Metadata: A Love Letter to the Future

LOVE DATA WEEK WORKSHOP

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Overview

What is metadata?

What can we do with metadata?

How do we do the things?

How do we share the things?

Why does metadata matter?

What is metadata?

WHY IS IT IMPORTANT?



Definition

Data about data.*

*Quite possibly the least helpful definition ever.

Try, Again

"Perhaps a more useful, 'big picture' way of thinking about metadata is as the sum total of what one can say at a given moment about any **information object** at any level of aggregation."

From Gilliland, A. (2016). Setting the Stage. In M. Baca (Ed.) *Introduction to Metadata*. (3rd ed.) (pp. 1-20). Los Angeles, CA: Getty Publications. http://www.getty.edu/publications/intrometadata/

Or, Maybe

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

Information What?

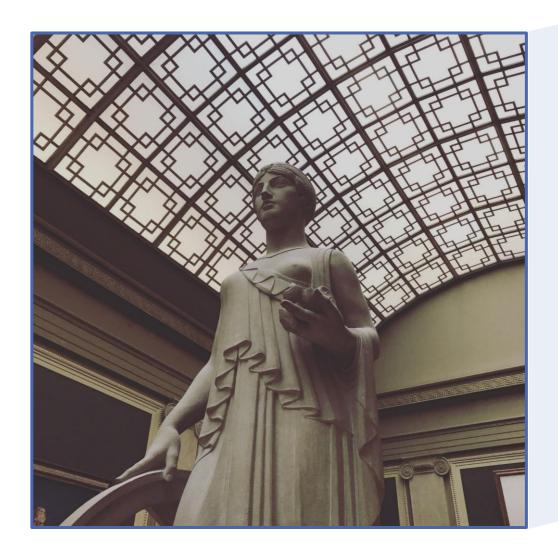
Information Object or Information Resource = Stuff You Care About

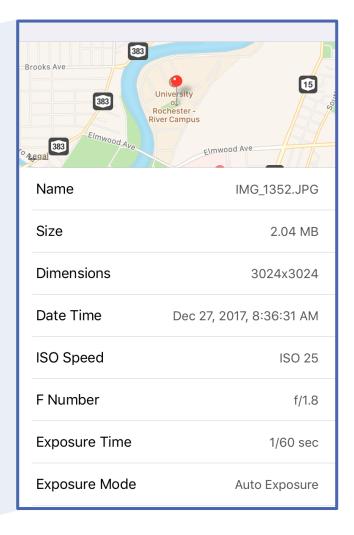
What is metadata?

WHAT IS IT MADE OF?

Statements About Resources

Metadata is comprised of structured statements about resources







About the Catalog

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Filter by

NYU Datasets Only

Subject Domain

Electronic Health Records 162 Chronic Disease 101 Delivery of Health Care 94 92 Risk Factors Population Characteristics 61 Health Status 53 52 Quality of Health Care 38 Surgery 32 Cancer 27 Health Care Utilization Health Care Costs 21 Mental Health 13 Anatomy Genomics

Geographic Coverage

AMA Physician Masterfile

Description The AMA Physician Masterfile includes education, training and professional certification information on virtually all Doctors of Medicine (MD) and Doctors of

Osteopathic Medicine (DO) in the United States, Puerto Rico, Virgin Islands, and certain Pacific Islands. It includes current and historical data for more than 1.4

million physicians, residents, and medical students in the United States. This...

Subject Delivery of Health Care

Population Characteristics

Access Rights Fee Required

Local Expert for NYU Heather Gold

Accuracy of preoperative imaging for myomectomy: NYU Langone Health EHR NYU Dataset

Description This dataset was compiled as part of a project to investigate the accuracy of presurgical imaging, either MRI and transvaginal (TVUS) ultrasound, in determining the

number, location and weight of fibroids in a patient who underwent myomectomy. Data is included on all NYU Langone Health - Tisch patients who underwent

myomectomy (either robotic, laparoscopic, or laparotomy) between January 1, 2014, and...

Subject Electronic Health Records

Surgery

Access Rights Application Required

NYU Langone Health Only

Local Expert for NYU Taraneh Shirazian

Feedback

What can we do with metadata?

Metadata Allows Us To **Do** Things

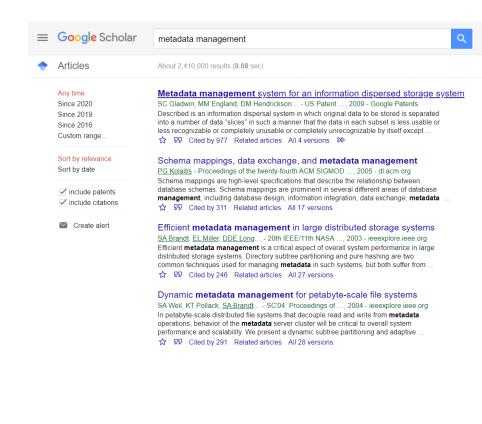
...with information and stuff:

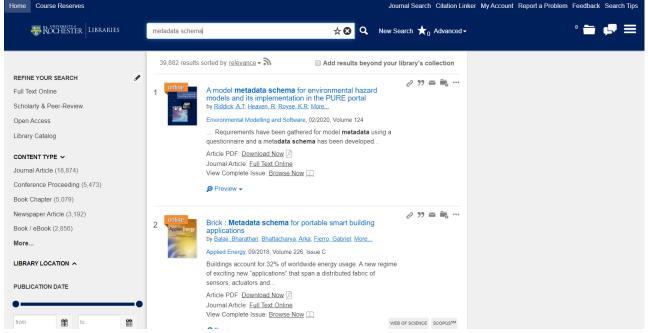
Discover

Connect

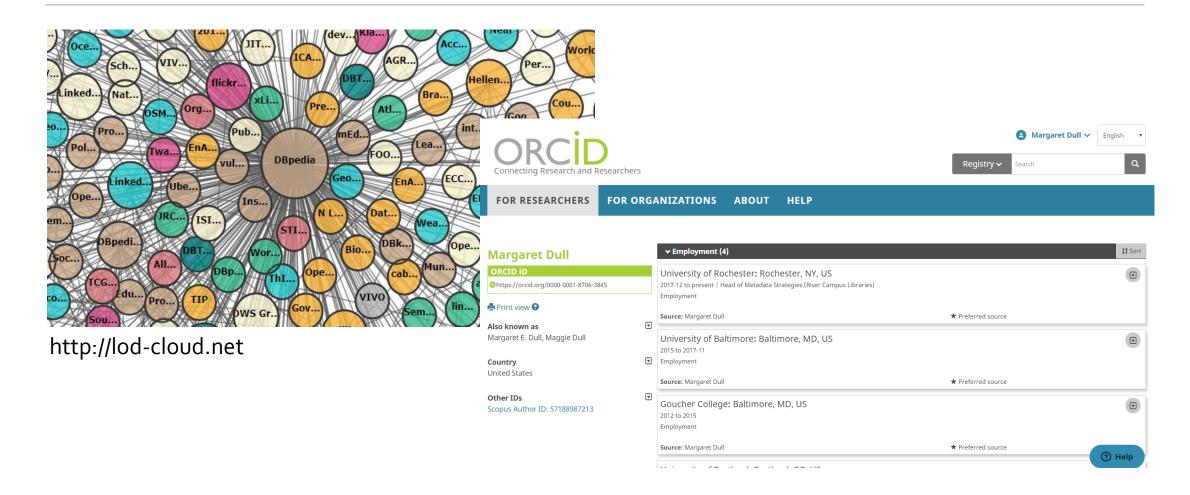
Preserve and Manage

Discover

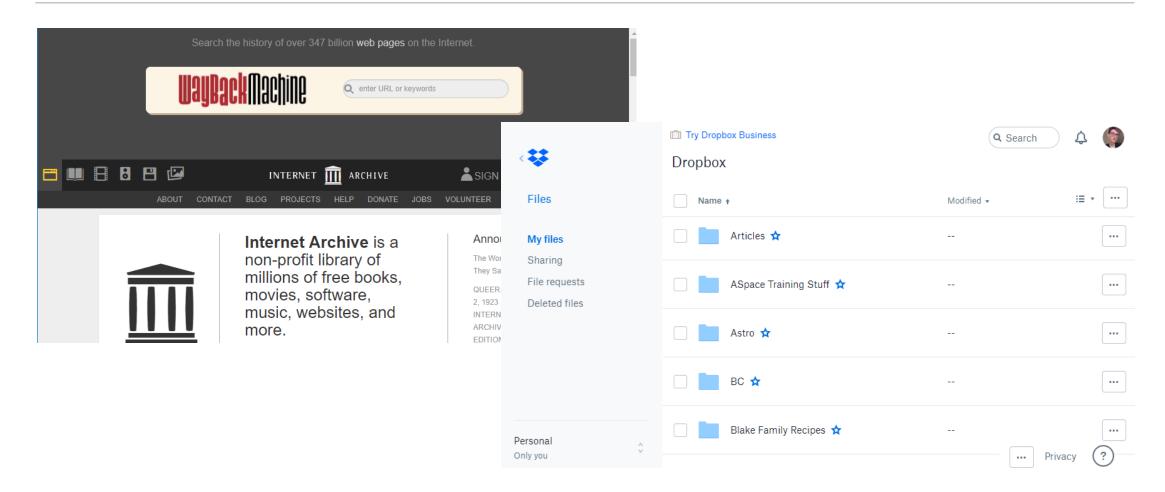




Connect



Preserve and Manage



How do we do the things?

CONSIDERING STATEMENTS

Types of Metadata Statements

Descriptive

Administrative

Structural

Descriptive Metadata

Helps you identify or describe your stuff.

- Title, author, edition...
- Date, time, duration, geographic location...
- File name, file type, who created the file...

Administrative Metadata

Helps you manage and administer your stuff.

- Technical metadata often relates to information about the file itself.
- **Rights** metadata helps you understand the intellectual property rights regarding the resource.
- Preservation metadata helps you manage the files over a period of time.

Structural Metadata

Helps you define the relationship between parts.

- Defines chapters or sections within chapters.
- Relationship between subsets of a dataset.

How do we do the things?

PAUSE TO CONSIDER YOUR STUFF

Ask Yourself

- •What do you have?
- •What do you want to do with it?
- •What can you say about it?
- •Who is your audience?

Know Your Audience

STUDENT ASSIGNMENTS

Assignment1.pdf

Assignment1(2).pdf

ASKING FOR HELP

"I need that book on Matthew Vassar. The cover is red." You can only leverage metadata that you have or that you can understand.

Title Letters of Matthew Vassar available in the Vassar College Library / compiled by the Bibliography Department, Vassar College Library, 1963

Imprint [Poughkeepsie, New York]: [Vassar College], [1965]

LOCATION	CALL #	STATUS
Archive/SpecColl (VC)	LD7182.65.V3 L48 1965 1	LIB USE ONLY
Archive/SpecColl (VC)	LD7182.65.V3 L48 1965 2	LIB USE ONLY
Archive/SpecColl (VC)	LD7182.65.V3 L48 1965 3	LIB USE ONLY
Archive/SpecColl (VC)	LD7182.65.V3 L48 1965 4	LIB USE ONLY

Descript 4 volumes (ciii, that is cxii, 538 leaves); 29 cm

Subject Vassar, Matthew, 1792-1868 -- Correspondence

Vassar College -- History

Add Na/Ti Vassar, Matthew, 1792-1868, author

Vassar College. Library, compiler

Reminder

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

From Hodge, G. M. (2004). Understanding Metadata. Bethesda, MD: NISO Press.

Date: 06-08-10

How do we share the things?

METADATA SCHEMA

Metadata Schema

What is a schema?

A set of metadata definitions focused on the resources you are describing and/or a community of practice.

What does it do?

Schema create common vocabulary and semantics so that your audience understands your metadata and its structure.

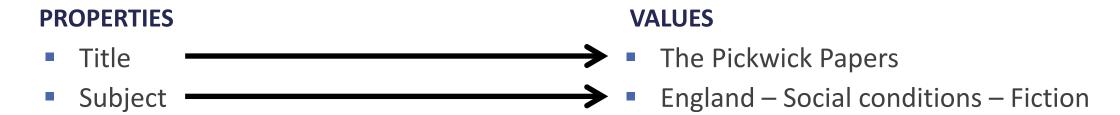
Making Statements with Metadata Schemas

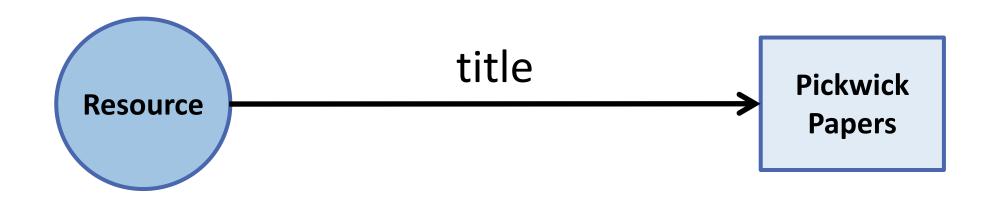
"Metadata schemes (also called schema) are sets of **metadata elements** designed for a **specific purpose**, such as describing a particular type of information resource. The definition or meaning of the elements themselves is known as the **semantics** of the scheme. The values given to metadata elements are the **content**."

(Hodge's *Understanding Metadata*)

Creating Statements

Statements about resources are made up of properties and values.

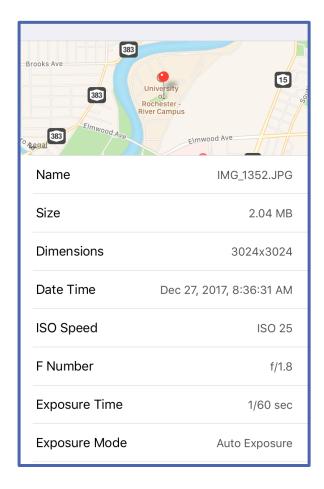




Properties and Values

Metadata Schemas, such as Dublin Core, provide the **properties** we can use to make our statements.

Also makes suggestions to the to kinds or types of values that go best with each property. These include controlled vocabularies or data formats (e.g., date).



erm Name: date			More details	
URI	http://purl.org/dc/terms/date			
Label	Date			
Definition	A point or period of time associated with an event in the lifecycle of the resource.			
Comment	Date may be used to express temporal informate the date, date/time, or period of time according standard, such as the W3C Note on Date and Ti Specification [EDTF]. If the full date is unknown, ranges may be specified using ISO 8601 period a '/' (slash) character. Either the start or end date	to ISO 8601-1 [<u>ISO 8601-1</u>] or me Formats [<u>W3CDTF</u>] or the E month and year (YYYY-MM) or of time specification in which s	a published profile of the ISO xtended Date/Time Format just year (YYYY) may be used. Date	
Type of Term	Property			
Has Range	http://www.w3.org/2000/01/rdf-schema#Litera	Term Name: title		
Subproperty of	• <u>Date</u> (http://purl.org/dc/elements/1.1/da			
		URI	http://purl.org/dc/terms/title	е
		Label	Title	
		Definition	A name given to the resource	ce.
		Type of Term	Property	
		Has Range	http://www.w3.org/2000/01	/rdf-schema#Literal
		Subproperty of	• <u>Title</u> (http://purl.org/c	dc/elements/1.1/title)

Reduce, Reuse, Recycle

Many communities of practice have established metadata schema that you can adopt.

- Reduce: do not re-invent the wheel
- Reuse: borrow and use statements created by others
- Recycle: others can borrow and use your statements

Appendix B: Metadata Elements

Metadata Element	Description	Dublin Core Value
Dataset Name / Title	The name of the dataset as it will appear on the plat- form.	
Dataset Description	Short description that explains the purpose of the Dataset and the data within	Descrip- tion
Category	The general category that the dataset is included in on the site (The categories include: Economic Development, Education, Energy & Environment, Government & Finance, Health, Human Services, Public Safety, Recreation, Transparency, and Transportation).	Туре
Tags / Keywords	Keywords about the dataset used for searching purposes.	Subject
Data Provided By	The Agency that provided the data.	Contribu- tor
URL to Dataset Pro- gram Web Page	The URL to the program area web pages.	n/a
Responsible Organiza- tion Within Agency	The organization that the dataset owner is a part of	Creator
Time Period	The timeframe of data available in the associated data file (e.g., Beginning 2005).	Coverage (temporal)
Create Date	The date the resource was made available in its present form – auto generated	Date
Posting Frequency	How often the Dataset will be refreshed (e.g., Annually, Monthly, Daily).	n/a
Contact e-mail infor- mation	The email address the viewers of the data can use to ask questions about the dataset	n/a



NEW YORK STATE

OPEN DATA HANDBOOK

data.ny.gov

http://ny.github.io/open-data-handbook/OpenDataHandbook.pdf

Why does metadata matter?

IN CONCLUSION

Metadata allows you to achieve your goals.

BUT, you can only leverage the metadata that you have.

Questions

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