Polythematic Structured Subject Heading System & Creative Commons

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Overview

- Context of grey literature
- Knowledge organisation systems
  - Assisting authors
  - Enhancing user interface
  - Linked data
  - Simple Knowledge Organisation System
- Polythematic Structured Subject Heading System
- Creative Commons licences
Context of grey literature

- grey literature is characterization of the distribution mode
- not available through conventional publishing channels
- lacks commercial and bibliographic control
- escapes the established means to preserve information
Role of knowledge organisation systems

- e.g. controlled vocabularies, thesauri, or subject classifications
- standards ensuring consistency of subject indexing
- improving access to the indexed documents
- terminology services
Assisting authors

- metadata snippets generation
- tagging
- automatic indexing
  - Examples: CDS Invenio BibClassify, Maui Indexer
Examples – Manually assigned subject headings

- knowledge systems
- subject information languages
- grey literature
- intellectual property law
- licences
Examples – CDS Invenio BibClassify

- grey literature
- science
- www
- licences
- plant developmental stages
- author
- work
- data theory
- documents
- copyright
- resources
Examples – Maui Indexer

- grey literature
- search engines
- word-order
- republic
- copyright
Examples – Alchemy API tags

- grey literature
- PSH development process
- PSH meeting
- message psh
- indexing grey literature
- knowledge organisation systems
- subject heading system
- CC licences
- grey literature authors
- grey literature documents
Enhancing user interface

- search query refinement
  - spelling corrections
  - auto-completion
  - semantic query expansion
- hierarchical navigation
- social tagging
Linked data

- **linked data** is a way of publishing documents and data as mutually interlinked web resources
- utilizes semantic web technologies (**RDF**, **URIs**)
- **linked data principles** and best practices
  - link to related resources
  - HTTP URIs as persistent and interoperable identifiers
- tagging
  - Examples: [DublinCore](#), [Meaning-of-a-Tag](#), [CommonTag](#)
Simple Knowledge Organisation System (SKOS)

- provides means for expressing standard relationships that can be found in most thesauri or subject headings systems

- based on RDF, RDF Schema, OWL
- W3C working recommendation

- widely used in libraries (National Library of Sweden, Library of Congress, National Technical Library in Prague)
SKOS example

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF
   xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
   xmlns:skos="http://www.w3.org/2004/02/skos/core#">

   <skos:Concept rdf:about="http://psh.ntkcz.cz/skos/PSH6454">
      <skos:prefLabel xml:lang="cs">firemní literatura</skos:prefLabel>
      <skos:prefLabel xml:lang="en">grey literature</skos:prefLabel>
      <skos:broader rdf:resource="http://psh.ntkcz.cz/skos/PSH6449" />
      <skos:inScheme rdf:resource="http://psh.ntkcz.cz/skos" />
   </skos:Concept>

</rdf:RDF>
http://www.flickr.com/photos/espanaphotography/2480843134/
Polythematic Structured Subject Heading System (PSH)

- is bilingual (Czech-English)
- is a tool to organize and search for documents
- contains over 13,500 subject headings
- subject headings are included in a hierarchy of six or seven levels
PSH structure

- a tree structure
- is divided into 44 thematic sections
- hierarchical relations
- associative relations („see also“)
- equivalence relations („see“)
information science

URI: http://psb.ntkcz.cz/skos/P986445
Czech equivalent: informační věda

Related terms:
- Informatics
- Information

Narrower terms:
- Information files
- Information places
- Information processes
- Information services
- Information systems
- Information sources
- Informationization
- Informationalization
- Information automation

These metadata snippets can be embedded in an HTML document to achieve its semantic description:

**Dublin Core:**

```xml
<p about="" xmlns:dc="" http://purl.org/dc/elements/1.1/">
  <a href="" http://psb.ntkcz.cz/skos/P986445"" rel="" dca:subject"">information science</a>
</p>
```

**CommonTag:**

```xml
<body xmlns:tag="" http://commontag.org/ns#" rel="" tag:tagged">
  <a xmlns:tag="" http://commontag.org/ns#" rel="" tag:tagged">information science</a>
</body>
```
PSH in indexing and retrieval systems can serve to provide:

- means by that the use of terms may be standardized
- controlled hierarchies so that a search can be narrowed or broadened systematically
- a guide for users of the system for choosing the correct term for a subject search
- a navigation tool through the set of subject headings and their relations
- and to correct spelling errors
Creative Commons (CC)
Share, Remix, Reuse – Legally

- CC defines the spectrum of possibilities between full copyright and public domain
- offers free licences
- authors can choose one of the CC licences and thereby provide the opportunity to share the work with others
- CC licences work along copyright
Creative Commons Rights Expression Language (ccREL)

- RDF-based format
- can be serialised to fit in various document formats (HTML, PDF)
- ccREL serves as an explicit metadata connection between the document and the abbreviated version of licence
- enables indexing by search engines which in turn increases visibility of the licenced work
PSH under Creative Commons Licence

- CC-BY-NC-SA

**Attribution Non-Commercial Share Alike 3.0 (Czech)**

<table>
<thead>
<tr>
<th><strong>Attribution</strong></th>
<th>You must attribute the work in the manner specified by the author or licensor.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Noncommercial</strong></td>
<td>You may not use this work for commercial purposes.</td>
</tr>
<tr>
<td><strong>Share Alike</strong></td>
<td>If you alter, transform, or build upon this work, you may distribute the resulting work only under the same, similar or a compatible license.</td>
</tr>
</tbody>
</table>
You are free:

- to copy, distribute, display and perform the PSH
- to make derivative works

But:

- you must give the original author credit
- you may not use this work for commercial purposes
- if you alter, transform, or build upon this work, you may distribute the resulting work only under an identical licence that governs PSH
Key motivating factors to release PSH under CC licence include:

- Encourage library community and also Internet users contribution of knowledge to participate in NTL projects including PSH.
- Dissemination of PSH, where possible, in open formats and as open data.
- Give others easy access and the right to use PSH without seeking NTL´s permission.
- NTL wants to take every opportunity to communicate new ideas broadly and seek feedback.
Related links

PSH

Thank you for your attention.

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