Exploiting DBPedia for use in Primo

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IGeLU 2011, Haifa, Linked data and ExLibris products
Motivation

More context!

for authors,
subjects,
locations
...

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Idea – enrichment with linked data sources

Enrichment:
- pipes
- just-in-time
The linked data approach (1)

Problem: no URIs

follow URIs

integrate data into Primo
The linked data approach (2)

request SPARQL service by using unique identifiers

integrate data into Primo
Identifier

- For the SPARQL approach
  - Unique identifiers!
  - Otherwise queries would be too expensive

- We have unique identifiers for german authority file (GND)
  - For persons (PND)
  - For subjects (SWD)
  - For institutional bodies (GKD)

- Wikipedia also uses PND!
- GND is also part of the VIAF project
Problems of the SPARQL approach

- Reliability
- Availability
- Performance
Our solution (1)

request local webservice by using AJAX requests

integrate JSON data into Primo
Our solution (2)
Further Steps

- Enrich wikipedia tab with image, categories, ...
- Improve performance of tab integration
- Use other linked data datasets
  - GND (German Authority File) for authors and subjects
  - Linked geo data for locations
  - Europeana
The best consuming approach

1. Use URIs
2. Use SPARQL Services / semantic indexes
3. Use Caching
(just in time) Enrichment Configuration in back office:

1. Location of SPARQL endpoints
2. SPARQL query to enrich one specific field of pnx record
3. Choose trustworthy sources/SPARQL endpoints with fixed fields in the PNX
4. Flexible display of results: table, map, graph

Use Case:

Weaving the web: the original design and ultimate destiny of the world wide web by its inventor

Berners-Lee, Tim Fischetti, Mark
New York, NY; Harper Business 2005
Suggestion 2

New search type:

federated, deep search, local, + LD search?

New harvesting type:

harvesting from SPARQL-Services
Thank you for your attention!

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