

Vocabulary Evolution and Management for the Digital Cultural Heritage Sector

Emma Tonkin

Interoperability Focus



UKOLN is supported by:



www.ukoln.ac.uk



UKOLN A centre of expertise in digital information management

About UKOLN

- Digital information management -
- Provide advice and services to communities inc.:
 - Library
 - Information
 - Education
 - Cultural Heritage
- Jointly funded by the MLA and the JISC



www.ukoln.ac.uk

UKOLN

A centre of expertise in digital information management

Starting with the obvious...

- What is metadata?
 - “It's been in the Guardian, so everybody knows what metadata is”
- Document surrogates
 - Why?
 - What?



www.ukoln.ac.uk

UKOLN

A centre of expertise in digital information management

Metadata: data about data

- What information do we need to know – or share – about this object?
- Lots of details are irrelevant
- Lots are potentially relevant
- Some are observations, some are interpretations or reactions
- What details do we choose?



www.ukoln.ac.uk

UKOLN

A centre of expertise in digital information management

Elements, Schemas and APs

- Each detail is an element
- Each collection of facts is a schema
- Each description characterising a way of using a collection is an application profile (DC)



www.ukoln.ac.uk

UKOLN

A centre of expertise in digital information management

Types of metadata

- DC shares a lot with other types of metadata, on this level
- Shared aims:
 - Promotion of reuse;
 - Encouraging consistent use within a context;
 - High quality metadata



How do we ensure good-quality metadata?

- Well-trained staff for indexing work
- Lots of readable documentation:
 - The metadata
 - Its use (including examples)
 - The underlying conceptual model-how it all fits together



www.ukoln.ac.uk

UKOLN

A centre of expertise in digital information management

A familiar model?

- Jakob Nielsen: “Speak the users’ language”
- But isn't this an argument against reusability?
 - In digital cultural heritage, there are many specialised groups
 - Each has a specialised use of vocabulary



Effects of specialisation

- Inconsistency:
 - Use of language can vary between and within groups or contexts (inter-indexer)
 - Furthermore, an individual asked to contribute metadata for the same object on two occasions may not produce the same metadata twice! (intra-indexer)



www.ukoln.ac.uk

UKOLN

A centre of expertise in digital information management

How do we mitigate all this?

- One familiar structure is the metadata schema registry, to support the processes of:
 - Developing APIs/schemas/elements
 - Publishing what has been completed
 - Supporting people in its use
 - Sharing experiences and notes
 - Encouraging reuse or partial reuse



How is an MSR technically structured?

- Could be an Excel sheet
- Could be an XML document
- Could be an RDF-backed aggregation of a back-end service and a collection of front-end interfaces, plus links to user-targeted services.

See ISO 11179



www.ukoln.ac.uk

UKOLN

A centre of expertise in digital information management

The process of creating a metadata AP

- Collaborative: many interested parties.
- A compromise between relevant groups:
 - End-users
 - Developers (technical feasibility)
 - Domain experts
 - etc



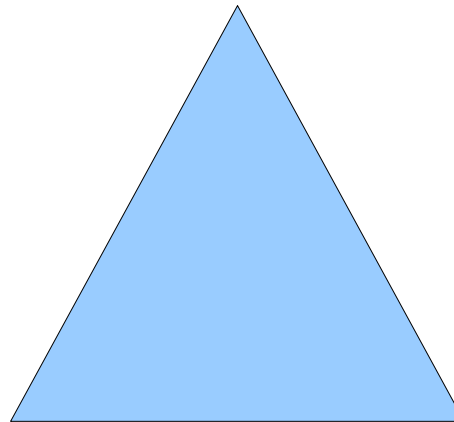
www.ukoln.ac.uk

UKOLN

A centre of expertise in digital information management

Negotiating a compromise

Developers: practical interests,
computability, etc



End-users:
adequate representation -
using appropriate terminology
and describing the right details

Domain experts:
accurate
representation using
domain-specific
terminology



www.ukoln.ac.uk

UKOLN

A centre of expertise in digital information management

Maintenance

- Things change.
 - “Change is a constant” - OCLC, about the Dewey Decimal Classification
- Models reflect our preconceptions; attitudes, theories, understanding
- Change is often prescribed, or can be observed in action



Comparison to an informal approach: social tagging

- Currently very popular
 - Cheerful anarchy!
- Annotations containing whatever comes into the user's mind, given the interface and a resource
- Easy for the user to write, but computationally difficult

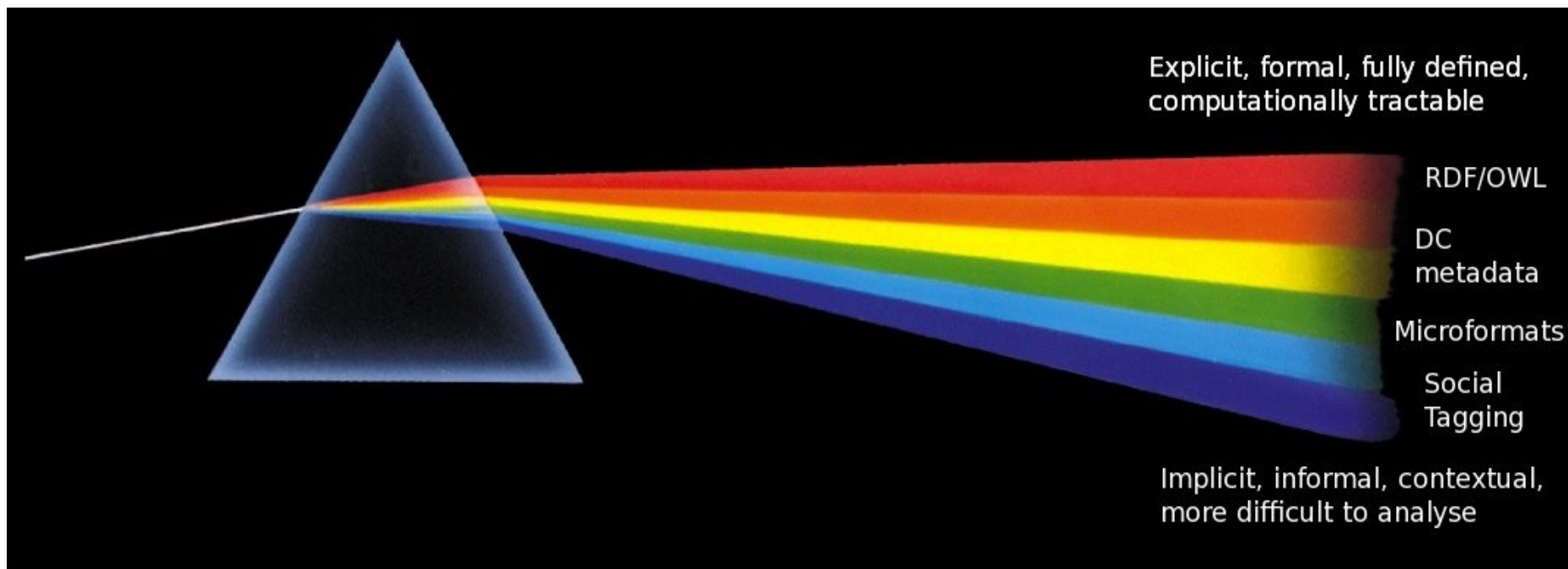


www.ukoln.ac.uk

UKOLN

A centre of expertise in digital information management

A spectrum of annotations



www.ukoln.ac.uk

UKOLN

A centre of expertise in digital information management

What's the Right Answer?

- No one right answer
- Different contexts – diverse successful approaches.
- Situated in a cultural/organisational context
- It's all about compromise and understanding your requirements, so often the right answer will involve several technologies or approaches



www.ukoln.ac.uk

UKOLN

A centre of expertise in digital information management

Discussion

- Advantages and disadvantages of each type of metadata
- Interface considerations and opportunities
- Making the most of the metadata -
- - and the communities!...



www.ukoln.ac.uk

UKOLN

A centre of expertise in digital information management

Example: Steve.museum

- Jennifer Trant's work on linking of social tagging with terms provided by trained cataloguers
- Shows the benefits and disadvantages of each, particularly accessibility benefits through “speaking the users' language”



www.ukoln.ac.uk

A centre of expertise in digital information management

Conclusion

- There exist useful tools and best practices for managing vocabularies: the metadata registry concept, for example
- It's important to use the right approach for each context, which means understanding the context and stakeholders
- There are excellent case studies available that give ideas, recommendations and advice

www.ukoln.ac.uk



UKOLN

A centre of expertise in digital information management