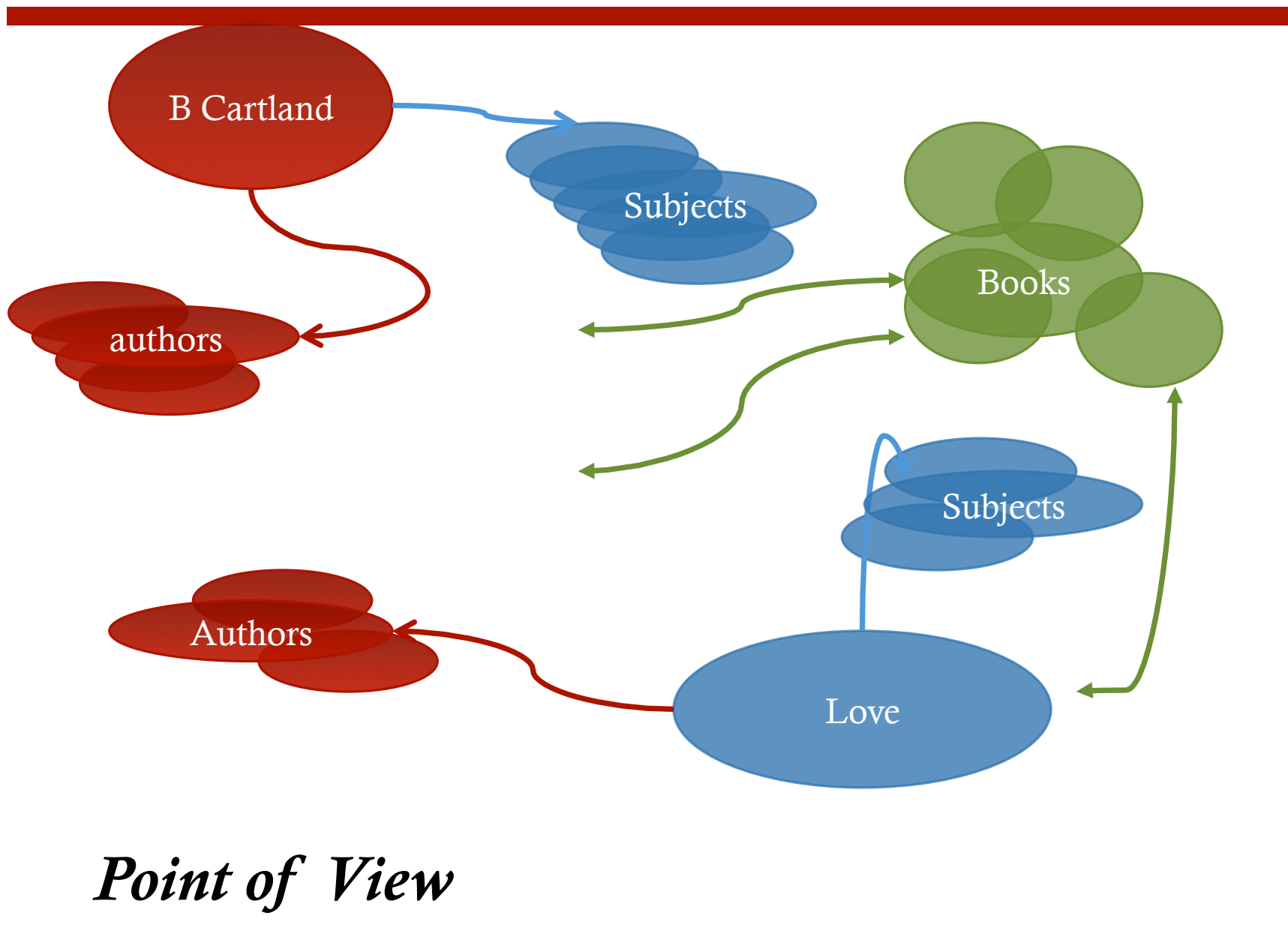
[Simon & Schuster](#), 24 books

[St. Martin's Press](#), 24 books

[Bantam](#), 23 books

[HarperCollins](#), 23 books

[17th century](#), [19th century](#), [Middle Ages, 600–1500](#), [To 18th century](#), [Early church, ca. 1st to 16th century](#)

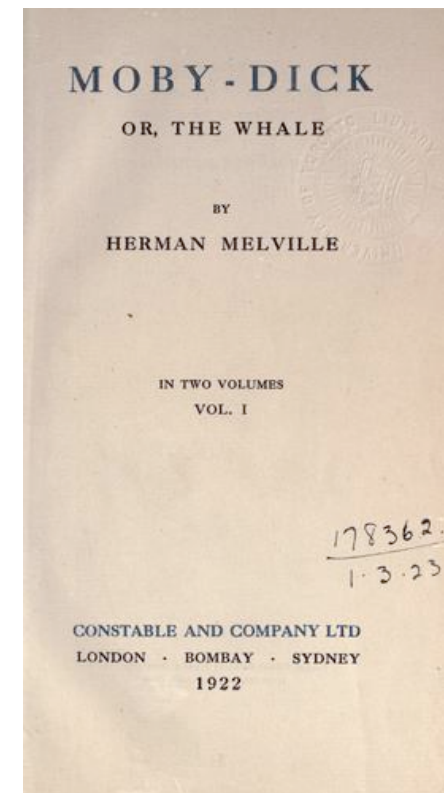
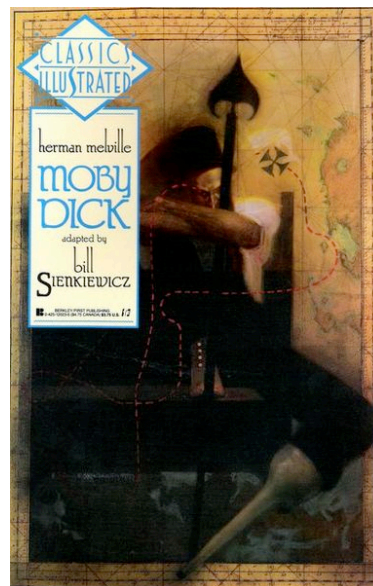


What is the earliest version of Moby Dick that this library has?

What year was Moby Dick first published?

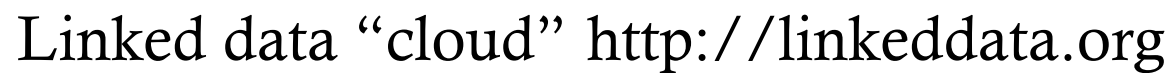
1851

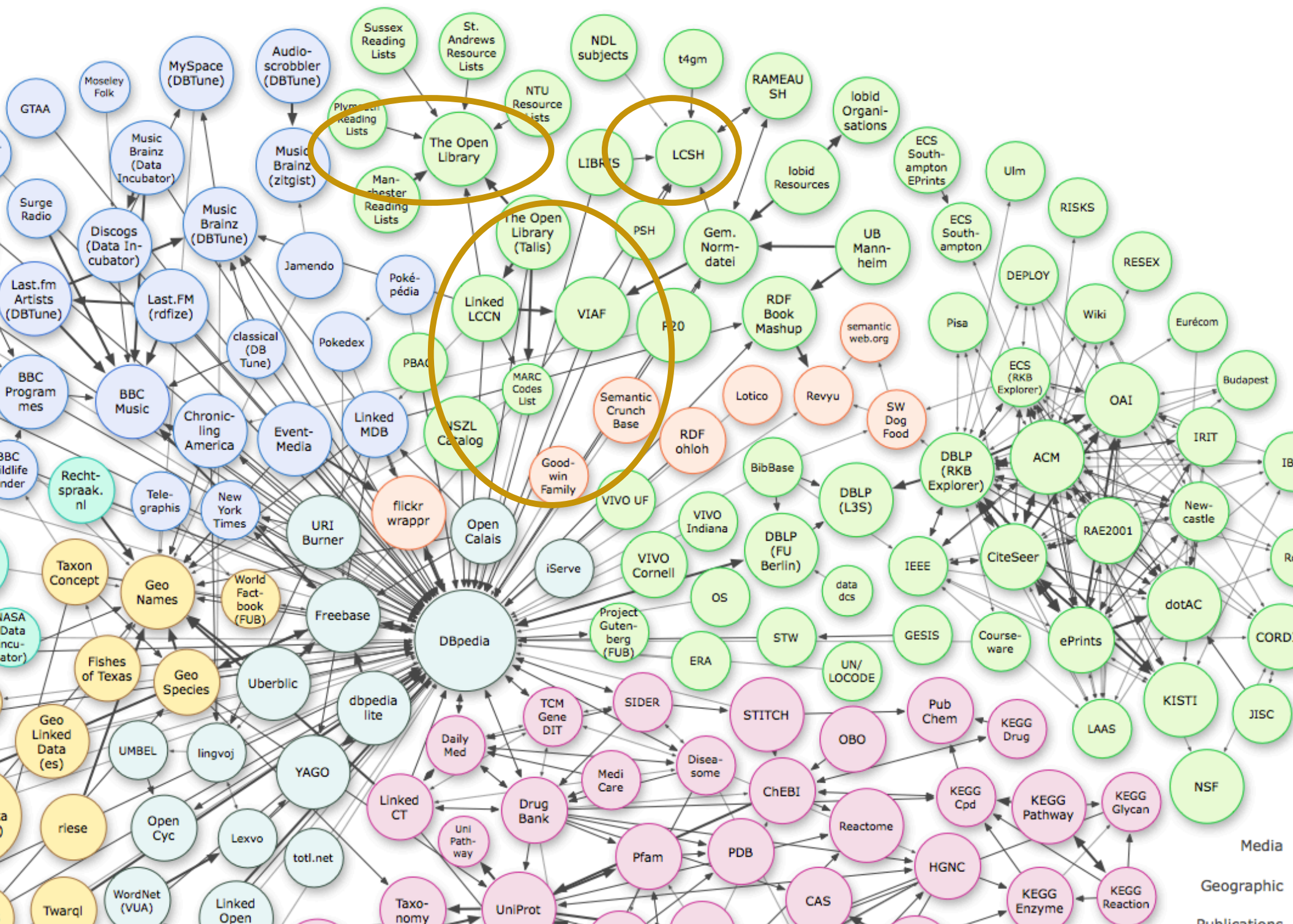
Is there a graphic novel version?



More Good Reasons

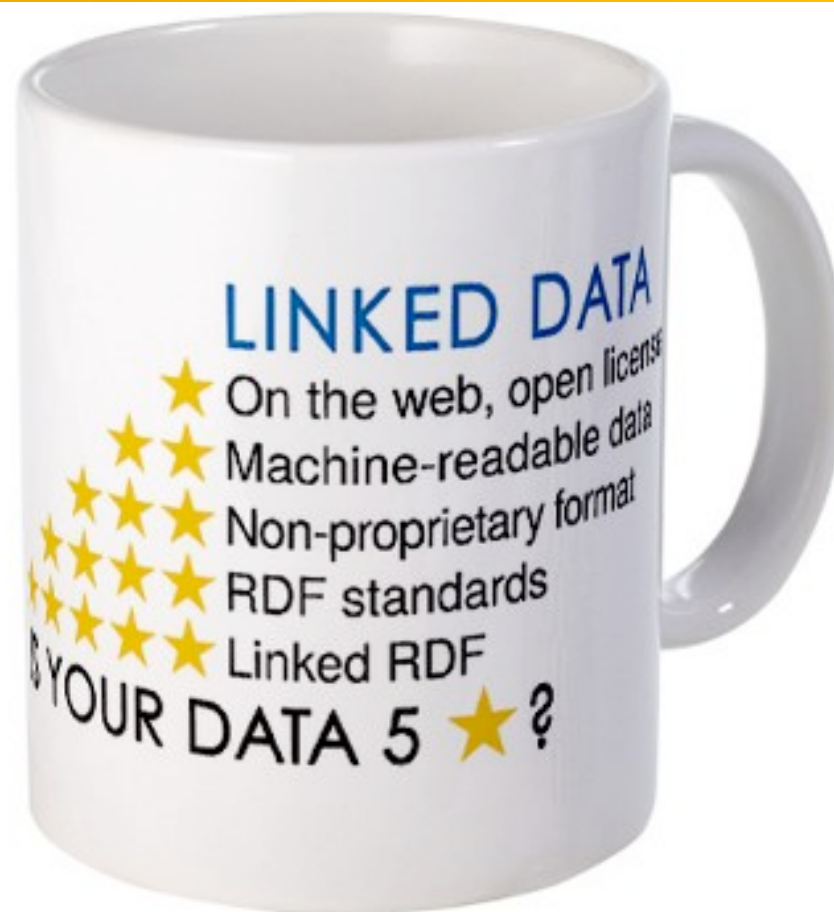
- “Triples” are used by many communities, not just libraries
- Data in triples can interact on the Web, just like documents in HTML can interact on the Web
- Data in triples can interact with ANY other data in triples







Libraries and Linked Data



Vocabularies

- Library of Congress
 - <http://id.loc.gov/> -- LC Subject Headings, and more
- OCLC – Dewey Summaries
 - <http://dewey.info/>
- RDA Vocabularies
 - <http://metadataregistry.org/rdabrowse.htm>
- MARC codes (informal)
 - <http://marccodes.herokuapp.com/muscomp/>

Data Elements

- RDA
 - <http://metadataregistry.org/rdabrowse.htm>
- FRBRer
 - <http://metadataregistry.org/schema/show/id/5.html>
- ISBD
 - <http://metadataregistry.org/schema/show/id/25.html>



RDA and Linked Data

The RDA (Resource Description and Access) Vocabularies

This page provides quick links for the Registered RDA Element Sets and Value Vocabularies.
Each set of elements or vocabulary concepts has a link to the general description as well as a link to a list of elements

RDA Element Sets

[FRBR Entities for RDA](#)

[RDA Elements \(Group 1\)](#)

[RDA Group 2 Elements](#)

[RDA Group 3 Elements](#)

[RDA Relationships for Concepts, Events, Objects, Places](#)

[RDA Relationships for Persons, Corporate Bodies, Families](#)

[RDA Relationships for Works, Expressions, Manifestations, Items](#)

[RDA Roles](#)

[Class List](#)

[Elements List](#)

[Elements List](#)

[Elements List](#)

[Elements List](#)

[Elements List](#)

[Elements List](#)

[Elements List](#)

RDA Vocabularies

[RDA Applied Material](#)

[RDA Aspect Ratio](#)

[RDA Base Material](#)

[RDA Base Material for Microfilm, Microfiche, Photographic Negatives, and Motion Picture Film](#)

[RDA Book Format](#)

[RDA Broadcast Standard](#)

[RDA Carrier Type](#)

[RDA Choruses](#)

[RDA Colour](#)

[RDA Colour of Moving Image](#)

[RDA Colour of Still Image](#)

[Concept List](#)

[Concept List](#)

[Concept List](#)

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[Concept List](#)

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RDA: Content Type



cartographic dataset
cartographic image
cartographic moving image
cartographic tactile image
cartographic tactile three-dimensional form
cartographic three-dimensional form
computer dataset
computer program
notated movement
notated music
performed music
sounds
spoken word
still image
tactile image
tactile notated movement
tactile notated music
tactile text
tactile three-dimensional form
text



Vocabulary: RDA Content Type**Concepts:** spoken word

Detail

Properties

History

Detail

Preferred Label: spoken word

Language: English

URI: <http://RDVocab.info/termList/RDAContentType/1013>

Top Concept?:

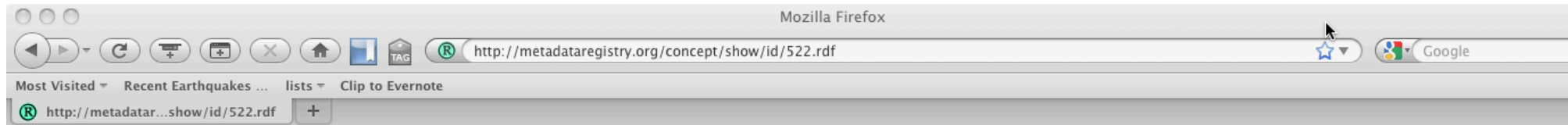
Status: New-Proposed

Properties

scope note	Includes recorded readings, recitations, speeches, interviews, oral histories, etc., computer-generated speech, etc.	English	New-Proposed
scope note	Umfasst aufgezeichnete Lesungen, Rezitationen, Reden, Interviews, mündliche Überlieferungen usw. und maschinell erzeugte Sprache.	German	
preferred label	spoken word	English	New-Proposed
preferred label	gesprochenes Wort	German	
definition	Content expressed through language in an audible form.	English	New-Proposed
definition	Inhalt, der durch Sprache in einer hörbaren Form ausgedrückt wird.	German	

List

Get RDF



```
- <rdf:RDF>
  <!-- NOTICE: This is a single-concept fragment -->
  <!-- Scheme: RDA Content Type -->
  - <skos:ConceptScheme rdf:about="http://RDVocab.info/termList/RDAContentType">
    <dc:title>RDA Content Type</dc:title>
  </skos:ConceptScheme>
  <!-- Concept: spoken word -->
  - <skos:Concept rdf:about="http://RDVocab.info/termList/RDAContentType/1013" xml:lang="en">
    <skos:inScheme rdf:resource="http://RDVocab.info/termList/RDAContentType"/>
    <skos:status rdf:resource="http://metadataregistry.org/uri/RegStatus/1002"/>
    <skos:prefLabel xml:lang="en">spoken word</skos:prefLabel>
    - <skos:definition xml:lang="en">
      Content expressed through language in an audible form.
    </skos:definition>
    - <skos:scopeNote xml:lang="en">
      Includes recorded readings, recitations, speeches, interviews, oral histories, etc., computer-generated speech, etc.
    </skos:scopeNote>
    <skos:prefLabel xml:lang="de">gesprochenes Wort</skos:prefLabel>
    - <skos:scopeNote xml:lang="de">
      Umfasst aufgezeichnete Lesungen, Rezitationen, Reden, Interviews, mündliche Überlieferungen usw. und maschinell
      erzeugte Sprache.
    </skos:scopeNote>
    - <skos:definition xml:lang="de">
      Inhalt, der durch Sprache in einer hörbaren Form ausgedrückt wird.
    </skos:definition>
  </skos:Concept>
```

We have...

- W3C Library Linked Data Incubator Group
 - <http://www.w3.org/2005/Incubator/lld/>
- ALA Library Linked Data Interest Group
 - [http: to come](http://to.come)
- Library linkable datasets
 - <http://ckan.net/group/lld>

We do *NOT* (yet) have...

- A linked data creation system
- Linked data library catalog software
- A library linked data meeting place

Thank You!

kcoyle@kcoyle.net



<http://kcoyle.net/presentations/>