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Theology Cataloging Bulletin (TCB), is a quarterly publication of the Technical Services Interest Group of ATLA and is published in November, February, May, and August. It contains information about new and changed Library of Congress Subject Headings (LCSH) and Library of Congress Classification (LCC) numbers compiled from the Library of Congress's monthly lists of newly approved additions, deletions, and changes in subject headings and classifications. Upcoming training opportunities, a bibliography of recently published articles, as well as other information of interest to religion/theology catalogers are also included.

Section one of each issue lists new and changed subject headings and section two lists new and changed classification. Both are selected and compiled by Ann Heinrichs (Catholic Theological Union, Chicago, Illinois). Section three includes the general information and is edited by Leslie Engelson (Murray State University, Murray, Kentucky).

Submissions for the newsletter should be sent to Leslie Engelson, Technical Services Librarian, Murray State University, 224G Waterfield Library, Murray, KY 42071; E-mail: leslie.engelson@gmail.com; Fax: 270-809-5612, Phone: 270-809-4818.

Deadlines for submission are January 15 (February issue), April 15 (May issue), and July 15 (August issue), October 15 (November issue).

Appropriate types of submissions: news of upcoming events; articles on technical services issues; reviews of publications; reports on committee work done on behalf of the Technical Services Section; opinions on cataloging policies and practices; bibliographies; cataloging cartoons and anecdotes; how-to and how-not-to advice; workshop reports; summaries of papers; questions and answers on topics of concern; local cataloging department news; evaluations of software, hardware, cataloging tools and products, Web sites, etc.

Unsigned contributions are supplied by the editor.

Subscription inquiries regarding *Theology Cataloging Bulletin* should be addressed to: ATTN: Member Representative, American Theological Library Association, 300 South Wacker Drive, Suite 2100, Chicago, IL 60606-6701 USA; Toll-free: 888.665.ATLA, Outside N. America: 312.454.5100, Fax: 312.454.5505, E-mail: MemberRep@atla.com.

The *Theology Cataloging Bulletin* is free to members of the American Theological Library Association, available on the ATLA website at: <http://www.atla.com/community>.

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Section One: New and Changed Subject Headings

The subject headings in this list were selected from the monthly Library of Congress Subject Headings (LCSH) Approved Lists. LC's Policy and Standards Division posts these lists on the Library of Congress Cataloging and Acquisitions web site at: <http://www.loc.gov/aba/cataloging/subject/weeklylists/>.

The headings listed here reflect the most recent information available at the time of publication. Headings in this issue's list were selected from 2015 LCSH list numbers 5 (May 18) and 6 (June 15). New genre/form terms were selected from list numbers 14 (February 2) and 15 (March 2).

Note that the LC-PSD has been developing a list of genre/form terms in the field of religion, to be approved on September 8, 2015. You can view the tentative list at <http://classificationweb.net/tentative-subjects/1518.html>.

The following conventions are used, as in previous lists:

Subject headings are in alphabetical order. Those **without** the instruction [May Subd Geog] are **not** to be further divided by place. The number in square brackets is the Library of Congress Control Number (LCCN) for that heading's authority record (not the ARN/Authority Record Number).

All lines begin with their MARC tag. Most headings are followed by other MARC fields in the authority record (e.g., 450, 550), along with explanatory abbreviations:

UF = Used For
BT = Broader Term
RT = Related Term
SA = See Also

Relevant changes to free-floating subdivisions and genre/form terms, if any, are at the end of the list.

Submitted by
Ann Heinrichs
Metadata/Cataloging Librarian
The Paul Bechtold Library
Catholic Theological Union
5401 S. Cornell Ave.
Chicago, IL 60615
ahenrichs@ctu.edu
773-371-5462

- 150 Christian humanism [May Subd Geog] [sp2015000626]
 550 BT Humanism
 680 Here are entered works on a branch of Renaissance humanism that advocated a combination of classical, biblical, and patristic learning as the foundation for renewal of theology, piety, and public morality. Works on the relationship between Christianity and a religious humanism movement within American Unitarianism are entered under Christianity and religious humanism.
 681 Note under Christianity and religious humanism
- 150 Christian literature, Romance CHANGE HEADING
- 150 Christian literature, Romance-language [May Subd Geog] [sp 85025126]
 450 UF Christian literature, Romance [Former heading]
 450 UF Romance-language Christian literature
 550 BT Romance-language literature
- 150 Christianity and religious humanism [sp 85025287]
 680 Here are entered works on the relationship between Christianity and a religious humanism movement within American Unitarianism. Works on a branch of Renaissance humanism that advocated a combination of classical, biblical, and patristic learning as the foundation for renewal of theology, piety, and public morality are entered under Christian humanism. ADD FIELD
 681 Note under Christian humanism ADD FIELD
- 150 Copts [May Subd Geog] [sp 85032431]
 450 UF Copts--Egypt ADD FIELD
- 150 Crusades and art [May Subd Geog] [sp2015001054]
 450 UF Art and the Crusades
 550 BT Art
- 150 Fasts and feasts--Neopaganism [sp2015000818]
- 150 Fines (Penalties) (Jewish law) [sp2015000760]
 550 BT Jewish law
- 150 Hermetism in motion pictures [Not Subd Geog] [sp2014002154]
 550 BT Motion pictures
- 150 Jesuit universities and colleges [May Subd Geog] [sp2015000012]
 450 UF Jesuit Catholic universities and colleges
 550 BT Catholic universities and colleges
- 150 Jewish law teachers [May Subd Geog] [sp2015000886]
 550 BT Law teachers
- 100 Mary, Blessed Virgin, Saint--Apparitions and miracles--Colombia [sp2015000536]
- 100 Mary, Blessed Virgin, Saint--Apparitions and miracles--Peru [sp2015000535]
- 150 Mind and body--Religious aspects [sp2015000858]
 053 BL65.M56

- 150 Mind and body--Religious aspects--Buddhism, [Christianity, etc.] [sp2015000857]
- 150 Muslim religious leaders [May Subd Geog] [sp2015000835]
 450 UF Islamic religious leaders
 550 BT Religious leaders
- 150 Persephone (Greek deity) CANCEL HEADING [sp 85100056]
 682 This authority record has been deleted because the subject heading is covered by an identical name heading (DLC)no2014090208
- 150 Persephone (Greek deity) in literature CANCEL HEADING [sp 94007744]
 682 This authority record has been deleted because the heading is replaced by the heading Persephone (Greek deity)--In literature, a heading for which a subject authority is not made because it uses a free-floating combination.
- 150 Refusal to treat--Moral and ethical aspects [May Subd Geog] [sp2015001047]
 450 UF Conscientious objection (Medical ethics)
 550 BT Medical ethics

Section Two: LC Classification Additions and Changes, B-BX

The entries in this list were selected from the monthly Library of Congress Classification (LCC) Approved Lists. LC's Policy and Standards Division posts these lists on the Library of Congress Cataloging and Acquisitions web site at: <http://www.loc.gov/aba/cataloging/classification/weeklylists/>.

Items listed here reflect the most recent information available at the time of publication. Entries in this issue's list were selected from 2015 LCC list numbers 4 (April 20), 5 (May 18), and 6 (June 16).

The full hierarchy is provided for new and revised classification captions to show their context within the classification. Numbers that appear in square brackets are not displayed in Classification Web browse screens. They are shown on this list only to indicate the location of the corresponding caption or reference within the classification.

The class letters (B, BS, etc.) identify the schedule in which changes and additions have been made. This list also includes selected changes and additions outside the B-BX classes relating to religious topics or library science.

Please send comments, suggestions, or corrections to me at:

Submitted by
Ann Heinrichs
Metadata/Cataloging Librarian
The Paul Bechtold Library
Catholic Theological Union
5401 S. Cornell Ave.
Chicago, IL 60615
ahenrichs@ctu.edu
773-371-5462

Class BJ

Ethics
Special topics
Other special topics in ethics, A-Z
Transgression
BJ1500.T73

Class B

Philosophy (General)
Ancient (600 B.C.-430 A.D.)
Occident
Greece
By period
Second period
Individual philosophers
Socrates
Special topics, A-Z
Soul
B318.S7

Class BJ

Ethics
Religious ethics
Christian ethics
Special, A-Z
Emotions
BJ1278.E56

Class BL

Religions. Mythology. Rationalism
Religion
Religion in relation to other subjects, A-Z
Mind and body
BL65.M56
History and principles of religion
European. Occidental
Classical religion and mythology
Roman
Special topics, A-Z
Priests
Cf. BL815.W66 Women priests
Women priests
[BL815.P7]
BL815.W66

Asian. Oriental
By religion
Hinduism
Sacred books. Sources
Tantric texts. Śaiva Āgamas. Vaiṣṇava saṃhitās
Pāñcarātra
Individual saṃhitās. By title, A-Z
Bhārgavatantra TABLE BL3
BL1141.8.B43-.B439

By region or country
India

- BL2015.S53 Special topics, A-Z
Shamanism
- Class BM**
- Judaism
History
By period
1500-
Specific movements, sects, etc.
Hasidism. Hasidim. חסידים
By sect
Other sects, A-Z
- BM198.56.T67 Tosh
- Sources
Rabbinical literature
Special topics, A-Z
- BM496.9.D76 Droughts
- Relation of Judaism to special subject fields
Other, A-Z
- BM538.B74 Breastfeeding
- Class BP**
- Islam. Bahai Faith. Theosophy, etc.
- Islam
Sacred books
Qur'an. Koran
Works about the Qur'an
Special topics, A-Z
- BP134.F27 Fantastic, The
BP134.S49 Sex role
- Sacred books
Hadith literature. Traditions. Sunna. فنس. شريعة
Special topics, A-Z
- BP135.8.M37 Marriage
- Topics (not otherwise provided for), A-Z
Elections
Thought and thinking
- BP190.5.E44
BP190.5.T52
- Islam. Bahai Faith. Theosophy, etc.
Other beliefs and movements
Works. By movement, A-Z
- BP605.D66 Dong fang shan dian (Organization)
- Class BQ**
- Buddhism
Doctrinal and systematic Buddhism

BQ4570.A52 Special topics (nondoctrinal) and relations to special subjects, A-Z
BQ4570.F53 Anger
Firearms

Class BR

Christianity
Collected works
Early Christian literature to ca. 600. Fathers of the Church, etc.
Individual authors
BR65.E68-.E686 Eugippius TABLE BR1

History
By period
Modern period
Reformation and Counter-Reformation, 1517-1648
Biography
Individual
Luther, Martin, 1483-1546
Luther's theology
BR333.5.S55 Special topics, A-Z
Sin

Class BS

The Bible
General
Texts and versions
Modern texts and versions
Non-European languages
Asian languages, A-Z
BS315.U93 Uzbek TABLE BS5

Languages of Oceania and Australasia (Austronesian, Papuan,
and Australian), A-Z
BS335.S42 Sangil TABLE BS5
BS335.T19 Tagakaolo TABLE BS5

Old Testament
Works about the Old Testament
Topics (not otherwise provided for), A-Z
BS1199.R54 Righteousness

New Testament
Texts and versions
Modern texts and versions of the New Testament
English
English versions
Other versions and revisions, A-Z
BS2095.V65-.V652 Voice TABLE BS2

Class BX

Christian denominations

- Catholic Church
 Theology. Doctrine. Dogmatics
 Collections of doctrinal decisions, opinions, sources, etc. e.g.
 Enchiridion symbolorum (Denzinger). By date
- BX1747.5
 BX1747.5.E63
- General works
 Early through 1800
 The great medieval theologians to the Council of Trent or circa
 1550
 Individual theologians, A-Z
 Denzinger, Heinrich, 1819-1883
 For enchiridion symbolorum see BX1747.5.E63
- BX1749.D4
 [BX1749.D4]
- Monasticism. Religious orders
 Individual orders of men
 Canons Regular of St. Anthony of Vienne TABLE BX18
- BX3097
- Individual orders of women
 Suore di San Giuseppe Benedetto Cottolengo TABLE BX18
- BX4537.45
- Other Protestant denominations
 Baptists
 Individual branches, conventions, associations, etc.
 Ebenezer Baptist Association (Va.) TABLE BX25
- BX6359.784-.7848
- Mormons. Church of Jesus Christ of Latter-Day Saints
 Special topics
 Other, A-Z
 Emotions
- BX8643.E46
- BX9253
 Protestantse Kerk in Indonesië TABLE BX3
 Formerly Protestantsche Kerk in Nederlandsch-Indië
- Class KBP**
- Islamic law. Sharī‘ah. Fiqh. مقف. ةعيرش
 Schools of thought. Islamic legal schools. Madhāhib. بءام
 Schools and authors affiliated with a particular school
 Shī‘ī schools. Shī‘ah. ةعيش
 Zaydī. Zaydiyyah. ةيديز. يديز
 Individual authors, A-Z
 Mu‘ayyidī, Majd al-Dīn ibn Muḥammad ibn Mansūr.
 روصنم نب دمحم نب نيدلا دجم، يديؤملا
 TABLE K4
- KBP380.M84
- Furū‘ al-fiqh. Substantive law. Branches of law. مقفلا عورف
 Mu‘āmalāt. تالماعم
 Obligations. Dhimmah. Contracts and transactions. قمذ
 Individual contracts and transactions
 Contract for work and labor
 Particular contracts or tasks, A-Z
 Agricultural contracts
- KBP893.3.A47

Class KBR

History of canon law
Sources
Collections. Compilations. Selections
Canonical collections of councils and synods
Councils (Concilia) and synods from the 4th century to 1054
(Great Schism)
Ecumenical or general councils
Lateran Council, 649 TABLE KB9

KBR232

Class ML

Religious aspects of music
Individual religions and denominations
Christianity
By denomination, A-Z
Pentecostal churches

ML3921.4.P46

Class PJ

Oriental philology and literature
Hebrew
Literature
Literary history and criticism
History
Special aspects and topics
Treatment of special subjects, A-Z
Kibbutzim

PJ5012.K53

Class PN

Drama
Motion pictures
Other special topics, A-Z
Mary, Blessed Virgin, Saint

PN1995.9.M334

Class PQ

French literature
Literary history and criticism
History of French literature
Special subjects, classes, etc., not limited to one period or form A - N
Hell
Special persons or characters, A-Z
Mary, Blessed Virgin, Saint

PQ145.1.H39

PQ145.9.M37

Section Three: News and Views (of the ATLA Technical Services Section)

ATLA NACO AND CONSER NEWS

Best Practices Taskforce

The Best Practices Taskforce, composed of representatives from ATLA, the Catholic Library Association, and the Association of Christian Librarians, created and critiqued two documents which are now ready for a broader critique by interested members of the three associations.

To this end, the proposed *Best Practices for Authority Records in the Field of Religion* and the *Thesaurus of Religious Occupational Terms (TROT)* are posted on the Technical Services Interest Group page on the ATLA website and ready for your perusal.

This fall, the Taskforce plans to post these documents publicly and announce their availability on the PCC discussion list. In addition, the *Thesaurus* will be submitted to the LC Network Development and MARC Standards Office as an official standard with the acronym, TROT. If accepted, the terms will be available for use in the 374 (occupation) field of personal authority records with the addition of \$2 trot.

Please participate in this critique, since the documents will only be as useful as you make them. NACO members are encouraged to follow the *Best Practices* guidelines see if the terms you would like to use in the 374 field are available in the *Thesaurus*. If the terms you would like to use are not available, please propose them.

Please send all suggestions and criticisms to Judy Knop at jknop@atla.com.

New Demographic Group Terms and Code List

Demographic terms are being developed for use in the newly added 385 (audience characteristics) and 386 (creator/contributor characteristics) fields, in both bibliographic and authority records, by LC's Policy and Standards Division. The code to be used is \$2 lcdgt (*Library of Congress Demographic Genre Terms*). The terms will be used in bibliographic and authority records to document characteristics of the intended audience of the work as well as the characteristics of the creator or contributor of the.

Decisions on the extent of granularity are still being debated. Here is an example of two possible levels of granularity for the same work: A book for children learning German, written by a German woman.

385 \$a English speakers \$a Children \$2 lcdgt
386 \$a Germans \$a Women \$2 lcdgt

Or

385 \$n lan \$a English speakers \$2 lcdgt
385 \$n age \$a Children \$2 lcdgt
386 \$n nat \$a Germans \$2 lcdgt
386 \$n gdr \$a Women \$2 lcdgt
386 \$n age \$a Adults \$2 lcdgt

Phase 3B Changes to the Name Authority File

Sometime before October 1, 2015, LC will perform the proposed Phase 3B changes to convert the Name Authority File to align with RDA. Because there are no changes to the 1XX field included in this Phase, LC will make all the changes at once in what they are calling a "slam." For at least one week, the LC/NAF will become "read only" while the changes are being made.

NOTE: OCLC plans to delete all name authority records saved in the online save file, whether or not they are locked, before this work begins. Heed the announcement and complete or move all authority records to the offline save file when the announcement is made.

Major changes to the database in Phase 3B are:

- Recode all records to RDA if the 1XX contains no non-RDA elements (i.e., those records with no 667 THIS RECORD CANNOT BE USED ...)
- Add 024 ISNI numbers where available. ISNI is the International Standard Name Identifier, developed to be database independent, on par with ISSN and ISBN.
- Evaluate 370 for conversion to NAF/LCSH form with \$2 code.
- Generate 046 coded dates from 670 and 1XX.
- Reformulate all 046 dates from yyymmdd to yyyy-mm-dd \$2 edtf.
- Following Phase 3B "slam" all dates will be entered in the form with hyphens and \$2 edtf.
- Addition of 368 \$c and \$d, 370, 371, 372, 373, 374, and 375 fields where possible from information found in 670s and 1XX.
- Addition of qualifiers to 4XX fields consisting only of initials, initialisms, or acronyms.

Following the Phase 3B "slam," all 046 codes \$s and \$t found in corporate, conference, and geographic name records will be changed to \$q and \$r, defined as beginning and ending dates. This will allow for \$s and \$t in all types of records to be defined as activity dates.

Do not use the new 046 format for dates, or \$q and \$r until the changes have been made to the authority file and until PCC announces that they are ready for use.

Submitted by
Judy Knop, Member Programs Librarian, NACO/CONSER Funnel Coordinator
American Theological Library Association

LC GENRE/FORM TERMS FOR RELIGIOUS MATERIAL PROJECT

On June 23, 2015, Janis Young of the Policy and Standards Division of the Library of Congress announced the following:

"Since early 2007, the Library of Congress has been developing *Library of Congress Genre/Form Terms for Library and Archival Materials (LCGFT)*, whose terms describe what something is rather than what it is about, as subject headings do. In September 2015 the Policy and Standards Division (PSD) will approve approximately 40 genre/form terms for religious materials.

The terms appear on Tentative List 1518 (<http://classificationweb.net/tentative-subjects/1518.html>), to be approved on September 8, 2015. PSD is requesting comments on the terms from the library community; please email Janis L. Young at jayo@loc.gov through August 31, 2015.

The religion genre/form project is a collaboration between PSD and the American Theological Library Association, which coordinated with the Association of Jewish Libraries, the Catholic Library Association, and the Council

on East Asian Libraries. PSD thanks all those who worked to develop the list of terms, which includes terms pertinent to several religious traditions.

Following standard policy, LC catalogers and members of the Subject Authority Cooperative (SACO) program will be able to propose additional genre/form terms for religious materials as well as revisions to existing terms. PSD will separately announce the date on which it will begin to accept proposals for new and revised genre/form terms for religious materials.

LC subject headings that are analogous to genre/form terms for literary works will remain valid because the subject headings should continue to be assigned to works about the materials. Catalogers should continue to assign subject headings to religious materials according to the principles and guidelines contained in the Subject Headings Manual (SHM).

The Library of Congress' Acquisitions and Bibliographic Access directorate, which catalogs most of the religious materials acquired for the Library's general collections, has not yet determined its schedule for implementing the genre/form terms for literary works. The date will be announced when it is available."

Submitted by
Erica Treesh, Database Manager for Religion Complete (*ATLA RDB*®)
American Theological Library Association

PROFESSIONAL DEVELOPMENT OPPORTUNITIES

Mastering Excel PivotTables: How to Crunch Numbers Like an Expert American Management Association

Discover how to use the Excel PivotTable to quickly analyze usage and cost data, determine duplicates, and sort data without the need for formulas.

September 3, 2015

\$149

<http://www.amanet.org/training/webcasts/Mastering-Excel-Pivot-Tables.aspx>

Caring for Collections: Preservation of Rare and Unusual Materials Online Course via Library Juice Academy

This course covers basic principles of preventive care including environmental conditions, storage, and handling to extend the life of the materials. Developing a disaster response plan will also be addressed.

September 7-October 2, 2015

\$175

<http://libraryjuiceacademy.com/107-caring-collections.php>

Growing Through Conflict: Healthy Workplace Communication OCLC WebJunction

This webinar will explore ways to use healthy communication skills to address conflict and proactively contribute to a happier workplace.

September 10, 2015

Free

<http://www.webjunction.org/events/webjunction/growing-through-conflict.html>

Original Cataloging of Videos and DVDs using RDA MCLS

Learn about the MARC fixed and variable fields and relationships among these fields, as well as other issues relating to videos and DVDs. This workshop will also cover assigning LCSH. A booklet will be provided that includes RDA rules combined with MARC coding information.

September 23-25, 2015

\$99-\$349

https://mcls.org/training-events/training-events-list/training-event/?ref_cid=198&bid=0&dd_asId=1569

Project Management for the Accidental Project Manager--A Basic "How-to" Approach

American Management Association

Outlines a recipe for initiating, planning, and managing projects. Includes access to software to help implement what is discussed in the webinar.

October 27, 2015

\$149

Track Your Activity with OCLC Usage Statistics

Nebraska Library Commission

Learn how to use the updated and enhanced interface to analyze and interpret your library's OCLC usage patterns.

Recorded Online Session

Free

Submitted by

Leslie Engelson, Metadata Librarian

Waterfield Library, Murray State University

SELECTED ARTICLES FROM CURRENT LIBRARY JOURNALS

Albee, Barbara. "Education for Technical Services Librarians: Courses Taught at Accredited Library and Information Science Degree Programs." *Technical Services Quarterly* 32, no. 2 (April 2015): 123-140.

Bauder, Julia and Emma Lange. "Exploratory Subject Searching in Library Catalogs: Reclaiming the Vision." *Information Technology and Libraries* 34, no. 2 (June 2015): 92-102. <http://ejournals.bc.edu/ojs/index.php/ital/article/view/5888>

Breeding, Marshall. "Library Services Platforms." *Library Technology Reports* 51, no. 4 (May 2015): 5-38. <http://journals.ala.org/ltr/issue/viewIssue/509/259>

Clarke, Rachel Ivy. "Breaking Records: The History of Bibliographic Records and Their Influence in Conceptualizing Bibliographic Data." *Cataloging & Classification Quarterly* 53, no. 3/4 (April 2015): 286-302.

Doherty, Brian, and Alison Piper. "Creating a New Organizational Structure for a Small Academic Library: The Merging of Technical Services and Access Services." *Technical Services Quarterly* 32, no. 2 (April 2015): 160-172.

"Let's Get Technical -- Working Together to Move Titles to Off-Site Storage." *Against The Grain* 27, no. 2 (April 2015): 76-77.

Middleton, Cedar C., Jason W. Dean, and Mary A. Gilbertson. "A Process for the Original Cataloging of Theses and Dissertations." *Cataloging & Classification Quarterly* 53, no. 2 (February 2015): 234-246.

Papadakis, Ioannis, Konstantinos Kyprianos, and Michalis Stefanidakis. "Linked Data URIs and Libraries: The Story So Far." *D-Lib Magazine* 21, no. 5/6 (May 2015): 5. <http://www.dlib.org/dlib/may15/papadakis/05papadakis.html>

Seeman, Dean, and Lisa Goddard. "Preparing the Way: Creating Future Compatible Cataloging Data in a Transitional Environment." *Cataloging & Classification Quarterly* 53, no. 3/4 (April 2015): 331-340.

Tharani, Karim. "Linked Data in Libraries: A Case Study of Harvesting and Sharing Bibliographic Metadata with BIBFRAME." *Information Technology & Libraries* 34, no. 1 (March 2015): 5-19. <http://ejournals.bc.edu/ojs/index.php/ital/article/view/5664>

Thompson, Kelly J. "What If I Break It?" Project Management for Intergenerational Library Teams Creating Non-MARC Metadata." *Code4lib Journal* no. 28 (April 15, 2015): 1. <http://journal.code4lib.org/articles/10395>

Submitted by

Anna Appleman, Copy Cataloger

John Bulow Campbell Library, Columbia Theological Seminary

TESTIMONY

Linked Data: A Brief Introduction for Catalogers



Jonathan Edwards

Preacher

Jonathan Edwards was a Protestant preacher, philosopher, and theologian. Edwards "is widely acknowledged to be America's most important and original philosophical theologian," and one of America's greatest intellectuals. [Wikipedia](#)

Born: October 5, 1703, East Windsor

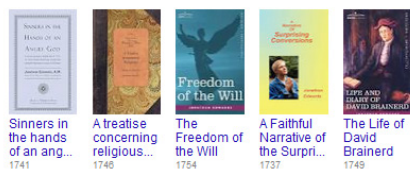
Died: March 22, 1758, Princeton, NJ

Spouse: Sarah Pierpont (m. 1727)

Buried: Princeton Cemetery, Princeton, NJ

Children: Esther Edwards Burr

Books



Try a Google search for Jonathan Edwards, and to the side you'll see information about his life and family, along with a display of books he wrote. If you click on one of the books, you may see a brief summary, a rating from Amazon or Goodreads, or links to web stores offering the book for sale, but as of this writing you won't see links to local libraries owning a copy. Why? Because our catalog records are still records, in MARC, two things that search engines such as Google and Bing can't understand. Search engines run on data, not records, and with more and more people beginning their research on Google, libraries need to make their catalog data findable on the Internet, or their catalogs will become obsolete.

Enter Linked Data.

That Google sidebar (called a knowledge card) doesn't come from an individual record that somebody created but instead pulls together pieces of data (such as personal names, birth dates and place names) that are linked together in ways that tells computers how each bit of data is related to another, so that a search engine knows that Jonathan Edwards isn't a text string but a person, a man born in East Windsor and buried in Princeton Cemetery. This is the general idea of Linked Data: bits of machine-readable data linked together to create meaning.

Here's how it works. Bits of data are identified by uniform resource identifiers (URIs) instead of text strings. This means, instead of identifying Jonathan Edwards with the text string **Edwards, Jonathan, 1703-1758**, as we currently do in a MARC 100 or 600 field, we would identify him with the URI <http://id.loc.gov/authorities/names/n79084179.html>, which is his unique identifier in the Linked Data version of the LC Name Authority File. This URI is then linked to the label **Edwards, Jonathan, 1703-1758**, marking it as LC's preferred label for Jonathan Edwards. In the Linked Data environment, that label can change multiple times, but the URI will remain the same. If somebody discovers that Edwards was born in 1702 instead of 1703, the label can be centrally updated to reflect that change, and library catalogs linking to that URI would receive an automatically updated label with no manual updating required.

Linked Data can be difficult to imagine in the abstract, so a great way to see it in action is via the [Reasonator](#), a tool that visualizes data from Wikidata (Wikipedia's Linked Data knowledge base). Try playing around with the page for [Jonathan Edwards](#), which currently displays birth and death dates, links to people that influenced his thought, and other data. You can find other people born in East Windsor, Conn., or others who died of the smallpox like Edwards did. These pages aren't crafted by hand, like individual catalog records, but are instead collocations of data pulled from various places in Wikidata. Nobody curated this data in advance, but Linked Data's flexibility allows for data curation on the fly, for applications that nobody had to think of in advance.

Thinking of cataloging in terms of linked data requires a paradigm shift. Put simply, catalogers are still creating digital catalog cards. We need to get past the idea of creating records and think in terms of creating pieces of data and linking them together in ways that can form "records" such as the ones in the Reasonator. This is where [BIBFRAME](#), the possible replacement for MARC, comes in. It remodels our catalog data, breaking up those digital catalog cards into pieces of data. While a full description of BIBFRAME is outside the scope of this article, a broad visualization of how it separates the data can help it seem less abstract. Below is a MARC record segment describing *A Treatise Concerning Religious Affections*. This is how we currently understand a description for a book: a page of data about a particular book.

100 10 \$a Edwards, Jonathan, \$d1703-1758
 245 12 \$a A Treatise concerning religious affections / \$c by Jonathan Edwards.
 260 0 \$a Glasgow : \$b Chalmers and Collins, \$c 1825.

Figure 2 shows the same data separated into pieces according to a simplified version of the Resource Description Framework (RDF), the data model underlying BIBFRAME. Some of the data chunks have URIs with them, providing them with unique identifiers that give them the potential to link to other data about the same entities. The URI for Jonathan Edwards links to his Virtual International Authority File (VIAF) page which links to a Wikidata page that contains additional data. The Glasgow URI links to the corresponding page on GeoNames, which states that Glasgow is a city in Scotland, with particular geographic coordinates. These external links not only make it possible to draw in supplementary data, but they also allow non-library sources to draw in our data, increasing visibility and usefulness.

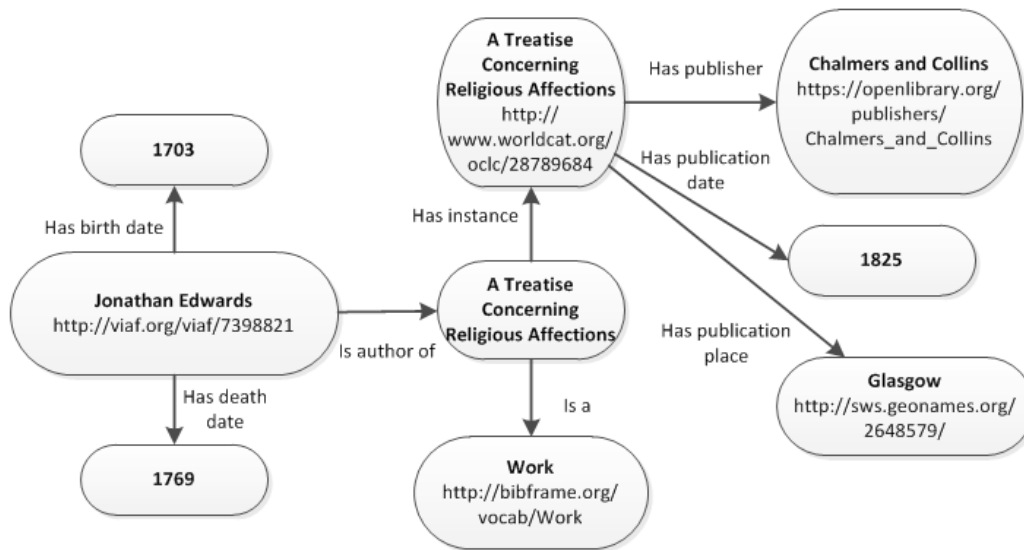


FIGURE 2: SIMPLIFIED RDF VISUALIZATION OF A TREATISE CONCERNING RELIGIOUS AFFECTIONS

Now what does this have to do with Google? BIBFRAME's RDF data model is a web standard that search engines can read. Those Google knowledge cards come from RDF data. Bibliographic information encoded in RDF plays nicely with web standards in a way that MARC records never will. As part of the BIBFRAME project, the team at Zepheira (the organization developing BIBFRAME) asked employees of Microsoft and Google why library resources don't appear in search engine results. The answer? They can't see us. They can't access our data, they can't read it, they can't harvest it.¹ To bridge this gap, a new project called the [Libhub Initiative](#) is gathering MARC records from participating libraries and converting them to BIBFRAME, then publishing them on the web to monitor their search engine visibility. Although still in its early stages, the project is already showing positive results for the early adopters.²

In addition to providing greater web visibility, catalog data as Linked Data offers other possibilities for use. A special collection of missions materials could be searchable via a map interface linked to the places described in the collection. A catalog linking bibliographic data to author data could allow a student to limit a search to commentaries written by Eastern Orthodox authors, without catalogers needing to specify an author's religious affiliation in a subject heading.

¹ Jeffrey Penka, *Linked Data and Why It Matters in the Library Community*. Vimeo video, 51:41, from a Zepheira webinar on June 2, 2015. <https://vimeo.com/130109172>.

² "Libhub Initiative Celebrates Founding 12 Library Partners at Early Adopter Summit," Zepheira.com, last modified May 18, 2015, <http://zepheira.com/news/pr20150527libhub-ea-summit/>.

A scholar could search for items written by Jonathan Edwards and others associated with the First Great Awakening without having to search for each individual separately. An authority record could automatically update without a cataloger needing to change a heading for every death date discovered.

Library Linked Data won't become widespread reality tomorrow. Experimentation is still ongoing. But, if we want our bibliographic descriptions to be more findable, more flexible, it's an idea we should embrace. We need to start putting our data where our users can find it.

For Further Learning

Linked Data for Libraries. YouTube video, 14:13, posted by "OCLCVideo" on August 9, 2012.

<https://youtu.be/fWfEYcnk8Z8>.

Linked Open Data - What is it? YouTube video, 3:42, posted by "EuropeanaEU's channel" on February 28, 2012.

<https://youtu.be/uju4wT9uBIA>.

Mitchell, Erik T., *Library Linked Data: Research and Adoption*. Chicago: ALATechSource, 2013.

Sporny, Manu, *What is Linked Data?* YouTube video, 12:09, posted on June 16, 2012.

https://youtu.be/4x_xzT5eF5Q.

Submitted by
Christa Strickler, Assistant Professor of Library Science
Buswell Memorial Library, Wheaton College