Introduction to LRMI

Phil Barker
How standards proliferate:

Situation: There are 14 competing standards.

14?! Ridiculous! We need to develop one universal standard that covers everyone's use cases. Yeah!

Soon:

Situation: There are 15 competing standards.
Pre history of LRMI

IMS Learning Resource Meta-data

Figure 3. A domain model proposed for the DC-Education application profile. The central cloud represents any resource-type-specific domain model for the primary material.
History of LRMI

June 2011: Schema.org first released
June 2011: LRMI project announced
  ● Funded by Bill and Melinda Gates Foundation
  ● Managed by Creative Commons & AEP
  ● Phase 1: development
  ● Phase 2: test implementations
  ● Phase 3: dissemination

April 2013: LRMI elements added to Schema.org
October 2014: LRMI transferred to DCMI
LRMI

DCMI/LRMI Task Group

LRMI Web
http://lrmi.dublincore.net/

LRMI Specification
http://lrmi.dublincore.net/lrmi-1-1/

LRMI Terms in RDF
http://lrmi.dublincore.net/lrmi-schema/
LRMI Terms

Properties of Creative Work
- Educational alignment (more later)
- Educational use
- Interactivity type
- Is based on (url)
- Learning resource type
- Time required
- Typical age range

Property of Educational Audience
- Educational role
LRMI Terms

- The definitions are brief
  - E.g. “The typical range of ages the content’s intended end user.”
- The expected type is normally text
  - Some definitions include examples, but no controlled value spaces
    - (except educational alignment)
- Rest of the description comes from schema.org
Educational alignment

An alignment to an established educational framework, e.g.

- Shared curriculum or syllabus
- Shared framework of competency requirements
- Set of educational levels (grade level, reading level)
- Educational subject

Allows encoding of statements like

- “this resource teaches X”
- “this resource assess X”
- “this resource requires knowledge of Y”
History teaching resources

23,201 Free history resources: history lesson plans, history worksheets, history revision, history teaching ideas and much more.

Last updated: 16 June 2014

Delve into the past and take your students on a time-travelling trip without leaving their seats with our collection of free history teaching resources devised by teachers, for teachers.

Our most recent collections include a look back to the Crusades as well as Black History Month resources. You can also search for highly-rated resources, history worksheets and lesson plans and material for history revision to find out how to bring new life to your lessons.

History Week
Join us between 16 and 20 June as we have a look at the changes to the national curriculum for history.

Teaching the First World War
Commemorate the First World War centenary with these teaching resources and activities.
Educational alignment

Second Level is a phase of primary education in Scotland, generally for pupils aged 9 to 12.
Featured Resource

Beyond Penguins and Polar Bears

Beyond Penguins and Polar Bears is a new online magazine to help elementary school teachers develop their knowledge of the Arctic...

View Resource

Browse Resources by Standard

Find resources matched to California Academic Content Standards, Common Core Standards, Career Technical Education Standards and more!

Thinkfinity

Access thousands of free lesson plans and educational resources for teachers.

Anita Archer: Strategic Literacy Instruction

This video series is one of Dr. Anita Archer's many gifts to the educational community.

The Big Read

Resources designed to restore reading to the center of American culture.

California Academy of Sciences
California's Common Core Content Standards

California's Common Core Content Standards  259

Topic  English Language Arts & Literacy in History/Social Studies, Science, and Technical Subjects  10

Grade  Three  1

Language Standards Ø

Conventions of Standard English

1. Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.
   a. Write legibly in cursive or joined italics, allowing margins and correct spacing between letters in a word and words in a sentence.  13
   b. Explain the function of nouns, pronouns, verbs, adjectives, and adverbs in general and their functions in particular sentences.  13
   c. Use reciprocal pronouns correctly.  13
   d. Form and use regular and irregular plural nouns.  13
   e. Use abstract nouns (e.g., childhood).  13
   f. Form and use regular and irregular verbs.  13
   g. Form and use the simple (e.g., I walked; I walk; I will walk) verb tenses.  13
   h. Ensure subject-verb and pronoun-antecedent agreement.*  13
   i. Form and use comparative and superlative adjectives and adverbs, and choose between them depending on what is to be modified.  13
   j. Use coordinating and subordinating conjunctions.  13
   k. Produce simple, compound, and complex sentences.  13
Educational alignment

An alignment to an established educational framework
Educational alignment

Subject: Wars of Scottish independence

Alignment to curriculum:

- England
  - Educational Framework: National Curriculum
    - Target Level: KS 3
  - Educational Subject: History: The middle ages (12th to 15th century)

From http://schema.org/AlignmentObject
Educational alignment

<span rel="educationalAlignment"
    typeof="http://schema.org/AlignmentObject">
    <meta property="alignmentType" content="educationalLevel" />
    <span property="educationalFramework">
        National Curriculum</span>:
    <span property="targetName">KS 3</span>
    <link property="targetUrl"
        href="http://example.org/ENC/levels/KS3" />
</span>

From http://schema.org/AlignmentObject
Educational alignment

@type WebPage
name The Declaration of Arbroath
about
  @type Thing
  name Wars of Scottish independence
educationalAlignment
  @type AlignmentObject
  alignmentType educationalLevel
  educationalFramework National Curriculum
  targetName KS 3
  targetUrl http://example.org/ENC/levels/KS3
educationalAlignment
  @type AlignmentObject
  alignmentType educationalSubject
  educationalFramework National Curriculum
  targetName History: The middle ages (12th to 15th century)
  targetUrl http://example.org/ENC/subjects/3102
Educational alignment

educationalAlignment
  @type AlignmentObject
  alignmentType educationalLevel
  educationalFramework National Curriculum
  targetName KS 3
  targetUrl http://example.org/ENC/levels/KS3
LRMI summary

LRMI - project and then DCMI task group
LRMI - extension to Schema.org for education
LRMI - RDF terms for educational properties

To come:
LRMI - stable and widely used
LRMI - a work in progress
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