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Linked Data, The BIBFRAME Initiative, and OCLC

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Google

what is linked data

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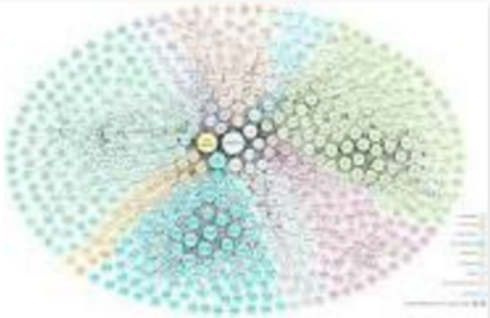
About 34,600,000 results (0.40 seconds)

In computing, **linked data** (often capitalized as **Linked Data**) is a method of publishing structured **data** so that it can be interlinked and become more useful through semantic queries.



Linked data - Wikipedia, the free encyclopedia
https://en.wikipedia.org/wiki/**Linked_data** Wikipedia

About this result • Feedback

Linked Data | Linked Data - Connect Distributed Data across ...
linkeddata.org/
More specifically, Wikipedia defines **Linked Data** as "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."
Data Sets - Guides and Tutorials - Frequently Asked Questions - Tools
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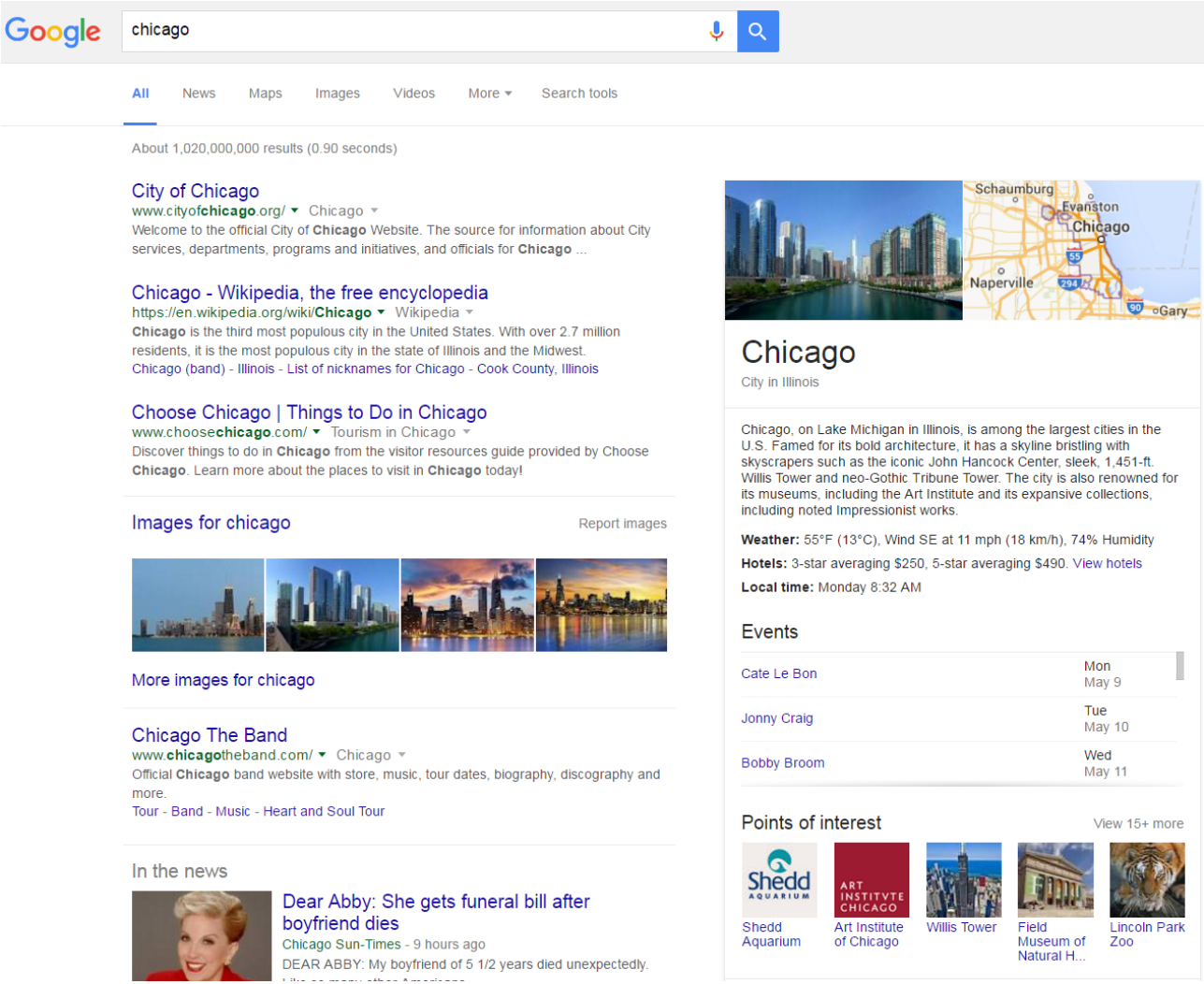
An example: a Knowledge Card



Identifiers for Resources

Text Strings

Bibliothèque nationale de France
BnF
National Library of France
法國國家圖書館
مكتبة فرنسا الوطنية
Εθνική Βιβλιοθήκη της Γαλλίας
הספרייה הלאומית של צרפת
フランス国立図書館
프랑스 국립도서관
Национальная библиотека Франции
French National Library

Identifiers

isni.org/isni/0000000123531945

http://id.loc.gov/authorities/names/no95028191

http://viaf.org/viaf/122051864

wikidata.org/entity/Q193563

http://data.bnf.fr/12381002

http://d-nb.info/gnd/1086259041

http://id.ndl.go.jp/auth/ndlna/00283813

Identifier: A unique, persistent and public URI associated with a digital object that is resolvable globally over networks via specific protocols and is unambiguous to use, find and identify the resource.

OCLC Research representing Organizations in ISNI Task Group: 2016

THE BIBFRAME INITIATIVE

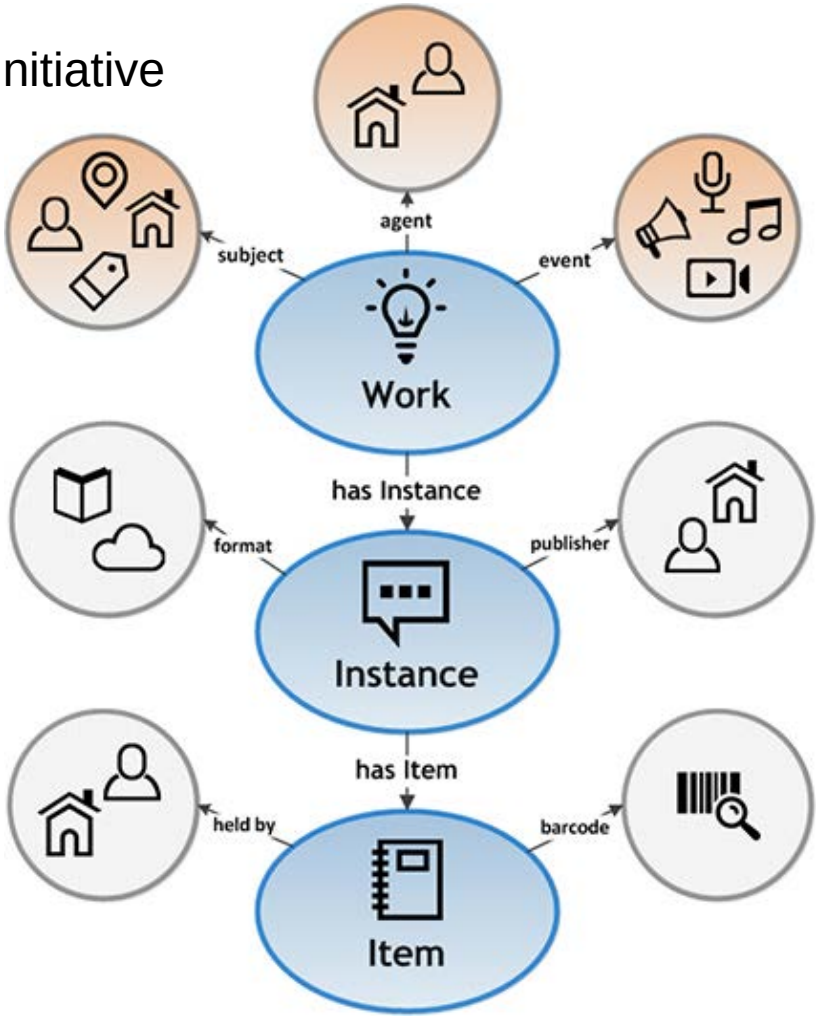
“The BIBFRAME Initiative is the foundation for the future of bibliographic description that happens on the web and in the networked world.”

https://loc.gov.bibframe/faqs/

The BIBFRAME model

"BIBFRAME (Bibliographic Framework) is an initiative to evolve bibliographic description standards to a linked data model, in order to make bibliographic information more useful both within and outside the library community."

"When a resource is cataloged -- a book, for example -- the resulting description includes information elements such as the author, what the book is about, various published forms, and information about copies of the book."



Source for text and images: Library of Congress

BIBFRAME is…

"…a profound step for the library community. It uses linked data to make discoverable library bibliographic and authority data on the web. Libraries considering piloting BIBFRAME transformations will be taking a leap forward in helping their users discover library resources across the web---and beyond the classic catalog paradigm." Qiang, Han and Croll 2016

…but it is still a sketch

BIBFRAME 2.0 Specifications - *new*

- BIBFRAME Titles [PDF, 111KB] (April 7, 2016)
- BIBFRAME Roles [PDF, 92KB] (April 7, 2016)
- BIBFRAME Items [PDF, 135KB] (April 7, 2016)
- BIBFRAME Events [PDF, 850KB] (April 7, 2016)
- BIBFRAME Identifiers [PDF, 118KB] (April 7, 2016)
- BIBFRAME Administrative Metadata [PDF, 87KB] (April 7, 2016)
- BIBFRAME Categories [PDF, 91KB] (April 7, 2016)
- BIBFRAME Notes [PDF, 99KB] (June 2, 2016)

Linked Data for Production (LD4P)

Library cartographic resources

Harvard

Created by Alissa Hafele on Apr 18, 2016

This sub-project of the Linked Data for Libraries/Production will explore best practices for creating linked data descriptions for library cartographic resources including printed maps, atlases, digital geospatial datasets, and other cartographic information resources. The project will evaluate BIBFRAME's effectiveness as a data model for describing cartographic materials for research needs and will compare BIBFRAME's effectiveness versus other available linked data descriptive schemas. In addition, the group will evaluate the thesauri and controlled vocabularies associated with the description of cartographic resources to identify those vocabularies best suited to describe cartographic resources in a linked data environment. The group's deliverables will include: a BIBFRAME profile for cartographic resources; a set of published BIBFRAME descriptions for a variety of cartographic resource types; a written evaluation of the project and set of recommendations for future research and development; and presentation of project findings to appropriate library cartographic materials and linked data communities.

Special collections…Derrida…annotations

Princeton

Created by Alissa Hafele, last modified by Peter Green on Jun 02, 2016

In March 2015, Princeton University acquired the personal library of Algerian-born French philosopher Jacques Derrida (1930-2004). Of the roughly 16,000 published books and other items in the library, a significant number have been heavily annotated, and many bear personal dedications to Derrida from other philosophers and theorists, including Roland Barthes, Giorgio Agamben, and Emmanuel Levinas. To date, approximately three thousand items with dedications have been identified. Taking this unique collection as a proving ground, the overarching goal of Princeton's LD4P project is to explore, define, and implement linked data standards for the description of special collections materials. In collaboration with LD4P colleagues at Cornell and Columbia, Princeton will participate in the definition of a new linked data ontology for the description of special collections materials. In the context of the Derrida collection, Princeton's contribution to this

OCLC and the Library of Congress

- Providing feedback on drafts of BIBFRAME 2.0
- Simplifying the representation of ‘Place’ in a bibliographic description
- Reconciling our ‘Work’ identifiers

REPURPOSING LEGACY DATA

The PCC-URI Task Group

PCC

Program for Cooperative Cataloging

BIBCO / CONSER / NACO / SACO

The Charge

How should URIs be added to MARC records to ease the transition to Linked Data?

Participants

British Library, German National Library, Library of Congress, OCLC. University libraries at Cornell, George Washington, Harvard, Ohio State, Stanford, University of Washington

URIs now: A MARC authority record

024 7_ |a http://dbpedia.org/resource/Hillary_Rodham_Clinton |2 uri
024 7_ |a http://freebase.com/m/0d06m5|2 uri
024 7_ |a 54950123 |2 viaf
024 7_ |a https://viaf.org/viaf/54950123|2 uri
024 7_ |a http://www.imdb.com/name/nm0874339 |2 uri
024 7_ |a https://ballotpedia.org/Hillary_Clinton |2 uri
024 7_ |a http://id.ndl.go.jp/auth/ndlna/00552567 |2 uri
....
100 1_ |a Clinton, Hillary Rodham

Legend: Legacy MARC Linked data Entities Human-readable

Proposed change: URIs in MARC Bib records

$0 Document URIs
$1 Linked data entity URIs

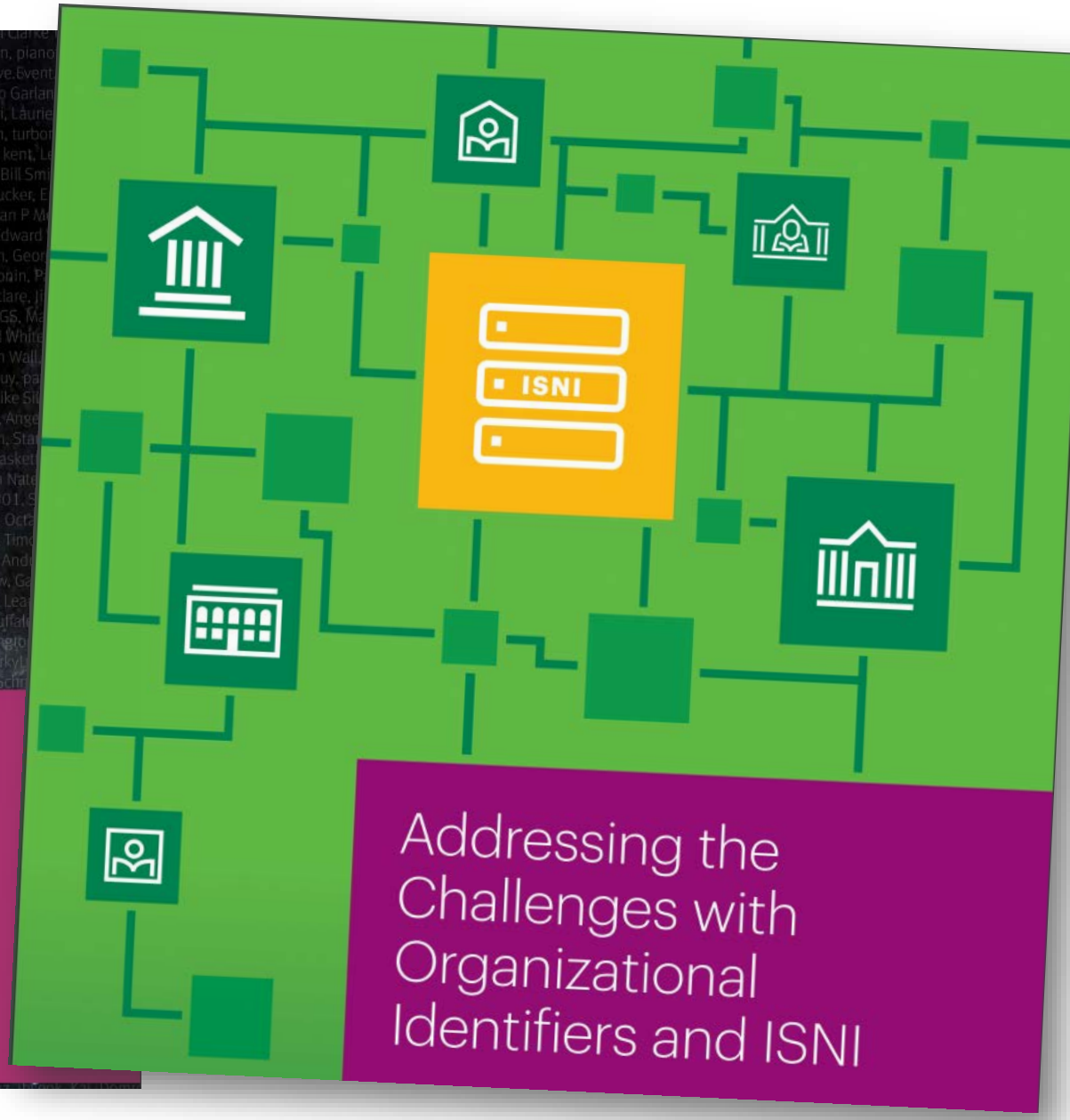
500 1# Jemison, Mae, $d1956- $0
http://id.loc.gov/authorities/names/n95004729
$1 http://viaf.org/viaf/33699121

651 #0 $a Greenwich Village (New York, N.Y.)
$0
http://id.loc.gov/authorities/names/n97020733
$1 http://vocab.getty.edu/tgn/7015857

OCLC

EXTENDING THE SCOPE OF AUTHORITY CONTROL

Registering
Researchers in
Authority Files


ISNI
Addressing the
Challenges with
Organizational
Identifiers and ISNI

OCLC

New relationships between persons and works

Defining creator roles beyond the published monograph. Tracking creators throughout their careers. Respecting their privacy. Tracking pseudonyms, collective names, and personas. Linking to 3rd-party datasets.

Connecting creators to works. Defining the model of “format” that users understand. Delivering the objects that users ask for. Identifying the simplest possible model of ‘work’ that cuts across all formats and genres.

“National Strategy for Shareable Local Authorities” -- an IMLS grant

INSTITUTE of Museum and Library SERVICES

Principal Investigator
Chew Chiat Naun,
Director of Cataloging and Metadata Services.
Cornell University Library

Partners
The Coalition for Networked Information,
the Library of Congress, OCLC, ORCID, the Program for Cooperative Cataloging, the Social Networks and Archival Context Cooperative (SNAC); University libraries at Cornell, Harvard, Stanford, UC Davis

IN SUM…

Bibliographic frameworks…

Library resource curation

Off-line

In early systems

In the networked world

OCLC

Thank you!

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Together we make breakthroughs possible.

OCLC