Web Driven Revolution
For Library Data

Richard Wallis
OCLC Technology Evangelist
@rjw
Bastille - Wikipedia, the free encyclopedia
The Bastille (French pronunciation: [bɔ̃sjɛl]) was a fortress in Paris, known formally as the Bastille Saint-Antoine. It played an important role in the internal ... Bastille - Place de la Bastille - Storming of the Bastille - Bastille (disambiguation)

Bastille | Area guide | Paris - Time Out

Bastille (Paris, France): Address, Tickets & Tours ...
www.tripadvisor.com ... » Paris » Things to Do in Paris » TripAdvisor LLC -
Rating: 3.5 - 177 reviews
Bastille, Paris: See 177 reviews, articles, and 74 photos of Bastille, ranked No.425 on TripAdvisor among 1130 attractions in Paris.

Bastille Tours, Trips & Tickets - Paris Attractions | Viator.com
www.viator.com/Paris-attractions/Bastille/d479-a589
Place de la Bastille is one of the more well-known squares in Paris and occupies an important place in French history. This is where the Bastille Prison stood.

Bastille, Paris Guide - Airbnb Neighborhoods
www.airbnb.com » Cities » Paris » Airbnb
Bastille represents Parisian romance—stylish, exotic strangers rub elbows in this dazzling, historical neighborhood. Its streetscapes cinema-worthy and its

Place de la Bastille, Paris - A View On Cities
www.aviswona.com/paris/placedelabastille.htm -
After the defeat of the French at Ptimere in 1356 during the Hundred Years' War with
The Industrial Revolution
Information Management: A Proposal

Abstract

This proposal considers the management of general information about experiments and computer systems at CERN. It describes the problems of lack of information about computer systems and various solutions based on a distributed hyper-text system.

Keywords: Hypertext, Computer conferences, Document retrieval, Information management, Project memos.
The Web of ...
The Web of ...
The Web of ...

Documents

Active Documents
The Web of ...

Documents

Active Documents

Discovery
The Web of ...

Documents

Active Documents

Discovery

Data
The Web of ...

Documents

Active Documents

Discovery

Data
The Web of ...

Documents

Active Documents

Discovery

Data
The Web of ...

Documents

Active Documents

Discovery

Data
The Web of ...

Documents

Active Documents

Discovery

Data
The Web of Data
The Web of Data

A Web of related entities
The Web of Data
The Web of Data

A Library Shaped Black Hole?
Sendak still rocks!
Where the wild things are / story and pictures by Maurice Sendak

Sendak, Maurice
[37] p. : col. ill. ; 23 x 26 cm
ISBN 0060254920
$8.95

I loved this book as a child!!!!
Caldecott Medal book - 1964
028 12 $a C10-06739/3-1 -- C10-06740/3-1 $b Melodii"a"
035  $a (Sirsi) o65198904
040  $a NGU $c NGU
041 0 $d rus $d ita
049  $a NGUU
245 00 $a Poi"u"t solisty Bol'shogo teatra Sol"u"za SSR $h [sound recording] = $b Soloists of the Bolshoi Theatre.
246 31 $a Soloists of the Bolshoi Theatre
260  $a [Moscow] : $b Melodii"a", $c [197u?]
300  $a 1 sound disc : $b analog, 33 1/3 rpm, stereo. ; $c 12 in.
500  $a Opera excerpts; sung in the original languages.
650 0 $a Operas $v Excerpts.
700 1 $a Mazurok, l'I'U'reli. $4 prf
700 1 $a Obrazt's"ova, Elena. $4 prf
700 1 $a Atlantov, Vladimir. $4 prf
700 1 $a Vedernikov, A. $4 prf
700 1 $a Milashkina, Tamara. $4 prf
700 1 $a Nesterenko, Evgenii. $4 prf
700 1 $a Arkhipova, Irina, $d 1925-2010 $4 prf
700 1 $a Pl'a'vko, V. $4 prf
700 1 $a Soktikilava, Zurab. $4 prf
700 1 $a Rudenko, B'la, $d 1933- $4 prf
700 1 $a Ognivt's"ev, Aleksandr $4 prf
700 1 $a Borisova, Galina, $d 1941- $4 prf
record
/ˈrɛkərd/
noun

a thing constituting a piece of evidence about the past, especially an account kept in writing or some other permanent form.
entity
/ˈɛntɪti/
noun
a thing with distinct and independent existence.
entity
/ˈɛntɪti/
noun
a thing with distinct and independent existence.

relationship
/riˈleɪʃ(ə)nʃɪp/
noun
the way in which two or more people or things are connected
Record

Title: "War and Peace"
Author: "Leo Tolstoy 1828-1910"
ISBN: 0307266931
Record

Title: "War and Peace"
Author: "Leo Tolstoy 1828-1910"
ISBN: 0307266931

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Type: Work
Name: "War and Peace"
Author: http://worldcat.org/entity/person/id/1234
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Title: "War and Peace"
Author: "Leo Tolstoy 1828-1910"
ISBN: 0307266931

Entity (http://worldcat.org/entity/work/id/115206288)
Type: Work
Name: "War and Peace"
Author: http://worldcat.org/entity/person/id/1234

Entity (http://worldcat.org/entity/person/id/1234)
Type: Person
Name: "Leo Tolstoy"
Born: 1828
Died: 1910
Birthplace: http://worldcat.org/entity/place/id/8976
Record

Title: "War and Peace"
Author: "Leo Tolstoy 1828-1910"
ISBN: 0307266931

Entity (http://worldcat.org/entity/work/id/115206288)
Type: Work
Name: "War and Peace"
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Type: Person
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Born: 1828
Died: 1910
Birthplace: http://worldcat.org/entity/place/id/8976

Entity (http://worldcat.org/entity/place/id/8976)
Type: Place
Name: "Yasnaya Polyana"
SameAs: http://geonames.org/468686
War and Peace - Wikipedia, the free encyclopedia
War and Peace (Pro-reform Russian: Война и миръ, Voyna i mir) is a novel by the Russian author Leo Tolstoy, first published in 1869. The work is epic in scale ... War and Peace (1956 film) - Pierre Bezukhov - War and Peace (disambiguation)

Amazon.com: War and Peace (Vintage Classics ... www.amazon.com › ... › World Literature › Russian - Amazon.com, Inc. - ★★★★★ Rating: 4.4 - 235 reviews
War and Peace broadly focuses on Napoleon's invasion of Russia in 1812 and follows three of the most well-known characters in literature: Pierre Bezukhov, the ... 

BBC Radio 4 - War and Peace
www.bbc.co.uk › ... › Classic & Period - British Broadcasting Corporation - Dramatisation by Timberlake Wertenbaker of Leo Tolstoy's epic, which follows the fortunes of three Russian aristocratic families during the Napoleonic War.

War and Peace (1956) - IMDb
War and Peace - Green Mansions - The Unforgiven - The Nun's Story - Paris When It Sizzles - Love in the Afternoon - War and Peace - Funny Face - Sabrina.

War and Peace - The Literature Network
www.online-literature.com › Leo Tolstoy - War and Peace by Leo Tolstoy. Searchable text. Discuss with other readers.

SparkNotes: War and Peace
www.sparknotes.com › SparkNotes › Literature Study Guides - SparkNotes - From a general summary to chapter summaries to explanations of famous quotes, the SparkNotes War and Peace Study Guide has everything you need to ace

the War and Peace Revival
www.thewarandpeacerevival.co.uk/ - War and Peace (1956 Film)

See results about
War and Peace (1956 Film)
LINKED DATA SERVICE OF THE GERMAN NATIONAL LIBRARY

Short-URL: http://www.dnb.de/EN/idv

The German National Library is building a linked data service that in the long run will permit the semantic web community to use the entire stock of national bibliographic data, including all authority data. It is endeavouring to make a contribution to the global information infrastructure with this new data service and thus laying the foundations for modern commercial and non-commercial web services.

The German National Library is committed to making a significant contribution to ensuring the stability and reliability of the "linked data cloud" by providing data of high quality, most of which has been intellectually generated. The German National Library has been supplying its data in the RDF standard via the Linked Data Service since 2010. By offering RDF as an equal status export format, it allows users and user groups to re-use its data in a way which requires no knowledge of bibliographic formats.

The service is subject to ongoing further development and optimisation at the technical, content and organisational levels. Besides developing its own service, the German National Library is also actively involved in the Bibliographic Framework Transition Initiative.

The Creative Commons Zero (CC0) usage licence applies for the Integrated Authority (GND) and the bibliographic data of the Linked Data Service.

Since the end of January 2014, some geographic authority data contains unchanged coordinates from the GeoNames database.

Metafacture is used to convert the data to RDF. Metafacture was developed by culturegraph.org is used to convert the data to RDF.

Test data in RDF/XML representation are available, free of charge, under the "Aktionen" menu item in the full view of the Catalogue of the German National Library or in the Data Shop.

Linked Data Service frequently asked questions (FAQ)

Documentation

- Note regarding access (PDF, 103KB, Not barrier-free file.)
- Version history (PDF, 107KB, Not barrier-free file.)
- Modelling of bibliographic data (PDF, 70KB, Not barrier-free file.)
RDF Linked data cataloguing at Oslo Public Library

This post was originally published as an article in SCATNews no. 43, the Newsletter of the Standing Committee of the IFLA Cataloguing Section.

The new public library in Oslo will be a digital discovery center where the presentation of the physical collection will merge with digital content and user-generated content. This calls for new ways of describing both physical and digital content, and for new ways of working with cataloguing in the library. To get there, the library has decided to drop their integrated library system and to drop MARC as cataloguing format, instead we will use RDF linked data as the primary cataloguing format, starting already in 2015.

For more than 25 years the present proprietary integrated library system has been the main tool for library staff as well as the core for most end-user services at Oslo Public Library. All software development is in the hands of system vendors, and the vendors also control the data within the system. 2015 marks the end of this era, as the library will switch to the open source library system Koha. But instead of just switching from one integrated library system to another, the idea is to use Koha as one of several modules in an extended system. Koha will handle core functionality like circulation and patron database, but search and browsing for end-users as well as the cataloguing module for library staff will be FRBR oriented and based on RDF linked data.

The staff at Oslo Public Library has worked with catalogue data as linked data since 2010. The first experiments were about identifying works and expressions represented in the library catalogue and using the FRBR model to link the manifestations in the library collection to those works and expressions. Later
Many great LD Projects

So today .....
Where are we on the web?
The Story of My Experiments With Truth by Mahatma Gandhi...

www.goodreads.com Biography Autobiography Goodreads
4.1 - 21,569 votes
Mahatma Gandhi is one of the most inspiring figures of our time. In his classic autobiography, he tells the story of his life and how he discovered the power of love as a weapon against oppression. You've visited this page 2 times. Last visit: 12/7/14

The Story of My Experiments With Truth Quotes - Goodreads
https://www.goodreads.com/.../1744912-an-autobiography-th...
Goodreads
“First they ignore you, then they laugh at you, then they fight you, and then you win.” — Mahatma Gandhi, Autobiography: The Story of My Experiments with Truth

[PDF] the story of my experiments with truth - Hisham Nasr
by MK Gandhi - Cited by 32 - Related articles
The first edition of Dandi's Autobiography was published in two volumes, Vol. 1...
Uttamchand Gandhi, alias Ota Gandhi, my grandfather, must have been a...

An Autobiography or The Story of my Experiments with Truth ...
wikilibres.ca/.../An_Autobiography_or_The_Story_of_my_Experiments...
Jul 28, 2014 - written by Mohandas K. Gandhi, translated by Mahadev Desai...
The first edition of Gandhi's Autobiography was published in two volumes, ...

Searches related to gandhi an autobiography
- gandhi an autobiography pdf
gandhi an autobiography review
gandhi an autobiography summary
gandhi an autobiography download
mahatma gandhi
The Story of My Experiments With Truth
by Mahatma Gandhi

Mohandas K. Gandhi is one of the most inspiring figures of our time. In his classic autobiography he recounts the story of his life and how he developed his concept of active nonviolent resistance, which propelled the Indian struggle for independence and countless other nonviolent struggles of the twentieth century.

In a new foreword, noted peace expert and teacher Sissela ...more

Paperback, 560 pages
Published November 1st 1993 by Beacon Press (first published 1925)

Get a copy: Amazon IN online stores Libraries
The Story of My Experiments With Truth
by Mahatma Gandhi

Mohandas K. Gandhi is one of the most inspiring figures of our time. In his classic autobiography he recounts the story of his life and how he developed his concept of active nonviolent resistance, which propelled the Indian struggle for independence and countless other nonviolent struggles of the twentieth century.

In a new foreword, noted peace expert and teacher Sissela ...

Paperback, 560 pages
Published November 1st 1993 by Beacon Press (first published 1925)

Get a copy: Amazon IN online store Libraries
An autobiography: the story of my experiments with truth

Author: Gandhi, Mahatma; Mahadev H Desai


Edition/Format: Book; Biography; English

Database: WorldCat

Summary: Portrays the life of Gandhi, describes the development of his nonviolent political protest movement, and discusses his religious beliefs.

Rating: * * * * * (not yet rated) 0 with reviews - Be the first.

Subjects: Gandhi -- Mahatma. -- 1869-1948.
Statesmen -- India -- Biography.
Gandhi -- Mahatma. -- 1869-1948.

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Enter your location: bonn  Find libraries  or select a location: 53111 Bonn-53111, DE.

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Show libraries holding just this edition, or narrow results by format.
An autobiography : the story of my experiments with truth

Author: Gandhi, Mahatma; Mahadev H Desai
Edition/Format: Book : Biography : English

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Statesmen -- India -- Biography.

More like this: User lists Similar items

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1. Stadsbibliotheek Maastricht
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   Maastricht, 6221 KV Netherlands
   Held formats: Book
   Distance: 62 miles

2. Universitätsbibliothek Marburg
   UB Marburg, Philipps-Universität Marburg
   Marburg, D-35008 Germany
   Held formats: Book
   Distance: 73 miles

3. Universitätsbibliothek Johann Christian Senckenberg
An autobiography: the story of my experiments with truth

Author: Gandhi, Mahatma; Mahadev H Desai
Edition/Format: Book: Biography: English
Database: WorldCat
Summary: Portrays the life of Gandhi, describes the development of his nonviolent political protest movement, and discusses his religious beliefs.
Rating: ★★★★★ (not yet rated) ▲0 with reviews - Be the first.
More like this: ▲ User lists ▲ Similar items

Find a copy in the library

Enter your location: bonn Find libraries or select a location: 53111 Bonn-53111, DE
Displaying libraries 1-6 out of 2471 for all 252 editions

1. Stadsbibliotheek Maastricht
   Centre Ceramique
   Maastricht, 6201 KH Netherlands

2. Universitätsbibliothek Marburg
   UB Marburg, Philipps-Universität Marburg
   Marburg, D-35008 Germany
Titel: An autobiography or the story of my experiments with truth / by M. K. Gandhi. Transl. from the original Gujarati by Mahadev Desai
Verfasser: Gandhi, Mohandas Karamchand
Beteiligt: Desai, Mahadev Haribhai [Übers.]
Umfang: XVI, 392 S.
Einheitssachtitel: Satyana Prayogo athava Atmakatha <engl.>

Standort: Zentralbibliothek (000)
Signatur: Hf 61/35
Buchnummer: 20481595
Ausleihsinfo: ausleihbar
Ausleihstatus: verfügbär
Invisible on the web!
irrelevant

/ɪˈrɛlv(ə)nt/  🎧

adjective

not connected with or relevant to something.

"an irrelevant comment"

synonyms: beside the point, not to the point, immaterial, not pertinent, not germane, off the subject, neither here nor there, unconnected, unrelated, peripheral, tangential, extraneous, inapposite, inapt, inapplicable; More
Library Linked Data

VIAF
Virtual International Authority File

British Library

German National Library

Spanish National Library

Swedish National Library
Open Linked Data - Silos
Open Linked Data - Silos
Open Linked Data - Silos
Behind A Vocabulary Barrier
A general purpose vocabulary for describing things on the web
A general purpose vocabulary for describing things on the web

"Used by 5 million domains"
A general purpose vocabulary for describing things on the web

"Used by 5 million domains"

"25% of pages in our indexes"
A general purpose vocabulary for describing things on the web

"Used by 5 million domains"

"15% of the Web"

"25% of pages in our indexes"
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"Used by 5 million domains"

"25% of pages in our indexes"

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A general purpose vocabulary for describing things on the web

- Linked Data

"15% of the Web"

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"25% of pages in our indexes"
A general purpose vocabulary for describing things on the web

- Linked Data
- Embedded in HTML

"Used by 5 million domains"

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"15% of the Web"
A general purpose vocabulary for describing things on the web

- Linked Data
- Embedded in HTML
- RDFa, Microdata, JSON-LD

“Used by 5 million domains”

“15% of the Web”

“25% of pages in our indexes”
A general purpose vocabulary for describing things on the web

- Linked Data
- Embedded in HTML
- RDFa, Microdata, JSON-LD
- Descriptive data

"Used by 5 million domains"
"25% of pages in our indexes"
"15% of the Web"
A general purpose vocabulary for describing things on the web

- Linked Data
- Embedded in HTML
- RDFa, Microdata, JSON-LD
- Descriptive data
- Active links

"15% of the Web"

"25% of pages in our indexes"

"Used by 5 million domains"
• Foundation for the future of **bibliographic** description
• Foundation for the future of **bibliographic** description
• Eventual replacement for Marc 21
• Foundation for the future of **bibliographic** description
• Eventual replacement for Marc 21
• Identify *information* entities
• Foundation for the future of **bibliographic** description
• Eventual replacement for Marc 21
• Identify *information* entities
• Conversion from Marc
• Foundation for the future of **bibliographic** description
• Eventual replacement for Marc 21
• Identify *information* entities
• Conversion from Marc
• Publish in RDF – Linked Data
• Foundation for the future of bibliographic description
• Eventual replacement for Marc 21
• Identify information entities
• Conversion from Marc
• Publish in RDF – Linked Data
• White Paper

Common Ground: Exploring Compatibilities between the Linked Data Models of the Library of Congress and OCLC

http://oc.lc/CommonGround
Why Catalog?
Why Catalog?
So we can find things
Why Catalog?

So we can find things

Why Share on the Web?
Why Catalog?
So we can find things

Why Share on the Web?
So today’s users can find our things
Where are our users?
Where are our users?
Entities: Getting from here to there
Data from one converted record does not make an entity.
Entities: Getting from here to there

Data from one converted record does not an entity make

Transformation into Linked Data is just a beginning ...

• Mine and analyse an aggregate
Data from one converted record does not make an entity.

Transformation into Linked Data is just a beginning...

- Mine and analyse an aggregate
- Identify, map, merge - evidence based
Entities: Getting from here to there

Data from one converted record does not an entity make

Transformation into Linked Data is just a beginning ...

- Mine and analyse an aggregate
- Identify, map, merge - evidence based
- Relate to external sources
Data from one converted record does not an entity make

Transformation into Linked Data is just a beginning …

• Mine and analyse an aggregate
• Identify, map, merge - evidence based
• Relate to external sources
• Establish the entities
Gandhi, an autobiography: the story of my experiments with truth
Gandhi, an autobiography : the story of my experiments with truth /
*Gandhi, an autobiography: the story of my experiments with truth /*@en

*Autobiography*

*Story of my experiments with truth.*@en

*Gandhi: the story of my experiments with truth /*

*Gandhi an autobiography: the story of my experiments with truth /*@en

*Gandhi, an autobiography; the story of my experiments with truth. Translated from the original in Gujarati by Mahadev Desai. /*@en

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Gandhi: an autobiography: the story of my experiments with truth

Author: Gandhi, Mahatma; Mahadev H Desai
Publisher: [S.l. : CreateSpace?, 2011.]
Database: WorldCat
Summary: The Story of My Experiments with Truth is the autobiography of Mohandas Karamchand Gandhi, covering his life from early childhood through to 1920. It was initiated at the insistence of Swami Anand and other close co-workers of Gandhi to explain the background of his public campaigns for justice
Rating: (not yet rated)
Subjects: Gandhi, Mahatma, 1869-1948.
Statesmen--India--Biography.

Find a copy in the library
Enter your location: singapore

Displaying libraries 1-1 out of 1 for all 9 editions
Library
Intercultural Theatre Institute
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The Name of the Rose

Summary:

The year is 1327. Franciscans in a wealthy Italian abbey are suspected of heresy, and Brother William of Baskerville arrives to investigate. His delicate mission is suddenly overshadowed by seven bizarre deaths that take place in seven days and nights of apocalyptic terror.

Borrowing Options

- eBooks
- Printed Books
- Audio Books

Other Languages

- Monastic libraries - Italy – Fiction
- Semiotics - Fiction
A Web of Data
A Web of Data
The solution starts here.

The library knowledge graph

A graph of relationships
The library knowledge graph
A graph of relationships

The solution starts here.
The solution starts here.

The library knowledge graph
A graph of relationships
The solution starts here.

The library knowledge graph

A graph of relationships
The library knowledge graph
A graph of relationships
What will be better?
What will be better?

The library knowledge graph

Lots of things....if we do it right.
Entities and library workflows

Cataloging will be different...

- Managing the quality of Works
  - Improving clusters
- Managing the quality of Persons
  - Links to works, Other IDs
So what progress have we made?
The Work Entity

- 197+ million Work descriptions and URIs
- Schema.org + BiblioGraph.net
- RDF Data formats
  - RDF/XML, Turtle, Triples, JSON-LD
- Links to WorldCat manifestations
- Links to Dewey, LCSH, LCNAF, VIAF, FAST
- Open Data license via Linked Data Explorer
  - 2015: Discovery API, Metadata API
- Released April 2014
The Person Entity

- **98+ million Person descriptions and URIs**
  - Person entities with authority: 20.2 million
  - Person entities without authority: 78.3 million

- Schema.org + BiblioGraph.net

- Harvested from WorldCat data and enriched from other hubs RDF
  Data formats
  - RDF/XML, Turtle, Triples, JSON-LD

- Links to WorldCat Works. Added links from WC Works.

- Open Data license via Linked Data Explorer
  - 2015: Linked Data Explorer, Discovery API
Success
Success

Can we measure impact?
OCLC Entity Based Data Strategy

- ✓ VIAF, ISNI, FAST Publish Linked Data
- ✓ WorldCat.org Linked Data Release – using Schema.org
- ✓ Data mining of WorldCat resources
- ✓ WorldCat Works Released – using Schema.org
- ✓ Schema.org added to VIAF RDF
- ✓ WorldCat Discovery API Returns Schema.org RDF (Beta)
OCLC Entity Based Data Strategy

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➢ Application Integration
  ➢ WorldCat Discovery
  ➢ Analytics
  ➢ Discovery API
  ➢ Cataloging
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➢ Application Integration
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➢ More Entities Released
  ➢ Person
  ➢ Organization
  ➢ Event
  ➢ Concept
OCLC Entity Based Data Strategy

2010
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➢ Application Integration
  ➢ WorldCat Discovery
  ➢ Analytics
  ➢ Discovery API
  ➢ Cataloging

2012
➢ New Products
➢ Continuing Evangelism

2013

2014

2015
➢ More Entities Released
  ➢ Person
  ➢ Organization
  ➢ Event
  ➢ Concept

2016
➢ New Services
➢ Continuing Innovation
Many great Library Linked Data Initiatives
Many great Library Linked Data Initiatives
Many great Library Linked Data Initiatives

If users can't discover our resources
Many great Library Linked Data Initiatives

If users can't discover our resources, what is the point?
Many great Library Linked Data Initiatives

If users can't discover our resources, what is the point?

Give the Web what it wants!
Linked Data has benefits for library workflows....

....by giving the Web what it wants

We Can Lead The Web Driven Revolution For Library Data
We Can Lead The Web Driven Revolution For Library Data
Web Driven Revolution
For Library Data

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Web Driven Revolution For Library Data

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http://slideshare.net/rjw

Washington, DC 28th April 2015