Dewey and FAST: foundations for conceptual entities

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OCLC’s work in linked data

Standards for linked data

Publishing library data as linked data

Experimenting with linked data in products and services

Productionizing linked data at scale

1995 2010 Today
WorldCat Entities

- Authority linked data entities
  - Person
  - Work
  - Place
  - Event
  - Concepts
WorldCat ontology

- OCLC is working with partner libraries to expand the data model based on library workflows and data needs
- Data model used to describe Authoritative entities in WorldCat Entities
Data to support libraries today

WorldCat® Entities

FAST Linked Data
FAST Authority File

Dewey® Services
Dewey

• Classification system used around the world in both public and academic library
• Built taxonomy – provides high levels of customization
• Translated into 7 languages: English, German, Arabic, French, Italian, Norwegian, and Swedish
• ~170M Dewey numbers in WorldCat
Structure of the taxonomy in WebDewey
Scope notes and Comments for the given heading
Relationships to other controlled vocabularies or classification systems
Dewey as linked data

• OCLC is working to publish Dewey as linked data
• Initial focus on ~28K Dewey headings that have been established in the WebDewey service
Dewey Diversity, Equity, and Inclusion (DEI)

• We are working with the community to understand and make editorial changes to Dewey to help resolve diversity, equity, and inclusion concerns.

• Dewey linked data work will develop a model for describing DEI concerns.

• ‘Removing “gender identity” from mental disorders’
  – More updates like this can be found on the Dewey blog.
FAST

• Faceted Access Subject Terminology
• Derived from Library of Congress vocabularies
• 1.8 Million terms in FAST
• 8 facets: Person, Corporate, Topical, Geographic, Meeting/Event, Form, Period, Title
FAST

• Benefits of FAST:
  – Faceted nature makes it easy to use in end-user navigation
  – Simple to learn and apply
<table>
<thead>
<tr>
<th>Heading</th>
<th>Facet</th>
<th>Uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohio--Columbus</td>
<td>geographic</td>
<td>12310</td>
</tr>
<tr>
<td>Ohio--Columbus Metropolitan Area</td>
<td>geographic</td>
<td>568</td>
</tr>
<tr>
<td>Ohio Penitentiary (Columbus, Ohio)</td>
<td>corporate</td>
<td>257</td>
</tr>
<tr>
<td>Columbus Museum of Art</td>
<td>corporate</td>
<td>181</td>
</tr>
<tr>
<td>Ohio--Columbus Region</td>
<td>geographic</td>
<td>128</td>
</tr>
<tr>
<td>Columbus Public School Systems (Ohio)</td>
<td>corporate</td>
<td>111</td>
</tr>
<tr>
<td>Ohio State University, College of Education</td>
<td>corporate</td>
<td>100</td>
</tr>
<tr>
<td>Ohio State Library</td>
<td>corporate</td>
<td>93</td>
</tr>
<tr>
<td>Ohio--Columbus--Franklinton</td>
<td>geographic</td>
<td>89</td>
</tr>
<tr>
<td>Capital University</td>
<td>corporate</td>
<td>74</td>
</tr>
</tbody>
</table>

Structure of FAST taxonomy in SearchFast
<table>
<thead>
<tr>
<th><strong>Ohio--Columbus</strong></th>
<th><strong>Find in WorldCat</strong></th>
</tr>
</thead>
</table>

**Used For:**
- Ohio--City of Columbus

**Usage:**
- LC (2022) Subject Usage: 379
- WC (2022) Subject Usage: 12,310

**Record ID:**
- fst01205076

**Sources and Other Links:**
- Columbus (Ohio)→[DLC]n 79049218
- Columbus--[http://www.geonames.org/4509177](http://www.geonames.org/4509177)
- Columbus (Ohio) https://viaf.org/viaf/151458957

**Links to Full Record:**
- Permanent Link: [http://id.worldcat.org/fast/1205076](http://id.worldcat.org/fast/1205076)
- MARC-21 record: [http://id.worldcat.org/fast/1205076.html](http://id.worldcat.org/fast/1205076.html)
- MARC-21 UTF-8 (raw data): [http://id.worldcat.org/fast/1205076.mrc](http://id.worldcat.org/fast/1205076.mrc)
- MARC-21 xml (raw data): [http://id.worldcat.org/fast/1205076.mrc.xml](http://id.worldcat.org/fast/1205076.mrc.xml)
- RDF record (raw data): [http://id.worldcat.org/fast/1205076.rdf.xml](http://id.worldcat.org/fast/1205076.rdf.xml)
FAST as linked data

- Faceted nature of the vocabulary makes it more suitable for linked data
  - Every term in FAST has a persistent URI
- Links to VIAF, LCSH, GeoNames, and WikiData
- Modeled in SKOS and Schema.org
FAST + Dewey

• FAST and Dewey will form the foundation for OCLC’s contextual entities in the linked data ecosystem
• Our Membership & Research colleagues are working on a project to map FAST and Dewey together
  – Facilitate classification > topical browsing and visa versa
  – 1 to many make the opportunity for deep knowledge browsing/searching