



Linked Data for Professional Education (LD4PE)

A project of the DCMI Education & Outreach Committee

<http://explore.dublincore.net/>

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What Is LD4PE Exploring Linked Data ?

- Linked Data for Professional Education (LD4PE) is a project under the jurisdiction of the DCMI Education & Outreach Committee, funded by the Institute of Museum and Library Services (IMLS).
 - The intent is that the LD4PE website will continue to be supported by DCMI and its members as part of DCMI's larger education and outreach activities, and be used in other activities as appropriate once the project is completed.
- The project is developing a Web-based Linked Data platform to support the structured discovery of the learning resources available online by open educational resource (OER) and commercial providers.
 - At the heart of the Linked Data website is a competency framework for Linked Data that supports indexing learning resources according to the specific competencies, skills, and knowledge they address.
 - To do this, the LD4PE website itself leverages Linked Data technology by assigning global identifiers (URIs) to statements of competency, then citing those URIs in metadata descriptions of learning resources.

Who Is Involved?



Key Project Personnel

- University of Washington

- Michael Crandall
- Stuart Sutton
- David Talley
- Abi Evans

- Kent State University

- Marcia Zeng
- Sean Dolan

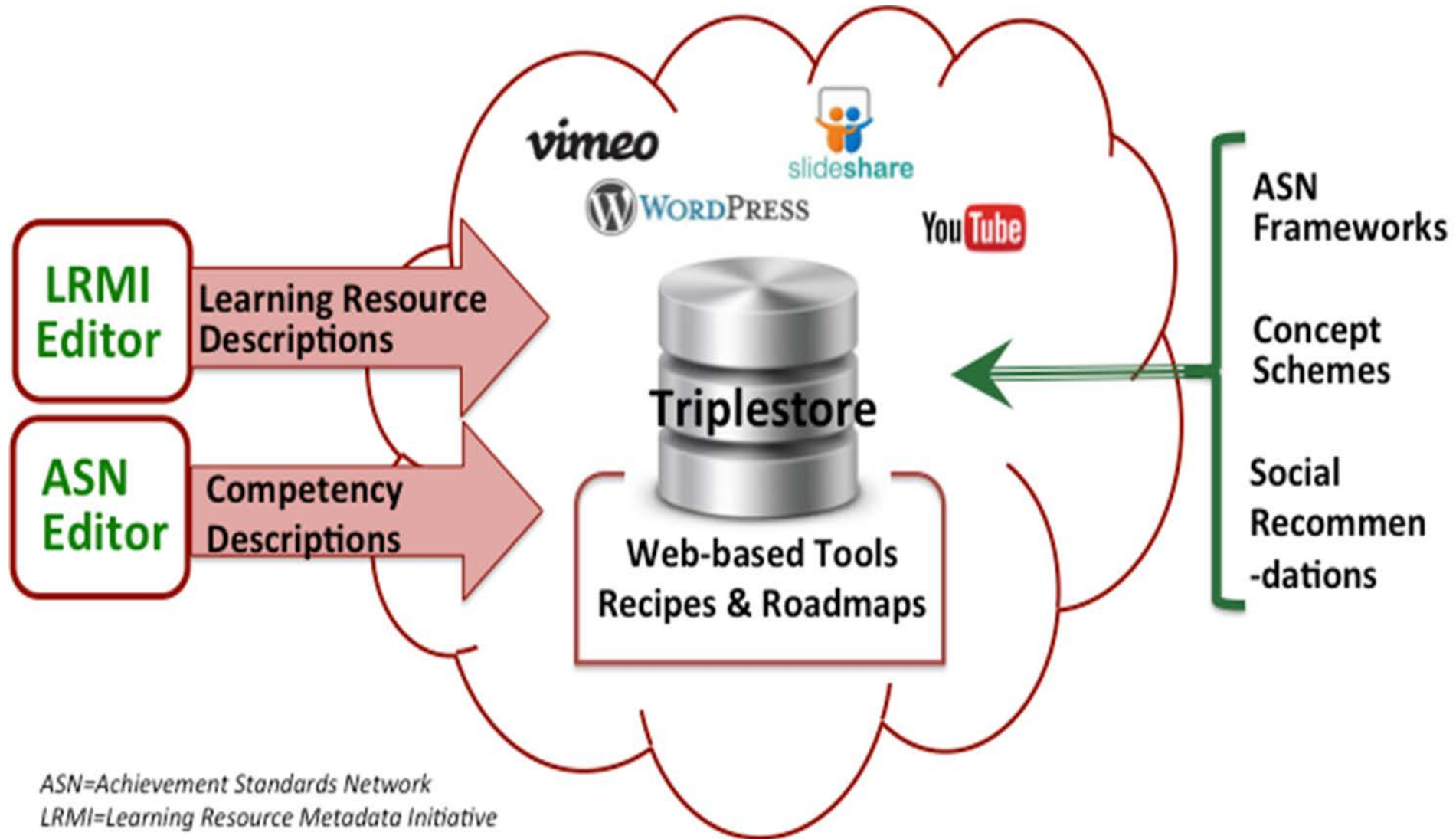
- DCMI

- Stuart Sutton
- Tom Baker
- Joseph Chapman

- Content Partners

- Elsevier
 - Michael Lauruhn
- Access Innovations
 - Marjorie Hlava
- Synaptica
 - David Clarke
- Sungkyunkwan University
 - Sam Oh
- OCLC
 - Eric Childress

Architecture



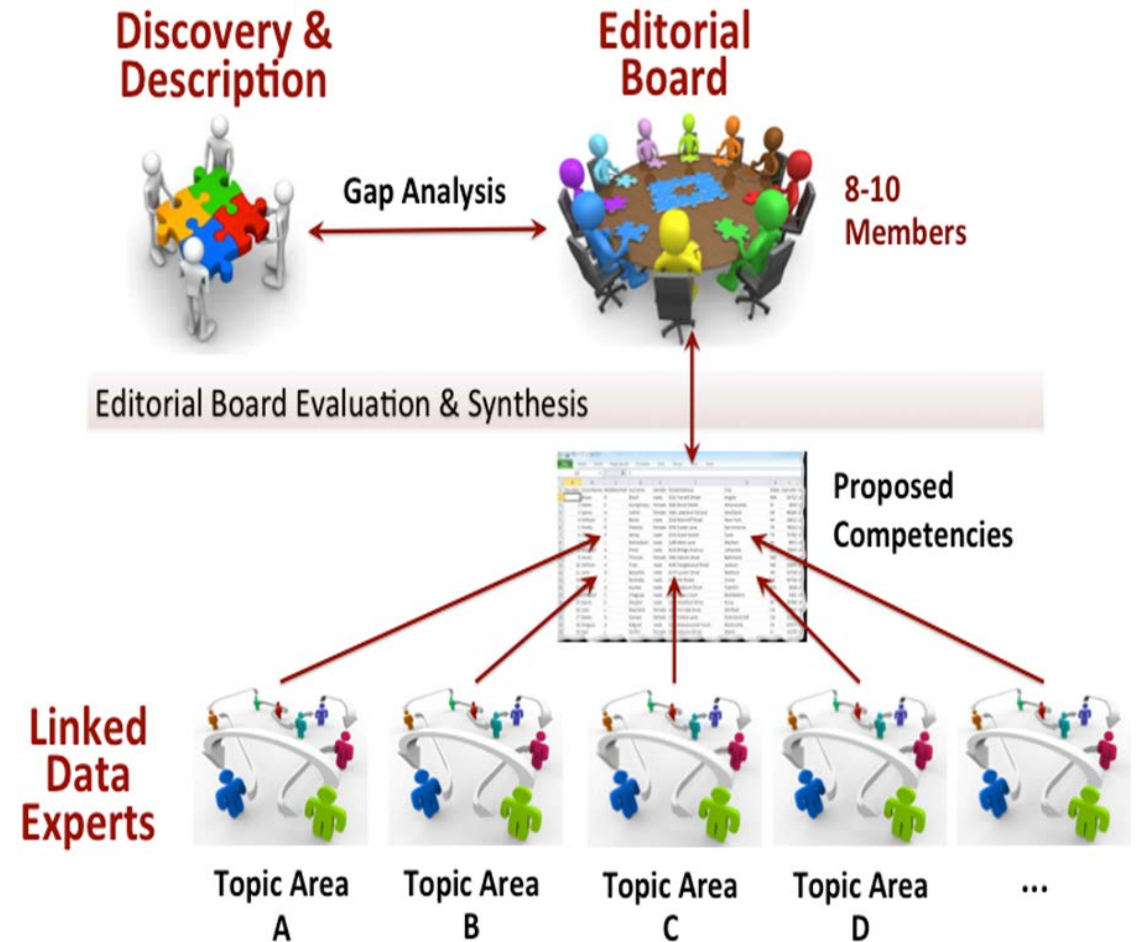
Project Deliverables

- **Competency Framework.** A “Competency Index for Linked Data” based on the Achievement Standards Network Description Language (ASN-DL) for describing formally promulgated competencies and benchmarks.
- **Toolkit.** An openly available, web-based tool set to support the generation of RDF metadata describing : (a) learning resources; and (b) ASN-based competency frameworks and SKOS-based concept schemes.
- **Learning Resource Descriptions.** A set of cataloged learning resources that have been mapped to the competencies and benchmarks of the Competency Index to support competency-based resource discovery by teachers, trainers and learners.
- **LD4PE Website.** A website to be managed by DCMI as part of its educational agenda for open discovery of competency-based learning resources, access to the toolkit, learner trajectory maps, and supporting resources.
- **Best Practices.** Readily accessible best practice documentation for all processes, from community-based competency framework development and LR description through learner trajectory creation.

The Competency Index

The Competency Index

- The Competency Index (CI) for Linked Data is comprised of a set of topically arranged assertions of the knowledge, skills and habits of mind required for professional practice in the area of Linked Data
- Developed by an Editorial Board through extensive consultation
- Arranged hierarchically by Topical Cluster » Topic » Competency » Benchmark



Explore Learning Resources by Competency

Browse by Competency

▼ How does this work?

- ▶ New Comp Index (164)
 - ▶ Fundamentals of Resource Description Framework (90)
 - ▶ Identity in RDF (22)
 - ▼ RDF data model (71)
 - Understands the difference between literals and non-literal resources. (12)
 - Knows the subject-predicate-object component structure of a triple. (28)
 - Understands that URIs and literals denote things in the world ("resources") real, imagined, or conceptual. (18)
 - Understands that resources are declared to be members (instances) of classes using the property `rdf:type`. (19)
 - Understands the use of datatypes and language tags with literals. (10)
 - Understands a named graph as one of the collection of graphs comprising an RDF dataset, with a graph name unique in the context of that dataset. (8)

Competency: Understands The Difference Between Literals And Non-literal Resources.**Module 1: Introduction And Application Scenarios**

This module introduces the main principles of Linked Data, the underlying technologies and background standards. It provides basic knowledge for how data can be published [...]

★★★★★ (1 user rating)

By [Abi Evans](#) | August 13th, 2015 | 0[Comments](#)[Read More >](#)**RDF 1.1 Primer**

This primer is designed to provide the reader with the basic knowledge required to effectively use RDF. It introduces the basic concepts of RDF and [...]

★★★★★ (Please share your rating)

SPARQL Tutorial: A First SPARQL Query

A brief, text-based tutorial demonstrating a simple first query and showing how to execute it with Apache Jena. Shows how to formulate a simple command [...]

★★★★★ (Please share your rating)

By [Abi Evans](#) | August 13th, 2015 | 0[Comments](#)[Read More >](#)**RDF-101**

In this lesson you will learn: 1) What RDF is and how it fundamentally differs from XML and relational databases; 2) What is meant by [...]

★★★★★ (Please share your rating)

The Toolkit (Part 1)

The Editors

- Two lightweight, client-side editors have been developed as part of the LD4PE toolkit
 - Taxonomy editor for competency frameworks (ASN) & concept schemes (SKOS)
 - Learning resource editor (using LRMI concept schemes and vocabularies)
 - Single record editor
- No required backend server
- Work offline and online
- Handle all CRUD operations (create, read, update, delete)
- *By intention and design*, these are NOT enterprise-level editors

The Competency Index Editor

The 'Describe' tab in the Competency Index Editor shows a sidebar with 'App Preferences', 'Modify Collection Entity', and 'Modify Item Entity'. The 'App Preferences' section includes:

- Translate Interface:** Buttons for 'English' and 'Korean'. Below is the text: 'Translate application interface.'
- Application Profile:** A dropdown menu showing 'SKOS - LD4PE (en)'. Below is the text: 'Configure metadata generation to use custom localized profiles i.e. value spaces for particular fields.'
- Existing Upload:** A button labeled 'Choose existing file' and a file input area. Below is the text: 'Load a previously authored file for editing.'
- Display Definitions:** A checkbox that is currently unchecked. Below is the text: 'Show or hide property descriptions on editable forms.'
- Language Tags:** A dropdown menu showing 'en-US'. Below is the text: 'Default language designation for all literal field widgets.'

Two functions are available- **Describe** and **Build**. **Describe** supports description of a concept scheme or a competency framework as a whole


The Competency Index editor is designed to create both competency indexes and concept schemes through pre-defined application profiles

The 'Build' tab in the Competency Index Editor shows a 'General' section with the following fields:

- Title en-US:** A text input field containing 'Ocean Animals' with a '+' icon to its right.
- Description en-US:** A large text area containing 'My first concept scheme' with a '+' icon to its right.
- Creator en-US:** A text input field with a '+' icon to its right.

At the bottom of the form are two buttons: 'Submit' (in blue) and 'Cancel' (in light gray).

The Competency Index Editor

 Describe **Build**

General

Other Labels

Documentation

Pref. Label

en-US

+

Concept Status

☐ Proposed

☐ Under Review

☐ Published

Thumbnail URL

Submit

Cancel

Fundamentals of Resource Description Framework

Identity in RDF

RDF data model

Related data models

RDF serialization

Fundamentals of Linked Data

Web technology

Linked Data principles

Linked Data policies and best practices

Non-RDF linked data

RDF vocabularies and application profiles

Finding RDF-based vocabularies

Maintaining RDF vocabularies

Versioning RDF vocabularies

Publishing RDF vocabularies

Mapping RDF vocabularies

RDF application profiles

Designing RDF-based vocabularies

Creating and Transforming Linked Data

Managing identifiers (URI)

Creating RDF data

Versioning RDF data

RDF data provenance

Cleaning and reconciling RDF data

Mapping and enriching RDF data

Interacting with Linked Data

Processing RDF data using programming languages

Querying RDF data

Visualizing RDF data

The **Build** function allows a user to flesh out the concept scheme or competency index by describing (and displaying) the individual concepts or competencies making up the concept scheme or the competency framework

The Learning Resource Editor

LRMI (LD4PE)

Configure

Describe a Resource

View all Records

Configure

Set various user preferences before you begin. This step is optional - the application has its own system defaults if no user preferences are found.

Translate Interface:

English

Spanish

Korean

Translate the entire user interface.

Application Profile:

LRMI (LD4PE)

Configure metadata generation to use custom localized profiles i.e. value spaces for particular fields.

Display Definitions:

☒

Show or hide property descriptions on editable forms.

Language Tags:

en-US

Default language designation for all literal field widgets.

Language:

ETIK
Egyptian (Ancient)
Ekajuk
Elamite
English

Default language designation.

Locale:

en-us

Change application locale settings (date, currency...)

URI Configuration:

URN:UUID

Set the base URL and URI generation rules.

The Learning Resource Editor can be configured for different application profiles, but currently defaults to the LD4PE profile for editing. This flexibility will allow the creation of other resource sets for different domains in the future.

The Learning Resource Editor

LRMI (LD4PE) Configure **Describe a Resource** View all Records

Existing description found. Modify it below.

Describe a Resource

URL:
URL of the item.

General

Name
en-US:

+

The name of the item.

Description
en-US:

+

A short description of the item.

Topical Index:

Fundamentals of Resource Description Framework
Identity in RDF
RDF data model
Related data models

The topic of the resource.

About
en-US:

+

The subject matter of the content.

LRMI (LD4PE) Configure **Describe a Resource** View all Records

About
en-US:

✗

About
en-US:

✗

About
en-US:

✗

About
en-US:

✗

In Language:

English

The language of the content.

Competencies

Educational Alignment
Assesses:

+

An alignment to an established educational framework.

Educational Alignment
Assesses:

✗

Educational Alignment
Assesses:

✗

Educational Alignment
Assesses:

✗

Educational Alignment
Assesses:

✗

Educational Alignment
Assesses:

✗

Educational Alignment
Assesses:

✗

Educational Alignment
Assesses:

✗

Educational Alignment
Assesses:

✗

Educational Alignment
Assesses:

✗

The Learning Resource Editor

LRMI (LD4PE)

Configure

Describe a Resource

View all Records

Rights

Author en-US:

+

The author of this content. Please note that author is special in that HTML5 provides a special mechanism for indicating authorship via the rel tag. That is equivalent to this and may be used interchangeably.

Publisher en-US:

EUCLID Project

+

The publisher of the creative work.

License:

http://creativecommons.org/licenses/by/4.0/

+

A license document that applies to this content, typically indicated by URL.

Date Created:

(click to add)

The date on which the creative work was created.

Based on URL:

+

A resource that was used in the creation of this resource. This term can be repeated for multiple sources.

Pedagogy

Educational Use:

☐ Assessment ☒ Instruction

☐ Professional Development

The purpose of a work in the context of education.

Learning Resource Type:

☐ Alternate Assessment ☐ Assessment Item

☐ Course ☐ Dataset ☐ Demonstration/Simulation

☐ Educator Curriculum Guide

☐ Formative Assessment ☒ Images/Visuals

☐ Interim/Summative Assessment ☒ Learning Activity

☐ Lesson ☐ Lesson Plan ☐ Primary Source

☐ Rubric Scoring Guide ☐ Self Assessment

☐ Syllabus ☐ Technical Specification ☒ Text

☐ Textbook ☒ Unit

The predominant type or kind characterizing the learning resource.

LRMI (LD4PE)

Configure

Describe a Resource

View all Records

Accessibility

Accessibility API:

☐ Android Accessibility ☐ ARIA ☐ ATK ☐ AT-SPI

☐ Blackberry Accessibility ☐ iAccessible2

☐ iOS Accessibility ☐ Java Accessibility

☐ Mac OSX Accessibility ☐ MSAA ☐ UI Automation

Indicates that the resource is compatible with the referenced accessibility API.

Accessibility Control:

☐ Full Keyboard Control ☐ Full Mouse Control

☐ Full Switch Control ☐ Full Touch Control

☐ Full Video Control ☐ Full Voice Control

Identifies input methods that are sufficient to fully control the described resource

Accessibility Feature:

☐ Alternative Text ☐ Annotations

☐ Audio Description ☐ Book Marks ☐ Braille

☐ Captions ☐ Chemical Markup Language

☐ Described Math ☐ Display Transformability

☐ High Contrast Audio ☐ High Contract Display

☐ Index ☐ Large Print ☐ Latex ☐ Long Description

☐ Math ML ☐ None ☐ Print Page Number

☐ Reading Order ☐ Sign Language

☐ Structural Navigation ☐ Table of Contents

☐ Tactile Graphic ☐ Tactile Object ☐ Tagged PDF

☐ Timing Control ☐ Transcript ☐ TTS Markup

☐ Unlocked

Content features of the resource, such as accessible media, alternatives and supported enhancements for accessibility.

Accessibility Hazard:

☐ Flashing ☒ No Flashing Hazard

☐ Motion Simulation ☒ No Motion Simulation Hazard

☐ Sound ☒ No Sound Hazard

A characteristic of the described resource that is physiologically dangerous to some users.

✕ Delete

↶ Cancel

📄 Submit

Module 1: Introduction And Application Scenarios

This module introduces the main principles of Linked Data, the underlying technologies and background standards. It provides basic knowledge for how data can be published over the Web, how it can be queried, and what are the possible use cases and benefits. The module also includes some multiple choice questions in the form of a quiz, screencasts of popular tools, and embedded videos.

URL: <http://www.euclid-project.eu/modules/course1> 

Keywords: Linked Data, Linked Data Principles, Semantic Web, Web of Data, XML, RDF, HTTP URIs, Triple, Graph, SPARQL, Mashup


Publisher: EUCLID Project

Language: <http://id.loc.gov/vocabulary/iso639-2/eng>

Time required: P2H

Educational use: [instruction](#) 

Educational audience: [professional](#) 

Interactivity type: [mixed](#) 

[Favorite](#) 

• Competencies

- Articulates differences between the RDF abstract data model and the XML and relational models.
- Knows the subject-predicate-object component structure of a triple.
- Understands blank nodes and their uses.
- Understands the difference between literals and non-literal resources.
- Understands the use of datatypes and language tags with literals.
- Correctly uses sub-property relationships in support of inference.
- Demonstrates a working knowledge of the forms and uses of SPARQL result sets (SELECT, CONSTRUCT, DESCRIBE, and ASK).
- Understands that a SPARQL query matches an RDF graph against a pattern of triples with fixed and variable values.
- Understands the basic syntax of a SPARQL query.
- Differentiates hierarchical document models (eg, XML) and graph models (RDF).
- Knows that anything can be named with Uniform Resource Identifiers (URIs), such as agents, places, events, artifacts, and concepts.
- Knows the primary organizations related to Linked Data standardization.
- Knows the SPARQL 1.1 Update language for updating, creating, and removing RDF graphs in a Graph Store
- Understands the difference between SQL query language (which operates on database tables) and SPARQL (which operates on RDF graphs).
- Understands RDF serializations as interchangeable encodings of a given set of triples (RDF graph).
- Understands the role of formally declared domains and ranges for inferencing.
- Uses the SELECT clause to identify the variables to appear in a table of query results.

Descriptive metadata

Assigned competencies

Learning Resource Descriptions

Explore Learning Resources by Competency

Browse by Competency

▼ How does this work?

► New Comp Index (164)

▼ Fundamentals of Resource Description Framework (90)

► Identity in RDF (22)

▼ RDF data model (71)

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► Understands a named graph as one of the collection of graphs comprising an RDF dataset, with a graph name unique in the context of that dataset. (8)

Competency: Understands The Difference Between Literals And Non-literal Resources.

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By [Abi Evans](#) | August 13th, 2015 | 0

[Comments](#)

[Read More >](#)

RDF 1.1 Primer

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A brief, text-based tutorial demonstrating a simple first query and showing how to execute it with Apache Jena. Shows how to formulate a simple command [...]

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By [Abi Evans](#) | August 13th, 2015 | 0

[Comments](#)

[Read More >](#)

RDF-101

In this lesson you will learn: 1) What RDF is and how it fundamentally differs from XML and relational databases; 2) What is meant by [...]

★★★★★ (Please share your rating)

Module 1: Introduction and Application Scenarios

In Saved Sets

New Version (Abi Evans)

▼ What's This?

Add Resource to Saved
Set

- Save to Your Saved Set - ▼

Add to Set

< Previous Next >

Module 1: Introduction And Application Scenarios

This module introduces the main principles of Linked Data, the underlying technologies and background standards. It provides basic knowledge for how data can be published over the Web, how it can be queried, and what are the possible use cases and benefits. The module also includes some multiple choice questions in the form of a quiz, screencasts of popular tools, and embedded videos.

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Time required: P2H

Educational use: [instruction](#) ↗

Educational audience: [professional](#) ↗

Interactivity type: [mixed](#) ↗

New Learning Resources

- Gap analysis on existing learning resources (over 400 cataloged)
 - Pinpointed areas where content was lacking or weak against the competencies identified in the Competency Index
- New learning resources currently being created
 - Four content partners (Synaptica, Access Innovations, Sungkyunkwan University, and Elsevier) are creating new learning resources (assessments, video tutorials, etc) to partially fill the gaps
 - OCLC also contributed a static set of triples derived from their records as a stable environment to develop repeatable examples for assessment and demonstration purposes in creating new learning resources
- Ultimate goal is for the community to continue adding resources over time, enhancing and extending the utility of the service

Toolkit (Part 2)

Module 1: Introduction and Application Scenarios

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New Version (Abi Evans)

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Module 1: Introduction And Application Scenarios

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LD4PE

Exploring
Linked Data

[Explore](#)
[Tech Talk](#)
[Updates](#)
[About](#)
[FAQ](#)

Howdy, Stuart Suttor

Individual Set Listing

List Resources in Saved Set

New Version by Abi Evan

Save as New Set

Enter new set name

☒ Set is public

Save New Set

Learning Resources in Saved Set: New Version (3 resources)

Module 1: Introduction and Application Scenarios

This module introduces the main principles of Linked Data, the underlying technologies and background standards. It provides basic knowledge for how data can be published[...]

Remove from set

SPARQL 1.1

An overview of SPARQL including its history, and examples of queries with operators. Also includes brief discussion of Apache Jena (a Java Framework for Linked[...])

Remove from set

Deciphering the Semantic Web

What is the Semantic Web? Technology Voice recently interviewed some leading Semantic Web researchers with both academic and industrial experience to find out what it[...]

Remove from set

Saved Sets

List Sets Saved By

All users

Create a New Saved Set

Enter new set name

Enter new set
description



Set is public

Create New Set

Duplicated Set

Created: 8/8/2016

Testing creation of a new set by saving an existing one with a new name.

Set Creator: [dtalley](#)

New Version DWT

Created: 7/24/2016

Testing creation of a new set by saving an existing one with a new name.

Set Creator: [dtalley](#)

Create a Set then Add Resources

Created: 7/24/2016

Testing for new set creation from the All Saved Sets Listing page.

Set Creator: [dtalley](#)

Empty New Set

Created: 7/23/2016

This set is empty!

Set Creator: [Abi Evans](#)

Learner Trajectory Maps

The screenshot shows a web browser window with the address bar displaying `explore.dublincore.net/all-learning-maps/`. The browser's address bar and tabs are visible at the top. The website's header includes the LD4PE logo and the text "Exploring Linked Data". Navigation links for "Explore", "Tech Talk", "Updates", "About", and "FAQ" are present. A search icon is also visible. The main heading is "All Learning Maps". Below this, there is a section for "List Learning Maps Created By" with a dropdown menu set to "All users" and a "Create a New Learning Map" button. To the right, there are four cards representing different learning maps: "New learning map", "Brand new private map", "Another set", and "First set". Each card displays the creation date (8/15/2016) and the set creator (Abi Evans). A "Create New Map" button is located below the "List Learning Maps Created By" section.

LD4PE Exploring Linked Data

Explore Tech Talk Updates About FAQ

All Learning Maps

List Learning Maps Created By

All users

Create a New Learning Map

Enter new map name

Enter new map description

Create New Map

New learning map
Created: 8/15/2016
Set Creator: Abi Evans

Brand new private map
Created: 8/15/2016
Set Creator: Abi Evans


Another set
Created: 8/15/2016
Description of another set
Set Creator: Abi Evans

First set
Created: 8/15/2016
First set description.
Set Creator: Abi Evans


Learner trajectory maps express curricular structures or personal learning journeys superimposed over the competency framework by users




LD4PE
LD4BE

Exploring
Linked Data

[Explore](#) [Tech Talk](#) [Updates](#) [About](#) [FAQ](#)

Howdy, Stuart Sutton 



Learning Map Builder

▶ New Comp Index [Add to map >>](#)

▶ Fundamentals of Resource Description Framework [Add to map >>](#)

▶ Fundamentals of Linked Data [Add to map >>](#)

▶ RDF vocabularies and application profiles [Add to map >>](#)

▶ Creating and transforming Linked Data [Add to map >>](#)

▶ Interacting with RDF data [Add to map >>](#)

▶ Creating Linked Data applications [Add to map >>](#)

Learning Map: Brand new private map

▼ What's This?

☐ Public (anyone can view) ☒ Private (only I can see)

Delete Set

Edit Description

Identity in RDF

22 resources | [Remove from learning map](#)

RDF data model

71 resources | [Remove from learning map](#)

RDF serialization

31 resources | [Remove from learning map](#)

Related data models

18 resources | [Remove from learning map](#)

Interacting with RDF data

116 resources | [Remove from learning map](#)

Save

Brand new private map

27

The Website

The LD4PE Website

Welcome



Theory & Background

The primary goal of the RDF-modeled Competency Index for Linked Data is to provide a means for mapping learning resources descriptions to the competencies those resources address to assist in finding, identifying, and election resources appropriate to specific learning needs. — [Learn More](#)

Featured Resource

[Learn About SPARQL 1.1](#)

This S5 format slideshow details the changes made to the query language in SPARQL 1.1- it is not a basic introduction to SPARQL and assumes that the reader is already familiar with the basic functions of SPARQL 1.0.

Recent Updates

Updated version (May 2016) of the LD4PE Competency Index available for review and feedback

(5/24/2016)

Current version of the LD4PE Competency Index ready for review and feedback

(1/26/2016)

Webinar: Linked Data Fragments - Querying multiple Linked Data sources on the Web

(12/9/2015)

<http://explore.dublincore.net/>

... LD4PE made possible by the following organizations ...



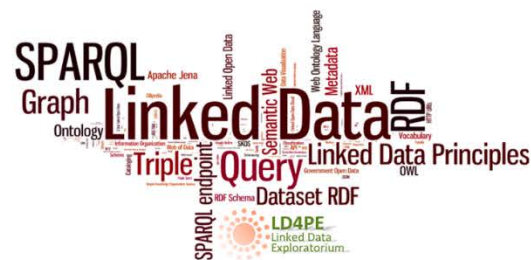
Best Practices

Briefing Papers

Tech Talk

Competency Index Overview

Briefing Papers



Categories

> Briefing Papers

> Overview Briefings

> Technical Briefings

> Uncategorized

> Webinars

ASN Briefing #1: ASN-DL Overview

Overview of the ASN Description Language (ASN-DL) including the model, extension, and description of select mapping properties.

<http://explore.dublincore.net/asn-briefing-1/> ↗

ASN Briefing #2: ASN Ontology

Definition of the Achievement Standards Network ontology including full description of all classes and properties.

<http://explore.dublincore.net/asn-briefing-2/> ↗

ASN Briefing #3: Introduction and specification of ASN "Profiles"

Description of mechanisms for extension and refinement of the ASN-DL to meet national or organizational needs.

<http://explore.dublincore.net/asn-briefing-3/> ↗

ASN Briefing #4: LD4PE Overview

High-level overview of the *Linked Data for Professional Education* (LD4PE) project.

<http://explore.dublincore.net/briefing-papers/ld4peoverview/> ↗

Final Thoughts

- LD4PE has been designed as a lightweight, replicable, community-driven resource, which can be extended into other domains with minimal overhead
- The editors for the Competency Index and the Learning Resources interact directly with the triple store, allowing easy development of new collections for different purposes
- The community-based services implemented on top of the triple store (ratings, saved sets, learning maps) allow users to share knowledge and drive quality control
- Our hope is that LD4PE will be the first of many instances developed to assist in the teaching and learning of metadata and knowledge organization concepts, adding to the long-term mission of DCMI



Questions?

<http://explore.dublincore.net/>

mikecran@uw.edu