BIBFRAME
and the World Wide Web

LC Bibliographic Framework Initiative Update Forum

ALA Midwinter, Seattle Washington
27 January, 2013

Eric Miller
em@zepheira.com
@erimille
The web is the most successful commerce and communication platform ever conceived...
...and has quickly become one of the most pervasive data management and integration platforms ever imagined.
Web Search and Discovery
About 58,000,000 results (0.18 seconds)

Albert Einstein | Albert Einstein Official Site
einstein.biz/ Share
Albert Einstein official Web Site and Fan Club, featuring biography, photos, trivia, rights representation, licensing, contact and more.

Albert Einstein - Wikipedia, the free encyclopedia
en.wikipedia.org/wiki/Albert_Einstein
Albert Einstein (pron.: /ˈæl伯t ˈeɪnstaɪn/; German: [ˈalbert ˈajntaɪn] (listen); 14 March 1879 – 18 April 1955) was a German-born theoretical physicist...
Spinoism - Brain - Religious views of albert einstein - Hans Albert Einstein

Albert Einstein - Biography
www.nobelprize.org › Nobel Prizes › Nobel Prize in Physics
Biography. Albert Einstein was born at Ulm, in Württemberg, Germany, on March 14, 1879. Six weeks later the family moved to Munich, where he later on began...

Albert Einstein Quotes - BrainyQuote
www.brainyquote.com/quotes/authors/a/albert_einstein.html
Enjoy the best Albert Einstein Quotes at BrainyQuote. Quotations by Albert Einstein, German Physicist, Born March 14, 1879. Share with your friends.

Albert Einstein Biography - Facts, Birthday, Life Story - Biography.com
www.biography.com › People
Biography.com offers a glimpse into the life of Albert Einstein, the most influential physicist of the 20th century, who developed the theory of relativity.

Einstein Archives Online
www.alberteinstein.info/
The homepage of the repository of the personal papers of the great scientist, humanist and Jew, Albert Einstein.

Quotes By Albert Einstein - Goodreads
www.goodreads.com/author/quotes/9810.Albert_Einstein
50+ items – 692 quotes from Albert Einstein: ‘Two things are infinite: the...

Albert Einstein

Albert Einstein was a German-born theoretical physicist who developed the general theory of relativity, effecting a revolution in physics. Wikipedia

Born: March 14, 1879, Ulm
Died: April 18, 1955, Princeton
Education: University of Zurich (1905), ETH Zurich (1901), More
Children: Hans Albert Einstein, Eduard Einstein, Lieserl Einstein
Spouse: Elsa Einstein (m. 1919–1938), Mileva Marić (m. 1903–1919)

Books

Tuesday, February 5, 13
What is Schema.org?

This site provides a collection of schemas, i.e., html tags, that webmasters can use to markup their pages in ways recognized by major search providers. Search engines including Bing, Google, Yahoo! and Yandex rely on this markup to improve the display of search results, making it easier for people to find the right web pages.

Many sites are generated from structured data, which is often stored in databases. When this data is formatted into HTML, it becomes very difficult to recover the original structured data. Many applications, especially search engines, can benefit greatly from direct access to this structured data. On-page markup enables search engines to understand the information on web pages and provide richer search results in order to make it easier for users to find relevant information on the web. Markup can also enable new tools and applications that make use of the structure.

A shared markup vocabulary makes it easier for webmasters to decide on a markup schema and get the maximum benefit for their efforts. So, in the spirit of sitemaps.org, search engines have come together to provide a shared collection of schemas that webmasters can use.

We invite you to get started!

View our blog at blog.schema.org.
Introducing Graph Search

Search for people, places and things

People who like Cycling and live in Seattle, Washington

Find people who share your interests

Want to start a book club or find a gym buddy? Connect with friends who like the same activities—and meet new people, too.
Introducing Graph Search

Search for people, places and things

Restaurants in London my friends have been to

Princi London
Restaurant · Cafe · $ (0–10) · 4.5 stars
- Gint Woss was here · Gint has been friends with you since October
- 135, Wardour Street, London, United Kingdom
- 8:00am – 12:00am
- 3,354 like this

Las Iguanas Royal Festival Hall
Restaurant · Latin American Restaurant · $40 – $100 · 4.5 stars
- Jonathan Chang was here · Jonathan has been friends with you since July
- Festival Terrace, South Bank Centre, Belvedere Road, London, United Kingdom
- 12:00 pm – 1:00 am
- 325 like this

Discover restaurants, music and more
Explore new places to eat and new bands to listen to—all through people you know.
Linked Data

"a term used to describe a recommended best practice for exposing, sharing, and connecting pieces of data, information, and knowledge on the Semantic Web using URIs and RDF."

http://en.wikipedia.org/wiki/Linked_Data
What is BIBFRAME?

- BIBFRAME is native Web, linked data model for bibliographic data
- Requirements and Goals:
  - Inherent the robust nature of the MARC standard
  - Be content model agnostic - RDA, DACS, CCO, etc.
  - Handle description and management of traditional (books, serials, etc.) and non-traditional materials (born digital, data sets)
  - Integrate supporting data (Authority, Holdings, Classification)
- Benefits from all the goodness the Web offers (web triggers, collaboration, data driven, etc.)
Broad humor and bitter irony collide in this fictional autobiography of Rabo Karabekian, who, at age seventy-one, wants to be left alone on his Long Island estate with the secret he has locked inside his potato barn. But then a voluptuous young widow badgers Rabo into telling his life story—and Vonnegut in turn tells us the plain, heart-hammering truth about man’s careless fancy to create or destroy what he loves.
Book

subject

author

translator

hasInstance

Paperback

publisher

Paperback

Tuesday, February 5, 13
Recombinant Data
RDF

- Resource Description Framework
- common model for representing web data
RDF

- Resource Description Framework
- common model for representing web data
• Resource Description Framework
• common model for representing web data
RDF

\[
P = 8.0 \text{ mm} = 5/6 \times H = 2.5 \times h
\]

\[
h = 3.2 \text{ mm} = 0.4 \times P = 1/3 \times H
\]

\[
2 \times P - 0.2 \text{ mm} = 15.8 \text{ mm}
\]

\[
P - 0.2 \text{ mm} = 7.8 \text{ mm}
\]

\[
H = 9.6 \text{ mm} = 1.2 \times P = 3 \times h
\]

\[
5.0 \text{ mm}
\]

\[
1.7 \text{ mm}
\]

\[
3.0 \text{ mm}
\]
BIBFRAME
Community Profiles
Back to Bluebeard
(in an Open World)

Book

hasInstance

Hardcover
(1987)

Book

isTranslationOf

hasInstance

Paperback
(2007)
(option 1)
Collection

hasWork

Book

hasWork

isPartOf

Book

isTranslationOf

hasInstance

Hardcover

hasInstance

Paperback
Incoming Actions for Bluebeard: a novel

- 2007-02-03: New translation work created BarbaBlù
  would you like to update your resource to connect to it?
- 2007-02-03: New Collection created Bluebeard Collection
  would you like to update your resource to connect to it?
Incoming Actions for Bluebeard: a novel

- 2007-02-03: New translation work created Barbablù would you like to update your resource to connect to it?
- 2007-02-03: New Collection created Bluebeard Collection would you like to update your resource to connect to it?
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Books

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Wrong? Born: March 14, 1879, Ulm
Wrong? Died: April 18, 1955, Princeton
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Wrong? Spouse: Elsa Einstein (m. 1919–1936), Mileva Marić (m. 1903–1919)
Credibility on the Web

- Search / Discovery engines results are aggregating information and presenting this by:
  - By “popularity”
  - By purchase (i.e. site pays to be ranked higher)
  - By search / discovery engine “special sauce”
- Common Web infrastructure, different business models
- Problem: Users don’t know the difference
- When anyone can say anything about anything
- Who do you trust?
BIBFRAME as a Web of Trust

- Libraries have huge trust credit in physical space
- This translates into the Web
- BIBFRAME isn’t just about replacing MARC
- Weaving the Best of the Web, Libraries and Users together
- Bringing credibility to the Web
Thank You

Comments or Questions

Eric Miller
em@zepheira.com