

Creating Metadata Records

Introduction

The document contains two sets of metadata records describing five electronic resources assigned for group D. First set is created using Electronic Resource Citation metadata schema, second – Dublin Core metadata schema. Discussion and conclusion follows the records.

Electronic Resource Citation Records

(1)

erc:

who: Gilliland-Swetland, Anne | Gill, Tony | Woodley, Mary

what: Introduction to Metadata: Pathways to Digital Information

when: 2000

where: http://www.getty.edu/research/conducting_research/standards/intrometadata/index.html

(2)

erc:

who: Heery, Rachel | Patel, Manjula

what: Application profiles: mixing and matching metadata schemas

when: 2000-09-24

where: <http://www.ariadne.ac.uk/issue25/app-profiles/>

(3)

erc:

who: indecs Framework Ltd.

what: indecs: Interoperability of Data in E-Commerce Systems

when: 1998

where: <http://www.indecs.org>

(4)

erc:

who: Canadian Association of Research Libraries

what: Canadian Association of Research Libraries

when: (:unkn)

where: http://www.carl-abrc.ca/frames_index.htm

(5)

erc:

who: Greenberg, Jane | Crystal, Abe | Robertson, Davenport | Leadem, Ellen

what: Iterative Design of Metadata Creation Tools for Resource Authors

when: 2003

where: http://www.siderean.com/dc2003/202_Paper82-color-NEW.pdf

Dublin Core Records

(1)

```
<META NAME="DC.Title" LANG="en" CONTENT="Introduction to Metadata: Pathways to Digital Information">
<META NAME="DC.Creator" LANG="en" CONTENT="Gilliland-Swetland, Anne">
<META NAME="DC.Creator" LANG="en" CONTENT="Gill, Tony">
<META NAME="DC.Creator" LANG="en" CONTENT="Woodley, Mary">
<META NAME="DC.Subject" LANG="en" CONTENT="metadata; interoperability; information system; information object; digital object">
<META NAME="DC.Publisher" LANG="en" CONTENT="The J. Paul Getty Trust">
<META NAME="DC.Contributor" LANG="en" CONTENT="Murtha Baca">
<META NAME="DC.Date" LANG="en" CONTENT="2000">
<META NAME="DC.Type" LANG="en" CONTENT="text">
<META NAME="DC.Format" LANG="en" CONTENT="text/html">
<META NAME="DC.Identifier" LANG="en"
CONTENT="http://www.getty.edu/research/conducting_research/standards/intrometadata/index.html">
<META NAME="DC.Language" LANG="en" CONTENT="en">
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(2)

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<META NAME="DC.Title" LANG="en" CONTENT="Application profiles: mixing and matching metadata schemas">
<META NAME="DC.Creator" LANG="en" CONTENT=" Heery, Rachel ">
<META NAME="DC.Creator" LANG="en" CONTENT="Patel, Manjula">
<META NAME="DC.Subject" LANG="en" CONTENT="metadata schema; application profile; namespace">
<META NAME="DC.Description" LANG="en" CONTENT="The paper introduces application profiles as a type of metadata schema">
<META NAME="DC.Publisher" LANG="en" CONTENT="UKOLN">
<META NAME="DC.Date" LANG="en" CONTENT="2000-09-24">
<META NAME="DC.Type" LANG="en" CONTENT="text">
<META NAME="DC.Format" LANG="en" CONTENT="text/html">
<META NAME="DC.Identifier" LANG="en" CONTENT="http://www.ariadne.ac.uk/issue25/app-profiles/">
<META NAME="DC.Language" LANG="en" CONTENT="en">
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(3)

```
<META NAME="DC.Title" LANG="en" CONTENT="indecs: Interoperability of Data in E-Commerce Systems">
<META NAME="DC.Subject" LANG="en" CONTENT="metadata; e-commerce; intellectual property; network environment">
<META NAME="DC.Description" LANG="en" CONTENT="The web site of <indecs> - project developed an analysis of the requirements for metadata for e-commerce in Intellectual Property (IP) in the network environment">
<META NAME="DC.Publisher" LANG="en" CONTENT="indecs Framework Ltd">
<META NAME="DC.Contributor" LANG="en" CONTENT="Kopioisto">
<META NAME="DC.Contributor" LANG="en" CONTENT="CAL">
<META NAME="DC.Contributor" LANG="en" CONTENT="Editeur">
<META NAME="DC.Contributor" LANG="en" CONTENT="IFPI">
<META NAME="DC.Contributor" LANG="en" CONTENT="MUZE Inc.">
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<META NAME="DC.Format" LANG="en" CONTENT="text/html">
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<META NAME="DC.Language" LANG="en" CONTENT="en">
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(4)

```
<META NAME="DC.Title" LANG="en" CONTENT="Canadian Association of Research Libraries">
<META NAME="DC.Subject" LANG="en" CONTENT="resource-sharing network; collection development;
preservation and access; automation">
<META NAME="DC.Type" LANG="en" CONTENT="text">
<META NAME="DC.Format" LANG="en" CONTENT="text/html">
<META NAME="DC.Identifier" LANG="en" CONTENT="http://www.carl-abrc.ca/frames_index.htm">
<META NAME="DC.Language" LANG="en" CONTENT="en">
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(5)

```
<META NAME="DC.Title" LANG="en" CONTENT="Iterative Design of Metadata Creation Tools for
Resource Authors">
<META NAME="DC.Creator" LANG="en" CONTENT="Greenberg, Jane">
<META NAME="DC.Creator" LANG="en" CONTENT="Crystal, Abe">
<META NAME="DC.Creator" LANG="en" CONTENT="Robertson, Davenport">
<META NAME="DC.Creator" LANG="en" CONTENT="Leadem, Ellen">
<META NAME="DC.Subject" LANG="en" CONTENT="metadata generation tools; metadata applications;
Dublin Core; author-generated metadata">
<META NAME="DC.Description" LANG="en" CONTENT="The paper explores resource authors' abilities
for creating acceptable metadata. This paper reports on the design process and on two author surveys
that gathered feedback on the usability of both versions of the NIEHS metadata application.">
<META NAME="DC.Publisher" LANG="en" CONTENT="Siderean Software, Inc">
<META NAME="DC.Date" LANG="en" CONTENT="2003">
<META NAME="DC.Type" LANG="en" CONTENT="text">
<META NAME="DC.Format" LANG="en" CONTENT="text/html">
<META NAME="DC.Identifier" LANG="en" CONTENT="http://www.siderean.com/dc2003/202_Paper82-
color-NEW.pdf">
<META NAME="DC.Language" LANG="en" CONTENT="en">
```

Discussion

I think that Generic Metadata Editor is very useful tool for records creation. Dropdown lists of the values are especially helpful. I found that syntax of DCmeta clipbook Version 4 Sept 1998 assumes HTML4. This syntax follows Dublin Core User Guide v5.1. It may be a good idea to create a clipbook which assumes XHTML1.0. It does not make much difference except it would use lower case letters in tags and use close elements. XHTML is case sensitive and does not allow capital letters in tag names. For example, this element:

```
<META NAME="DC.Language" LANG="en" CONTENT="en">
```

would be represented as:

```
<meta name="DC.Language" lang="en" content="en" />
```

However, Dublin Core User Guide v5.1 uses capital letters for the tags and it is not clear if usage of lower case would violate established rules.

I was wandering how metadata schemas with such a limited set of elements can accommodate a huge variety of resources. The answer I found is that ERC and CD metadata schemes are intended to be used more for resource discovery than for resource description. Simplicity is an advantage for resource discovery because it makes search more efficient for end user. The end user should be able to understand semantic of those elements almost intuitively.

In fact, I think that even ERC provides enough elements to facilitate resource discovery for majority of users. Companies who develop and run search engines regularly conduct a study of utilization of their interfaces. Google, for example, keeps certain search options only if 80% of users use them. As a result of such studies they removed some options (I guess access points) in advanced search because people do not use them. They do not want to spend time understanding how to use them, etc.

Extensibility of DC and ERC metadata schemes is a great idea. This idea resembles extensibility of XML and allows keeping simplicity and flexibility. Basic set of elements can accommodate most situations and in those cases when custom or modifies elements are vital they can be used.

One of the issues I found important is metadata update procedure. ERC and DC format were developed in such a way that people could easily understand, create, and maintain the records without relying on specialized software. So, the records can be created manually but in this case update should be done manually as well. It brings the requirement of developing the procedures for metadata update along with resource content update. Otherwise metadata would not match the resource after update.

In DC metadata scheme all elements are optional. This allows for having legal DC record with no elements. I think that this does not make sense and may be corrected in the following way. Requirements about having at least one (any) element may be added. I do not think there is a resource for which at least one element among 15 would not be applicable and available. Other option is to introduce special values (like in ERC) for several core elements in case they are not available or applicable.

Generally, even with such simple schemas I encountered several problems with determining right data for some elements. For example, web site of Canadian Association of Research Libraries (record #4) does not have date of creation or anything. So, I had to use when: (:unkn) in ERC schema.

Summary and Conclusion

The assignment was a great compliment to the material covered during the first several weeks. Creating real metadata records for real electronic resources was helpful in understanding the lectures and readings. The skills and knowledge acquired at this time may be used in real life, for example, adding metadata when creating a web site, etc.