

SWIB14
Semantic Web in Libraries

Entification: The Route to *Useful* Library Data

Richard Wallis
Technology Evangelist
@rjw



SWIB14

Semantic Web in Libraries

1 - 3 December 2014

Bonn, Germany

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SWIB14 - Semantic Web in Libraries Conference

Linked Open Data (LOD) has become a widespread method for the publication and management of data on the web. Many libraries and related institutions have already run projects or launched products that comply with the LOD paradigm. New projects, services and tools are emerging continuously.

The SWIB conference aims to provide substantial information on LOD developments relevant to the library world and to foster the exchange of ideas and experiences among practitioners. SWIB encourages thinking outside the box by involving participants and speakers from other domains, such as scholarly communications, museums and archives, or related industries.

As in the years before, SWIB14 will be organized by the North Rhine-Westphalian Library Service Centre (hbz) and the ZBW - German National Library of Economics / Leibniz Information Centre for Economics. The conference language is English.

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Programm Tag 1 24. November 2009

- 09:30 - 09:45 **Begrüßung**
Hans Ollig (hbz) / Ekkehart Seusing (ZBW)
- 09:45 - 10:30 **Einführung in das Semantic Web**
Jakob Voß, Verbundzentrale des GBV, Göttingen
Abstract
Vortrag (pdf)
Vortrag (wmv)
- 10:30 - 11:15 **Warum sollten sich kulturelle Einrichtungen mit dem Semantic Web beschäftigen?**
Stefan Gradmann, Humboldt Universität zu Berlin
Abstract
Vortrag (pdf)
Vortrag (wmv)
- 11:15 - 11:45 **Kaffeepause**
- 11:45 - 12:30 **Linked Data im Kontext Digitaler Bibliothekssysteme**
Bernhard Haslhofer, Universität Wien
Abstract
Vortrag (pdf)
Vortrag (wmv)
- 12:30 - 13:30 **Renewing Libraries with Linked Data**
Ed Summers, Library of Congress
Abstract
Vortrag (pdf)
Vortrag (wmv)
- 13:30 - 14:30 **Mittagspause**
- 14:30 - 15:15 **LIBRIS - Linked Open Library Data**
Anders Söderbäck, Königliche Bibliothek (Schwedische Nationalbibliothek), Stockholm
Abstract
Vortrag (pdf)
Vortrag (wmv)
- 15:15 - 15:30 **Die Nationalbibliografie als Linked Data – Motivation, Geschäftsmodell, Planung**
Jürgen Kett, Deutsche Nationalbibliothek, Frankfurt a.M.
Abstract
Vortrag (pdf)
Vortrag (wmv)
- 15:30 - 16:15 **Einbindung von Linked Data in existierende Bibliotheksanwendungen**
Joachim Neubert / Timo Borst, ZBW
Abstract
Vortrag (pdf)
- 16:15 - 16:45 **Kaffeepause**
- 16:45 - 17:30 **DBPedia - Extracting structured data from Wikipedia**
Anja Jentzsch, Freie Universität Berlin
Vortrag (pdf)
Vortrag (wmv)

Änderungen vorbehalten.



Translate

From: German To: English

View: Translation Original

Day 1 November 24, 2009

- 09:30 to 09:45 **Begrüßung**
Hans Ollig (HBZ) / Ekkehart Seusing (ZBW)
- 09:45 to 10:30 **Introduction to the Semantic Web**
Jakob Voss, Office of the GBV, Göttingen
Abstract
Presentation (pdf)
Lecture (wmv)
- 10:30 to 11:15 **Why cultural institutions should deal with the Semantic Web?**
Stefan degree man, Humboldt University, Berlin
Abstract
Presentation (pdf)
Lecture (wmv)
- 11:15 to 11:45 **Coffee break**
- 11:45 to 12:30 **Linked Data in the context of Digital Library Systems**
Bernhard Haslhofer, University of Vienna
Abstract
Presentation (pdf)
Lecture (wmv)
- 12:30 to 13:30 **Renewing libraries with Linked Data**
Ed Summers, Library of Congress
Abstract
Presentation (pdf)
Lecture (wmv)
- 13:30 to 14:30 **Lunchtime**
- 14:30 to 15:15 **LIBRIS - Linked Open Data Library**
Unlike Söderbäck, Königliche Library (National Library of Sweden), Stockholm
Abstract
Presentation (pdf)
Lecture (wmv)
- 15:15 to 15:30 **The National Bibliography as Linked Data - motivation, business model planning**
Jürgen Kett, German National Library, Frankfurt aM
Abstract
Presentation (pdf)
Lecture (wmv)
- 15:30 to 16:15 **Integration of Linked Data in existing library applications**
Joachim Neubert / Timo Borst, ZBW
Abstract
Presentation (pdf)
- 16:15 to 16:45 **Coffee break**
- 16:45 to 17:30 **DBPedia - Extracting structured data from Wikipedia**
Anja Jentzsch, Free University of Berlin
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LINKED DATA SERVICE OF THE GERMAN NATIONAL LIBRARY

Short-URL: <http://www.dnb.de/EN/lds>

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 \(PDF, 109KB, Not barrier-free file.\)](#)

[≡ Modelling of bibliographic data \(RDF, 205KB, Not barrier-free file.\)](#)

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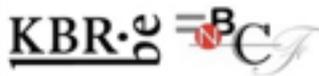
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"First they ignore you, then they laugh at you, then they fight you, and then you win." —

Mahatma Gandhi, *Autobiography: The Story of My Experiments with Truth*.

[PDF] the story of my experiments with truth - Hisham Nasr

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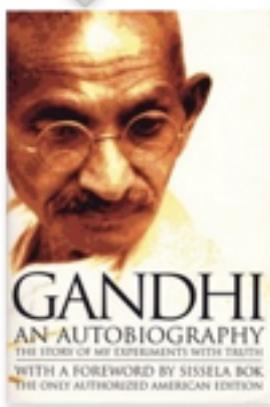
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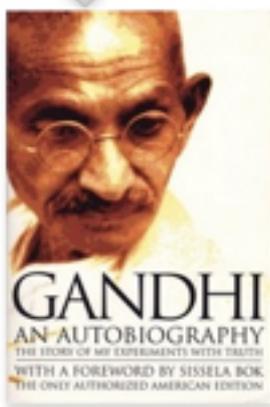
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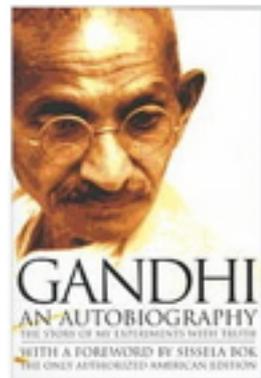
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Publisher: Boston : Beacon Press, ©1993.
Edition/Format: Book : Biography : English
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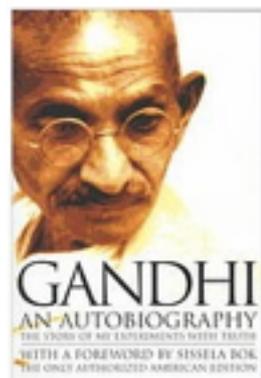
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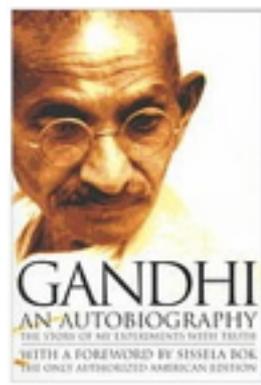
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Verfasser: [Gandhi, Mohandas Karamchand](#)

Beteiligt: [Desai, Mahadev Haribhai \[Übers.\]](#)

Ausgabe: 2. ed., reprinted.

Erschienen: Ahmedabad : Navajivan Publ. House, 1959

Umfang: XVI, 392 S.

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adjective

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"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](#)

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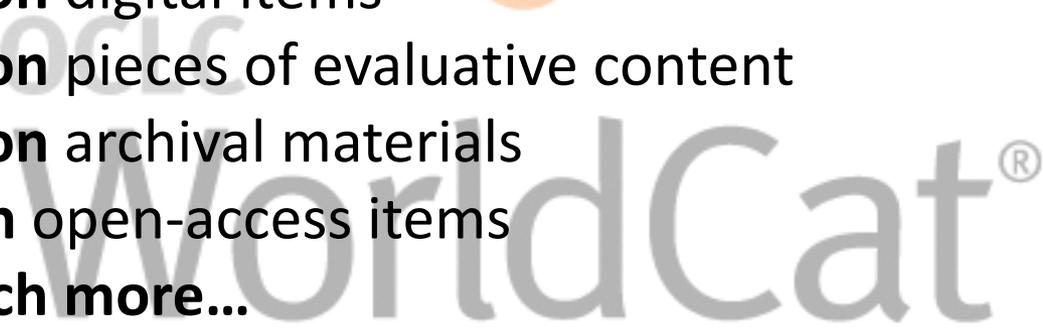
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Atlantov, tenor) -- The mermaid. Eugene Onegin. Onegin's aria / P. Tchaikovsky
enchantress. Kuma's aria / P. Tchaikovsky (Tamara Mlshchik
M. Glinka (Yevgeni Nesterenko, bass) --
505 8 \$a Side two: The maid of Orleans. Joanne's aria / P. Tchaiko
of Cavaradossi / G. Puccini (Zurab Sotkilava, tenor) -- Socko
Rudenko, soprano) -- Demon. Demon's romance / A. Rubin
Tchaikovsky (Yuri Gulyaev, baritone) --
650 0 \$a Operas \$v Excerpts.
700 1 \$a Mazurok, I'U'nii, \$4 prf
700 1 \$a Atlantov, Elena, \$4 prf
700 1 \$a Vedernikov, Vladimir, \$4 prf
700 1 \$a Melodii "a", \$4 prf



Structured Data Objectives



Structured Data Objectives

- Linking with hubs of authority on the web



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 - viaf.org – persons





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fairly obvious

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Phase 1



Introducing
Linked Data



Phase 1

- First mine the data

Introducing
Linked Data



Introducing Linked Data

Phase 1

- First mine the data
 - Records held in Marc
- Identify the entities



Introducing Linked Data

Phase 1

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 - Person, Organization, CreativeWork, etc.

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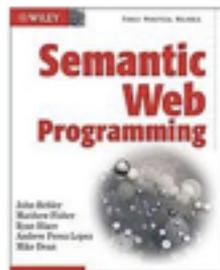
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Author: [John Hebel](#); et al

Publisher: Indianapolis, IN : Wiley, 2009.

Edition/Format: eBook : Document : English [View all editions and formats](#)

Database: WorldCat

Summary: The next major advance in the Web 3.0 will be built on semantic Web technologies, which will allow data to be shared and reused across application, enterprise, and community boundaries. Written by a team of highly experienced Web developers, this book explains examines how this powerful new technology can unify and fully leverage the ever-growing data, information, and services that are available on the Internet. [Read more...](#)

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

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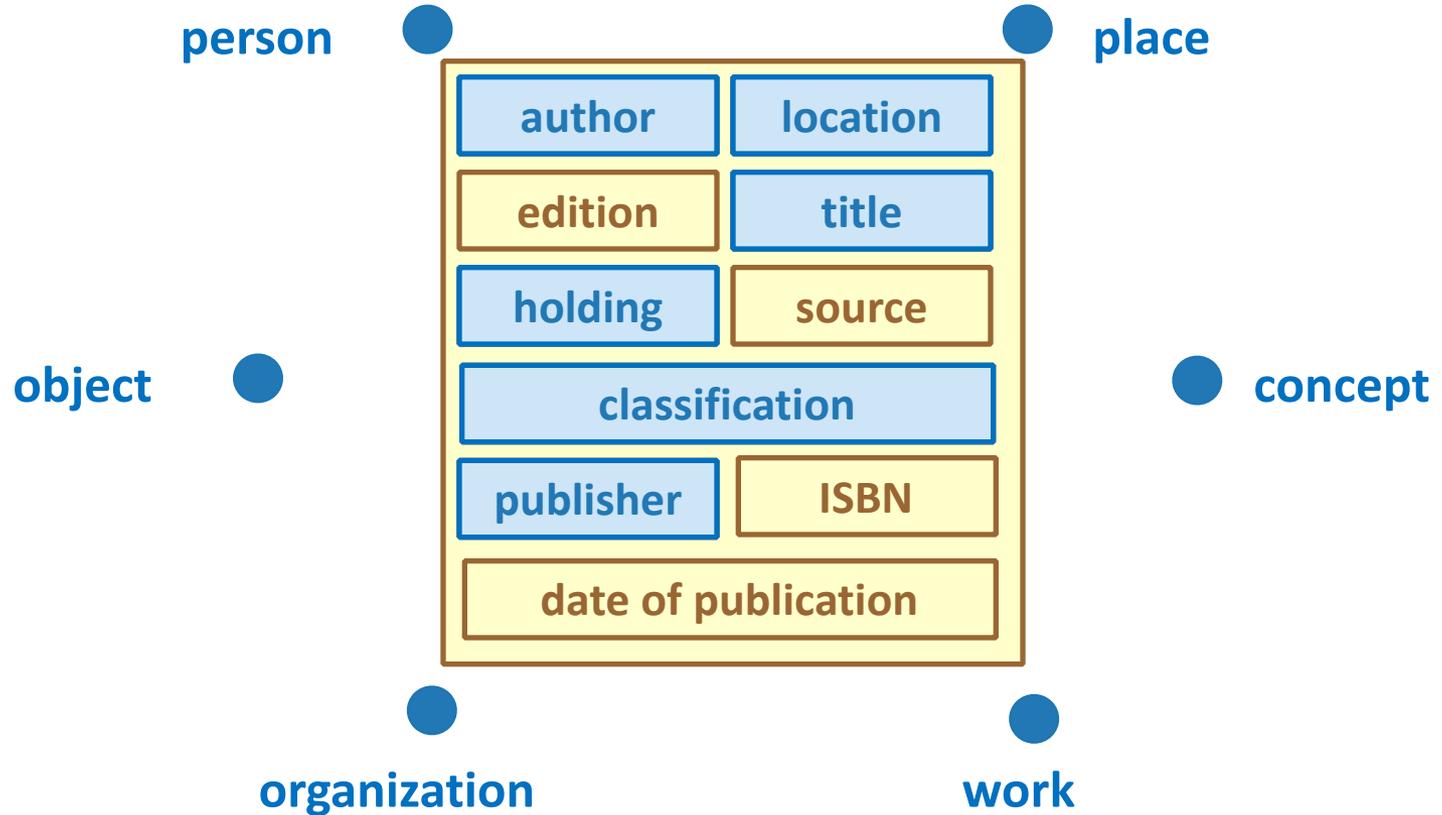
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stored as records

author	location
edition	title
holding	source
classification	
publisher	ISBN
date of publication	



library data:
stored as records



person ●

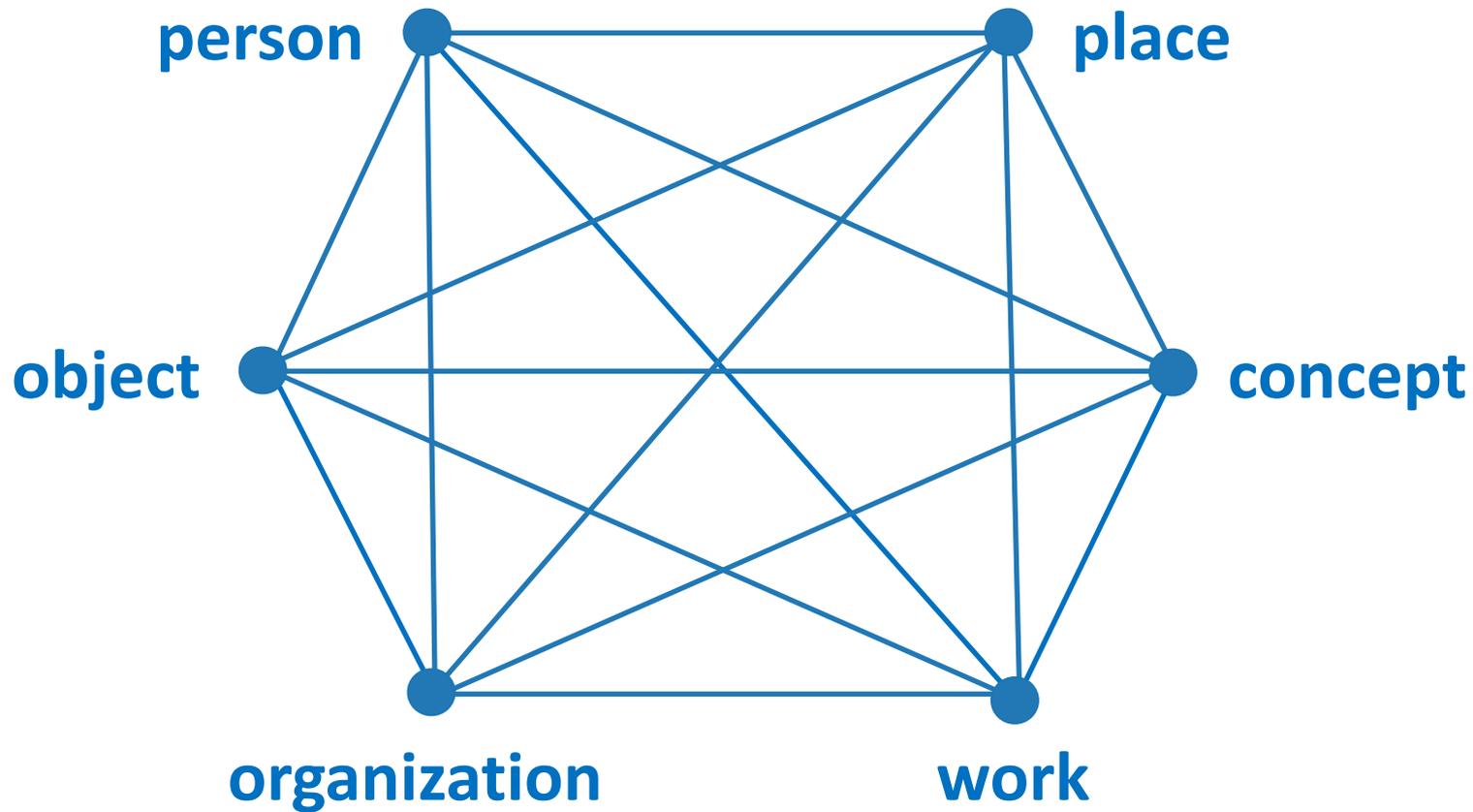
● place

object ●

● concept

● organization

● work





Günter Grass

Novelist

Günter Wilhelm Grass is a German novelist, poet, playwright, illustrator, graphic artist, sculptor and recipient of the 1999 Nobel Prize in Literature. He is widely regarded as Germany's most famous living writer. [Wikipedia](#)

Born: October 16, 1927 (age 85), Witzszc, Gdańsk, Poland

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Movies: [The Call of the Toad](#), [Cat and Mouse](#)

Education: [Kunstakademie Düsseldorf](#), [Berlin University of the Arts](#)

Awards: Nobel Prize in Literature, Prince of Asturias Award for Letters

Books



The Tin Drum
1959



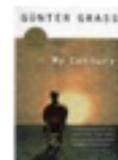
Crabwalk
2002



Cat and Mouse
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Dog Years
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My Century

Google Knowledge Graph



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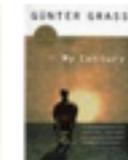
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Knowledge cards for libraries?

Google Knowledge Graph

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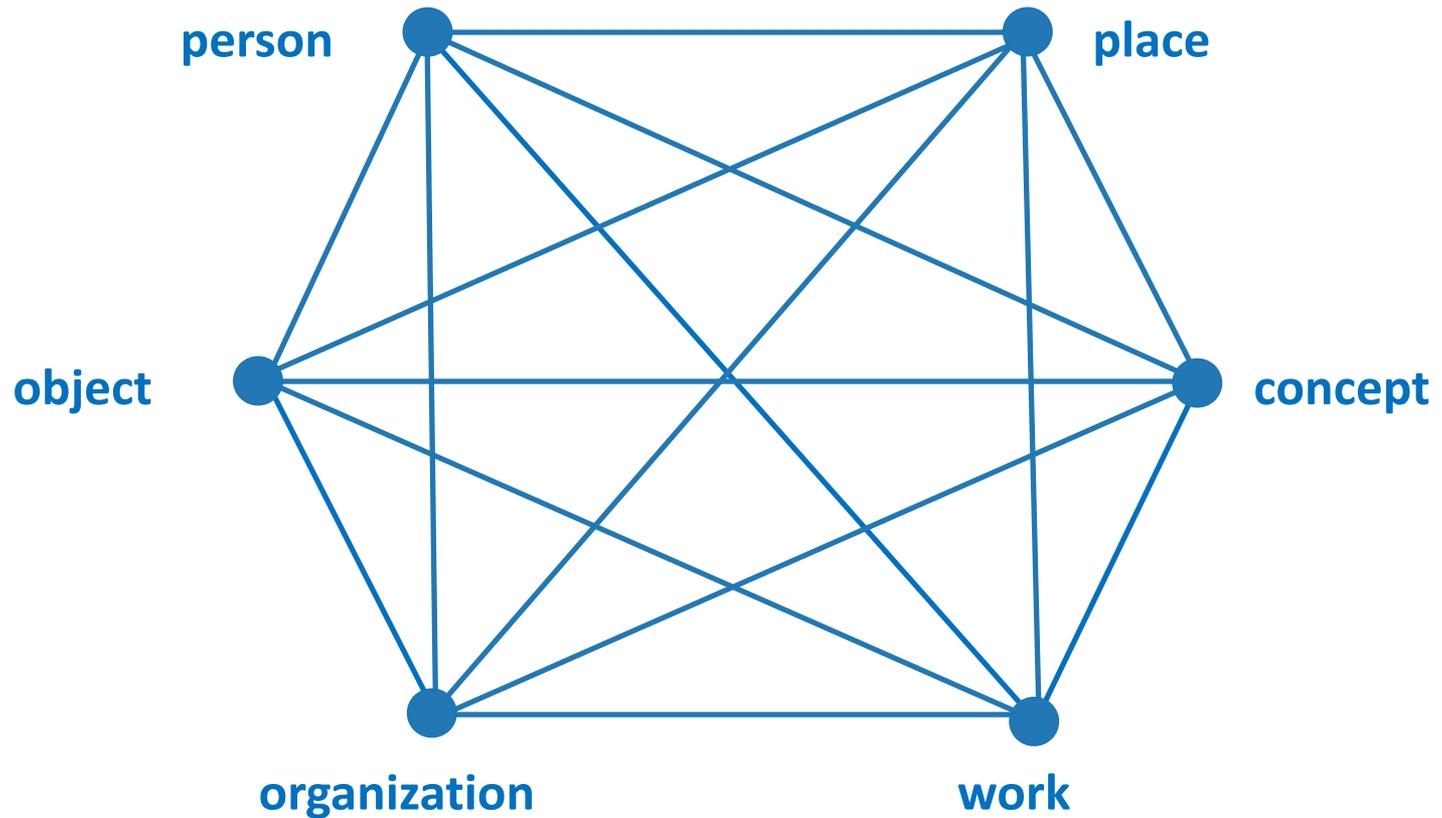
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The Tin Drum 1959	Crabwalk 2002	Cat and Mouse 1961	Dog Years 1965	My Century

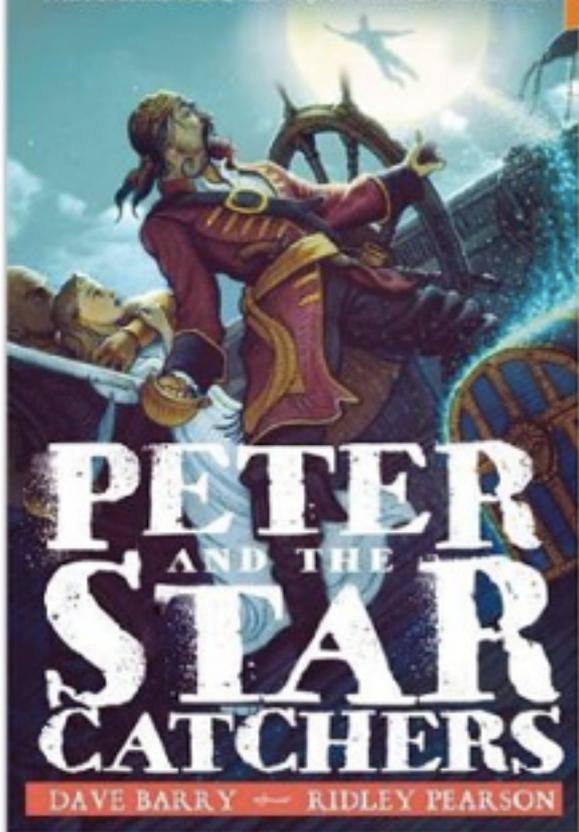
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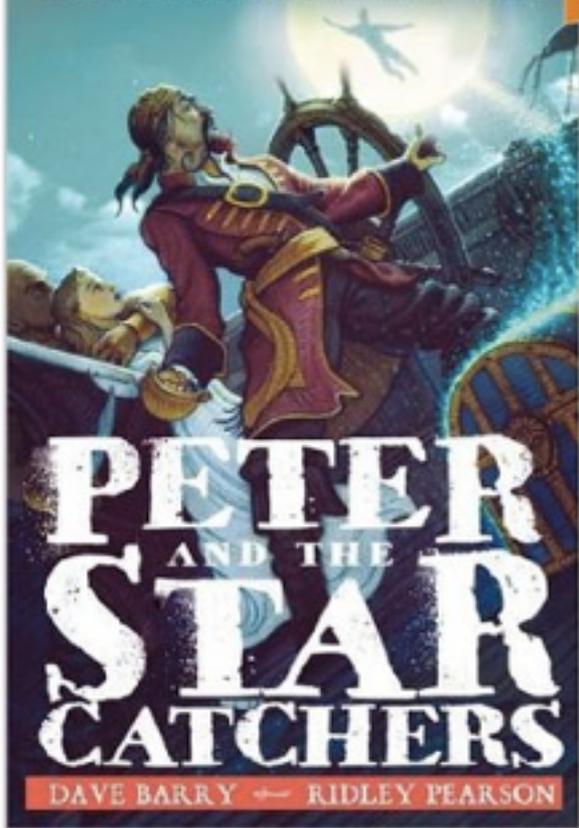
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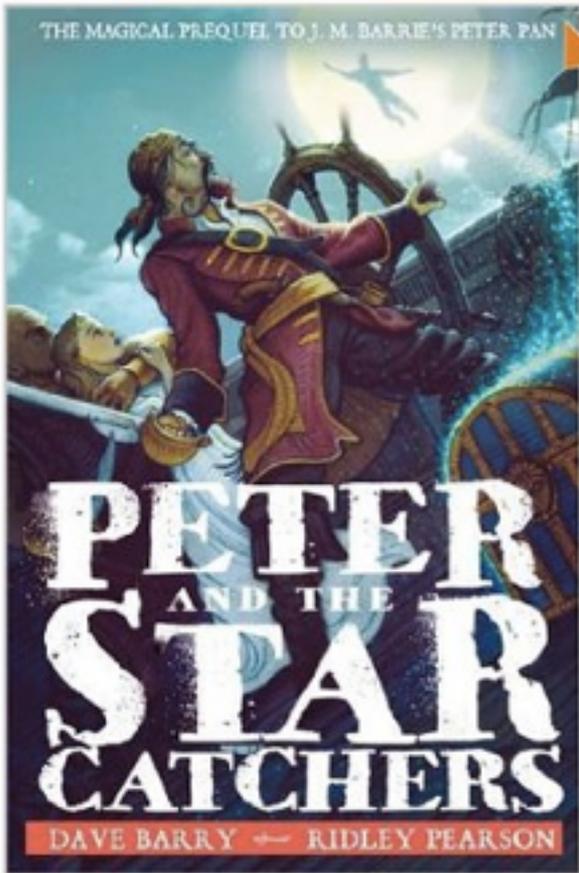
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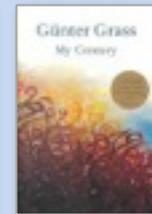
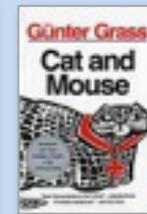
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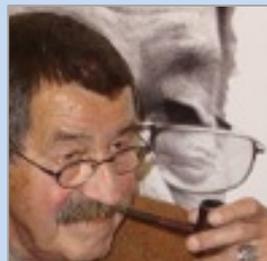
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Aria / N. Mussorgsky (Yelena Obratsova, mezzo-soprano) -
Atlantov, tenor) -- The mermaid. The miller's aria / A. Dargi
onchantress. Kuma's aria / P. Tchaikovsky (Tamara Milashkiv
H. Glinka (Yevgeni Nesterenko, bass) --
505 8 \$a Side two: The maid of Orleans. Jeanne's aria / P. Tchaiko
of Cavsrónsi / G. Puccini (Zurab Sotkilsva, tenor) -- Sedka
Rudenko, soprano) -- Demon. Demon's romance / A. Rubins
figern. Cherubino's aria / W. Mozart (Galina Borisova, mezzo
Tchaikovsky (Yuri Gulyaev, baritone)
650 0 \$a Operas \$v Excerpts.
700 1 \$a Mazurk, I'U'rii. \$4 prf
700 1 \$a Obrat's'ova, Elena. \$4 prf
700 1 \$a Atlantov, Vladimic. \$4 prf
700 1 \$a Vedernikov, A. \$4 prf
700 1 \$a Milashkina, Tamara. \$4 prf

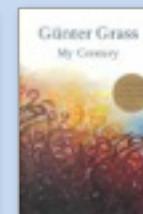
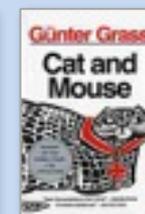
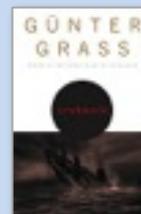
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Born: 16 October 1927
Gdańsk, Poland

German novelist, poet,
playwright, illustrator,
graphic artist, sculptor and
recipient of the 1999 Nobel
Prize in Literature.

Works



Subjects

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Quotes

“Even bad books are books and therefore sacred.”—*The Tin Drum*

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Entities and library workflows: Cataloging

The Tin Drum



Summary: Acclaimed as the greatest German novel since the end of World War II. The Tin Drum is the story of thirty year old Oskar Matzerath who has lived through the long Nazi nightmare and who is being held in a mental institution.

Subjects

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Entities and library workflows:

Cataloging

Person Editor

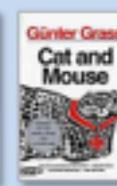
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Entities and library workflows: Cataloging

Person Editor

Person Authority

- Günter Grass
- SameAs ⇒
<dbpedia.org>

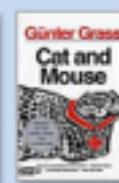
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Work Editor

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Entities and library workflows: Cataloging

Work Editor

Work Authority

- Title
- Creator ⇒ <Person>

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Work Authority

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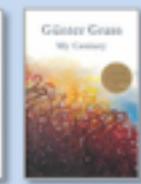
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**Cascading
Updates**

Manifestation 1

Manifestation 2

Manifestation 3



Entities and library workflows: Cataloging

Work Editor

Work Authority

- Title
- Creator ⇒ <Person>

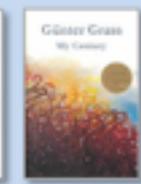
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**Cascading
Updates**

Manifestation 1

Manifestation 2

Manifestation 3

MARC21
Output



Entities and library workflows:

Other applications

Entities and library workflows:

Other applications

- Interlibrary Loan
 - Borrow at the Work level
 - Manifestations/Items are detail

Entities and library workflows:

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- Interlibrary Loan
 - Borrow at the Work level
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 - Fixes “holdings scatter” across manifestations

Entities and library workflows:

Other applications

- Interlibrary Loan
 - Borrow at the Work level
 - Manifestations/Items are detail
- Analytics
 - Fixes “holdings scatter” across manifestations
- Other third party applications
 - Discovery API exposes library entities

Entities and library workflows:

Web exposure

Entities and library workflows:

Web exposure

- Be found on the web

Entities and library workflows:

Web exposure

- Be found on the web
- Connect your users to unique content

Entities and library workflows:

Web exposure

- Be found on the web
- Connect your users to unique content
- What the web requires for web exposure
 - Aggregation
 - Familiar structures
 - A Network of Links
 - Entity Identifiers

WorldCat Entities

WorldCat Entities



Works

WorldCat Entities



- 197+ million Work descriptions and URIs
- Schema.org
- RDF Data formats – RDF/XML, Turtle, Triples, JSON-LD
- Links to WorldCat manifestations
- Links to Dewey, LCSH, LCNAF, VIAF, FAST
- Open Data license
- Released April 2014

<http://worldcat.org/entity/work/id/1151002411>

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

Open All Close All

- type
- about
- contributor
- creator
- description
- genre
- name
- workExample

http://worldcat.org/entity/work/id/1151002411

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

Open All Close All

type

<http://www.w3.org/1999/02/22-rdf-syntax-ns#type>

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about

<http://schema.org/about>

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<http://id.worldcat.org/fast/1204616>

- "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

▼ workExample

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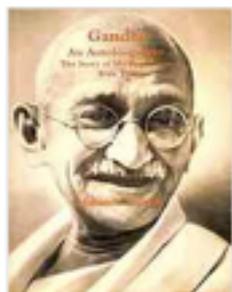
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Gandhi : an autobiography : the story of my experiments with truth

Author: [Gandhi, Mahatma; Mahadev H Desai](#)
Publisher: [S.I. : CreateSpace?, 2011].
Edition/Format: Book : Biography : English : 1st paperback ed [View all editions and formats](#)
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) [0 with reviews - Be the first.](#)
Subjects: [Gandhi, -- Mahatma, -- 1869-1948.](#)
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Intercultural Theatre Institute		

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schema:author	<p><http://viaf.org/viaf/71391324></p> <table border="1"> <tr> <td>rdf:type</td> <td>schema:Person</td> </tr> <tr> <td>schema:name</td> <td>"Gandhi, Mahatma, 1869-1948."</td> </tr> <tr> <td>schema:sameAs</td> <td><http://id.loc.gov/authorities/names/n79041626></td> </tr> </table>	rdf:type	schema:Person	schema:name	"Gandhi, Mahatma, 1869-1948."	schema:sameAs	< http://id.loc.gov/authorities/names/n79041626 >
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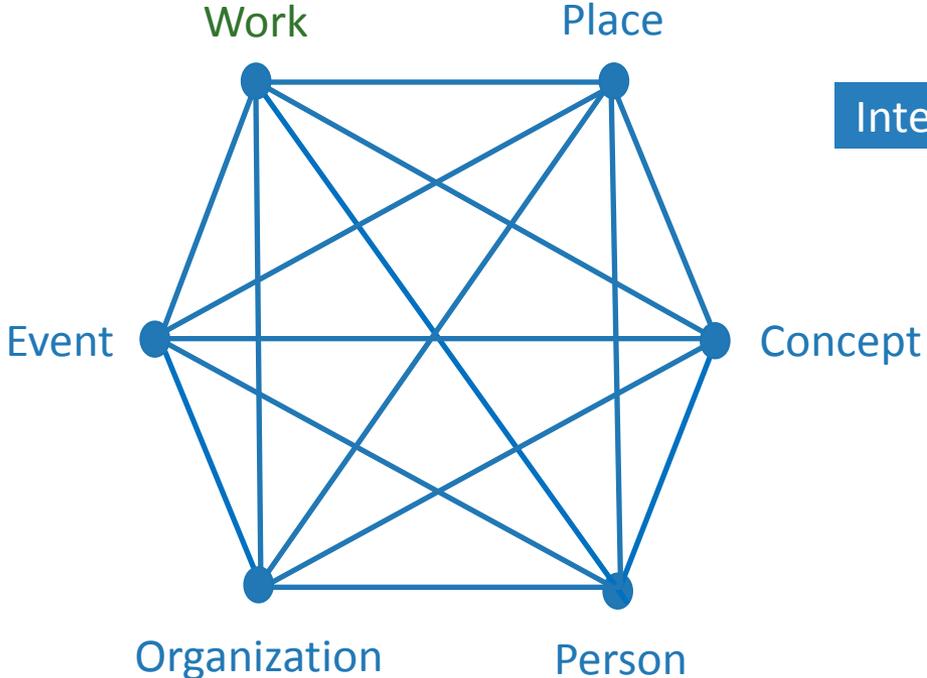
Bibliographic Entities



Intuitive searching



Integration with the web



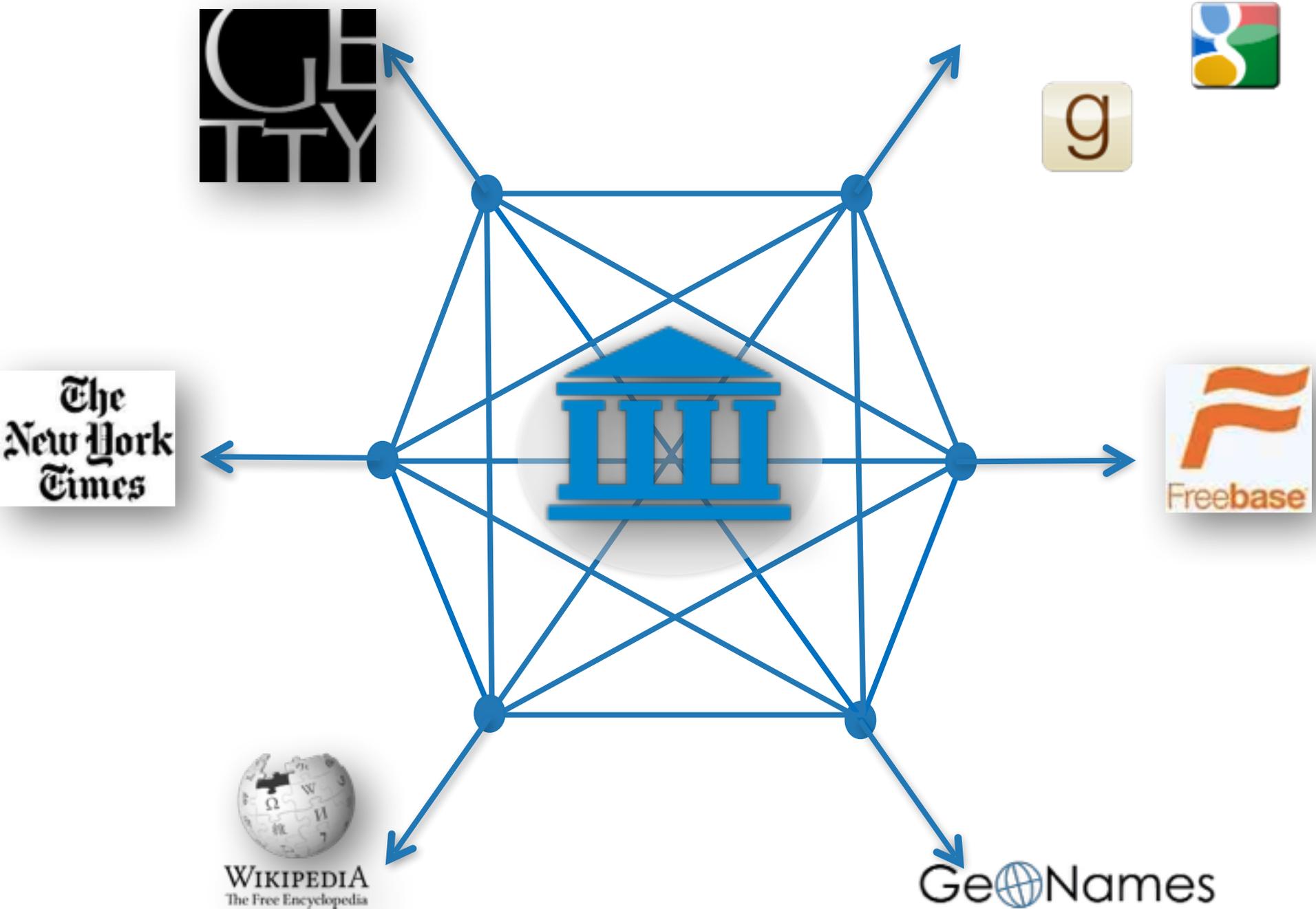
Cataloging

Cascading updates



More options

Bibliographic Entities - In the Web of Data



Bibliographic Entities - In the Web of Data

person ●

● place

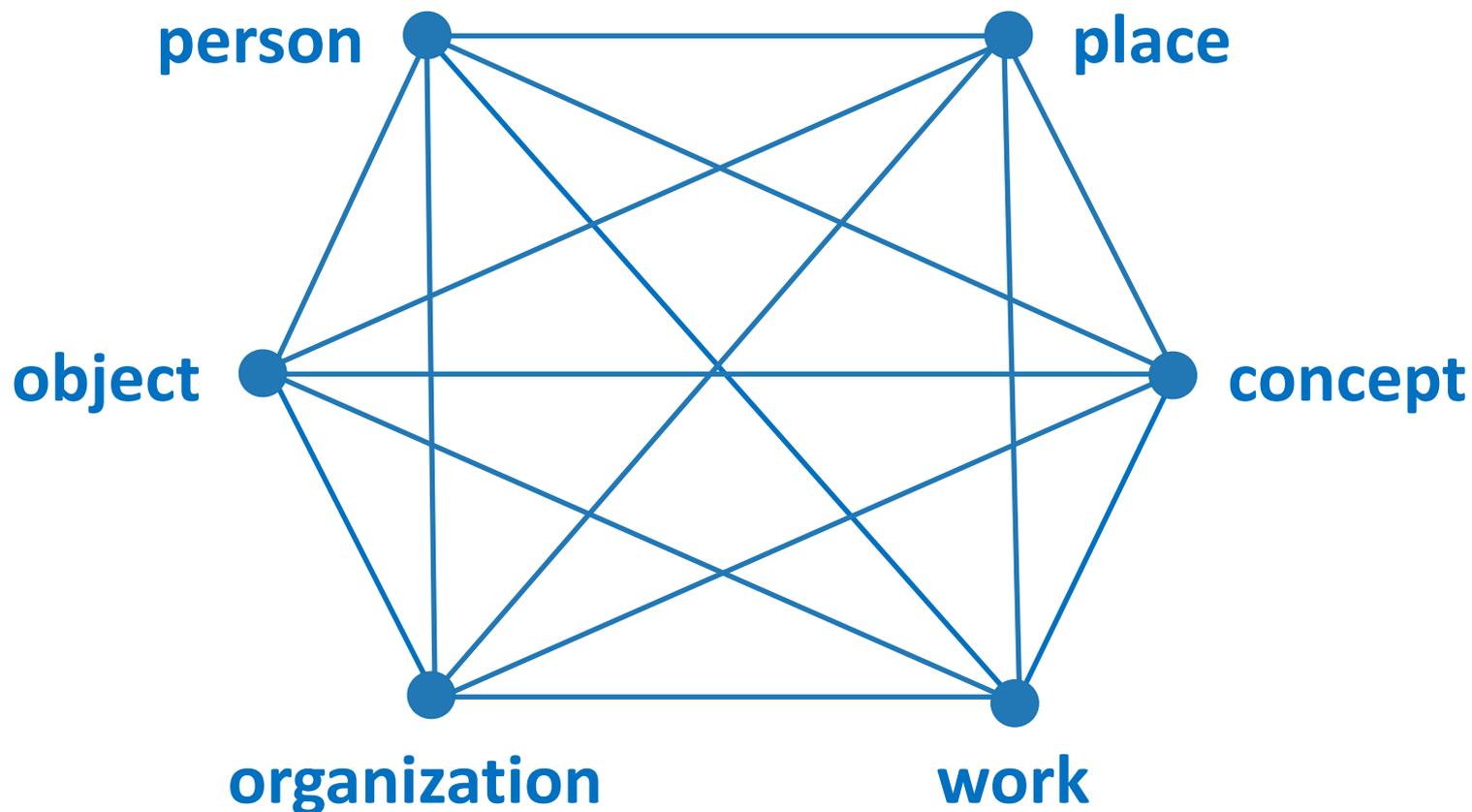
object ●

● concept

●
organization

●
work

Bibliographic Entities - In the Web of Data



Entity Based Data Architecture...



A photograph of a crowd of people at an outdoor event, possibly a festival or concert, during sunset. The background is bright and hazy. In the foreground, a young man with dark hair is looking to the right with a slight smile. Three speech bubbles are overlaid on the image: a large grey one at the top left, a purple one on the right, and a blue one at the bottom center.

What about Linked
Data?

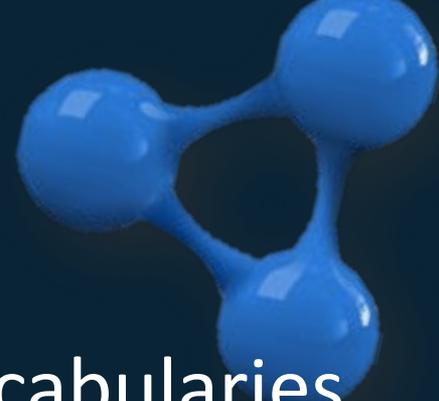
Yeah! – what *about*
Linked Data?

*I thought **Linked Data**
was going to solve all
our problems!*

Linked Data

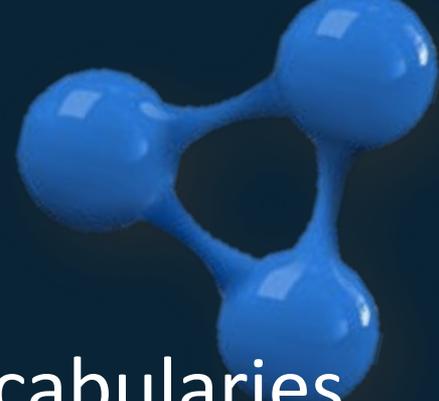


Linked Data



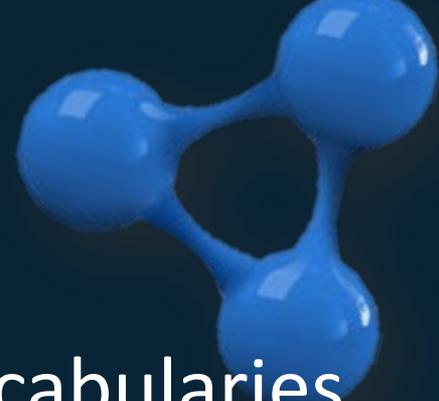
- A Technology
- Standard on the Web – RDF, URIs, Vocabularies
- Identifying and Linking resources on the Web
- Important powerful enabling technology

Linked Data



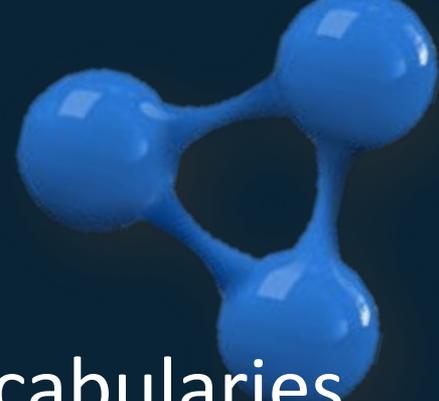
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- But *only* a technology...

Linked Data



- A Technology
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- But *only* a technology...
for the systems folks to worry about

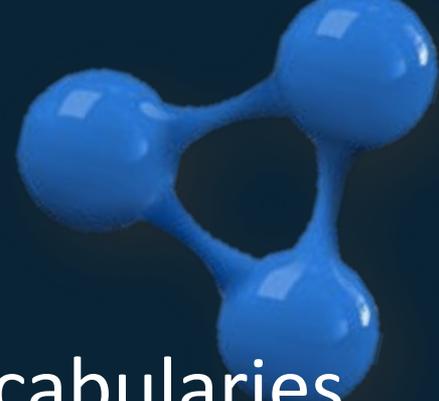
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- Standard on the Web – RDF, URIs, Vocabularies
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- Important powerful enabling technology
- But *only* a technology...
for the systems folks to worry about
- Real benefits flow from:

Entity Based Data Architecture

Linked Data



- A Technology
- Standard on the Web – RDF, URIs, Vocabularies
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for the systems folks to worry about
- Real benefits flow from:

Entity Based Data Architecture
Powered by Linked Data

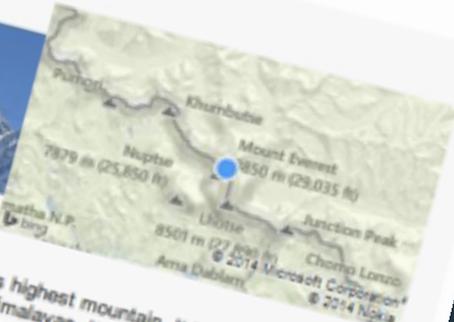
Entity Based Data



Entity Based Data on the Web

Entity Based Data on the Web

bing
Mount Everest



en.wikipedia.org
Mount Everest is the Earth's highest mountain. It is located in the Mahalangur section of the Himalayas. Its peak is 8,848 metres above sea level and is the 5th furthest point from the center of the Earth. The international border between China and Nepal runs across the precise summit point. Its massif includes neighboring peaks Lhotse, 8,51... +

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Elevation: 29,029 ft
First ascent: 29 May 1953
Prominence: 29,029 ft
Mountain ranges: [Himalayas](#) · [Mahalangur Himal](#)
First ascenders: [Edmund Hillary](#) · [Tenzing Norgay](#) · [Krzysztof Wielicki](#)

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Entity Based Data on the Web

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Mountain ranges: Himalayas · Mahalangur Himal
First ascenders: Edmund Hillary · Tenzing Norgay · Krzysztof Wielicki

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George Mallory

David Sharp

Reinhold Messner

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Mount Everest

Mountain in Asia

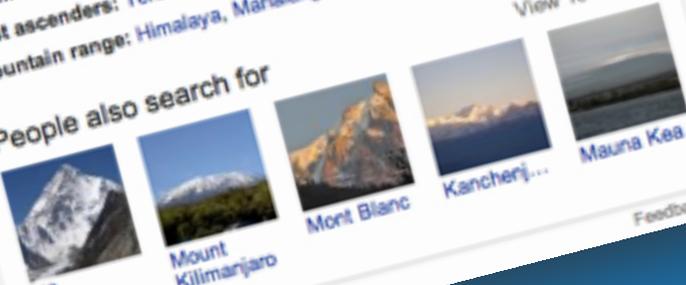
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Elevation: 29,029^{ft} (8,848 m)
First ascent: May 29, 1953
Prominence: 29,029^{ft} (8,848 m)
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Mountain range: Himalaya, Mahalangur Himal

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珠穆朗玛峰 (Zhumùlǎngmǎ Fēng)
ཇོ་མོ་གླང་མ (Chomolungma)



Morning view of Mount Everest

Elevation 8,848 m (29,029 ft)^[1]
Ranked 1st

Prominence 8,848 m (29,029 ft)
Ranked 1st
(Notice special definition for Everest)

Listing Seven Summits
Eight-thousander
Country high point
Ultra

Location



Location on the Sagarmatha Zone, Nepal - Tibet, China border

Location Solukhumbu District, Sagarmatha Zone, Nepal;
Tingri County, Shigatse Prefecture, Tibet Autonomous Region, China^[2]

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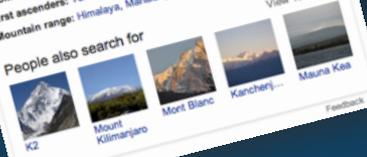


Mount Everest
Mountain in Asia

Mount Everest is the Earth's highest mountain. It is located in the Mahalangur section of the Himalayas. Its peak is 8,848 metres above sea level and is the 5th furthest point from the center of the Earth.
Wikipedia

Elevation: 29,029 (8,848 m)
First ascent: May 29, 1953
Prominence: 29,029 (8,848 m)
First ascenders: Tenzing Norgay, Edmund Hillary, Krzysztof Wielicki
Mountain range: Himalays, Mahalangur Himal

People also search for



View 15+ more

K2

Mount Kilimanjaro

Mont Blanc

Kanchenj...

Mauna Kea

Feedback

Entity Based Data on the Web



Knowledge Graphs

Entity Based Data on the Web

Knowledge Graphs

Search Engine Land™

Column: All Things SEO Column

5 Ways To Unlock The Benefits Of Semantic Search

Nov 7, 2013 at 10:12am ET by [Barbara Starr](#)



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Search is changing. It is now more personal, more **engaging**, more **interactive** and more **predictive**. SERPs no longer display just 10 blue links — they have become more useful and more visually appealing across all device types.

Semantic search is at the forefront of these changes, as evidenced most recently by the launch of Google's new **Hummingbird algorithm**. Beginning with user intent and interpretation of the query itself, **semantic technology** is used to refine the query, **extract entities** as answers, search results, predict search queries and more — providing a more interactive, personalized search result.



Entity Based Data on the Web

Knowledge Graphs



bing
Mount Everest

en.wikipedia.org
Mount Everest is the Earth's highest mountain. It is located in the Mahalangur section of the Himalayas. Its peak is 8,848 meters (29,017 feet) above sea level and is the furthest point of continental shelf from the center of the Earth. It is the highest mountain on Earth. It is also the highest mountain in the world. It is also the highest mountain in the world. It is also the highest mountain in the world.

Related people
Edmund Hillary
Tenzing Norgay
George Mallory
David Sharp
Reinhold Messner



Mount Everest
ཇག་མོང་ལྷོ་གོ་མོ་ (Sagarmatha)
珠穆朗玛峰 (Zhūmùlǎngmǎ Fēng)
ཇག་མོང་ལྷོ་གོ་མོ་ (Chomolungma)

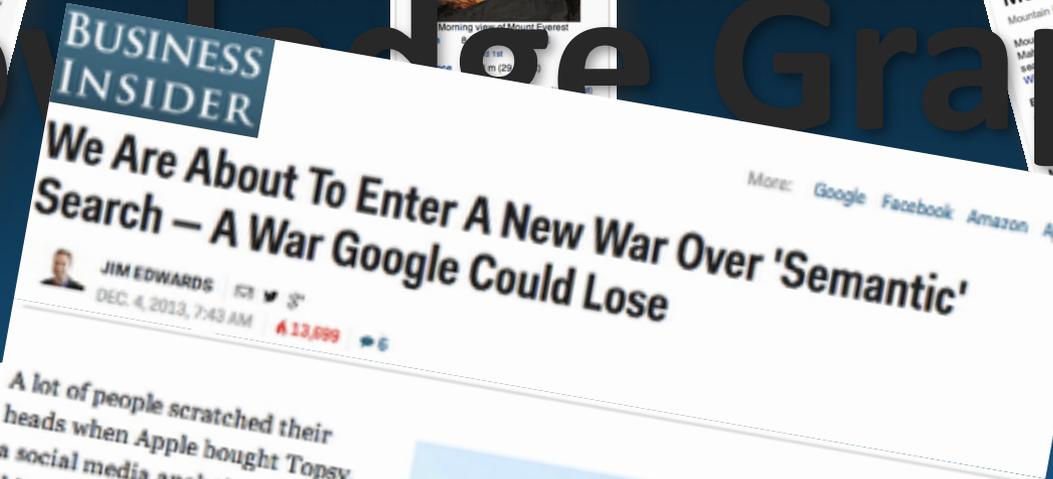
Morning View of Mount Everest



Google
Mount Everest

Mountain in Asia
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also search for
Mount Kilimanjaro
Mont Blanc
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Mauna Kea

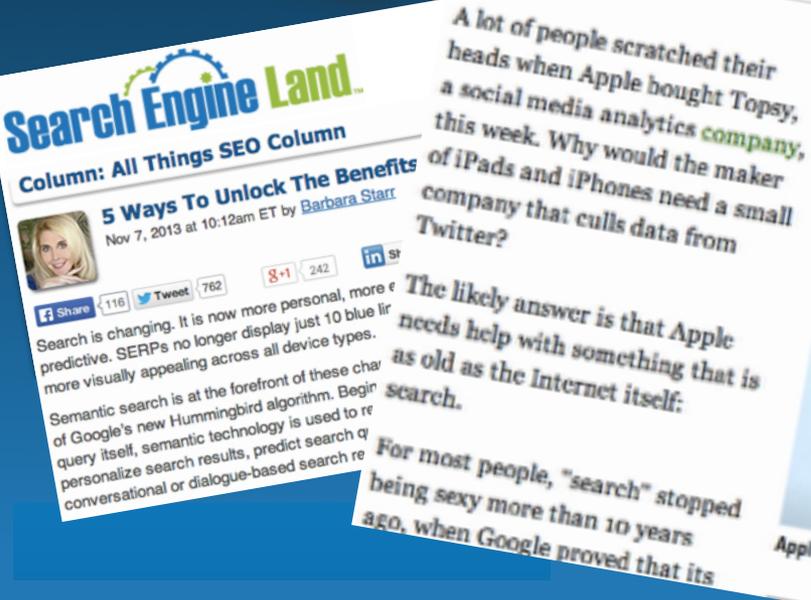


BUSINESS INSIDER

We Are About To Enter A New War Over 'Semantic' Search — A War Google Could Lose

MORE: Google Facebook Amazon Apple

JIM EDWARDS
DEC. 4, 2013, 7:43 AM
13,699



Search Engine Land
Column: All Things SEO Column

5 Ways To Unlock The Benefits

Nov 7, 2013 at 10:12am ET by Barbara Starr

Search is changing. It is now more personal, more predictive. SERPs no longer display just 10 blue links more visually appealing across all device types.

Semantic search is at the forefront of these changes. Google's new Hummingbird algorithm. Begin to query itself, semantic technology is used to re-personalize search results, predict search results, conversational or dialogue-based search results.

The likely answer is that Apple needs help with something that is as old as the Internet itself: search.

For most people, "search" stopped being sexy more than 10 years ago, when Google proved that its

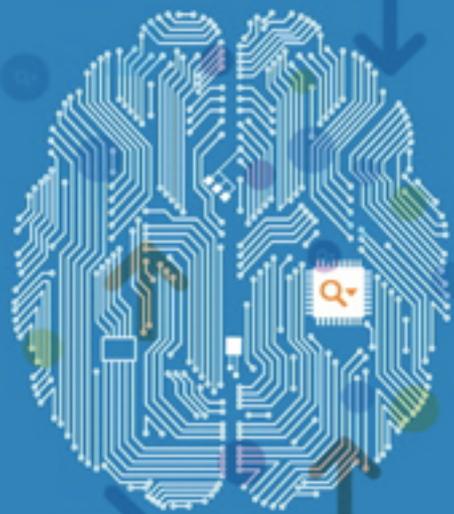


Entity Based Data on the Web



Know Graphs

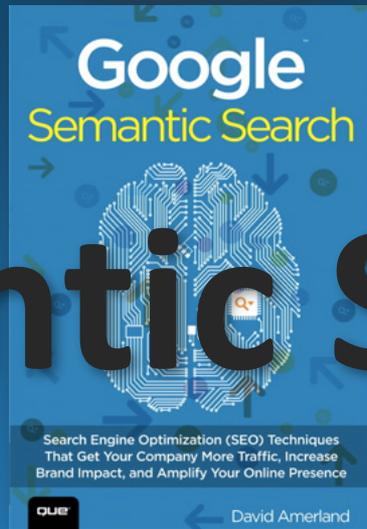
Google Semantic Search



Search Engine Optimization (SEO) Techniques That Get Your Company More Traffic, Increase Brand Impact, and Amplify Your Online Presence

Entity Based Data on the Web

Knowledge Graphs



Why is the Web Adopting This?



Why is the Web Adopting This? (Entities, Semantic Search, Linked Data)

Why is the Web Adopting This? (Entities, Semantic Search, Linked Data)

- To get their products/resources in front of users
 - Next Generation SEO

Buy my
stuff

Why is the Web Adopting This?

(Entities, Semantic Search, Linked Data)

- To get their products/resources in front of users
 - Next Generation SEO
- It is a shared approach from the Search Engines
 - But not exclusive to them

RY · ELKINS · WIDENER · MEMORIAL · LIBRARY · A · U

USE

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Syndication For Libraries

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Syndication For Libraries

- Aggregate to a central site
 - National Library, Consortia, WorldCat.org

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Syndication For Libraries

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- Publish details to syndication partners
 - WorldCat: *Amazon, Google Scholar, EasyBib, EBSCO, OpenLibrary, FindMyLibrary, RedLaser, Yelp, ...*

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WorldCat
Syndication
Year to June 2013

- 77 Million referrals from partners
- 8.7 Million click-through to libraries

Syndication For Libraries

Today

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Efficient but indirect

Syndication For Libraries

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USE

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STUFF



Syndication For Libraries On the Web of Data

RY · ELKINS · WIDENER · MEMORIAL · LIBRARY · A

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Syndication For Libraries On the Web of Data

- Individual libraries publish resource data



Syndication For Libraries

On the Web of Data

- Individual libraries publish resource data
 - Linked Data in local discovery interfaces

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Syndication For Libraries

On the Web of Data

- Individual libraries publish resource data
 - Linked Data in local discovery interfaces
 - Links to authoritative hubs – set global context
 - VIAF, LoC, WorldCat Works, ...

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 - Where our users are!

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Direct and Effective

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Direct and Effective

Tell them about our resources...



http://www.flickr.com/photos/boston_public_library/6220572487

Tell them about our resources...
...using their language and methods



SWIB14
Semantic Web in Libraries

Has it been a waste of time?



Has it been a waste of time?



Am I saying....

Has it been a waste of time?



Am I saying....

Throw it all away and use...

schema.org

Has it been a waste of time?



Am I saying....

Throw it all away and use...



No!....

Don't throw the baby out with the bath water



Don't throw the baby out with the bath water

schema.org

Sharing for discovery on the web

As part of a Global Knowledge Graph



Don't throw the baby out with the bath water

schema.org

Sharing for discovery on the web

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Entification

Don't throw the baby out with the bath water

schema.org

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Entification

Identify the entities in your data:

Don't throw the baby out with the bath water

schema.org

Sharing for discovery on the web

As part of a Global Knowledge Graph



Entification

Identify the entities in your data:

- Describe them using *appropriate vocabularies*

Don't throw the baby out with the bath water

schema.org

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As part of a Global Knowledge Graph



Entification

Identify the entities in your data:

- Describe them using ***appropriate vocabularies***
- Describe the relationships between them

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schema.org

Sharing for discovery on the web

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Entification

Identify the entities in your data:

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- Describe the relationships between them
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schema.org

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Entification

Identify the entities in your data:

- Describe them using ***appropriate vocabularies***
- Describe the relationships between them
- Place them in a global context – ***link*** to authoritative hubs
- Liberate the value in your data!

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schema.org

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Entification

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schema.org

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- Describe the relationships between them
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And also share them on the web – a job for ***Schema.org***



古籍分類目錄



古籍分類目錄

古籍分類目錄



B18

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*

OCLC Entity Based Data Strategy

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2010

✓VIAF, ISNI, FAST Publish Linked Data



OCLC Entity Based Data Strategy

2010

✓ VIAF, ISNI, FAST Publish Linked Data

2012

✓ WorldCat.org Linked Data Release – using Schema.org



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2015

➤ Application Integration

➤ WorldCat Discovery

➤ Analytics

➤ Discovery API

➤ Cataloging

➤ More Entities Released

➤ Person

➤ Organization

➤ Event

➤ Concept

OCLC Entity Based Data Strategy



OCLC Entity Based Data Strategy



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OCLC Entity Based Data Strategy



OCLC Entity Based Data Strategy



OCLC Entity Based Data Strategy



OCLC Entity Based Data Strategy



OCLC Entity Based Data Strategy



Where are our users?



Where are our users?



6 excellent SWIB's

Many great LD Projects

6 excellent SWIB's

Many great LD Projects

about

6 excellent SWIB's

Many great LD Projects

If users can't discover our resources

about

6 excellent SWIB's

Many great LD Projects

If users can't discover our resources

What is the point?

6 excellent SWIB's

Many great LD Projects



6 excellent SWIB's

Many great LD Projects



~~6~~⁷ excellent SWIB's
more

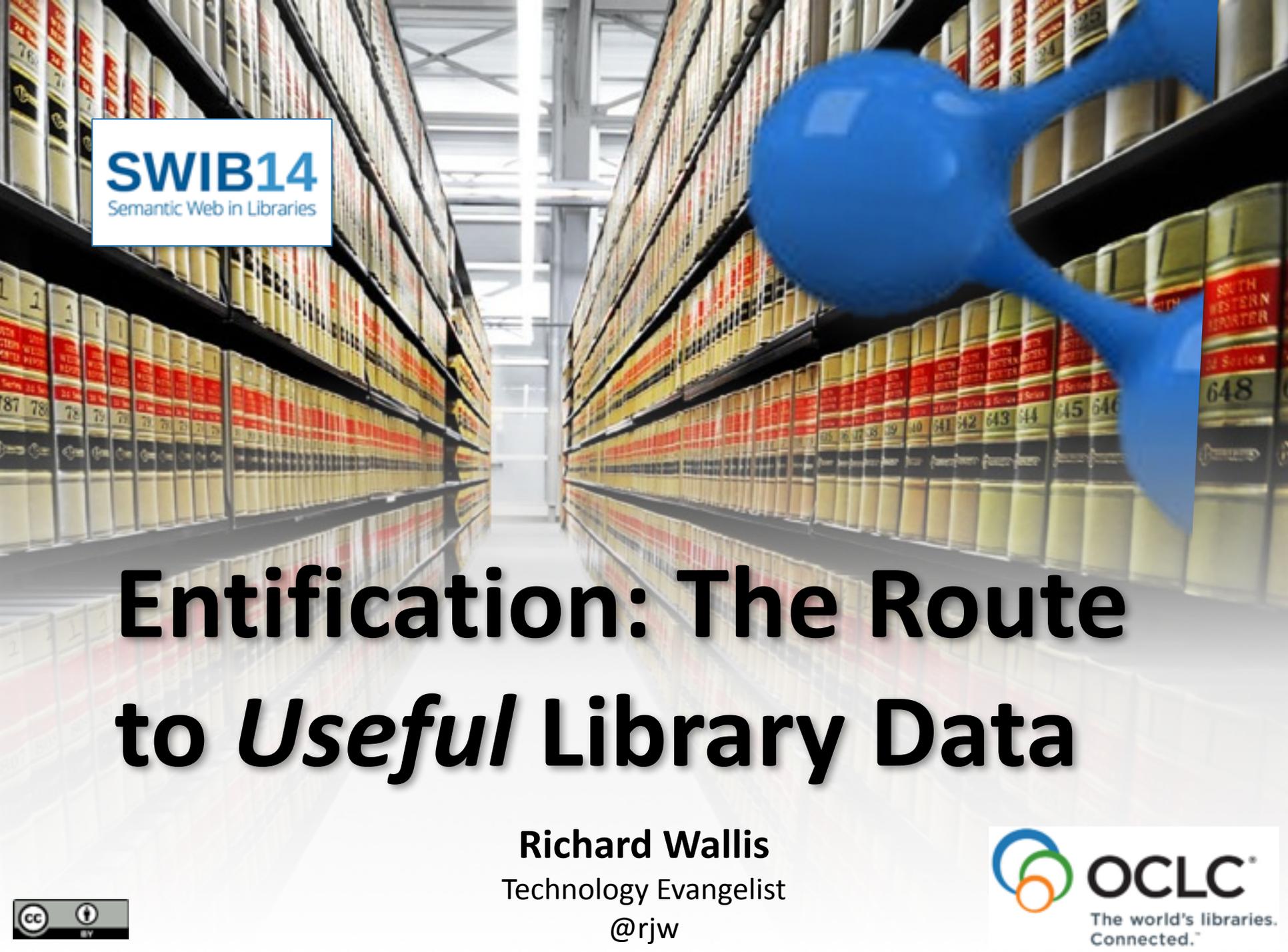
Many great LD Projects



~~6~~⁷ excellent SWIB's
more

Many great LD Projects



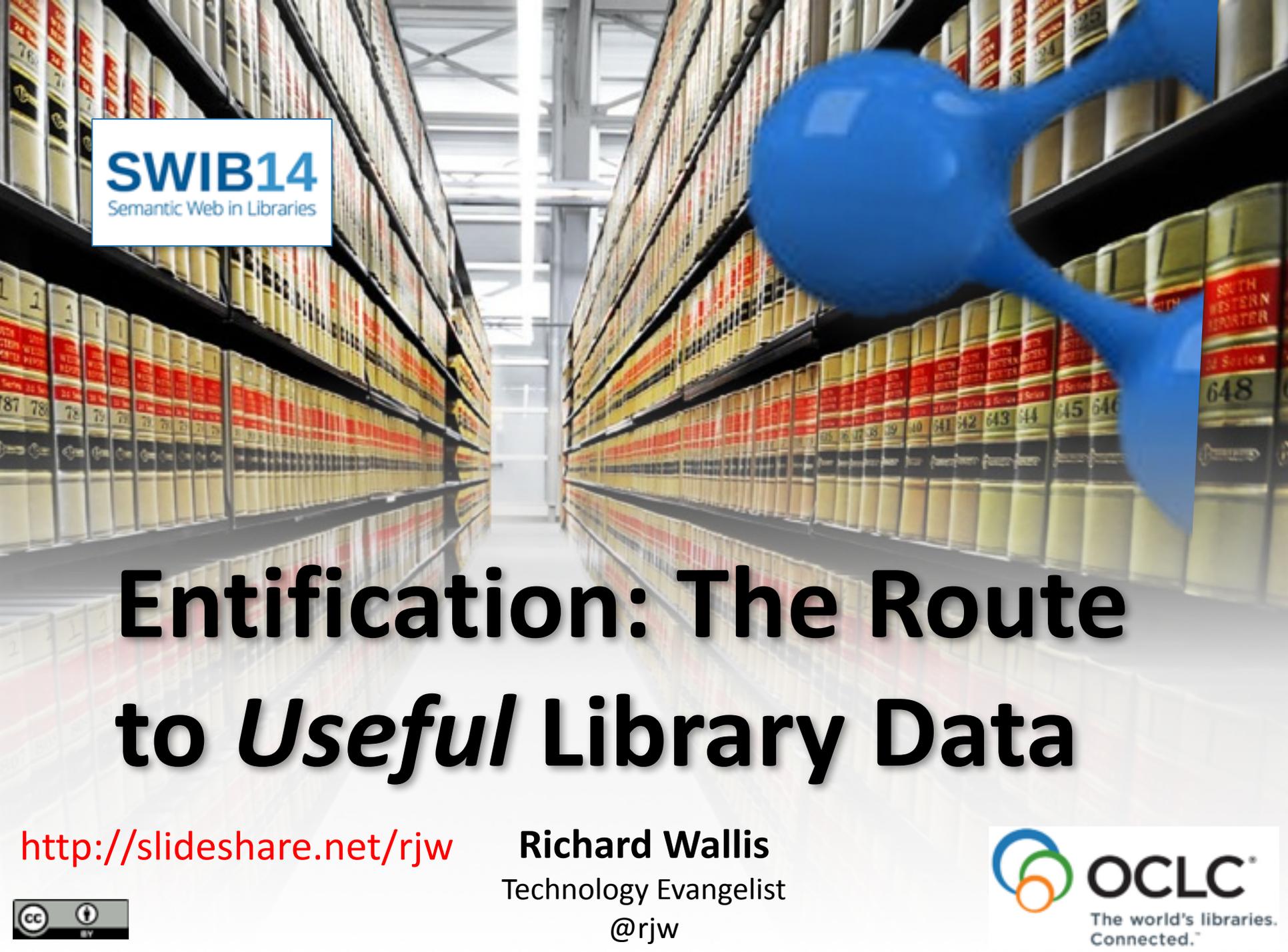


SWIB14
Semantic Web in Libraries

Entification: The Route to *Useful* Library Data

Richard Wallis
Technology Evangelist
@rjw





SWIB14
Semantic Web in Libraries

Entification: The Route to *Useful* Library Data

<http://slideshare.net/rjw>

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