The Past, the Present and the Future of the Semantic Web and BIBFRAME in National Széchényi Library, Hungary

Miklós Hubay representative of the NSZL, Hungary PhD student





•Collection catalogue and Digital Library - RDFDC, FOAF, SKOS, BIBO + sameAs to DBPedia (April, 2010)

•Hungarian Electronic Library – with Flint SPARQL Editor (2015) http://v.mek.oszk.hu/FlintSparqlEditor/index-mek.html

•**Digital Archive of Pictures** – with Flint SPARQL Editor (2017) http://v.mek.oszk.hu/FlintSparqlEditor/index-dka.html



<	000/000002 /!!>			
- <rdf:description <="" http:="" p="" rdf:about="http://dka.oszk.hu/data/0000
<rdf:type rdf:resource=" www.openarchives.org=""></rdf:description>				
		- <rdf:description rdf:about="http://mek.</td><td>oszk.hu/data/00000/00003/#aggregation"></rdf:description>		
<or> Core:describes rdi:resource = http://dka.os2k.nu/000000/0000003/#aggregation /> </or>			- <dcterms:contributor rdf:parsetype="Resource"></dcterms:contributor>	
<dcterms:created>2007-08-22T16:30:30Z</dcterms:created>		<rd></rd> <rdfs:label>Szakács, Rudolfné</rdfs:label>		
- <dcterms:creator rdf:parsetype="Resource"></dcterms:creator>		- <foaf:person rdf:parsetype="Resource"></foaf:person>		
<foaf:page rdf:resource="http://dka.oszk.hu"></foaf:page>		<foaf:name xml:lang="hu">Szakács Rudolfné</foaf:name>		
<foaf:name xml:lang="hu">Digitális Képarchívum</foaf:name>		-		
		<foaf:givenname>Rudolfné</foaf:givenname>		
		<foaf:familyname>Szakács</foaf:familyname>		
- <rdf:description rdf:about="http://dka.oszk.hu/000000/000003"></rdf:description>				
<dcterms:format rdf:resource="http://www.sparontologies.net/mediatype/text/html"></dcterms:format>				
- <dcterms:title></dcterms:title>		- <dcterms:contributor rdf:parsetype="Resource"></dcterms:contributor>		
[DKA-000003] Északnyugat-Magyarország vármegyéinek postaút-térképe		<rdfs:label>Palyik, Katalin</rdfs:label>		
		- <foaf:person rdf:parsetype="Resource"></foaf:person>		
<rdf:type>humanStartPage</rdf:type>		<foaf:name xml:lang="hu">Palyik Katalin</foaf:name>		
		<foaf:givenname>Katalin</foaf:givenname>		
- <rdf:description http:="" rdf:about="http://dka.oszk.hu/000000/0</td><td></td><td><foaf:familyName>Palyik</foaf:</td><td></td></tr><tr><td><dcterms:format rdf:resource=" td="" www.sparontological-addressing-terms-term<=""><td></td><td></td><td>aminy 1 value-</td></rdf:description>			aminy 1 value-	
<dcterms:extent 2001="" http:="" rdf:datatype="http://www.w3.org/20</td><td></td><td></dcterms:contributor></td><td></td></tr><tr><td><exif:height rdf:datatype=" td="" www.w3.org="" x<=""><td></td><td></td><td></td></dcterms:extent>				
<exif:width rdf:datatype="http://www.w3.org/2001/X1</td><td>MLSchema#long">2080</exif:width>				
		f.nff	zk.hu/data/00000/00003/#aggregation">	
- <rdf:description <="" rdf:about="http://dka.oszk.hu/000000" td=""><td> - <bibo:document rdf:about="http://nektar.osz</td><td></td><td>//id.loc.gov/vocabulary/iso639-2/hun"></bibo:document></td></rdf:description>	 - <bibo:document rdf:about="http://nektar.osz</td><td></td><td>//id.loc.gov/vocabulary/iso639-2/hun"></bibo:document>			
<dcterms:format http:="" rdf:resource="http://purl.org/NET/</td><td><dcterms:identifier>URN:ISBN:97896306</td><td>21588</dcterms:identifier></td><td></td></tr><tr><td><dcterms:format rdf:resource=" td="" www.sparontc<=""><td> <bi>bibo:isbn13>9789630621588</bi></td><td>3></td><td>zk.hu/data/00000/00003/#aggregation"></td></dcterms:format>	 <bi>bibo:isbn13>9789630621588</bi>	3>	zk.hu/data/00000/00003/#aggregation">	
	<bibo:isbn>9789630621588</bibo:isbn>		_ibrary	
- <rdf:description 00<="" dka.oszk.hu="" http:="" rdf:about="http://dka.oszk.hu/000000</td><td><pre><dcterms:description>1990,- Ft</dcterms:</pre></td><td>description></td><td>5</td></tr><tr><td><foaf:thumbnail rdf:resource=" td=""><td><dcterms:language>hun<td>ge></td><td>zk.hu/data/00000/00003/#aggregation"></td></dcterms:language></td></rdf:description>	<dcterms:language>hun<td>ge></td><td>zk.hu/data/00000/00003/#aggregation"></td></dcterms:language>	ge>	zk.hu/data/00000/00003/#aggregation">	
<dcterms:format http<="" rdf:resource="http://www.sparontc</td><td><pre><dcterms:language>hun</dcterms:language</pre></td><td></td><td>terms:publisher></td></tr><tr><td></rdf:Description></td><td>-<dcterms:subject></td><td></td><td>terms.publisher></td></tr><tr><td></rdf:RDF></td><td>- <rdf:Description></td><td></td><td></td></tr><tr><td></td><td><dcam:memberOf rdf:resource=" td=""><td>//purl.org/dc/terms/LIDC"/></td><td></td></dcterms:format>	//purl.org/dc/terms/LIDC"/>			
	-			
	<rdf:value>894.511-32(082)<td>16</td><td></td></rdf:value>	16		
	<dcterms:contributor http:="" nek<="" rdf:resource="http://</td><td></td><td></td></tr><tr><td></td><td><pre><dcterms:title>Pirkadatra várva</dcterms:</pre></td><td></td><td></td></tr><tr><td></td><td><dcterms:publisher>Budapest : MitHol</d></td><td>-</td><td></td></tr><tr><td></td><td><pre><dcterms:extent>375 p. : ill. ; 20 cm</dcter</pre></td><td>rms:extent></td><td></td></tr><tr><td>A REAL POINT OF THE R</td><td><dcterms:subject>magyar irodalom</dcter</td><td>ms:subject></td><td></td></tr><tr><td></td><td><dcterms:subject rdf:resource=" td=""><td>tar.oszk.hu/resource/auth/magyar_irodalom"/2</td><td></td></dcterms:contributor>	tar.oszk.hu/resource/auth/magyar_irodalom"/2		
	<dcterms:type>elbeszélés</dcterms:type>			
	 Acterms:type=antologia 			
	<pre><dcterms:type>antológia</dcterms:type> <dc:contributor>Tinta.klub(közread)</dc:contributor></pre>	contributor>		
	<dc:contributor>Tinta-klub (közread.)<td>:contributor></td><td>with writing</td></dc:contributor>	:contributor>	with writing	
	<dc:contributor>Tinta-klub (közread.)<dcterms:type>text</dcterms:type></dc:contributor>	:contributor>	States	
	<pre><dc:contributor>Tinta-klub (közread.)<dcterms:type>text</dcterms:type> <dcterms:type>book</dcterms:type></dc:contributor></pre>	:contributor>		
i and the	<pre><dc:contributor>Tinta-klub (közread.)<dcterms:type>text</dcterms:type> <dcterms:type>book</dcterms:type> <dcterms:issued>2007</dcterms:issued></dc:contributor></pre>	:contributor>		
in a state	<pre><dc:contributor>Tinta-klub (közread.)<dcterms:type>text</dcterms:type> <dcterms:type>book</dcterms:type> <dcterms:issued>2007</dcterms:issued> <dcterms:date>2007</dcterms:date></dc:contributor></pre>			
in a state	<pre><dc:contributor>Tinta-klub (közread.)<dcterms:type>text</dcterms:type> <dcterms:type>book</dcterms:type> <dcterms:issued>2007</dcterms:issued></dc:contributor></pre>	ge>		

</bibo:Document>

Vocabularies and element sets that have been used				
for the conversion	DKA			
MEK <u>http://www.w3.org/2000/01/rdf-schema</u> <u>http://www.w3.org/1999/02/22-rdf-syntax-ns</u> <u>http://purl.org/dc/terms/</u> <u>http://purl.org/ontology/bibo/</u> <u>http://www.w3.org/2002/07/owl</u> <u>http://www.openarchives.org/ore/terms/</u> <u>http://xmlns.com/foaf/0.1/</u>	http://www.w3.org/2000/01/rdf-schema http://www.w3.org/1999/02/22-rdf-syntax-ns http://purl.org/dc/terms/ http://purl.org/ontology/bibo/ http://www.w3.org/2002/07/owl http://www.openarchives.org/ore/terms/ http://xmlns.com/foaf/0.1/ http://www.w3.org/2003/12/exif/ns			
http://www.sparontologies.net/mediatype/ http://viaf.org/viaf/ http://creativecommons.org/licenses/ http://id.loc.gov/authorities/subjects/ http://id.loc.gov/vocabulary/iso639-2/ http://nektar.oszk.hu/data/auth/	http://www.sparontologies.net/mediatype/ http://viaf.org/viaf/ http://creativecommons.org/licenses/ http://www.w3.org/2001/XMLSchema http://id.loc.gov/vocabulary/iso639-2/ http://id.loc.gov/authorities/subjects/ http://id.loc.gov/vocabulary/graphicMaterials			

http://nektar.oszk.hu/data/auth/

http://www.geonames.org/ http://o-o-o.hu/geo/geo.php

© László Drótos, NSZL, 2017



RDA-HU Working Group

 $\rightarrow \text{translation} \\ \rightarrow \text{questions of terminology} \\ \rightarrow \text{preparing Hungary and the NSZL for the transition} \\ \rightarrow \text{experiments in KOHA}$

And this is the point where

BIBFRAME

enters the scene!

"A consistent representation based on well-known vocabulary terms is considered to be a Linked Data best practice that supports interoperability and increases usability for thirdparty consumers (Hogan et al., 2012)."

"[...]it is often stressed that the vocabularies should be well known or at least used by others."

"Whether (other) data set publishers adopt a vocabulary is an indication that it is well known."

Kim Tallerås (2017) Quality of Linked Bibliographic Data: The Models, Vocabularies, and Links of Data Sets Published by Four National Libraries Journal of Library Metadata DOI: 10.1080/19386389.2017.1355166



Is the librarianship strong enough to make BIBFRAME well-known?



Do we have to use parallel conversion methods?

Are these data really LOUD? © Rob Sanderson, 2018

What is the critical data quantity in BIBFRAME?