Metadata

How to Remove the Weakest Link

Web-conferencing Series #1:
OER in Asia: Key issues of sharing and searching

25th February 2014

Ishan Abeywardena
MSc, MSc (Brunel), BSc (Bangalore), MIEEE, MBCS, MIET, MTA
Deputy Dean and Senior Lecturer
School of Science and Technology
Wawasan Open University
Penang, Malaysia
The Weakest Link
Content repositories
Portal repositories
Content and portal repositories

## Nutrition Facts

**Serving Size:** 1 packet (19g)  
**Servings per Carton:** 100

<table>
<thead>
<tr>
<th>Amount Per Serving</th>
<th>% Daily Value*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calories</td>
<td>0</td>
</tr>
<tr>
<td>Total Fat</td>
<td>0g</td>
</tr>
<tr>
<td>Sodium</td>
<td>0mg</td>
</tr>
<tr>
<td>Total Carb.</td>
<td>&lt; 1g</td>
</tr>
<tr>
<td>Sugars less than 1g</td>
<td>&lt; 1g</td>
</tr>
<tr>
<td>Vitamin A</td>
<td>0%</td>
</tr>
<tr>
<td>Vitamin C</td>
<td>0%</td>
</tr>
<tr>
<td>Calcium</td>
<td>0%</td>
</tr>
<tr>
<td>Iron</td>
<td>4%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nutrient</th>
<th>Amount</th>
<th>% Daily Value*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protein</td>
<td>1.7 g</td>
<td>1%</td>
</tr>
<tr>
<td>Carbohydrate</td>
<td>12 g</td>
<td>4%</td>
</tr>
<tr>
<td>Fiber</td>
<td>7 g</td>
<td>26%</td>
</tr>
<tr>
<td>Sugar</td>
<td>less than 1 g</td>
<td>0%</td>
</tr>
</tbody>
</table>
the DCMI resource model

Source: http://dublincore.org/documents/abstract-model/ (29/08/2013)
Learning Resource Metadata Initiative

Final Public Comment Period on LRMI Draft Specification
Greg Grossmeier, January 24th, 2012

As you may recall, the LRMI project is creating an educational metadata vocabulary that will hopefully plug into the Schema.org metadata framework to be used by the major search engines.

Last week, the LRMI Technical Working Group released version 0.7 of the LRMI specification and with it, began the last public comment period ending January 31st. Barring any issues that need to be addressed, this will be the version that is submitted to the Schema.org community for review and inclusion.

Please provide any input on the LRMI mailing list or on the web forum at LRMI.net.

No Comments »
Tags: Learning Resource Metadata Initiative, LRMI, metadata

LRMI Specification version 0.5 released
Greg Grossmeier, November 21st, 2011

The Learning Resources Metadata Initiative (LRMI) Technical Working Group just released the latest draft of their specification. This version is another step on the road to the final public release and submission to Schema.org, the multiple search engine group that is maintaining a standard metadata specification for online content. LRMI intends to extend Schema.org’s documentation to include metadata that is important to the educational community, everyone from commercial publishers and OER producers to learners of all varieties (and of course, educators).

Please explore the 0.5 version of the specification and provide any feedback via the LRMI mailing list by December 9th.

No Comments »
Tags: Learning Resource Metadata Initiative, LRMI, metadata, OER

The Technical Working Group for the Learning Resource Metadata Initiative is Announced
Greg Grossmeier, August 16th, 2011

The Technical Working Group for the Learning Resource Metadata Initiative (LRMI) Technical
Some Existing Solutions

- **Federated Search**: BRENHET²; OpeScout; Global Learning Object Brokered Exchange; GLOBE and Pearsons Projekt Blue “Ky.

- **Semantic Search**: OER-CC ontology; the Assistant prototype; the Folksemantic projekt; and Agrotags.
Federated Search

User

Organisation

Institution

Repos

Consortium

Institution

Repos

Institution

Repos

Institution

Repos

Institution

Repos

Institution

Repos
Hello... the issue is
Removing the Weakest Link
A Text Mining Algorithm

“to educate,”

READS

LEARNS

RECOMMENDS
What is OERScout
The Bag of Words
# Keyword-Document Matrix (KDM)

<table>
<thead>
<tr>
<th></th>
<th>Keyword₁</th>
<th>Keyword₂</th>
<th>............</th>
<th>Keywordₙ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Document₁</td>
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<td></td>
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<td>√</td>
</tr>
<tr>
<td>Document₂</td>
<td>√</td>
<td></td>
<td>√</td>
<td></td>
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<tr>
<td>............</td>
<td></td>
<td>√</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Documentₙ</td>
<td></td>
<td></td>
<td>√</td>
<td>√</td>
</tr>
</tbody>
</table>
OERScout: Search Engine for Open Educational Resources

Resources indexed: 1999

Suggested Terms (53)
- analytical chemistry
- anomalous chemistry
- base chemistry
- biochemistry
- chemistry?useful link

Related Terms (43)
- hydrocarbons
- increasingly demanding measures
- modern chemistry
- molecular world
- this course offers
- motor vehicles
- nitrogen nox
- nox
- openlearn
- overalltracker
- oxides
- petrol vehicle exhausts
- poisons
- polymers
- polymers this unit examines
- primary pollutants
- public health
- quality air

OERScout: : Search Engine for Open Educational Resources

chemistry
Search Speed: .87 seconds
Use ";" to separate each search phrase

2 Desirable resources found

The three-way catalytic converter
http://openlearn.open.ac.uk/course/view.php?id=2440
Desirability: 75%; License: CCBYNSC.4; Resource Type: webpage

Introduction to polymers
http://openlearn.open.ac.uk/course/view.php?id=2937
Desirability: 75%; License: CCBYNSC.4; Resource Type: webpage

Desirable
Resources

Faceted Search

Desirability
License
File type

Related Terms

No. resources indexed
Suggested Terms

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Ishan Abeywardena
Deputy Dean and Senior Lecturer, School of Science and Technology, Wawasan Open University, Penang, Malaysia

- **MSc in Wireless Enterprise Business Systems**, Brunel University, UK.
- **MSc in Engineering Management**, Brunel University, UK.
- **BSc in Computer Science**, Bangalore University, India.
- **PhD Candidate in Computer Science, University Malaya, Malaysia. Areas of specialisation: text mining, metadata, faceted search**

Professional Member of
- Institute of Electrical and Electronic Engineers (**MIEEE**)
- British Computer Society (**MBCS**)
- Institution of Engineering and Technology (**MIET**)
- Microsoft Technology Associate (**MTA**)

Professional Profile: [http://www.linkedin.com/in/ishansa](http://www.linkedin.com/in/ishansa)
E-mail: ishansa@wou.edu.my
Media Sources

- http://upload.wikimedia.org/wikipedia/commons/thumb/5/58/Multimedia_icon.png/120px-Multimedia_icon.png
- http://upload.wikimedia.org/wikipedia/commons/thumb/2/25/Nuvola_multimedia.png/120px-Nuvola_multimedia.png
- http://commons.wikimedia.org/wiki/File:Active_learning_-_jigsaw_map_of_Southeast_Asia.jpg
- http://commons.wikimedia.org/wiki/File:%E0%B8%9A%E0%BC%8D%E0%BF%81%E1%8F_800px-Ua-er9m-558-20070728.jpg
- http://commons.wikimedia.org/wiki/File:Public_Bus,_Cairo_02.JPG
- http://commons.wikimedia.org/wiki/File:Polski_Fiat_126p_in_Krak%C3%B3w_(MWM_2010).jpg
- http://www.youtube.com/watch?v=8YkbeycRa2A
- hydrodictyon.eeb.uconn.edu