

Digital Library Glossary

[A B C D E F G H I J K L M N O P Q R S T U V W X Y Z]

A

aDORe:

A metadata repository management framework.

Aquifer

The DLF [Aquifer Project](#) is an experiment in getting materials from many different digital libraries to work together in an integrated system.

Archivist's Toolkit

A system for creating and managing EAD files.

B

C

Castor

Castor is an Open Source data binding framework for Java. It's the shortest path between Java objects, XML documents and relational tables. Castor provides Java-to-XML binding, Java-to-SQL persistence, and more.

CCO

An image metadata standard.

Cocoon

Apache Cocoon is a web development framework built around the concepts of separation of concerns and component-based web development.

CONTENTdm

A metadata repository management framework.

Content Manager

A metadata repository management framework by IBM.

CQL

CQL is the query language for SRU/SRW.

D

DC

See Dublin Core

Demomate II

A metadata repository management framework.

Digitool

A metadata repository management framework.

DLP

Digital Library Program

DLXS

A metadata repository management framework.

Documentum

A metadata repository management framework.

DPubS

DPubS (Digital Publishing System) is an open-source software system designed to enable the organization, presentation, and delivery of scholarly journals, monographs, conference proceedings, and other common and evolving means of academic discourse

Dspace

A metadata repository management framework.

Dublin Core

A least-common-denominator metadata standard, capable of describing a wide variety of objects. The Dublin Core Metadata Initiative is an open forum engaged in the development of interoperable online metadata standards that support a broad range of purposes and business models.

E

EAD

See Encoded Archival Description

Eclipse

A nice IDE, particularly well-suited for Java development.

Encoded Archival Description

A metadata standard.

Encompass

A metadata repository management framework.

Eprints

A metadata repository management framework.

F

Fedora

The metadata repository management framework selected for the DLP Infrastructure Project.

FRBR

Functional Requirements for Bibliographic Records

G

GEM

See Gateway to Educational Materials

Gateway to Educational Materials

A metadata standard.

Greenstone

A metadata repository management framework.

H

Hibernate

Hibernate is a powerful, ultra-high performance object/relational persistence and query service for Java.

I

IDE

Integrated Development Environment

Infrastructure Project

The goal of the Infrastructure Project is to simplify and centralize the basic activities of the DLP, with a focus on the activities of collection creation and collection maintenance.

J

Java

A popular computer programming language.

Jhove

Jhove

JSF

Java Server Faces – a Java UI framework.

JSTL

The Jakarta Standard TagLibs Project by Apache.

K

Kepler

A metadata repository management framework.

L

LOCKSS

Lots Of Copies Keep Stuff Safe. A digital preservation project headed by Stanford, primarily focused on electronic journals.

Lucene

An open-source index and search framework by Apache, originally written by one of the founders of the Excite search engine.

Luna Insight

A metadata repository management framework.

M

MARC

The MARC formats are standards for the representation and communication of bibliographic and related information in machine-readable form.

Metadata Encoding & Transmission Standard

A metadata standard.

METS

See Metadata Encoding & Transmission Standard

MDID2

A tool for delivery of images.

Metadata

Data about the data.

Metadata Object Description Schema

A metadata standard. The Library of Congress' Network Development and MARC Standards Office, with interested experts, has developed a schema for a bibliographic element set that may be used for a variety of purposes, and particularly for library applications.

MODS

See Metadata Object Description Schema

MyEclipse

A commercial add-on to the Eclipse IDE which gives users access to advanced tools, such as a graphical Struts work-flow editor.

N

NISO Metadata for Images in XML

A metadata standard.

NISO MIX

See NISO Metadata for Images in XML.

O

OAI

The Open Archives Initiative develops and promotes interoperability standards that aim to facilitate the efficient dissemination of content.

OAIS

The Reference Model for an Open Archival Information System (OAIS) is a very loose standard. Rather than describing metadata formats, protocols, etc., it simply lays out a framework for the features that should be in an archival system.

OJB

Apache's Object relational Bridge

OJS

Open Journal Systems (OJS) is a journal management and publishing system that has been developed by the Public Knowledge Project through its federally funded efforts to expand and improve access to research.

OpenSearch

An extension of RSS by Amazon that allows search engines to publish their results to each other. Similar to SRW. Allows a9.com to be used as a meta-search system that include your service.

OpenURL

A URL standard that is focused on resolving object descriptions (usually bibliographic citations). The resolver should take the user's context into account. A database can export an OpenURL link for an item not available in the database, and a resolver can search the other databases available at the user's location to see if the item is available online, requestable through ILL, etc.

P

Perl

A very powerful and common programming language, with the most evil syntax ever created.

PREMIS

See PREservation Metadata Implementation Strategies.

PREservation Metadata Implementation Strategies

An initiative to develop a set of core elements for preservation metadata for the purpose of long-term preservation of digital objects.

PURL

Persistent URL

Q

R

RDF

Resource Description Framework. It is a general-purpose XML language for describing objects, their properties, and their relationships. It is being used as the basis for the "Semantic Web".

S

Solr

Solr is a web services interface to Lucene. It has much in common with XTF.

Spring

Spring is a layered Java/J2EE application framework, based on code published in Expert One-on-One J2EE Design and Development by Rod Johnson (Wrox, 2002).

SRB

Storage Resource Broker. A way to manage storage. Clients are only aware of directories on a filesystem, but these directories may be stored on any combination of physical devices.

SRU/SRW

A URL/XML standard that is focused on searching library catalogs. Results are always presented in XML.

Struts

A very popular Java presentation framework.

T

Tapestry

The Tapestry framework is another approach to the user interface issue in Web applications. It is an alternative to JSP and other similar approaches, and relies on a sophisticated object model instead of a pure templating approach.

TEI

Text Encoding Initiative: A complex method for marking up textual documents.

Tomcat

An open-source Servlet container from Apache.

TripleStore

An RDF Database. All "triples" in a TripleStore have the form: subject, predicate/property, object/value. For example: (DLP, "type", "organization"), (DLP, "size", 30), (DLP, "name", "Digital Library Program"), etc.

U

URL

Universal Resource Locator

V

Valet

A collection of open source tools designed to integrate into [Fedora](#).

Velocity

Velocity is a Java-based template engine. It permits anyone to use a simple yet powerful template language to reference objects defined in Java code.

Visual Resources Association

An image metadata standard. The VRA Core Categories, Version 3.0 consist of a single element set that can be applied as many times as necessary to create records to describe works of visual culture as well as the images that document them.

VRA Core

See Visual Resources Association

VTLS

The company who manufactures VTLS Valet.

W

X

XACML (eXtensible Access Control Markup Language)

Used by Fedora and Variations2.

XML (eXtensible Markup Language)

XTF (eXtensible Text Framework)

Essentially a wrapper around Lucene that provides some functionality for handling XML and standard digital library formats.

XSL (eXtensible Stylesheet Language)

for transforming XML files.

Y

Z