

OXLOD Open Workshop

14 Nov 2017 - OeRC

Introduction and project outline – Jon Ray

Basics of Linked Data – Kevin Page

Progress report – Athanasios Velios

Bodleian Chinese catalogue – Joshua Seufert

Analysis and plans for next month – Athanasios Velios



Name	Organisation	Email addres





Representing knowledge on the Web using Linked Data

(The Semantic Web and Why You Should Care)

Kevin Page

University of Oxford e-Research Centre

OXLOD briefing, March 2017

(the slide I nearly removed)

- When knowledge has been generated, we should capitalise on its value by
 - capturing it
 - publishing it
 - using it
 - linking it
 - re-using and building upon it ("unintentionally"?)

Tim Berners-Lee and the World Wide Web

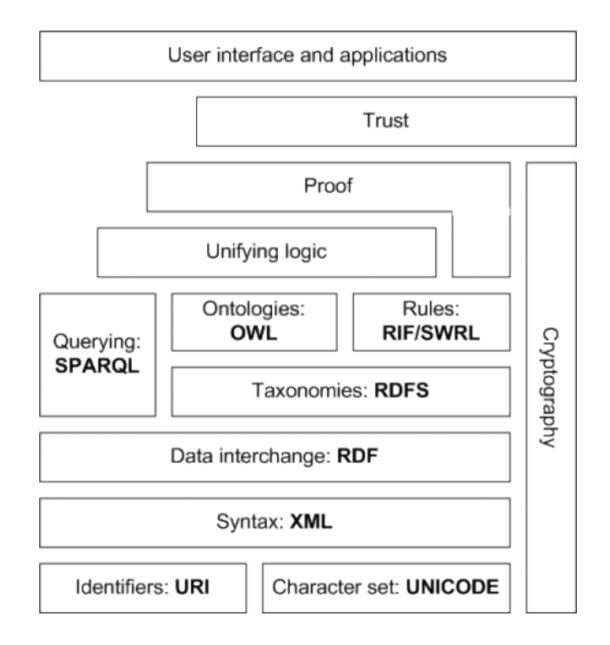


"This machine is a server - DO NOT POWER IT DOWN!!"

What is the Semantic Web?

- The web is the largest and most successful distributed system ever constructed
- But it is a Web of Documents
- The Semantic Web is the effort to create the equivalent Web of Data

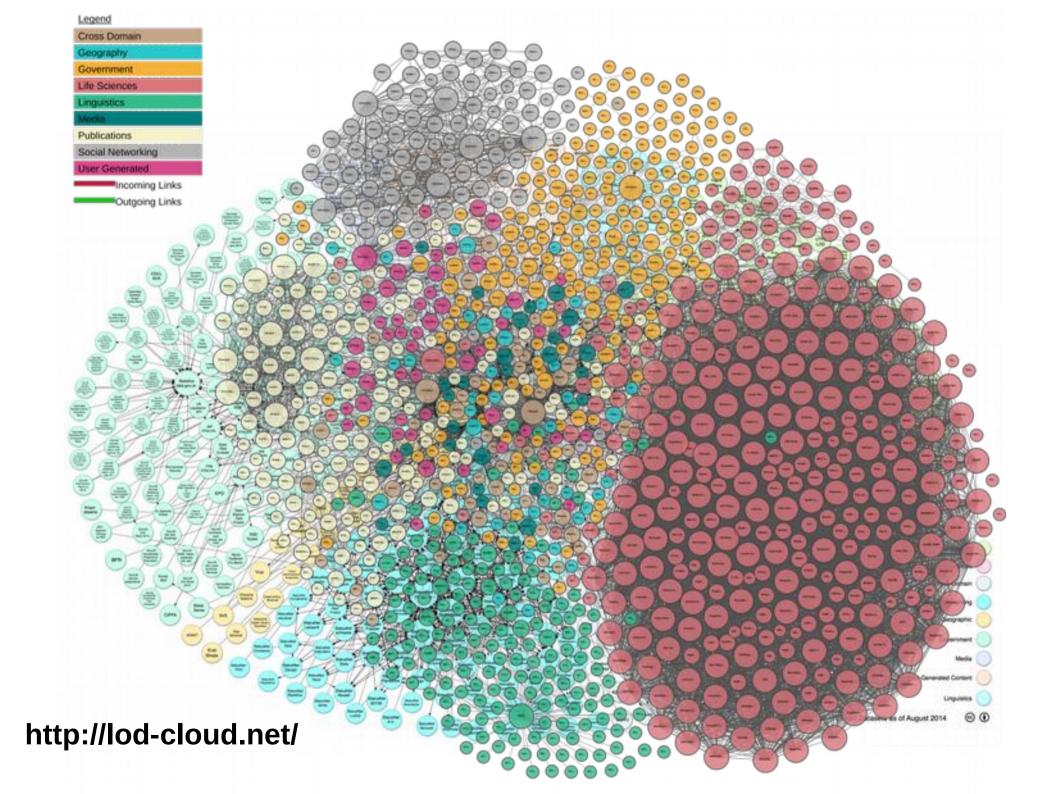
- Semantic Web activities have been baking since the late 1990s
- The infamous layer cake has evolved
- Linked Data is a more recent movement...



Linked Data

There are two words in Semantic Web

Both are important!



SW vs. LD vs. LOD vs. OD

- The World Wide Web Consortium (W3C) Semantic Web activities and standards define underlying technologies
- Data can be Open, without being Linked Linked Data
- Data can be Linked, without being Open Open Data
- Data can be both Open and Linked Linked Open Data
- Underlying technologies can support any combination which combination is a matter of policy





The fundamental building block of Linked Data is RDF

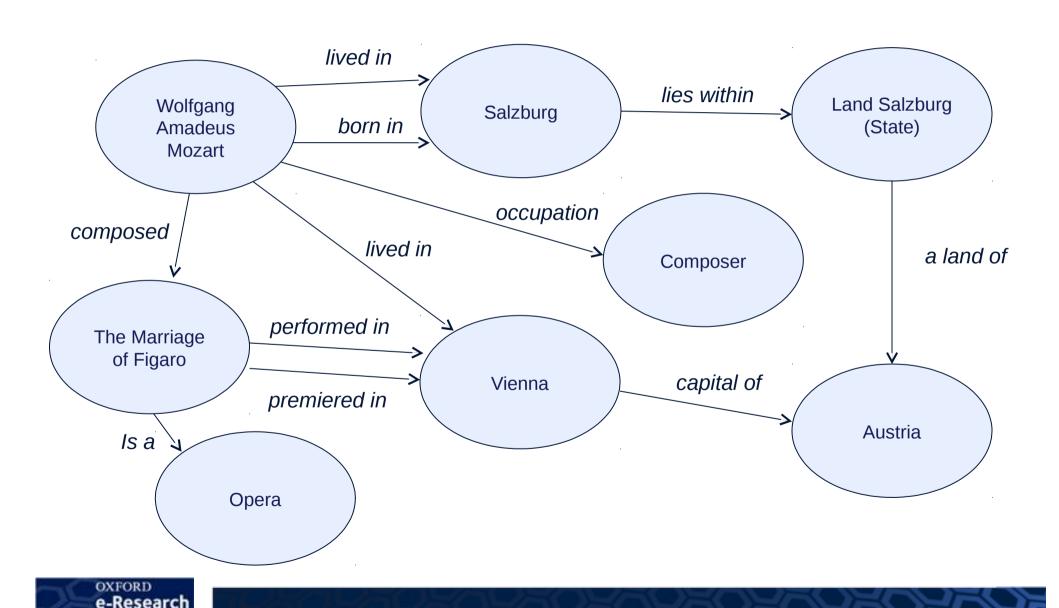


An RDF "triple"

(RDF is the Resource Description Framework)



"Triples" of information, linked and expanding to the scale of the Web



Linked Data considerations

- The previous example was *very* simplistic
 - The *combination* of many specialised fields of knowledge will form a large and complex web
- Linked Data is about making associations between information with common meaning (semantics) where that is agreed upon
 - Not (necessarily) about forcing common meanings across information
- Linked Data is a framework for scalable semantic interoperability of digital information. It does not mandate use of specific semantics, only standardises the technical medium through which to link











A research centre of the University of the Arts London with projects in historical libraries and archives.







Language of Bindings

A project to create a reference tool for bookbinding terminology from the ninth to the nineteenth century with contributors from 19 European countries. The thesaurus is based on SKOS.

Visit project website



The Clarkson Slide Archive

Dr Christopher Clarkson was a leading authority in medieval bookbinding. The aim of this project is to digitize his slides and create associated metadata for each.

· Link to crowdfunding



Artivity

Artivity is a project in partnership with <u>Semiodesk</u> which aims to produce a tool for capturing contextual data produced during the creative process of artists and designers while working on a computer.

- · Artivity.io
- JISC project page
- · Bitbucket repository



Saint Catherine's Project

The monastery of St.

Catherine in Sinai, Egypt, holds a unique library collection. Ligatus is offering conservation support through the St.

Catherine's Project.

- · Visit project website
- · Visit the Monastery's website



Archive as Event

The online archive of the artist John Latham structured using Creative Archiving principles based on Latham's ideas.

- Visit project website
- · Visit the archive

Complete list of projects

Other Ligatus projects include:

- Artivity
- · Sir John Soane Museum Book Survey
- · Bookbinding bibliography

A complete list of Ligatus projects can be found here.

Teaching

Research: Ligatus has a number of research students working on bookbinding, conservation and digital documentation. Apply here. MA: Ligatus contributes to the curricular

MA: Ligatus contributes to the curriculum at MA level (MA conservation, Camberwell College of Arts).

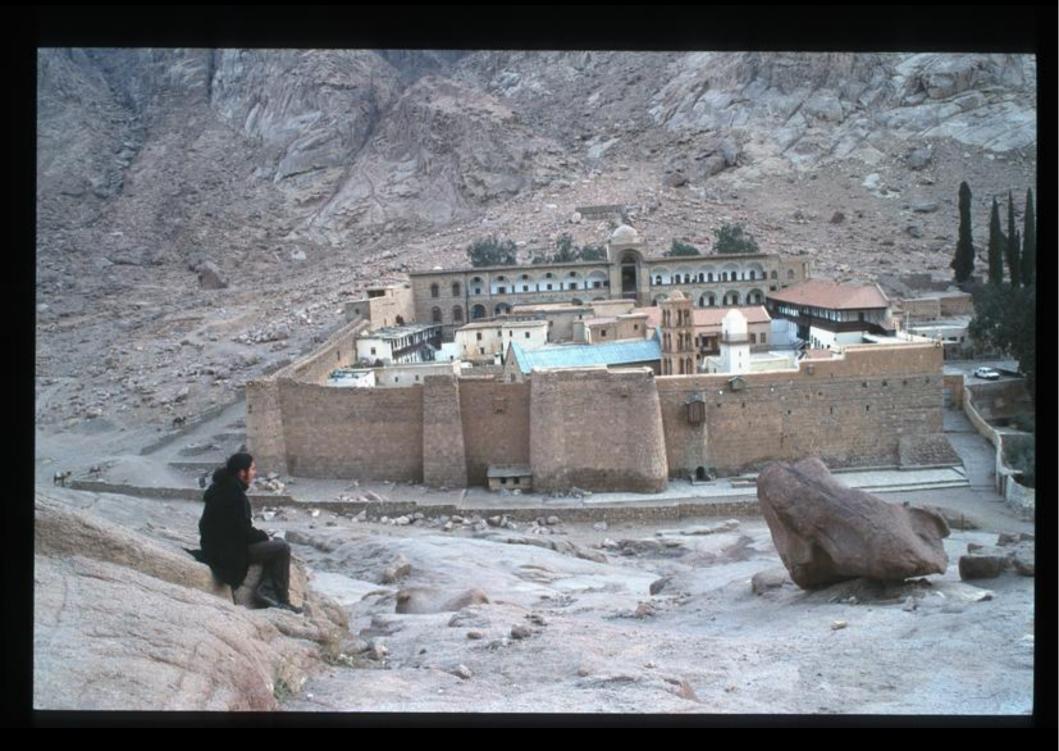
Services

Ligatus offers a range of services to museums and libraries including collection surveys, consultation on conservation treatments, digital documentation for conservation and research and development. Please <u>contact</u> us to discuss your project.

Blog

- . 15th-century German binding
- Boissonnas and Egypt Conference Invitation
 | 2 November 2017 | Royal Geographical
 Society
- . Prof. Nicholas Pickwood on BBC World News
- Fifteenth-century Germanic binding
- Blocks Plates Stones Conference | Institute of English Studies
- . Selected Images from the Clarkson Archive
- Progress report
- Crowdfunding for The Clarkson Slide

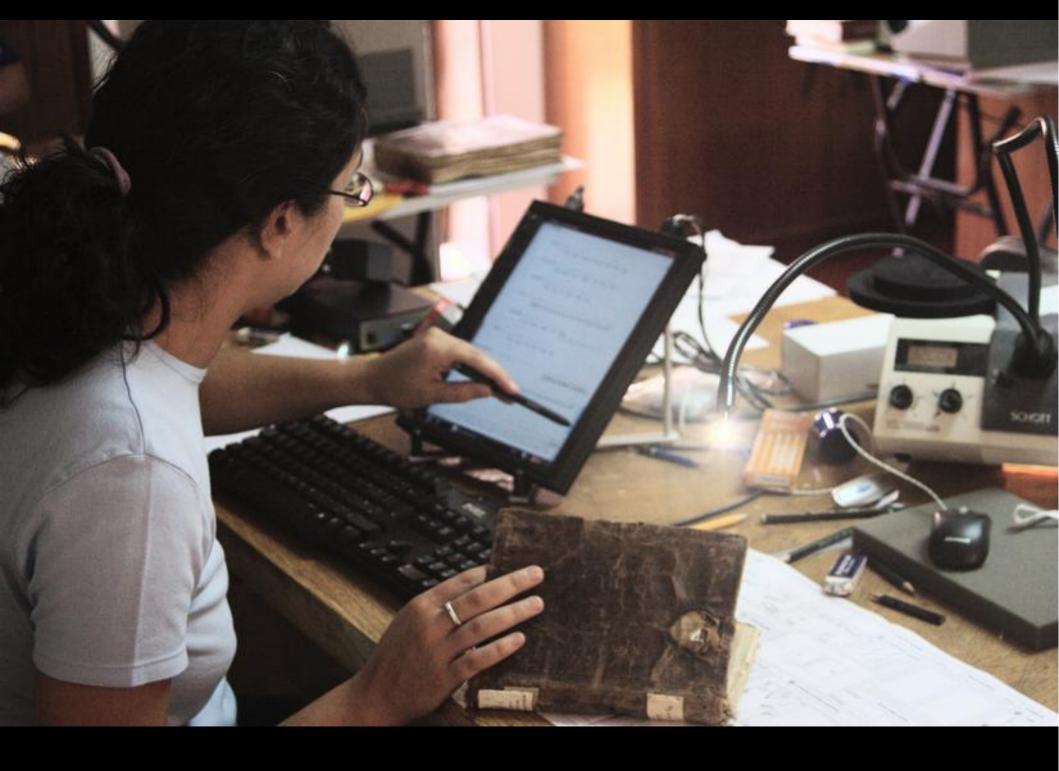




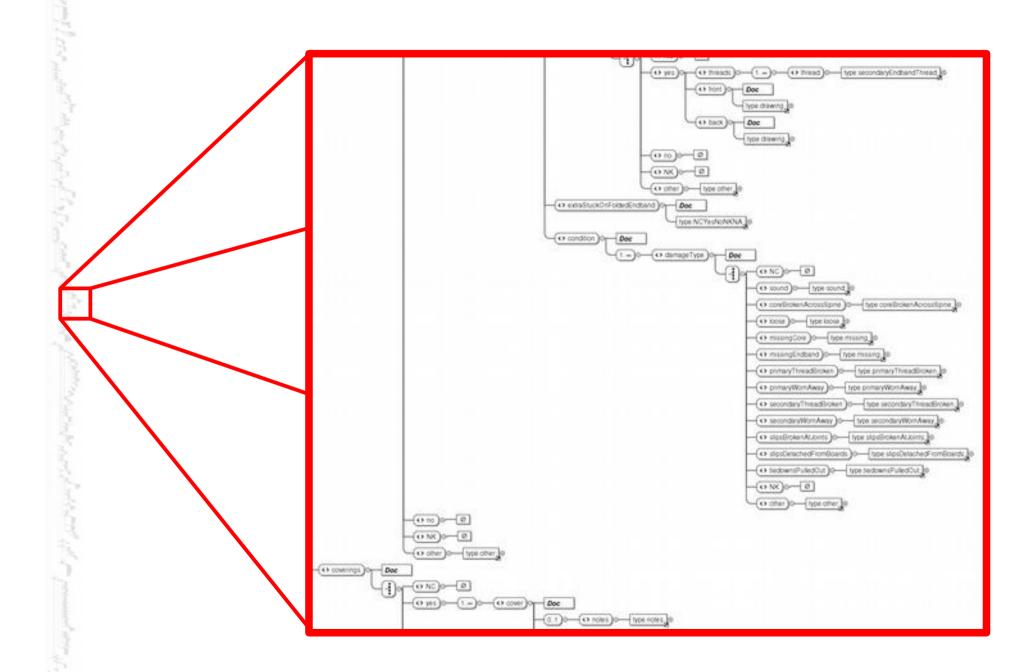








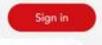
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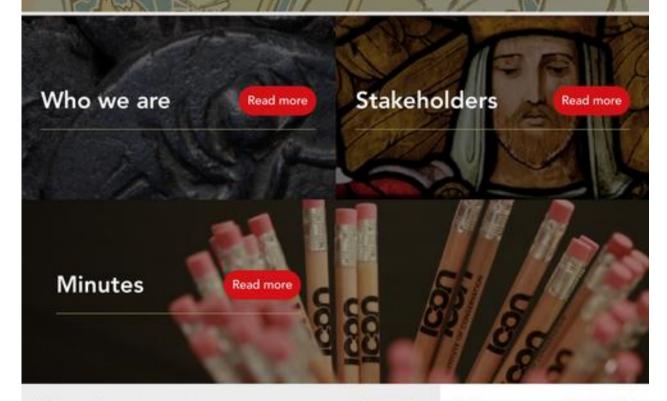
Support Icon

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Documentation Network

Icon Documentation Network is a forum for conservators to discuss how to improve and share our records about condition, treatment and research



Events



News



Antheia PowerEdge R640





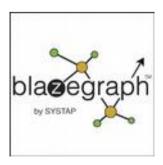
Software Thank you Graham (Klyne)



Operating system



Web server



Triple store (database server)

Meetings

- Andrew Lamb (Bate collection)
- Stephen Harris (Herbaria)
- Toby Burrows (OeRC)
- Aruna Bhaugeerutty and Chris Powell (Ashmolean)
- Daniel Bone and Alexandra Greathead (Ashmolean)
- Joshua Seufert

OXLOD AND THE BODLEIAN CHINESE CATALOGUE

Joshua Seufert

- Background of the Chinese Collection at the Bodleian
- Structure of the Bodleian Chinese Catalogue
- Other sources of data and hopes of integration via OxLOD
 - Internally
 - Externally
- Results and feedback

BODLEIAN CHINESE COLLECTION

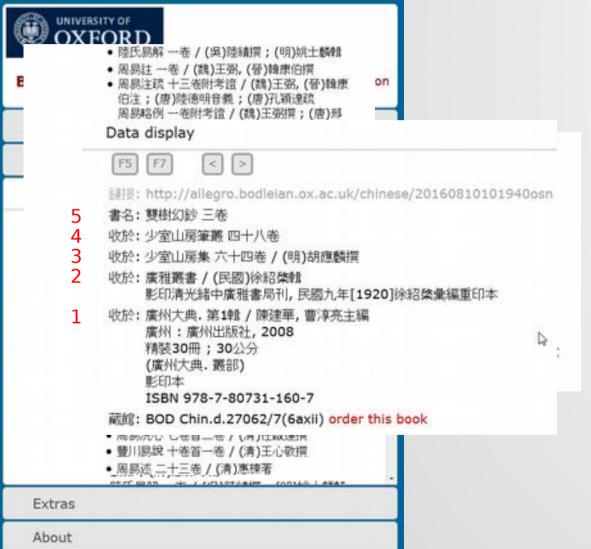
- Continuous collection of Chinese material since 1603
- Many unique surviving editions
- One of the major collections in Europe
- Collection is almost completely catalogued
- Digitization has started in 2011 and is ongoing currently 500+ editions available online

BODLEIAN CHINESE CATALOGUE SYSTEM AND NUMBERS

- NoSQL system
- allegro on Linux server
- UTF-8 encoded
- HTML5 and php online system for browser-based cataloguing
- Online end-user catalogue
- Fully adjustable catalogue structure
- Large scale databases possible
- PURLs for records

- Total no. of records: 423,155
- Bibliographical records: 193,370 of which:
 - works with analytics: 3,817
 - analytics: 93,178
- Piece records: 226,840
- Personal author authority: 2,672
- Corporate author authority: 23
- Subject authority records: 250

BODLEIAN CHINESE CATALOGUE STRUCTURE



- Unique structure of Chinese bibliographic data
- Thousands of linked records to describe one edition
- Records are linked in a tree structure
- Often five or more layers of records are needed to identify an individual item

OTHER SOURCES OF DATA IN AND OUTSIDE OF OXFORD

- Conspectus of Chinese shelfmarks (Provenance, collection history)
- Seals website (scans and transcription of collector seals)



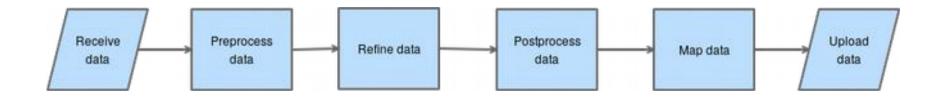
- Virtual international Authority File (VIAF)
 - used by libraries and museums
- Harvard China Biographical Database (CBDB)
 - used by researchers in the field of Chinese studies

DATA EXPORT AND MAPPING

- First export in RDF / XML using DC-terms
- Second export as logically structured text file

RESULTS AND FEEDBACK

- Logical analysis of the data structure together with Athanasios worked very well
- Linking of different Bodleian resources (Chinese catalogue, Chinese shelfmark database, Seals website)
- Linking to external data provider (VIAF)
- Identification of possible problems when linking to other Oxford collections like the Eastern Art collection of the Ashmolean
- Possible solution for such problems via linking to third party data (VIAF)
- Major improvement of data quality of the original data

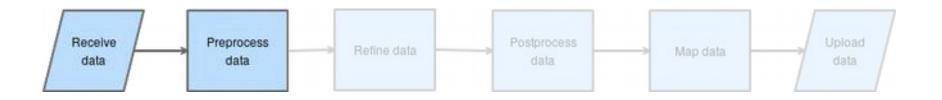


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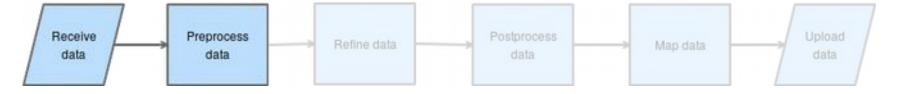
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Links on labels



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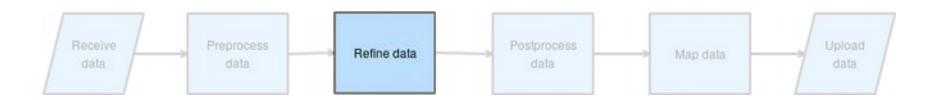


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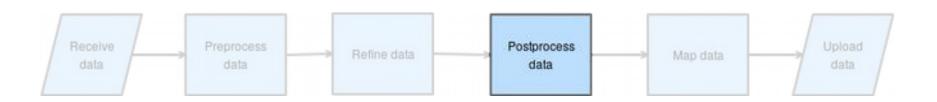
#888 19928284/18:28:83|odh #8rr 19928286/16:52:81|odh #3AA 李直方[9li zhi fang #3AR Lee, Chik Fong #888 19928218/16:57:19|odh #8rr 19940812/00:14:00 odh #3AA [[Rim]9zha liang yong #3AN 1924年生 #3AR Cha, Louis #3ARa全職|n筆名|9jin yong #3ARb林歌|n筆名|9lin huan #000 19920213/19:05:55|odh #8rr 20030103/10:48:02 osn #3AA ##ERER|9gu yu xiu #3AN 1902-2002 #3AR 顧一概|n字|9gu yi qiao #8000 19930929/11:59:48|odh #3AA Barclay, Thomas #3AN 1849-1935. M.A., D.D. Glasg, #3AR 巴克禮|9ba ke li #888 19938719/17:81:18|odh #3AA 徐皇甫[9xu li fu #3AR 徐時鷹 | n原名? | 9xu shi jin #3ARa徐學山|n字?|9xu xue shan #000 19920331/12:15:06|osn #3AA 許供成 9xu bing cheng #3AN 1930-1987 #3AR 文心|n筆名|9wen xin

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19990927/12:13:39josn		SP81 Choose new match	8721161	i shu
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20090408/15:33:29josn		5500 AX Choose new match	4752665	qiu si jia
19940422/10:04:04 osn		整秋日 Clinic new match	73861936	qu qiu bai
19980521/12:54:17 osn		白玉幣 Choose new match	40628553	bai yu shuang
19920404/10:24:48 osn		王詩碑 Choose new match	40688703	wang shi lang
19980226/10:27:10josn		王力 Choose new match	194111	wang it
19970609/11:15:21Jozy		王任权 Choose new match	100647818	wang ren shu
19950812/10:37 Jodh		李登輝 Choose new match	84366804	li deng hui
2015* 10:39:28josn		李炳阁 Choose new match	58933281	8 bing nan
3940521/08:46;46 osn		李平心 Choose new match	45693715	8 ping xin
19970321/13:44:03josn	20041015/09:50:47 osn	李王癸 Choose new match	13388022	li ren gui
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19950914/08:45:32josn	19960718/09:53:52 osn	夏条链 Choose new match	6277599	xia cheng ying
19980414/11:22:43josn		受亡虎 Choose new match	77847376	xia ren hu
19990818/14:20:11 osn		施王堰 Choose New match	265887856	tang gui zhang
19990325/13:15:46josn		英歌優 Choose new match	16102153	wu jing heng



- Remove empty fields
- Remove problematic characters
- Prepare records for mapping





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Functional Requirements for Bibliographic Records

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(Closing date: 17 November 2017)

Functional Requirements for Bibliographic Records

by IFLA Study Group on the Functional Requirements for Bibliographic Records

Series: IFLA Series on Bibliographic Control 19 Publisher: Munich: K.G. Saur Verlag, 1998

The FRBR Final Report was first published in print in 1998 by K.G. Saur as volume 19 of UBCIM publications, new series, as well as PDF and HTML files on the IFLA Web site.

Current text

Including amendments and corrections to

- PDF (1.2 MB; 142 pages) (Missing sentence re-instated at end of 3rd paragraph of 3.2.2, Feb. 2009)
- * HTML

1998 text

Functional requirements for bibliographic records: final report / IFLA Study Group on the Functional Requirements for Bibliographic Records. — München: K.G. Saur, 1998. — viii, 136 p. — (UBCIM publications; new series, vol. 19). — ISBN 978-3-598-11382-6.

- * PDF (1.7 MB)
- · HTML
- * Errata (Nov. 2007)



Web Editor for this group

Contact Agnese Galeffi



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Definition of FRBRoo: A Conceptual Model for Bibliographic Information in Object-Oriented Formalism

by Working Group on FRBR/CRM Dialogue

FRBRoo

FRBR_{OO} is an ontology or high-level conceptual model for bibliographic data.

It is described in the document:

Definition of FRBR_{OO}: a Conceptual Model for Bibliographic Information in Object-Oriented Formalism

* Version 2.4: [PDF - English - 4MB]



Commonly known as FRBR_{OO}, this model is closely related to IFLA's FRBR family of conceptual models. It is the object-oriented version of these models. FRBR_{OO} version 1 was based on FRBR alone, while FRBR_{OO} version 2 is based on the three models: FRBR, FRAD and FRSAD.

FRBR_{OO} remains true to the original models. It does not change the concepts expressed in the original three models, nor does it transform any aspect. It provides an alternative view or interpretation of the FRBR family of models. It is an object-oriented model, that is, the ontology described in FRBR_{OO} uses an object oriented formalism instead of entity-relationship modelling. Thus, FRBR_{OO} is better suited for the implementation of FRBR concepts in object oriented tools. It also makes explicit some concepts that were implicit in the original models, thus making it easier to move from conceptual model to real-life applications.

Relationship between the library and museum conceptual models

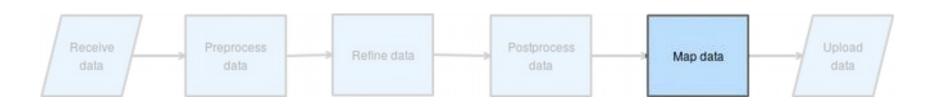
FRBR_{OO} is the result of dialogue between the conceptual modelling communities of IFLA and the International Council of Museums (ICOM). The International Committee for Documentation is the ICOM committee involved in this work; it is known as CIDOC, from the acronym of the Committee's name in French.

While the library community was developing the original FRBR entity-relationship model, the museum community was developing its own conceptual model for museum data: the CIDOC Conceptual Reference Model, or CIDOC CRM.

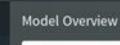
When the two models were completed, each community recognized the great value in harmonizing the two models to support future data integration and interoperability. A common view of cultural heritage information benefits both communities.

Mapping

- Bibliographic
 - F2 Expression (F24 Publication Expression + subrecords E22 Self Contained Expression)
 - F5 Item (with a shelfmark)
- Authority records
 - E41 Appellation / E21 Actor
- Old shelfmarks
 - E42 Identifiers
- Seals
 - E25 Man-Made Feature / E36 Visual Item







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    ?title rdfs:label ?titlelabel
}
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Old shelfmark	Shelfmark	Book title
Chin.600	Sinica 100	五經旁訓
Ser.d.623	Sinica 100	五經旁訓
Vet.Or.d.Chin.116	Sinica 100	五經旁訓
I.H.E.Ia22	Ps.Chin.e.1	詩篇,官話
I.H.E.I1	O.T.Chin.d.3	聖經舊遺詔創世傳 = Genesis
I.H.E.17	Ps.Chin.f.1	舊約詩篇
I.H.E.Ia19	Ps.Chin.f.2	舊約聖詩
I.H.E.Ib15	Ps.Chin.d.5	舊約詩篇
I.H.E.18	O.T.Chin.d.4	聖經舊遺詔出麥西傳 = Exodus
I.H.E.I13	O.T.Chin.d.5	聖經舊遺詔諭利未記
Chin.530d	MS.Chin.e.9	和珅奏章 ^不分卷~
S.C.29245c	MS.Chin.e.9	和珅奏章 ^不分卷^
Chin.594f	MS.Chin.e.15	闢釋氏諸妄 ^一卷^
S.C.29246r	MS.Chin.e.15	闢釋氏諸妄 ^一卷~

Old shelfmark	Shelfmark	Photograph
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Chin.c.453	Sinica 6031	<pre><http: djh="" s6031-2.jpg="" seals="" users="" www.bodley.ox.ac.uk=""></http:></pre>
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Chin.c.453	Sinica 6031	<pre><http: djh="" s6031-4.jpg="" seals="" users="" www.bodley.ox.ac.uk=""></http:></pre>
Chin.e.436	Sinica 6066	<pre><http: djh="" s6066.jpg="" seals="" users="" www.bodley.ox.ac.uk=""></http:></pre>
Chin.423	Sinica 618	<pre><http: djh="" s618.jpg="" seals="" users="" www.bodley.ox.ac.uk=""></http:></pre>
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Ser.d.262	Sinica 629	<pre><http: djh="" s629-3.jpg="" seals="" users="" www.bodley.ox.ac.uk=""></http:></pre>

TODO:

- Map wider set of fields
- Restructure data for refining and mapping
- Fix VIAF and consider Harvard integration
- Automate Seals integration (or fix HTML)

- Integration with other datasets
 - e.g. Ashmolean Chinese



Next Open Workshop

12 December 2017 - OeRC

