

# Digital Library Glossary

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## 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