STRONGER TOGETHER

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Unlocking Library Data for the Web: BIBFRAME, Linked Data and the LibHub Initiative

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Books and articles

- Enis, Matt. (February 12, 2015). Ending the Invisible Library. *Library Journal, 140*(3), 36-38. http://lj.libraryjournal.com/2015/02/technology/ending-the-invisible-library-linked-data/#
- Godby, C. J. & Denenberg, R. (2015). *Common ground: Exploring compatibilities between the linked data models of the Library of Congress and OCLC*. (Executive summary of *Library linked data in the cloud*). http://www.oclc.org/content/dam/research/publications/2015/oclcresearch-loc-linked-data-2015.pdf
- Godby, C. J., Wang, S., Mixter, J., & OCLC Research. (2015). *Library linked data in the cloud: OCLC's experiments with new models of resource description*.
  Ebook: http://dx.doi.org/10.2200/S00620ED1V01Y201412WBE012
  Print: [San Rafael, CA] : Morgan & Claypool, [2015] ©2015
  Series: Synthesis lectures on the semantic web, theory and technology, Vol. 5, No. 2
- Library of Congress (2012). *Bibliographic framework as a web of data: Linked data model and supporting services*. http://www.loc.gov/bibframe/pdf/marcld-report-11-21-2012.pdf
- Library of Congress. (2014). *BIBFRAME authorities: Draft specification*. https://www.loc.gov/bibframe/docs/bibframe-authorities.html
- Library of Congress (2014). *BIBFRAME profiles: Introduction and specification*. http://www.loc.gov/bibframe/docs/bibframe-profiles.html
- Library of Congress. (2014) *BIBFRAME relationships: Draft specification*. https://www.loc.gov/bibframe/docs/bibframe-relationships.html
- Miller, E., & Ogbuji, U. (April 01, 2015). Linked data design for the visible library. *Bulletin of the American Society for Information Science and Technology*, *41*(4), 23-29. http://asis.org/Bulletin/Apr-15/Bulletin_AprMay2015.pdf
- Miller, E., Mueller, V., Ogbuji, U., MacDougall, K., & Zepheira (Eds.) (2013). *BIBFRAME use cases and requirements*. http://bibframe.org/documentation/bibframe-usecases/

- Van Malssen, K. (2014). *BIBFRAME AV modeling study: Defining a flexible model for description of audiovisual resources*. https://www.loc.gov/aba/pcc/bibframe/bibframe-avmodelingstudy-may15-2014.pdf

Training and recorded presentations

- BIBFRAME Training at the Library of Congress: http://www.loc.gov/catworkshop/bibframe/
- Getting started with linked data (OCLC *Next* blog entry by Roy Tennant): http://www.oclc.org/blog/main/getting-started-with-linked-data-3/
- Introducing Linked Data and the Semantic Web. http://www.linkeddatatools.com/semantic-web-basics. (This is not specific to library applications, but it is a short, not-too-technical overview of linked data concepts).
- Library Data [R]evolution: Applying Linked Data Concepts (Collective Insight event that took place at San Francisco Public Library on February 10, 2015. The event was hosted by San Francisco Public Library, the Northern California Technical Processes Group and OCLC). http://www.oclc.org/en-US/events/2015/CI_SFPL_Feb_2015.html
- Library Juice Academy offers courses such as "Introduction to the Semantic Web" and a Certificate in XML and RDF-Based Systems: http://libraryjuiceacademy.com/index.php. (There is a fee for this training. See the web site for more information).
- RDA, Linked Data, BibFrame: presentation by Eric Childress, 21 Oct 2015. http://www.oclc.org/content/dam/research/presentations/childress/oclcresearch-egcti-2015.pptx
- The world beyond MARC: let's focus on asking the right questions. (Handout for presentation by Terry Reese, March 15, 2016). http://www.slideshare.net/reese_terry/the-world-beyond-marc-lets-focus-on-asking-the-right-questions
- Zepheira Linked Data and BIBFRAME Practical Practitioner Training: http://zepheira.com/solutions/library/training/. (There is a fee for this training. See the web site for more information).

Tools

- Library of Congress: http://www.loc.gov/bibframe/tools/
  Many useful tools are available on this page. The ones that don't require downloading, installing, or configuring software include:
  - BIBFRAME Editor (Demonstration site): enables recording of a description using the BIBFRAME vocabulary but at this time does not store the input.
  - MARC to BIBFRAME transformation tools
    - Comparison Service (Demonstration site): compares a MARCXML record and its BIBFRAME representation
    - Transformation Service (Demonstration site): transforms submitted MARCXML records to BIBFRAME data
- Zepheira
  - BIBFRAME editor: http://editor.bibframe.zepheira.com/static/

Registered projects

BIBFRAME implementations registered with Library of Congress:
http://www.loc.gov/bibframe/implementation/register.html

Web pages

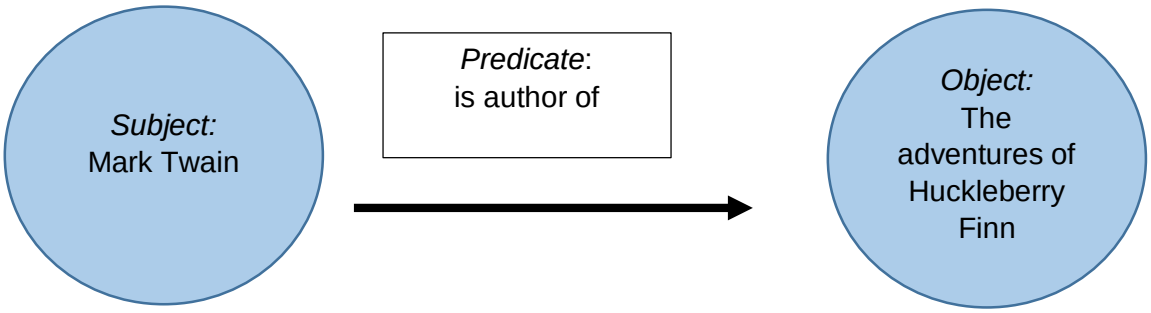
- OCLC's Data strategy and linked data: http://www.oclc.org/data.en.html
- Schema Bib Extend Community Group: https://www.w3.org/community/schemabibex/

RDF triples

Many of the articles and other resources you may read about linked data will refer to RDF triples, triple stores, or just triples, without explaining what this is.

- RDF is Resource Description Framework, a World Wide Web Consortium (W3C) standard for exchanging information on the web (https://www.w3.org/RDF/)
- Triples are statements in the form subject → predicate → object
- Triple stores are collections of triples
- If you've ever diagrammed sentences in English class, the subject → predicate → object structure may be familiar. In the sentence "John plays baseball," "John" is the subject, "plays" is the predicate, and "baseball" is the object

In a library metadata example, "Mark Twain" is the subject, "is author of" is the predicate, and "The adventures of Huckleberry Finn" is the object.



In real life, there's more to it. Each part of the triple would be associated with a URI (Uniform Resource Identifier. "Mark Twain" might be linked to an authority record; "is author of" might be linked to some standard list of relationships, and "The adventures of Huckleberry Finn" might be linked to a description of the work. For example: