



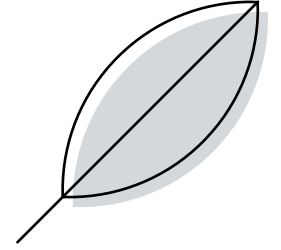
CREATING A MICROFORM RESOURCE TYPE ASSISTED BY CHATGPT

CAN LI

DISCOVERY & SYSTEMS
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Overview



- Why a microform resource type
- Challenges and methods
- Solution
- Feedback

San Francisco State University

- One of the 23 California State University (CSU) campuses
- Primarily four-year public university, FTE 18,000
- Part of the CSU Unified Library Management System(ULMS) :
Alma and Primo VE



Why a Microform Resource Type

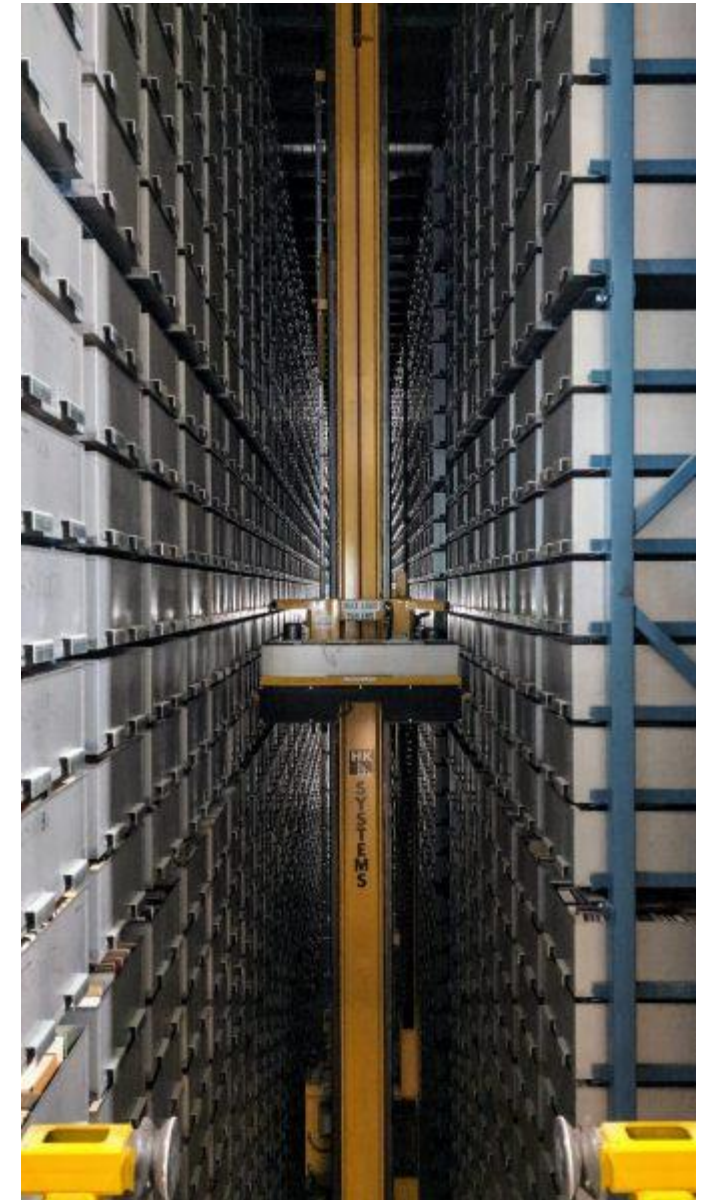


Why a Microform Resource Type

- Improve search results (deprioritize microform)

Configuration > Discovery > Search Configuration > Ranking Configuration

- Improve displaying and discovering



Deprioritize in Search Results

Resource Type Boosting

1 - 1 of 1

[+ Add Resource Type](#) ▾

Field

Name

Boosting Factor

Updated By

Last Updated

[+ Add Resource Type](#) ▾

Field *

🔍 Look-up or select ▾ ℹ

Maps

Market Researches

Microforms

Display Resource Type

BOOK

Bleaching of coral reefs in the Caribbean : hearing before a subcommittee of the Committee on Appropriations, United States Senate, One Hundredth Congress, first session : special hearing.

United States. Congress. Senate. Committee on Appropriations. Subcommittee on Commerce, Justice, State, the Judiciary, and Related Agencies

1988


 Available at Main Library **Microfiche/Microfilm** 3rd Floor (Y 4.Ap 6/2:S.hrg.100-499) >


MICROFORM

Bleaching of coral reefs in the Caribbean : hearing before a subcommittee of the Committee on Appropriations, United States Senate, One Hundredth Congress, first session : special hearing.

United States. Congress. Senate. Committee on Appropriations. Subcommittee on Commerce, the Judiciary, and Related Agencies.

Washington : U.S. G.P.O. : For sale by the Supt. of Docs., Congressional Sales Office; 1988

 Available at Hoskins Storage SUDOC microfiche (Y 4.Ap 6/2:S.hrg.100-499) >

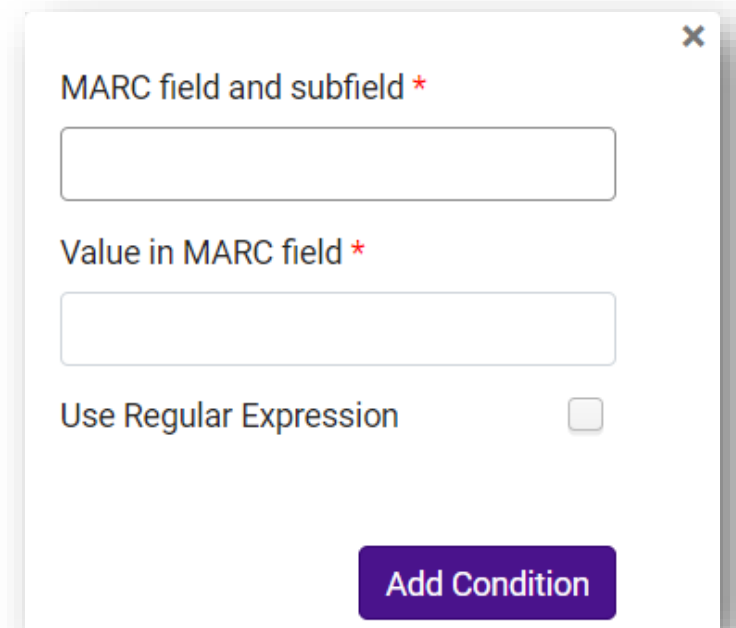
 Full Text Available at HathiTrust [↗](#)

Challenges and Methods



How to Add a Local Resource Type

- Alma Configuration > Discovery > Display Configuration > Resource types configuration > Add/Edit Resource Type Configuration > Custom Local Resource Types
- Mapping from MARC Records



The screenshot shows a dialog box titled 'Add Condition' with a close button (X) in the top right corner. It contains two text input fields. The first field is labeled 'MARC field and subfield *' and is currently empty. The second field is labeled 'Value in MARC field *' and is also empty. Below the second field is a checkbox labeled 'Use Regular Expression', which is currently unchecked. At the bottom right of the dialog is a purple button labeled 'Add Condition'.

Two Categories of Records Presumed



Microform	True	False
Map to custom resource type	✓	✗

Four Categories of Records



Resource Record	True	False
True	✓	
False		✗

Method I: Brainstorming with ChatGPT

1. What MARC21 fields are used for microform?
2. What fields OCLC uses for microforms?
3. What positions in 008 are for microform?
4. What format does this record describe?
5. What is the physical material type?

008 Form of item 23: a b
337
338
599 \$zFICHE



007/00 Category of material h
007/01 Specific material designation a b
245 (Title Statement) \$h [microform] GMD
300 (Physical Description) \$a 1 microfilm reel
340 (Physical Medium)
347 (Digital File Characteristics)
500
533 \$a Microfilm (reproduction note)

Method 2: a. Read MARC Record

```
leader 02725cam a2200517 a 4500
001 991009337389702901
005 20220509213023.0
008 900830s1988 dcuab b f000 0 eng c
010 ##$a 88601634
035 ##$a(OCOLC)17696556
035 ##$a(OCOLC)ocm17696556
040 ##$aDGPO/DLC $beng $cDLC $dGPO $dBCTA $dWU $dOCLC $dVPI $dOCLCQ $dOCLCO
043 ##$acc----- $an-us---
050 00$aKF26 $b.A659 1987a
074 ##$a1033, 1033-A (microfiche)
082 00$a333.95/2 $220
086 0#$aY 4.Ap 6/2:S.hrg.100-499
110 1#$aUnited States. $bCongress. $bSenate. $bCommittee on Appropriations. $bSubcommittee on Commerce, Justice, State, the Judiciary, and Related Agencies.
245 10$aBleaching of coral reefs in the Caribbean : $bhearing before a subcommittee of the Committee on Appropriations, United States Senate, One Hundredth Congress,
260 ##$aWashington : $bU.S. G.P.O. : $bFor sale by the Supt. of Docs., Congressional Sales Office, $c1988.
300 ##$aiii, 142 pages : $billustrations, maps ; $c24 cm
336 ##$atext $btxt $2rdacontent
337 ##$aunmediated $bn $2rdamedia
338 ##$avolume $bnc $2rdacARRIER
490 1#$aS. hrg. : $v100-499
530 ##$aAlso available in digital form on the Library of Congress Web site.
500 ##$a"Fiscal year 1988"--Cover.
500 ##$aDistributed to some depository libraries in microfiche.
500 ##$ashipping list no.: 88-193-P.
500 ##$aItem 1033, 1033-A (microfiche).
504 ##$aIncludes bibliographical references.
650 #0$aCoral bleaching $zCaribbean Sea.
650 #0$aCoral reef conservation $zUnited States.
650 #0$aCoral reefs and islands $zCaribbean Sea.
650 #6$aBlanchissement des coraux $zAntilles, Mer des.
650 #6$aConservation des récifs coralliens $zÉtats-Unis.
650 #7$aCoral bleaching. $2fast $0(OCOLC)fst01744068
650 #7$aCoral reef conservation. $2fast $0(OCOLC)fst00878842
650 #7$aCoral reefs and islands. $2fast $0(OCOLC)fst00878858
651 #7$aCaribbean Sea. $2fast $0(OCOLC)fst01244087
651 #7$aUnited States. $2fast $0(OCOLC)fst01204155
776 08$iOnline version: $aUnited States. Congress. Senate. Committee on Appropriations. Subcommittee on Commerce, Justice, State, the Judiciary, and Related Agencies.
810 1#$aUnited States. $bCongress. $bSenate. $tS. hrg. : $v100-499.
856 41$ahttp://hdl.loc.gov/loc.law/l1conghear.00011580270
994 ##$a92 $hCAC
```

Method 2: b. Using Alma Search, MDE

Facets

- Material Type**
 - Book (866)
 - Journal (16)
 - Map (49)
 - Mixed material (4)
- Resource Type**
 - Book - Physical (856)
 - Journal - Physical (1)
 - Manuscripts - Physical (1)
 - Map - Physical (49)
 - Microforms (23)**
 - Mixed materials (1)
 - Other Serial - Physical (3)
 - Other Serial (Ceased public)
- Language**
 - English (933)
 - French (1)
 - Undetermined (2)

Physical Titles (1 - 20 of 935)

where (Medium Type equals "microform" AND Material type equals "Microfiche")

Save and Filter Query
Push Selected to MDE

Institution Network Community

Select All Sort by: Publication Date - Asc Secondary Sort by: Rank 0 rows selected Expand


1	<input type="checkbox"/>	Seventh census of the United States [microform] : original returns of the Assistant Marshalls : first series : white and free colored population : vol. : containing the count of : June 30, 1850.	Edit Record	Holdings	...
		Mixed material By United States. National Archives and Records Service. (1850.)	Medium Type: microform	MMS ID: 991009738219702918	
		Subject: California--Census, 1850. United States--Census, 7th, 1850. California. and others	Language: English		
		Creation Date: 06/13/2017 05:39:49 AM PDT	Record number: (OCoLC)14375302		
		Modification Date: 04/25/2024 01:33:03 AM PDT			
		● Physical (1) Other details			

2	<input type="checkbox"/>	Honey. [microform].	Edit Record	Holdings	...
---	--------------------------	----------------------------	-----------------------------	--------------------------	---------------------

True Positive |



1. Resource is microform
2. Record is microform
3. Mapping rule works on the correct records

 **Seventh census of the United States [microform] : original returns of the Assistant Marshalls : first series : white and free colored population : vol. : containing the count of : June 30, 1850.**

Mixed material By United States. National Archives and Records Service. (1850.)


Subject: California--Census, 1850. United States--Census, 7th, 1850. California. and others

Creation Date: 06/13/2017 05:39:49 AM PDT

Modification Date: 04/25/2024 01:33:03 AM PDT


Medium Type: microform

Language: English

Record number: (OCoLC)14375302 

MMS ID: 991009738219702918



 Physical (1)

Other details

True Positive 2

245	10 a Seventh census of the United States h [microform] ; b
-----	---

336	__ a text b txt 2 rdacontent
337	__ a microform b h 2 rdamedia
338	__ a microfilm reel b hd 2 rdacarrier

533	__ a Microfilm. b Washington, D.C. : c National Archives and Records Services, publications ; microcopy, 432, rolls 33-36).
-----	--

True Positive 3

007

Category of material(0)	h - Microform ▼	Specific material designation(1)	d - Microfilm reel ▼	Undefined(2)	#
Positive/negative aspect(3)	a - Positive ▼	Dimensions(4)	f - 35 mm. ▼	Reduction ratio range(5)	b - Normal reduction ▼ ...
Reduction ratio (6-8)	###	Color(9)	- No attempt to code ▼	Emulsion on film(10)	- No attempt to code ▼
Generation(11)	- No attempt to code ▼	Base of film(12)	- No attempt to code ▼		

008

Date entered on file (0-5)	861010	Type of date/Publication status(6)	r - Reprint/reissue date and original dat ▼	Date 1 (7-10)	1850
Date 2 (11-14)	1964	Place of publication, production, or execution (15-17)	dcu - District of Columbia ▼	Undefined (18-22)	##### ...
Form of item(23)	a - Microfilm ▼	Undefined (24-34)	#####	Language (35-37)	eng - English ▼
Modified record(38)	# - Not modified ▼	Cataloging source(39)	d - Other ▼		

False Negative I


Facets <<

Material Type ▾
Book (856)

Language ▾
English (854)
Undetermined (2)

Publication Year ▾
1977 - 1987 (214)
1988 - 1989 (162)
1990 - 1991 (213)
1992 - 2000 (267)

< **Physical Titles (1 - 20 of 856)** | Save and Filter Query
where (Medium Type equals "microform" AND Material type equals "Microfiche") Push Selected to MDE

1  **Manual of reconnaissance for triangulation [microform] / by William Musseter.** Edit Record Holdings ...

Book By Musseter, William. (Rockville, Md. : Springfield, Va. : U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, National Ocean Survey ; [1977])

Medium Type: microform

Language: English

MMS ID: 991004168669702918

Record number: (OCoLC)979874042 ▾

Subject: Triangulation--United States. Triangulation--États-Unis. Triangulation. and others

Creation Date: 06/13/2017 06:38:27 AM PDT

Modification Date: 01/30/2024 12:45:37 PM PST

▾ ● Physical (1) Other details

1 Holdings | 1 of 1 items are available

Library	Location	Call Number	Accession Number	Item Availability	Related Record
MAIN Main Library	gpmic GP Microfiche	C 55.408:T 73	-	● 1 of 1 Available	-

False Negative 2

LDR	01811cam a2200385Mi 4500
001	991049929549702901
005	20240128213016.0
008	830211s1977 mdua f001 0 eng d

245	10 a Manual of reconnaissance for triangulation h [microform] c by William Musseter.
------------	---

300	__ a v, 102 pages : b illustrations ; c 27 cm
336	__ a text b txt 2 rdacontent
337	__ a unmediated b n 2 rdamedia
338	__ a volume b nc 2 rdacarrier

Methods 3: Using Analytics

Subject Area: Physical Items

Criteria: Location contains Microforms, Material Type is equal to Microfiche

Row Labels	Sum of count
Book - Physical	114
Journal - Physical	654
Journal (Ceased publication) - Physical	761
Microforms	66
Newspaper - Physical	3
Newspaper (Ceased publication) - Physical	3
Other Serial - Electronic	1
Other Serial - Physical	12
Other Serial (Ceased publication) - Physical	25
Grand Total	1639

ChatGPT FOR Regex

1. generate a general expression for a string at position 23 the value is "a" or "b"
`^.{22}[ab]`
2. What is the regex to match strings that has 40 characters, at position 24, the value is "a" or "b"
`^.{23}[ab].{16}$`
3. regex for string at position 24 is a a or b, and any charaters after
`^.{23}[ab].*$`

Verify those regex at [Regexr.com](https://www.regexr.com)

Verify Regex

BIB 008 MARC

750715d19711981dcumr#p#####f0###a0eng#c
780912d19781988nyumr#p#####0###a0eng#c
921001d19901999mduar#m#####0###a0eng#c
170328n19639999msu#####000#0#eng#d
751024c19719999nyuqr#p#####0###a0eng#c
751104c19uu9999nyutn#p#####0###a0eng#c
750806d19671986dcuqr#p#####0###a0eng#c
821007d19802021njuqx#p#####0###a0eng#c
740221c19639999nyumr#p#####0###a0eng##
951023c19809999miuuu#p#b####f0###a0eng#d
841210d19791987miufr#p#b#####0###0eng#d
170328n19061945nyuafg##b#####000#0#eng#d
730531d19731984paumr#p#####0###a0eng##
741203d19712003ilumr#p#####0###a0eng##

Expression

```
/^.{23}[ab].*$ /gm
```

Text

Tests

NEW

```
750715d19711981dcumr#p#####f0###a0eng#c↵
780912d19781988nyumr#p#####0###a0eng#c↵
921001d19901999mduar#m#####0###a0eng#c↵
↵
↵
170328n19639999msu#####000#0#eng#d↵
751024c19719999nyuqr#p#####0###a0eng#c↵
751104c19uu9999nyutn#p#####0###a0eng#c↵
750806d19671986dcuqr#p#####0###a0eng#c↵
↵
↵
821007d19802021njuqx#p#####0###a0eng#c↵
740221c19639999nyumr#p#####0###a0eng##↵
951023c19809999miuuu#p#b####f0###a0eng#d↵
↵
↵
841210d19791987miufr#p#b#####0###0eng#d↵
170328n19061945nyuafg##b#####000#0#eng#d↵
```


False Positive I



JOURNAL

East/West; the Chinese-American journal.

 [Available at Main Library Library Retrieval System >](#)

 [Online access \(Coverage: 1967-1989\) >](#)



BOOK

Making historic properties accessible / Thomas C. Jester and Sharon C. Park.

Jester, Thomas C., author; Park, Sharon C., author
1993

 [Online access >](#)

False Positive 2

East/West; the Chinese-American journal. (991025010449702901)

Level [00]: [50] Extended Cataloger Record MARC21 Bib 10

LDI 01273cas#a2200337###4500

001 991025010449702901

005 20220623213020.0

007 Category of material(0) **h - Microform** Specific material designation(1) **d - Microfilm reel**

Positive/negative aspect(3) I - No attempt to Dimensions(4) I - No attempt to code

East/West; the Chinese-American journal. (991025010449702901)

Level [00]: [50] Extended Cataloger Record MARC21 Bib 10 69

Form of original item(22) # - None of the Form of item(23) **a - Microfilm**

East/West; the Chinese-American journal. (991025010449702901)

Level [00]: [50] Extended Cataloger Record MARC21 Bib 10 69

336 \$\$a text \$\$b txt \$\$2 rdacontent

337 **\$\$a microform** \$\$b h \$\$2 rdamedia

338 **\$\$a microfilm reel** \$\$b hd \$\$2 rdacarrier



Resource vs. Record

Resource Record	True	False
True	✓	False Positive
False	False Negative	✗


Solution



Use A Local Field For Mapping

1. Create a set by location
2. Create a MARC Drool normalization rule in MDE
[Working with Normalization Rules](#)
3. Add a process: Configure > Resources > General > Processes
4. Run the job on the sets
5. Add the mapping condition 967 \$a Microform

```
Add 967 for Microform
Rule Normalization Drool
rule "add 967a Microform"
when
  (TRUE)
then
  addField "967.a.Microform"
  addSubField "967.9.local"
end
```

 **967** |a Microform

 **MICROFORM**
Slave narratives: a folk history of slavery in the United States from interviews with former slaves: type-written records / prepared by the Federal Writers' Project, 1936-1938 ; assembled by the Library of Congress ...
Federal Writers' Project
1969



Resources

1. Video: [Configure Resource Types](#)
2. [Configuring Local Resource Types](#)
3. [Mapping to the Display, Facets, and Search Sections in the Primo VE Record](#) (This explains MARC21 Resource Type Mapping)
4. [Searching in Alma](#) (Rules Used to Create the Resource Type Field – MARC 21)
5. [Working with Normalization Rules](#)



THANK YOU

[Feedback Form](#) (anonymous, I don't collect emails)

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STATE UNIVERSITY