



Taller del Certificado edición de revistas electrónicas

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Conceptos básicos

Metainformación

"Metainformation is information about information. For example, a if a document is considered to be information, its title, location, and subject are examples of metainformation. This term is sometimes used interchangably with the term metadata."

Metaetiquetas (metatags)

"Conjunto de datos de identificación y/o descripción de un recurso de información, disponible en Internet, para su recuperación. Basado en algún sistema de o norma reconocida, por ejemplo "Dublin Core".



Conceptos básicos...

Metadatos

"Metadata is structured information that describes, explains, locates, or otherwise makes it easier to retrieve, use, or manage an information resource. Metadata is often called data about data or information about information."

...metadata is commonly used for any formal scheme of resource description, applying to any type of object, digital or non-digital.

 Metadata can describe resources at any level of aggregation. (Ex. Collection, single resource, a component part of a larger resource (photograph in an article).



Tipos de metadatos

Descriptivos

"describes a resource for purposes such as discovery and identification. It can include elements such as title, abstract, author, and keywords." (FRONT en XML- JATS)

Estructurales

"indicates how compound objects are put together, for example, how pages are ordered to form chapters."

(BODY en XML-JATS)

Administrativos

"provides information to help manage a resource, such as when and how it was created, file type and other technical information, and who can access it. There are several subsets of administrative data; two that sometimes are listed as separate metadata types are:

- Rights management meta- data, which deals with intellectual property rights, and
- Preservation metadata, which contains information needed to archive and preserve a resource." (BACK and Float Group en XML-JATS)

http://marciazeng.slis.kent.edu/metadatabasics/types.htm



An important reason for creating descriptive metadata is to facilitate discovery of relevant information. In addition to resource discovery, metadata can help organize electronic resources, facilitate interoperability and legacy resource integration, provide digital identification, and support archiving and preservation.



Funciones de los metadatos

Resource Discovery

- allowing resources to be found by relevant criteria;
- identifying resources;
- bringing similar resources together;
- distinguishing dissimilar resources; and
- giving location information

Organizing Electronic Resources

As the number of Web-based resources grows exponentially, aggregate sites or portals are increasingly useful in organizing links to resources based on audience or topic.



Funciones de los metadatos...

Interoperability

Describing a resource with metadata allows it to be understood by both humans and machines in ways that promote interoperability. Interoperability is the ability of multiple systems with different hardware and software platforms, data structures, and interfaces to exchange data with minimal loss of content and functionality. Using defined metadata schemes, shared transfer protocols, and crosswalks between schemes, resources across the network can be searched more seamlessly.

- Two approaches to interoperability are cross-system search and metadata harvesting.
- Protocolo Z39.50 es mayormente utilizado para "cross-system search"
- Open Archives Initiative permite a todos los proveedores de datos transferir sus metadatos nativos a un "common core set of elements" y exponerlos para recuperación o cosecha (harvesting).



Funciones de los metadatos...

Digital Identification

Most metadata schemes include elements such as standard numbers to uniquely identify the work or object to which the metadata refers. The location of a digital object may also be given using a file name, URL (Uniform Resource Locator), or some more persistent identifier such as a PURL (Persistent URL) or DOI (Digital Object Identifier). Persistent identifiers are preferred because object locations often change, making the standard URL (and therefore the metadata record) invalid.



Funciones de los metadatos...

Archiving and Preservation

Digital information is fragile; it can be corrupted or altered, intentionally or unintentionally. It may become unusable as storage media and hardware and software technologies change. Format migration and perhaps emulation of current hardware and software behavior in future hardware and software platforms are strategies for overcoming these challenges.

Metadata is key to ensuring that resources will survive and continue to be accessible into the future.

Archiving and preservation require special elements to track the lineage of a digital object (where it came from and how it has changed over time), to detail its physical characteristics, and to document its behavior in order to emulate it on future technologies.



Funciones de los metadatos

3.3 Getty's definitions on types of metadata

Туре	Definition	Examples
Administrative	Metadata used in managing and administering collections and information resources	Acquisition information Rights and reproduction tracking Documentation of legal access requirements Location information Selection criteria for digitization
Descriptive	Metadata used to identify and describe collections and related information resources	Cataloging records Finding aids Differentiations between versions Specialized indexes Curatorial information Hyperlinked relationships between resources Annotations by creators and users
Preservation	Metadata related to the preservation management of collections and information resources	Documentation of physical condition of resources Documentation of actions taken to preserve physical and digital versions of resources, e.g., data refreshing and migration Documentation of any changes occurring during digitization or preservation
Technical	Metadata related to how a system functions or metadata behaves	Hardware and software documentation Technical digitization information, e.g., formats, compression ratios, scaling routines Tracking of system response times Authentication and security data, e.g., en cryption keys, passwords
Use	Metadata related to the level and type of use of collections and information resources	Circulation records Physical and digital exhibition records Use and user tracking Content reuse and multiversioning information Search logs Rights metadata

Murtha Baca ed.(2008).

Introduction to Metadata Version 3.

Getty Information Institute. Table 2.



Dublin Core

- Ohio College Library Center (OCLC) and National Center for Supercomputing Applications (NCSA) 1995
- The original objective of the Dublin Core was to define a set of elements that could be used by authors to describe their own Web resources.
- The Dublin Core was developed to be simple and concise, and to describe Web-based documents. However, Dublin Core has been used with other types of materials...
- All Dublin Core elements are optional and all are repeatable. The elements may be presented in any order.



Ejemplo

Source:

Murtha Baca ed.(2008).

Introduction to Metadata Version 3.

Getty Information Institute, Table 2.

3 4 Dublin Core's elements outline

DUBLIN CORE Metadata Element Set (= "simple Dublin Core)

Website: http://dublincore.org/

DC Element set

Content	Intellectual Property	Instantiation
Coverage	Contributor	Date
Description	Creator	Format
Туре	Publisher	Identifier
Relation	Rights	Language
Source		
Subject		
Title		

Additional notes

Majority of the descriptive metadata are manually created (refer to Section 2) using various tools (refer to Section 5).

Technical metadata may be automatically captured by a software.

• E.q., what is the resolution of this satellite image? What is its size? Will it be too large to download to a smart phone or too small to zoom-in? -- Adobe Bridge can help to provide technical metadata for each digital file like this.

Use metadata can be learned.

- · Publishers, social media, and marketing services have been using such data collected based on usage
 - e.g., about a published or posted item: number of times is has been viewed, downloaded, discussed, reviewed, recommended, shared, or cited, and viewed or bought together with another thing.

Descriptive metadata can also be crawled through computer programing or APIs.

 Características revistas electrónicas LATINDEX (34-36)

http://www.redalyc.org/infope.oa?page=/politica-editorial/metodologiaevalua.html

Glosario LATINDEX

http://www.latindex.org/lat/documentos/Glosario Latindex esp.pdf

Metodología REDALYC (Criterios 56-60)

http://www.redalyc.org/infope.oa?page=/politica-editorial/metodologiaevalua.html



Ejercicio de práctica



XML

- ¿Qué es XML?
 - EXtensible Markup Language
 - Lenguaje de meta-marcado
 - Provee un método uniforme para intercambiar metadatos.



XML y HTML

- HTML es un lenguaje para presentar páginas web;
 XML no lo es.
- HTML tiene unas etiquetas establecidas (ej. para párrafo); XML permite definir etiquetas propias.



Estructura básica de XML

- Elementos
- Etiquetas
- Atributos



Ejemplo

Title

Repertorio histórico de Puerto-Rico.

Summary

Cayetano Coll y Toste was born in Arecibo, Puerto Rico in 1850 and became a doctor of medicine at the University of Barcelona, Spain in 1874. He was an important nineteenth-century Puerto Rican historian who brought the techniques of modern historical methodology to bear on the study of Puerto Rican history. His works corrected many of the errors and misconceptions found in previous histories of the island. His most famous work was Boletín histórico de Puerto Rico, which he edited into fourteen volumes between 1914 and 1927.

Contributor Names

Coll y Toste, Cayetano, 1850-1930.

Created / Published

Puerto Rico: Sucesion de J.J. Acosta, 1896.

Subject Headings

- Puerto Rico-History--Periodicals

Notes

- "Director propietario, Cayetano Coll y Toste."
- Also available in microform
- Microfilm. Año 1, núm. 1(Nov. 1896) Washington: Library of Congress Preservation Microfilming Program:
 Available from Library of Congress Photoduplication Service. 1966. 1 microfilm reel; 35 mm. d18961897dcuuua

Call Number/Physical Location

F1951

https://www.loc.gov/item/2005700060/



Ejemplo

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 ▼<title>
    Repertorio histórico de Puerto-Rico. [electronic resource].
   </title>
   <creator>Coll y Toste, Cayetano, 1850-1930.</creator>
   <type>text</type>
   <publisher>Puerto Rico : Sucesion de J.J. Acosta,/publisher>
  <date>1896.</date>
  <language>spa</language>
 ▼ <description>
    Cayetano Coll y Toste was born in Arecibo, Puerto Rico in 1850 and became a doctor of medicine at the University of Barcelona, Spain in 1874. He
    was an important nineteenth-century Puerto Rican historian who brought the techniques of modern historical methodology to bear on the study of
    Puerto Rican history. His works corrected many of the errors and misconceptions found in previous histories of the island. His most famous work
    was Boletín histórico de Puerto Rico, which he edited into fourteen volumes between 1914 and 1927.
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    Cayetano Coll y Toste was born in Arecibo, Puerto Rico in 1850 and became a doctor of medicine at the University of Barcelona, Spain in 1874. He
    was an important nineteenth-century Puerto Rican historian who brought the techniques of modern historical methodology to bear on the study of
    Puerto Rican history. His works corrected many of the errors and misconceptions found in previous histories of the island. His most famous work
    was Boletín histórico de Puerto Rico, which he edited into fourteen volumes between 1914 and 1927.
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  <relation>Also available in microform (Microfilm 38852).</relation>
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https://www.loc.gov/item/2005700060/

</srw dc:dc>



Ejercicio de práctica

 Catalogar artículo de revista académica utilizando la plantilla xml para importar metadatos al Open Journal Systems.



Marcalyc

XML-JATS

https://xmljatsredalyc.org/2016/07/28/que-es-xml-jats/

Journal Article Tag Suite (JATS)

https://jats.nlm.nih.gov/



Ejemplos de metadatos de revistas

Journal metadata

https://jats.nlm.nih.gov/archiving/taglibrary/1.1d1/n-qcf0.html

Article metadata

https://dtd.nlm.nih.gov/publishing/tag-library/2.2/n-5wc0.html



Referencias

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Méndez Rodríguez, E. (2002). *Metadatos y recuperación de información: Estándares, problemas y aplicabilidad en bibliotecas digitales*. Madrid: Ediciones Trea.

Understanding Metadata. (2004). Bethesda, MD: NISO Press. Retrieved from

http://www.niso.org/publications/press/UnderstandingMetadata.pdf



Gracias!

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