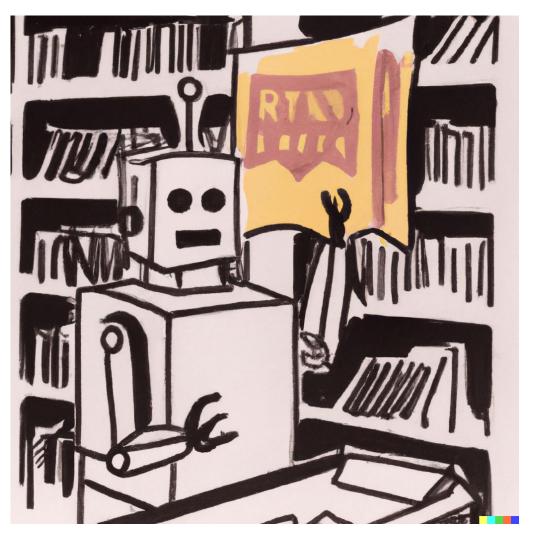
Using AI to format Alma item descriptions

WRLC's First Artificial Intelligence Project



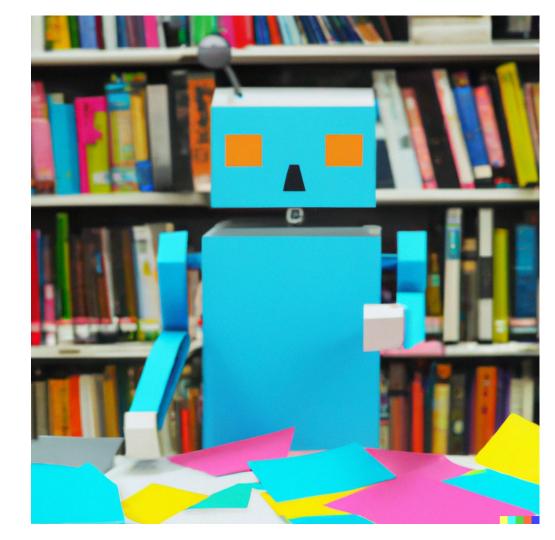


A Holy Grail of Shared Print

- Other tools like OpenRefine might work, but...
- Al is teachable and iterative
- This is the only way we'll all eventually get on the same page for shared print periodicals
- It's a project that can be done centrally to benefit all partners

Getting Started

Last year WRLC's recommendations for print periodicals were written by the Serial Holdings
Subgroup and approved by the WRLC Metadata
Committee.



The Proof of Concept

- Slowly refined a query with ChatGPT
- Item description templates
 were very helpful
- Great opportunity to begin learning to use AI
- ChatGPT free tier allows 100 lines of input which is plenty for testing a query statement





v.44 1998 v.23 (1997) 1998:v.1 1998:v.2 1998:v.3

[Guide to style: All description statements should begin with volume information if available like "v.101:". Then there should be number information if available like "no.3.". Then there should be issue information if available like "iss.7". Date information if available should be

enclosed in parentheses like "(2022: Mar. 21)". Statements starting with a 4 digit date should be rewritten as "v.2 (1998)". There should not be more than one hyphen in a statement. So

"v.33-36; (1976-1979)" should be reprinted as "v.33 (1976) - v.36 (1979)".] Reprint the following strings according to the style v.20:1990

v.1-3 1978-1980 v.4-6 1981-1983

v.7-10 1984-1987 v.44-46 1987-1989 v.29 (1972)-v.32 (1975) v.33-36 1976-1979 v.41-43 1984-1986 v. 53 1986

v.5 1981-1982 v.91:no.4-6 1983:Aug.-Dec.



[Guide to style All description statements should begin with volume information if available

should be issue information if available like "iss.7" pate information if available should be

enclosed in parentheses like "(2022: Mar. 21)". Statements starting with a 4 digit date should be rewritten as "v.2 (1998)". There should not be more than one hyphen in a statement. So

v.33-36. (1976-1979)" should be reprinted as "v.33 (1976) - v.36 (1979)".] Reprint the following strings according to the style v.20:1990 v.1-3 1978-1980 v.4-6 1981-1983 v.7-10 1984-1987 v.44-46 1987-1989

v.29 (1972)-v.32 (1975) v.33-36 1976-1979 v.41-43 1984-1986 v. 53 1986 v.5 1981-1982 v.91:no.4-6 1983:Aug.-Dec. v.44 1998 v.23 (1997) 1998:v.1 1998:v.2

1998:v.3



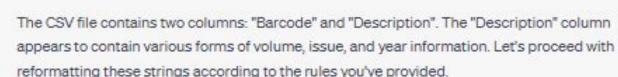
[Guide to style: All description statements should begin with volume information if available like "v.101:". Then there should be number information if available like "no.3,". Then there should be issue information if available like "iss.7". Date information if available should be enclosed in parentheses like "(2022: Mar. 21)". Statements starting with a 4 digit date should be rewritten as "v.2 (1998)". There should not be more than one hyphen in a statement. So "v.33-36: (1976-1979)" should be reprinted as "v.33 (1976) - v.36 (1979)".] Reprint all strings in the description column of the attached csy and write to a new column



find all volume statements.csv



Finished working Show work 🗸



Here are the rules summarized:

- All description statements should begin with volume information if available (e.g., "v.101:").
- Then there should be number information if available (e.g. "no 3")

	i tricie Silouid L	be issue informat	tion if available (e.g., "is	SS.1).		
4. Date	te information should be enclosed in parentheses (e.g., "(2022: Mar. 21)").					
5. State (199	ements starting with a 4-digit date should be rewritten (e.g., "1998 v.2" becomes "v.2 8)").					
6. Ther	re should not be	should not be more than one hyphen in a statement. So "v.33-36: (1976-1979)" should				
be re	eprinted as "v.3	3 (1976) - v.36 (19	979)".			
Pleas	se note that with	hout explicit exar	mples for each rule, so	me assumptions will be made in		
the in	nplementation.	If the results are	not as expected, plea	se provide examples for		
clarif	ication. Let's st	art with the refor	matting process.			
Finis	shed working	Showwork 🗸				
			tted according to the r	ules provided and written into a		
The	descriptions ha	ve been reformat		ules provided and written into a few rows of the dataframe look		
The c	descriptions have column named	ve been reformat				
The c	descriptions ha	ve been reformat				
The c	descriptions have column named	ve been reformat				
The c	descriptions have column named	ve been reformat				
The c	descriptions have column named reformatting:	ve been reformat "New Description	n". Here's how the first	few rows of the dataframe look		
The conew co	descriptions have column named reformatting:	ve been reformat "New Description	n". Here's how the first Description	few rows of the dataframe look New Description		

2. Then triefe should be number information in available (e.g., 10.0,).

What it can fix...

Original Item Description	Reformatted Item Description
v.30 aprjune 1994 pp.663-1350	v.30 (1994: AprJune) pp.663-1350
v.30, no.1 suppl. 1940	v.30: no.1 (1940) suppl.
Index v. 72 JanJune 1998	v.72 (1998: JanJune) Index

and what it can't.

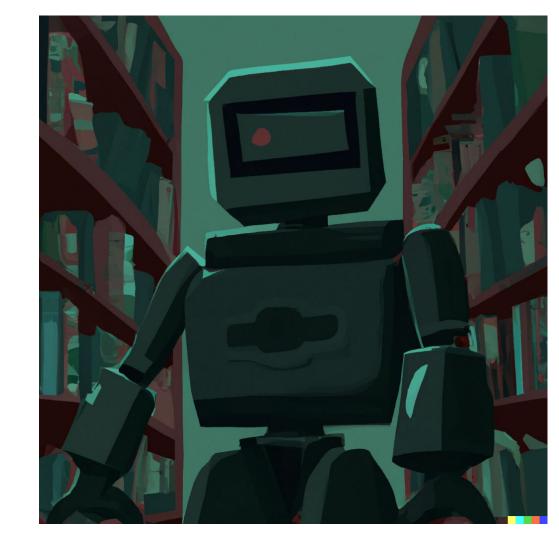
Original Item Description	Reformatted Item Description
v.39, pp. <mark>1623-3606</mark> Oct-Dec 1963	v.39 (1623-3606: OctDec.) pp. 1623-3606
January 1958 - November 1964 January 1958 -	
November 1964	(1958: JanJanNov.)
v.28, nos. 1 <mark>+</mark> 12 1981	v.28: no.1 (1981)

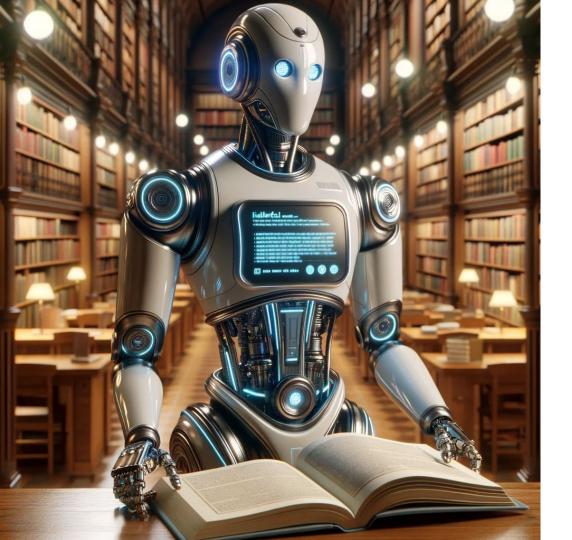
Checking our work...

Original Description	Reformatted Description	Missing information
v.92 pg.961-1944 1996	v.92 (1944) pg.961-1944	1996
Jan. 1981 - June 1982	(1981: JanJune)	1982
v.33:no.9,11 2020	v.33: no.9 (2020)	11
nos.3-5, 10	no.3-5	10

Next Steps...

- From normalized item descriptions, to 866s to coded fields
- National/international policies and templates for standardized 866s
- Or not!
- What other periodical problems can this solve?





Identifying Deaccessions

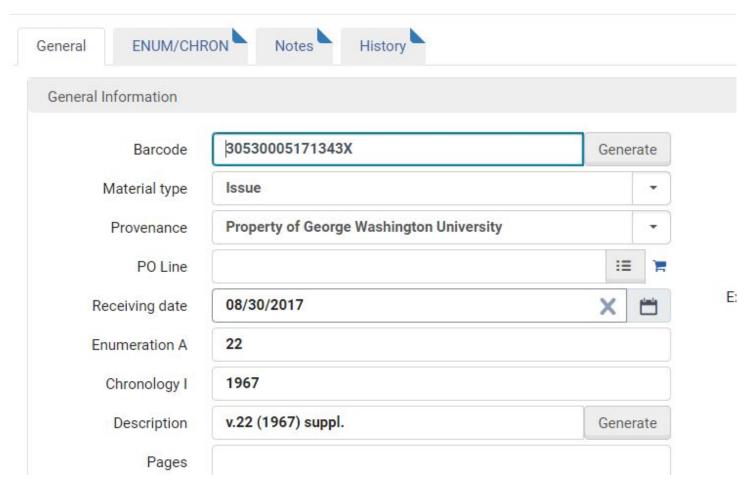
Potential Benefits of Al projects and development of new collection analysis tools

- Al for item descriptions
- New Alma collections analysis features
- Shiny with WorldCat
- KNIME Partnership

Q&A

Ask me some Qs and I'll try to A them

Physical Item Editor



Maximizing Storage

Materials in Shared Collections Facility in excess of current MOU requirements:

- Monographic titles in SCF 1 with possible excess copies: 124,553
- Serial titles in SCF 1 with possible excess copies: 9,427

