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Metadata Quality Assurance: The University of North Texas Libraries Experience

Daniel Gelaw Alemneh & Hannah Tarver 3rd annual Texas Conference on Digital Libraries (TCDL) May 27-28, 2009

Document Representation

Document



Information Need

Match

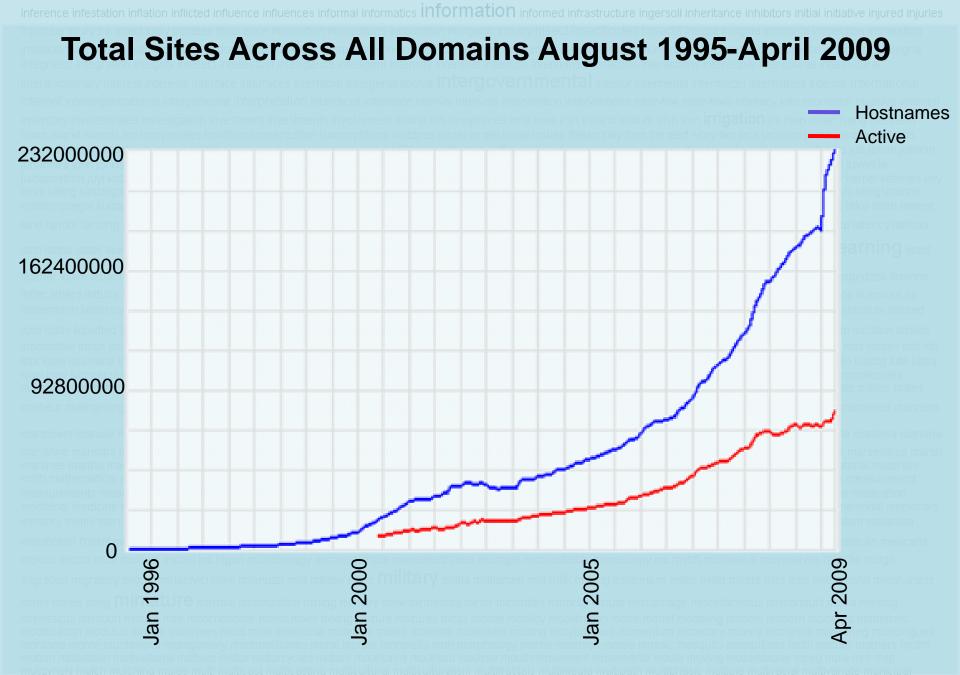
Bates, M. J. (1989). The design of browsing and berrypicking techniques for the online search interface. *Online Review, 13*(5), 407-424.



Information creation, organization, retrieval, use, and preservation is becoming more complex

User as creator, annotator, indexer, searcher, and eventual user of his/her content

Visualization of the information space instead of a ranked list of search results



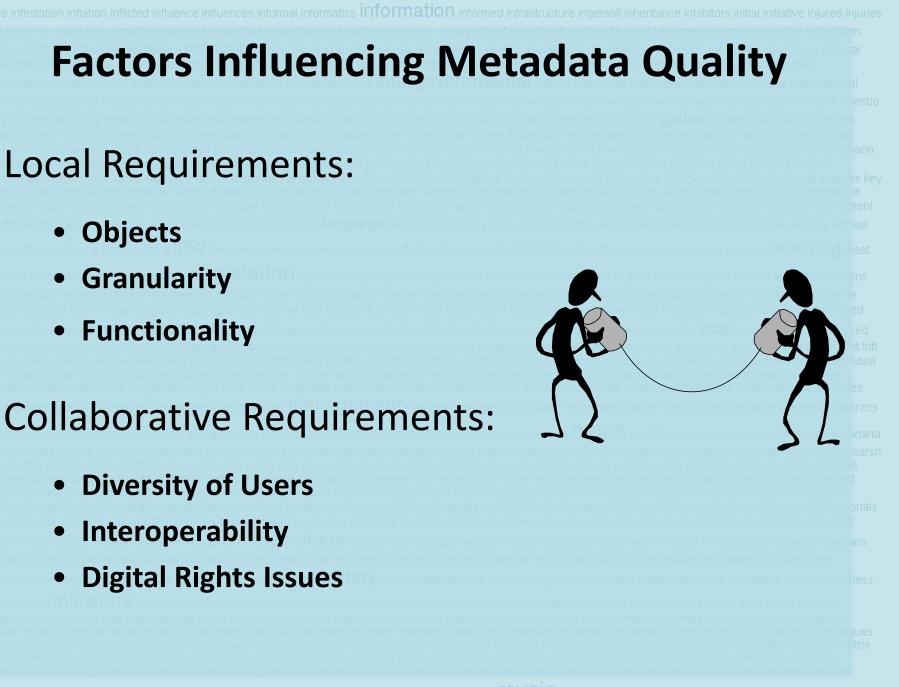
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UNIVERSITY OF NORTH TEXAS LIBRARIES DISCOVER THE POWER OF IDEAS

Digital Projects

- UNT Digital Collections
- Portal to Texas History
 - 100 + Collaborators
- Congressional Research Service Archives
- Other Statewide and National Projects



Poor Metadata Quality

Ambiguities

Poor recall

Poor precision

Inconsistency of search results

Common Errors

The data is:

Incorrect

Missing

Ambiguous

interence inter injurious injury installations in integrated inter interdisciplinat internet interc inventory inve islam island is jamaica james johannes john juxtaposition ju keys killing kin krämerspiegel

Metadata Quality Assurance Mechanisms & Tools at UNT

Pre-Ingest

Post-Ingest

Training

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Creation Tools

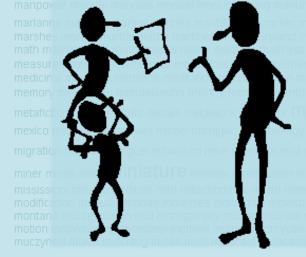
Proofing & Editing Tools

Analysis Tools

manners a mariana



- Face-to-Face Instruction
- Metadata Schema & Documentation
- Internal Project Wikis
- Staff Support



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Metadata Creation **Template**

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Template Reader

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Title(officialtitle):	Alexander Gregg: First Bishop of Texas		
Identifier(OCLC):	2629011		m
Note:] Is
Institution:	UNT		
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Creator	Name:	Gregg, Wilson	an
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Subject(LCSH):	Bishops Texas.		
Subject(LCSH):	Gregg, Alexander, 1	819-1893.	- 50
Subject(UNTL-BS):	People - Individuals		B
Subject(UNTL-BS):	Religion - Denominat	tions - Episcopal	- Dł
Subject(KWD):	biographies		1 0:
Description:	Biography of Alexander Gregg includes background information about his family as well as a sketch of his life and involvement in the church throughout his career until his death in 1893.		
Physical Description:	x, 138 p. : ill., ports. ; 20 cm.		ar
Date Created:	1912		18
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Resource Type:	text_book		
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UNT Metadata Analysis Tools: Post-ingest

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Reports:

- <u>NULL Values</u>
- List All Values
 - List Values by Institution
 - List Values by Collection
- Browse All Values
 - Browse Values by Institution
 - Browse Values by Collection
- List All Records
 - List Records by Institution
 - List Records by Collection
- Authorities Values

Graphs:

- Records Added Over Time
- Records Added Per Month
- Files Added Over Time
- Map of Texas
 - by Collection
 - by Institution

Other Stuff:

- Search PTH System
 - Search a Collection
 - Search a Institution
- Word Clouds
 - by Collection
 - by Institution
- Word List
 - by Collection
 - by Institution

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Values that are more than 90% similar to the previous value will be highlighted.

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ignore qualifiers | use qualifiers

all qualifiers

value	<u>count</u>
aut: Hare, Maud Cuney	1
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aut. Hartley, Oliver Cromwell, 1823-1859.	13
aut: Hartley, R. K.	12
aut: Hartnett, Minerva	1
aut: Hawker, H. W.	2
aut: Hawker, H. W. (Herman William)	12
aut: Hayes, F. A.	1
aut: Hays, Hugh	1
aut: Hazzard, J. L.	1
aut: Hearn, W. Edward (Williamson Edward)	3
aut: Henderson, J. P.	1
aut: Hendrickson, B. H. (Bertram Higbie)	4
aut: Hendrix, R.	1

Enhanced by Highlighter – On/Off

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ignore qualifiers | use qualifiers

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UNTL-BS - (64394)

value

UNTL-BS: Business, Economics and Finance - Medicine - Dentist UNTL-BS: Business, Economics and Finance - Medicine - Dentists UNTL-BS: Business, Economics and Finance - Medicine - Doctors UNTL-BS: Business, Economics and Finance - Medicine - Nurses UNTL-BS: Business, Economics and Finance - Medicine - Nurses UNTL-BS: Business, Economics and Finance - Medicine - Nursing Homes UNTL-BS: Business, Economics and Finance - Medicine - Red Cross

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Metadata Analysis: NULL

DC Element	Number that are NULL
DC Title	22
DC Creator	26390
DC Subject	1516
DC Description	0
DC Contributor	39967
DC Publisher	41885
DC Identifier	4942
DC Source	43613
DC Relation	45914
<u>DC Language</u>	271
DC Coverage	1241
DC Date	2125
DC Resource Type	287
DC Format	194
DC Rights	16171
UNTL Degree	46826

46828 Total Records

Null Value Analysis Tools

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Books

Maps

Explore by Type

Artwork

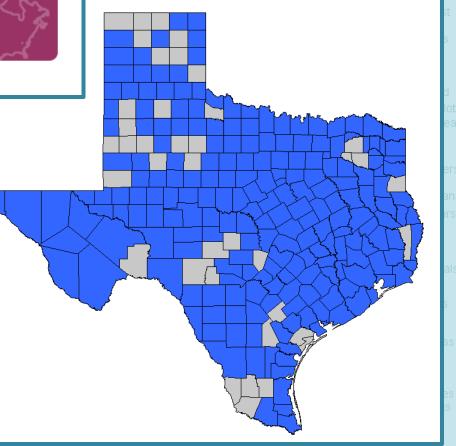
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Better Metadata

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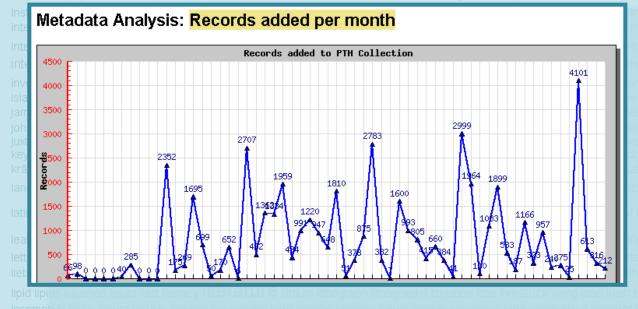
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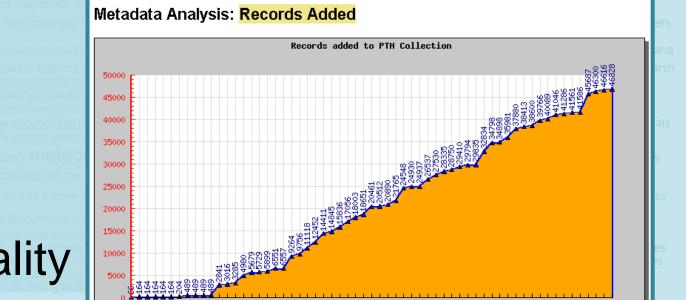
More Functionality

inference infestation inflation inflicted influence influences informal informatics **information** informed infrastructure ingersoll inheritance inhibitors initial initiative injured injuries injurious injury ink inlaid inlay inmates innocence innovation innovations inoculation inorganic inquiry insect insection destinations insight insight insight insight insection installation installation



Better Metadata

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More Functionality

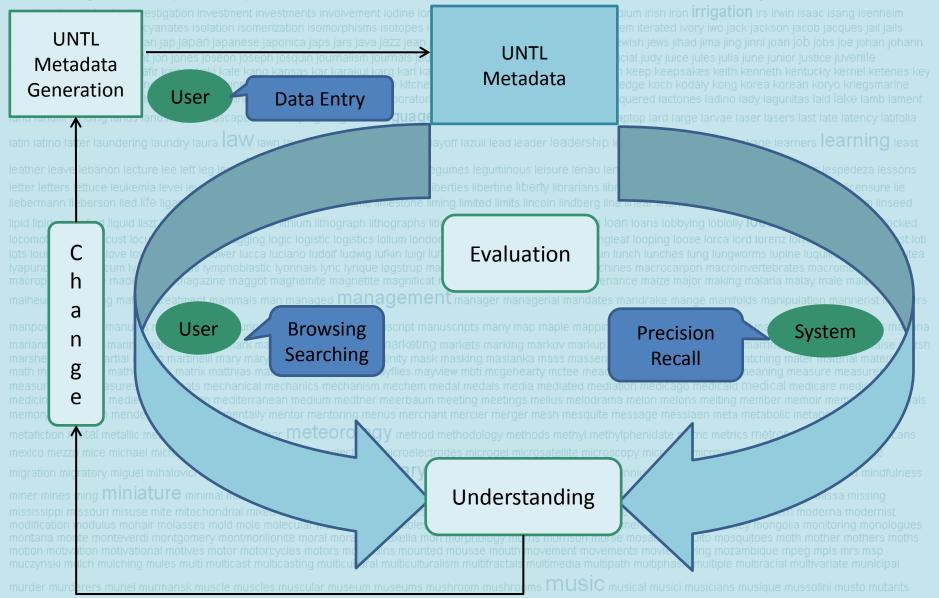
Summary

- Determine level of quality required
- Determine nature of gap and how to close it
 - Machine verses human error handling
 - Compromise
 - Prioritize
- Test the workflow



Measure Quality and Usefulness of UNT Metadata

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References & Web Sites Consulted Bates, M. J. (1989). The design of browsing and berrypicking techniques for the online search interface. Online Review, 13(5), 407-424. Netcraft (2009). April 2009 Web Server Survey. Retrieved May 19th, 2009 from http://news.netcraft.com/archives/web server survey.html OCLC (2007). Sharing, privacy and Trust in our Networked World. Retrieved May 19th, 2009 from http://www.oclc.org/reports/pdfs/sharing.pdf TechSmith, Co. (2008). "UX 2.0: Any User, Any Time, Any Channel." Retrieved May 19th, 2009 from: http://download.techsmith.com/morae/docs/UserExperience2 0.pdf UNT Libraries Metadata Initiative page. Retrieved May 19th, 2009 from: http://www.library.unt.edu/digitalprojects/metadata

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