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Emily Feltren, Moderator
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Outline

- Introductions
- Project ONE and the Law Library of Congress
- Congress: Updating THOMAS in 2012
- Congress: What's Next?
- National Library: The Law Library Efforts
- National Library: LC Metadata
- Federal Inventory of Legal Materials
- Future Technologies: Linked Data
- Questions and Answers
Core Areas. The Library will be the “Go To” place on the Web for three core areas:

- **Congress**. We will be the trusted source of legislative information for the American people and the preferred information service for members of Congress. We will provide current and historical information about Congress, legislation, and the legislative process, as well as provide reliable and authoritative information for Congress.
Congress: Updating THOMAS in 2012

The LIBRARY of CONGRESS  THOMAS

THOMAS
In the spirit of Thomas Jefferson, legislative information from the Library of Congress

|| Legislation in Current Congress ||
Search Bill Summary & Status
- Word/Phrase  Bill Number
- Try the Advanced Search
- More Search Options

Browse bills by Sponsor
- Select a Representative
- Select a Senator
- More Browse Options

|| More Legislative Information ||
- Search Bill Text for Multiple Congresses
- Appropriations Bills
- Public Laws
- Roll Call votes
- Contact Members of Congress

|| Current Activity ||
- House Floor Hearings
- Senate Floor Hearings
- Passed Congress, Sent to President
- Yesterday in Congress
- Congressional Record Latest Daily Digest (1995-)
- Schedules, Calendars

|| Weekly Top Five ||
- H.R. 3605 [112th]
- H.R. 3261 [112th]
- H.R. 3523 [112th]
- H.R. 3591 [112th]
- S. 786 [109th]

View Top Ten

THOMASbloggov  #OnThisDay in 1789 the Senate elects a doorkeeper
senate.gov/artandhistory/...
Congress: Congressional Record App

• Available from the iTunes App Store: http://itunes.apple.com/us/app/the-congressional-record/id492077075
• Video introduction: http://youtu.be/EhkxDIr0y2U
  – But really: http://on.fb.me/CRiPadApp
• Features:
  – Works on iPad, iPhone, and iPod Touch
  – Search within issues
  – Share
  – Browse by date
The Congressional Record

Description

Read the daily edition of the Congressional Record on your iPad. The Congressional Record App is presented by the Library of Congress, using data provided by the Office of the Clerk of the U.S. House of Representatives, the Office of the Secretary of the Senate, and the Government Printing Office.

App Store > News > Library Of Congress

Category: News
Released: Jan 15, 2012
Version: 1.0
Size: 3.4 MB
Language: English
Seller: Library Of Congress
© United States Government Work

Rated 4-

Requirements: Compatible with iPad. Requires iOS 4.3 or later.

iPad Screenshots
Description

Read the daily edition of the Congressional Record on your iPad, iPhone or iPod touch. The Congressional Record App is presented by the Library of Congress using data provided by the Office of the Clerk of the U.S. House of Representatives, the Office of the Secretary of the Senate, and the Government Printing Office.

What's New in Version 1.5

- Support for iPhone and iPod touch devices
- Support for Retina displays
- Added ability to copy text from the Congressional Record

Screenshots

Congressional Record

Thursday, June 21, 2012

Vol. 158   No. 95

PROCEEDINGS AND DEBATES OF THE 112th CONGRESS

Daily Digest

Senate Section
Congress: House Committee Hearings

• Available at:  
  http://thomas.loc.gov/video/house-committee

• 22 pages for video

• Features:
  – Watch live
  – Watch archived
  – Tweeting hearings (#THOMASlive)
House Committee Live Streams

- The House Permanent Select Committee on Intelligence
- House Committee on Agriculture
- House Committee on Appropriations
- House Committee on Armed Services
- House Committee on Financial Services
- House Committee on the Budget
- House Committee on Education and the Workforce
- House Committee on Foreign Affairs
- House Committee on Oversight and Government Reform
- House Committee on House Administration
- House Committee on Homeland Security
- House Committee on Energy and Commerce
- House Committee on Natural Resources
- House Committee on the Judiciary
- House Committee on Transportation and Infrastructure
- House Committee on Rules
- House Committee on Small Business
- House Committee on Ethics
- House Committee on Science, Space, and Technology
- House Committee on Veterans' Affairs
- House Committee on Ways and Means
- Other Committees, Commissions, and Events
House Committee on Appropriations

USHR16 Appropriations Committee

Video streaming by Ustream

Use Restrictions and Privacy

USHR16 Appropriations Committee
Date Created: 2012-03-28 12:43:10
Length: 01:01:03

SHR16 Appropriations Committee
Date Created: 2012-03-28 10:43:09
Last Year’s Future Plans

• Why are we here?
  – We want feedback from law librarians
  – How can we make it better?
  – What would you like to see?

• Goal: new system in 2014
5.981 - A bill to amend the Internal Revenue Code of 1986 to provide a partial exclusion for capital gain from certain sales of real
Amends the Internal Revenue Code to exclude from gross income 50 percent of any gain from the sale or exchange of real property acquired by the taxpayer directly from the Federal Savings ...
Sponsor: Sen. Boschwitz, Rudy
Site: Thomas
Original Format: Legislation
Date: 1989

5.2270 - Bank Insurance Fund Rebate Act of 1998
Bank Insurance Fund Rebate Act of 1998 - Amends the Federal Deposit Insurance Act governing refunds of assessments imposed upon insured depository institutions to provide that a refund for any semiannual assessment ...
Sponsor: Sen. Faircloth, Lauch
Site: Thomas
Original Format: Legislation
Date: 1998

H.R.4881 - A bill to amend title XVIII of the Social Security Act with respect to coverage of optometrists' services and coverage of occupational therapy ...
Amends title XVIII (Medicare) of the Social Security Act to extend coverage to include the items and services which an optometrist is legally entitled to provide. Provides coverage, under part B (Supplementary ...
Congress: What’s Next?

- Beta release of website with enhanced search and browse capabilities
- Modern legislative information platform with ability to scale for mobile, position for the future
- Implement new information architecture
- New visual design
- Faceted, modern search across all system data
- Permanent URLs
DIGITIZING THE FUTURE

BRINGING THE LAWS TO YOU
Results

Refined by: Original Format: Legislation

1 - 20 of 267,137

Sort By: Relevance

H.R.3457 - Poultry Producers Financial Protection Act of 1987

(Measure passed House, amended) Poultry Producers Financial Protection Act of 1987 - Amends the Packers and Stockyards Act, 1921 to remove from marketing practices’ regulation under such Act: (1) poultry products; and...

Contributor: Stenholm, Charles W.
Site: Thomas-legislative
Original: Legislation
Format: [267,137]
Date: 1987-10-06

H.R.2003 - Fair Treatment for Precious Metals Investors Act

Fair Treatment for Precious Metals Investors Act - Amends the Internal Revenue Code to treat bullion (e.g., gold, silver, platinum, and palladium) as a long-term capital asset (currently, treated as a collectible), ...

Balanced Monetary Policy and Price Stability Act of 1992 - Amends the Federal Reserve Act to require the Board of Governors and the Federal Open Market Committee of the Federal Reserve System ...

Contributor: Kemp, Jack
Site: Thomas-legislative
Original: Legislation
Format:
Date: 1992-09-29

S.1834 - Affordable Housing Preservation Act of 2005

Affordable Housing Preservation Act of 2005 - Directs the Secretary of Housing and Urban Development (HUD) to make grants to states (40%) and localities (60%) for the preservation and promotion of low-income ...

Contributor: Jeffords, James M.
Site: Thomas-legislative
Original: Legislation
Format:
Date: 2005-10-06

H.R.13444 - A bill to amend the Great Lakes Pilotage Act of 1960 to limit the liability of U.S. registered pilots so as to provide ...

Amends the Great Lakes Pilotage Act of 1960 to provide that no United States registered pilot or authorized Association of United States Registered Pilots shall be liable for damages of more than ...

Contributor: Oberstar, James L.
Site: Thomas-legislative
Original: Legislation
National Library: Law Library Efforts

• Transformed website to modern wider template
• Updating metadata throughout
• Replaced the search with a modern faceted one that utilizes the new metadata
National Library: LC Metadata

- HTML Title (Required)
- HTML Description (Required)
- DC Type (MODS) (Required)
- DC Title (Optional)
- DC Rights (Required if known)
- DC Contributor/Creator (Required if known)
- DC Subject (Required if known)
- DC Coverage Spatial (Required if known)
- DC Coverage Temporal (Required if known)
- DC isPartOf (Optional)
- DC Date (Optional)
- DC Identifier (Required if known)
- DC Language (Required if known)
- Image and Media References (Optional)
- Canonical URL (Optional)
- Alternate URL (Optional)
Federal Inventory of Legal Materials

Emily Feltren
AALL Director of Government Relations
State Inventories

• Cover all 3 levels of government
  • State
  • County
  • Municipal

• 350 + AALL and chapter volunteers

• 7,000 + titles
Federal Inventory
What are we looking for?
• Legal research materials
  – Authored or created by federal agencies
  – Publicly accessible
• Executive Branch
  – Dept of Agriculture decisions
  – Dept of Energy directives
  – Federal Aviation regulations
• Judicial Branch
  – Court opinions and court rules

• Legislative Branch
  – Statutes
  – U.S. Code
Who’s contributing?
• Federal librarians and interns
• Other interested AALL members
• You!
Agencies covered so far

- DOI
- FCC
- FDIC
- DOJ
- SEC
- State
Levels of Participation

Level 1

• Submit a list of agency legal titles

Level 2

• Fill out answer inventory questions related to scope, official status, permanent public access, preservation, etc
We need your help!

• To volunteer, contact Elizabeth Holland, eholland@aall.org
Future Technologies: Linked Data

• What is Linked Data?
• Why Linked Data?
• Uniform Resource Identifiers (URIs)
• Classification as Linked Data
• Examples
What is Linked Data?

• Platform independent way to create relationships between data (not just documents) on the Web

• Eric Miller, co-founder and president of Zepheira, likens Linked Data to legos – the pieces are interchangeable and you can combine them in new and exciting ways

• Our legos are Uniform Resource Identifiers (URIs) and the Resource Description Framework (RDF)
Why Linked Data?

- Machine readable
- Increased interoperability
- Increased transparency
- Better discoverability
- Link concepts between languages
- Disambiguation of terms and concepts
- Allows others to curate/enhance data
The Rules: 5 Star Linked Data

Proposed by Tim Berners-Lee in 2006:
http://www.w3.org/DesignIssues/LinkedData.html

Diagram from: http://inkdroid.org/journal/2010/06/04/the-5-stars-of-open-linked-data/
Uniform Resource Identifiers (URIs)

- URIs can represent any entity or concept
- When organizations use the same URIs, they are able to link their resources together
- Linking will increase the value of the URIs and build a web of data
Examples of URIs

- URIs are all around you:
  - Uniform Resource Locator (URL):
    http://www.loc.gov/
  - Uniform Resource Number (URN):
    urn:isbn:0393045633
  - Digital Object Identifier (DOI):
    doi:10.1371/journal.pone.0038869
  - Geo URI: geo:38.887809,-77.004569
Simplified Example

Privacy (in English)
is the same as
Vie privée (in French)

http://id.loc.gov/authorities/subjects/sh85107027
sameAs
http://data.bnf.fr/11968722/vie_privee/
Semantic web for the working ontologist: modeling in RDF, RDFS and OWL

The Semantic Web is a web infrastructure for integrating and combining data drawn from diverse sources. The authors' approach to building Semantic Web systems treats the modeling of the Semantic Web like a programming activity.

Table of contents:
- What is the semantic web?
- Semantic modeling
- RDF: the basis of the semantic web
- Semantic web application architecture
- RDF and inferences
- RDF schema
- RDFS-plus
- Using RDFS-plus in the wild
- Basic OWL
- Counting and sets in OWL
- Using OWL in the wild
- Good and bad modeling practices
- OWL levels and axioms

People

Dean Allemang
Dean Allemang is a computer scientist known for his work on the semantic web. He is the Chief Scientist of TopQuadrant, a Semantic Web company.
Wikipedia page for Dean Allemang
http://dallamang.typepad.com/

James Hendler
James Hendler (born April 2, 1957) is an artificial intelligence researcher at Rensselaer Polytechnic Institute, USA, and one of the originators of the Semantic Web.
Classification as Linked Data

• Make Class K (Law) available through Library of Congress Linked Data Service (http://id.loc.gov)

• Use within Law.gov
  – browsing tool
  – identify like materials
  – demonstrate relationships (broader, narrower, etc.)
Linked Data Classification at LC

• Classification as Linked Data in beta release on http://id.loc.gov

• Classes B (Philosophy, Psychology, and Religion), M (Music), N (Fine Arts), and Z (Bibliography, Library Science, and Information Resources)

LC Linked Data Service
Authorities and Vocabularies

Search

michelangelo
Hold CONTROL key for 2 or more

All
LC Subject Headings
LC Name Authority File
LC Classification
LC Children's Subject Headings

**Please Note: LC Classification entries are not included in general search results. You must explicitly select LC Classification in order to search this scheme. This is temporary while the impact of adding LCC to the current system is better understood.

Search  Reset

Available Datasets
The Linked Data Service provides access to commonly found standards and vocabularies promulgated by the Library of Congress. This includes data values and the controlled vocabularies that house them. The following are currently offered as part of this service:

- LC Subject Headings
- LC Name Authority File
- LC Classification
- LC Children's Subject Headings
- LC Genre/Form Terms
- Thesaurus for Graphic Materials
- MARC Relators
- MARC Countries
- MARC Geographic Areas
- MARC Languages
- ISO639-1 Languages
- ISO639-2 Languages
- ISO639-5 Languages
## Search Results

Do you need assistance with your search?

**Please Note**: LC Classification entries are not included in general search results. You must explicitly select LC Classification in order to search the scheme. This is temporary while the impact of adding LCC to the current system is better understood.

### Search

- Michelangelo

#### Search Field:
- All
- LC Subject Headings
- LC Name Authority File
- LC Classification
- LC Children’s Subject Headings

![Search Form](image)

**Search**

<table>
<thead>
<tr>
<th>Label</th>
<th>Vocabulary</th>
<th>Type</th>
<th>Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Buonarroti, Michelangelo, 1475-1564</td>
<td>LC Classification</td>
<td>Topic</td>
<td>NA1123.B9</td>
</tr>
<tr>
<td></td>
<td>Fina Arte--Architecture--History--Architecture of special countries--Europe--Italy--Special architects, A-Z--Buonarroti, Michelangelo, 1475-1564 ; Buonarroti, Michelangelo, 1475-1564--Architecture ; Michelangelo Buonarroti, 1475-1564--Architecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Buonarroti, Michelangelo, 1475-1564</td>
<td>LC Classification</td>
<td>Topic</td>
<td>NA2707.B78</td>
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<td>3. Buonarroti, Michelangelo, 1475-1564</td>
<td>LC Classification</td>
<td>Topic</td>
<td>NC257.B8</td>
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<td>Fina Arte--Drawing. Design. Illustration--History of drawing--Special regions or countries--Europe--Italy--Special artists, A-Z--Buonarroti, Michelangelo, 1475-1564 ; Buonarroti, Michelangelo, 1475-1564--Drawing ; Michelangelo Buonarroti, 1475-1564--Drawing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Buonarroti, Michelangelo, 1475-1564</td>
<td>LC Classification</td>
<td>Topic</td>
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<td>Fina Arte--Drawing. Design. Illustration--History of drawing--Special regions or countries--Europe--Italy--Special artists, A-Z--Buonarroti, Michelangelo, 1475-1564 ; Buonarroti, Michelangelo, 1475-1564--Drawing ; Michelangelo Buonarroti, 1475-1564--Drawing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Buonarroti, Michelangelo, 1475-1564

From Library of Congress Classification

Hierarchy

Fine Arts
  Painting
  History
    Special regions or countries
      Europe
        Italy
    Special artists, A-Z
      Buonarroti, Michelangelo, 1475-1564

URI(e)
  http://id.loc.gov/authorities/classification/N6623.B9

Instance Of
  LCC ClassNumber
  MADS/RDF Topic

Components
  Fine Arts
  Painting
  History
  Special regions or countries
Scheme Membership(s)

Library of Congress Classification

Codes

ND623.B9

Variants

Fine Arts--Painting--History--Special regions or countries--Europe--Italy--Special artists, A-Z--Buonarroti, Michelangelo, 1475-1564
Buonarroti, Michelangelo, 1475-1564--Painting
Michelangelo Buonarroti, 1475-1564--Painting

Broader Terms

Special artists, A-Z

Narrower Terms

Autobiography, By date
Biography and criticism
Individual works of art, Alphabetically by title of work of art and date
Letters, By date
Reproductions (Collections), By date
Speeches, essays, interviews, etc. of the artist, By date

Synthesized From Schedule

http://id.loc.gov/authorities/classification/f84127563

Use With Guide Table(s)

Table of Cutters for artists (first Cutter)
N6

Change Notes

1994-08-19: new

Alternate Formats

RDF/XML (MADS and SKOS)
N-Triples (MADS and SKOS)
JSON (MADS/RDF and SKOS/RDF)
MADS - RDF/XML
MADS - N-Triples
MADS/RDF - JSON
SKOS - RDF/XML
SKOS - N-Triples
SKOS - JSON
Ideas...?

• We would love to hear your ideas and comments
• Updates on the project will be posted to our social media sites:
  – Twitter: [@LawLibCongress](https://twitter.com/LawLibCongress)
Questions and Answers

• Julie Kimbrough  jlkimbro@email.unc.edu
• Emily Feltren  efeltren@aall.org
• David Mao  dmao@loc.gov
• Tina Gheen  tghe@loc.gov
• Andrew Weber  anwe@loc.gov