Bringing Indiana Libraries and their Collections to Wikidata

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August 21, 2018
Outline

- IUPUI’s Wikimedia activities
- Introduction to Wikidata
- **Activity 1** (User page & gadgets)
- External Tools: Visualization
- **Activity 2** (Descriptions)
- External Tools: Contributing
- *Lunch (UL 0110)*
- **Activity 3**: Contribute an item for an institution
- Wikidata Query Service
- **Activity 4**: Contribute an item for a person
What has IUPUI University done so far?

- Hosted Wiki related events (Wikipedia, Wikimedia Commons, Wikidata) to bring awareness and train library staff
  - Contributed entries for open access journals in Wikidata using the Mix-n-Match tool (254 items)
  - Contributed open citations to Wikipedia using the OAbot (343 citations)
  - Participated in the #1Lib1Ref campaign (33 citations)
  - Hosted Wikidata edit-a-thon focused on IUPUI women faculty members (744 edits)
  - Hosted Wikidata edit-a-thon focused on Women Creating Excellence at IUPUI (1046 edits, 15 items)
What are we working on?

• Adding links to IUPUI Digital Collections and Finding Aids for existing Wikipedia articles
• Creating items in Wikidata for creators of archival collections
• Creating items in Wikidata for women faculty members across all disciplines and their scholarship
Why Wikidata? Why in libraries?

Contributing to Wikidata aligns with our professional values and with our missions to serve our communities
- Data for and about our communities
- Stand up and be counted
- We own this
- Open linked data

Wikidata Query used to render maps

#Map of Libraries in Indiana
# Indiana libraries on a map (must have coordinates!)
#defaultView:Map
SELECT ?library ?coords ?libraryLabel
WHERE {
  SERVICE wikibase:label {
    bd:serviceParam wikibase:language "[AUTO_LANGUAGE],en". }
}
LIMIT 100
What are you getting out of this...

**Knowledge:**
- What is Wikidata?
- What is linked-data?
- How is data structured in Wikidata?
- How can this data be searched and used?
- What external tools can be used?

**Skills:**
- Create/edit a user page
- Edit existing Wikidata entries
- Contribute entries to Wikidata
- Provide sources for statements
Wikimedia Projects Edit Counter
What is Wikidata?

- Newest project of the Wikimedia Foundation
- Developed in 2012
- Sister project to Wikipedia
- Free knowledge base
- Stores structured linked open data
- Multilingual
- Centralized repository
- Read and edited by humans and machines
- Statements of facts
- Uses defined properties
Dante Alighieri (Italian: [ˈduːrante alˈːiːɡiːri], commonly known by his short name Dante Alighieri or simply as Dante (Italian: [ˈdɑnte]; /dɑntʃi/, UK also /dəntʃi/, -tʃi; c. 1265 – 1321), was a major Italian poet of the Late Middle Ages. His Divine Comedy, originally called Commedia (modern Italian: Commedia) and later christened Divina by Giovanni Boccaccio, is widely considered the most important poem of the Middle Ages and the greatest literary work in the Italian language.[1][2]
Wikidata helping other wiki projects

• Wikimedia Commons
  • Structured Data on Commons

• Wikipedia
  • Article Placeholder
  • Infoboxes
Infobox Example in Wikipedia + link to Wikidata
Wikidata in VIAF (Virtual International Authority File)
Activity
Create User Page

• Go to Wikidata: [www.wikidata.org](http://www.wikidata.org)
• Click on Log in on the top right-hand side and enter your credentials
• Click on your **username** (link in red) to start creating your page
• Once you are done entering info, **Save** the page
Enable Wikidata Gadgets

**DuplicateReferences** – Adds a link that allows you to copy references to be used on other statements for the same item (doesn’t always work well)

**Reasonator** – Adds a link to the Reasonator tool for every item

**Drag’n’drop** – Allows you drag and drop statements from Wikipedia

**currentDate** – Adds today’s date when using the property “retrieved”
Items & Properties

Item:
• Q number
• Anyone can create one
• “instance of” or “subclass of”

Property:
• P number
• Proposal process

IUPUI University Library (Item example)

<table>
<thead>
<tr>
<th>Item</th>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IUPUI University Library</td>
<td>instance of</td>
<td>academic library</td>
</tr>
<tr>
<td>Q5975426</td>
<td>P31</td>
<td>Q856234</td>
</tr>
</tbody>
</table>
Wikidata Data Model
Wikidata Item: IUPUI University Library
Tools for Displaying/Visualizing Wikidata’s Data
Reasonator: IUPUI University Library

Accessible at: https://tools.wmflabs.org/reasonator/
Scholia: IUPUI University Library Nearby Organizations

Accessible at: https://tools.wmflabs.org/scholia/

<table>
<thead>
<tr>
<th>Distance</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>IUPUI University Library</td>
</tr>
<tr>
<td>0.3989571806323374</td>
<td>Indiana University – Purdue University Indianapolis</td>
</tr>
<tr>
<td>0.699744911473043</td>
<td>Indiana University School of Dentistry</td>
</tr>
<tr>
<td>3.6465092984280814</td>
<td>Ivy Tech Community College, Central Indiana Region</td>
</tr>
<tr>
<td>5.28103759448873</td>
<td>Marian University</td>
</tr>
<tr>
<td>6.4846284300699715</td>
<td>Martin University</td>
</tr>
<tr>
<td>7.2341705695407725</td>
<td>Irwin Library</td>
</tr>
<tr>
<td>7.37694591167614</td>
<td>Butler University</td>
</tr>
<tr>
<td>7.594421033130868</td>
<td>Holcomb Observatory and Planetarium</td>
</tr>
<tr>
<td>7.719567327023322</td>
<td>University of Indianapolis</td>
</tr>
</tbody>
</table>

Edit on query.Wikidata.org

Showing 1 to 10 of 126 entries
IUPUI University Library (Q5975426)

IUPUI University Library is the university library of Indiana University–Purdue University Indianapolis. IUPUI is an urban campus of Indiana University and Purdue University in Indianapolis, Indiana. Indiana University is the managing partner. (from the English Wikipedia)

Employees and affiliated
Past and present employees, affiliated, and members
Show (10 ±) entries

<table>
<thead>
<tr>
<th>Works</th>
<th>Researcher</th>
<th>Description</th>
<th>Orcid</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>David W. Lewis</td>
<td>dean of IUPUI University Library</td>
<td>0000-0001-9711-5565</td>
</tr>
<tr>
<td>5</td>
<td>Jere D. Odell</td>
<td>scholarly communications librarian</td>
<td>0000-0001-5455-1471</td>
</tr>
<tr>
<td>4</td>
<td>Tina Baich</td>
<td>librarian</td>
<td>0000-0002-8046-2461</td>
</tr>
<tr>
<td>3</td>
<td>Heather Coates</td>
<td>librarian</td>
<td>0000-0003-4290-6997</td>
</tr>
<tr>
<td>1</td>
<td>Katharine Macy</td>
<td>librarian</td>
<td>0000-0002-6283-7143</td>
</tr>
<tr>
<td>1</td>
<td>Kristi L. Palmer</td>
<td>librarian</td>
<td>0000-0002-6873-1630</td>
</tr>
<tr>
<td>0</td>
<td>Kathleen Hanna</td>
<td>academic librarian</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>Sara Lowe</td>
<td>librarian</td>
<td>0000-0003-0706-6056</td>
</tr>
</tbody>
</table>

Edit on query.Wikidata.org

Showing 1 to 8 of 8 entries
<table>
<thead>
<tr>
<th>Publication date</th>
<th>Work</th>
<th>Researchers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-06-01</td>
<td>The Age Demographics of Librarians and the Organizational Challenge Facing Academic Libraries</td>
<td>David W. Lewis</td>
</tr>
<tr>
<td>2018-02-27</td>
<td>Funding community controlled open infrastructure for scholarly communication: The 2.5% commitment initiative</td>
<td>David W. Lewis</td>
</tr>
<tr>
<td>2018-02-16</td>
<td>From Wikidata to Scholia: creating structured linked data to generate scholarly profiles</td>
<td>Jere D. Odell</td>
</tr>
<tr>
<td>2018-01-01</td>
<td>Design Principles for Creating the Open Scholarly Commons from Elinor Ostrom</td>
<td>David W. Lewis</td>
</tr>
<tr>
<td>2017-09-11</td>
<td>The 2.5% Commitment</td>
<td>David W. Lewis</td>
</tr>
<tr>
<td>2017-01-01</td>
<td>Faculty Attitudes toward Open Access and Scholarly Communications: Disciplinary Differences on an Urban and Health Science Campus</td>
<td>Kristi L. Palmer, Jere D. Odell</td>
</tr>
<tr>
<td>2016-12-15</td>
<td>Disadvantaged Youth in Southern Scotland Experience Greater Barriers to Information Access Resulting from Poor Technology Skills, Information Literacy, and Social Structures and Norms</td>
<td>Heather Coates</td>
</tr>
<tr>
<td>2016-10-27</td>
<td>Data information literacy instruction in Business and Public Health</td>
<td>Katharine Macy, Heather Coates</td>
</tr>
<tr>
<td>2016-06-20</td>
<td>Information Literacy Course Yields Mixed Effects on Undergraduate Acceptance of the University Library Portal</td>
<td>Heather Coates</td>
</tr>
<tr>
<td>2016-01-01</td>
<td>Reimaging the academic library</td>
<td>David W. Lewis</td>
</tr>
</tbody>
</table>

Edit on query: Wikidata.org

Showing 1 to 10 of 26 entries
Crotos

- Multilingual discovery interface for visual works
- Powered by Wikidata and Wikimedia Commons
- Accessible at: http://www.zone47.com/crotos/
Histropedia
• Accessible at: http://histropedia.com

Inventaire
• Accessible at: https://inventaire.io/welcome
Activity
Add Descriptions to Existing Items

- Follow the URL provided to access the file (Google Sheets)
- Choose an item from the list (copy it)
- Add your username next to it
- Go to Wikidata: [www.wikidata.org](http://www.wikidata.org)
- Paste the label in the Wikidata search box
- Click on **edit** on the top right-hand side
- Add a description in your preferred language
- Click on **publish**
Tools for Contributing Data to Wikidata
Source MetaData

- Searches bibliographic metadata based on identifiers (PMCID, PMID, or DOI)
- Pulls in data related to the item
- Accessible at: https://tools.wmflabs.org/sourcemd/

QuickStatements

- Executes automatic edits in Wikidata
- Accessible at: https://tools.wmflabs.org/quickstatements/
Mix-n-Match

• Use for matching external datasets to existing Wikidata items
• Accessible at: https://tools.wmflabs.org/mix-n-match/?#/n

Distributed Game

• Accessible at: https://tools.wmflabs.org/wikidata-game/distributed/
Mix-n-Match Datasets Example
Distributed Game Example
Lunch
Wikidata’s data in Library Catalogs

Laurentian University: https://laurentian.concat.ca/eg/opac/record/738234

University of Wisconsin-Madison Libraries:
https://search-id.library.wisc.edu/catalog/9910034010302121
Creating Item (institution)

- Follow the URL provided to access the file (Google Sheets)
- Use list of properties provided as reference
Querying and Downloading Wikidata’s Data
Wikidata Query Service

- SPARQL end point
- Searches Wikidata’s data
- Existing queries can be modified
- Results from the queries can be downloaded (JSON, CSV, TSV)
- Accessible at: https://query.wikidata.org/

Example:

- Alfred Hitchcock timeline
- Indiana Libraries
Creating Item (person)

- Follow the URL provided to access the file (Google Sheets)
- Use list of properties provided as reference
wikidata
the free wiki-like database

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