



University
of Exeter

**Improving the
discoverability of a
Cinema Museum and
Archives & Special
Collections in Primo VE**



Agenda

- Context
 - University of Exeter
 - Bill Douglas Cinema Museum
- Bill Douglas
 - Extraction
 - Normalisation
 - Local Resource Types
- Archives & Special Collections
 - Calm (System)
 - Extraction
 - Normalisation
 - Facets/Discoverability





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30,000 students from over 150 countries
7,400 staff from over 100 countries
Russell Group member
169th in QS World University Rankings 2025
Partnership with Falmouth University



Cornwall
Penryn
Penryn Campus

Truro
Knowledge Spa

Devon
Exeter
Streatham Campus
St Luke's Campus
RILD Building (Royal Devon and Exeter Hospital)
CSRC (Royal Devon and Exeter Hospital)



2023/24



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Bill Douglas Cinema Museum

- Based at the Old Library on our Streatham Campus, Exeter
- Over 90,000 items in collection
- Own bespoke catalogue
<https://www.bdcmuseum.org.uk/>
- Over 1000 items on display in the museum



Data Extraction

- Extract from Cinema museum catalogue in JSON format
- No OAI-PMH industry standard for harvesting stands for Open Archives Initiative Protocol for Metadata Harvesting
- Created mapping tables for key fields
 - Resource Type
 - Language
- Converted from JSON to XML – issues with the data, conversion and arrays

Example Record from the Extract

```
1  [
2  {
3    "pk": 2,
4    "model": "catalogue.item",
5    "fields": {
6      "general_notes": "",
7      "original_earliest_single_date": "1914",
8      "inscription": "",
9      "series": null,
10     "copyright_notes": "",
11     "record_type": "C",
12     "productions": [],
13     "accession_year": null,
14     "current_location": 1,
15     "original_copyright_expiry_date": "",
16     "display_recommendation": "",
17     "volume_or_set_no": "",
18     "country_of_origin": [
19       110
20     ],
21     "no_of_parts": "1",
22     "dimensions": "",
23     "accession_no": null,
24     "title": "Cabiria",
25     "cataloguer": "",
26     "provenance": "",
27     "main_classification": 2,
28     "issue_no": "",
29     "disposal_box": "",
30     "catalogue_date": null,
31     "no_of_pages": "",
32     "di_text": "",
33     "type": 2,
34     "status": 2,
35     "special_collection": 2,
36     "description": "Story book based on the 1914 Gabriele D'Annunzio film.",
37     "location_notes": "",
38     "material": "",
39     "edition_no": "1",
40     "libertas_control_no": "",
41     "other_bibliographic_details": ".",
42     "dewey_classification": 1,
43     "condition": "Good",
44     "item_no": 1,
45     "original_inscription_date": "",
46     "language": 2,
47     "acknowledgement": "",
48     "libertas_item_no": "",
49     "original_latest_date": "",
50     "di_link": "",
51     "isbn_or_issn": "",
52     "original_location_date": "",
53     "normal_location": 2,
54     "published": true,
55     "reading_room_location": 1,
56     "original_issue_date": "",
57     "acquisition": 189
58   }
59 },
```



Example Record Converted to XML

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <ListRecords>
3   <array>
4     <pk>2</pk>
5     <model>catalogue.item</model>
6     <fields>
7       <general_notes/>
8       <original_earliest_single_date>1914</original_earliest_single_date>
9       <inscription/>
10      <series>null</series>
11      <copyright_notes/>
12      <record_type>C</record_type>
13      <productions>
14      </productions>
15      <accession_year>null</accession_year>
16      <current_location>1</current_location>
17      <original_copyright_expiry_date/>
18      <display_recommendation/>
19      <volume_or_set_no/>
20      <country_of_origin>110</country_of_origin>
21      <no_of_parts>1</no_of_parts>
22      <dimensions/>
23      <accession_no>null</accession_no>
24      <title>Cabiria</title>
25      <cataloguer/>
26      <provenance/>
27      <main_classification>2</main_classification>
28      <issue_no/>
29      <disposal_box/>
30      <catalogue_date>null</catalogue_date>
31      <no_of_pages/>
32      <di_text/>
33      <type>2</type>
34      <status>2</status>
```

```
35      <special_collection>2</special_collection>
36      <description>Story book based on the 1914 Gabriele D'Annunzio
37      <location_notes/>
38      <material/>
39      <edition_no>1</edition_no>
40      <libertas_control_no/>
41      <other_bibliographic_details>.</other_bibliographic_details>
42      <dewey_classification>1</dewey_classification>
43      <condition>Good</condition>
44      <item_no>1</item_no>
45      <original_inscription_date/>
46      <language>2</language>
47      <acknowledgement/>
48      <libertas_item_no/>
49      <original_latest_date/>
50      <di_link/>
51      <isbn_or_issn/>
52      <original_location_date/>
53      <normal_location>2</normal_location>
54      <published>true</published>
55      <reading_room_location>1</reading_room_location>
56      <original_issue_date/>
57      <acquisition>189</acquisition>
58    </fields>
59  </array>
```

Normalization Rules

- Three sets of rules:

- Language
- Resource Type
- All other fields

```
rule "language"
when
  exist "//*[local-name()='language']"
then
  set TEMP"1" to xpath "//*[local-name()='language']"

  replace string by string (TEMP"1", "^null$", "und")

  replace string by string (TEMP"1", "^1$", "und")
  replace string by string (TEMP"1", "^2$", "eng")
  replace string by string (TEMP"1", "^3$", "fre")
  replace string by string (TEMP"1", "^4$", "ger")
  replace string by string (TEMP"1", "^5$", "ita")
  replace string by string (TEMP"1", "^6$", "eng;fre")
  replace string by string (TEMP"1", "^9$", "dut")
  replace string by string (TEMP"1", "^10$", "eng;fre;spa;ger")
  replace string by string (TEMP"1", "^12$", "cze")
  replace string by string (TEMP"1", "^14$", "slo")
  replace string by string (TEMP"1", "^15$", "swe")
  replace string by string (TEMP"1", "^16$", "ru")
  replace string by string (TEMP"1", "^17$", "dan")
```

```
rule "type"
when
  exist "//*[local-name()='type']"
then
  set TEMP"1" to xpath "//*[local-name()='type']"

  replace string by string (TEMP"1", "^1$", "Unknown")
  replace string by string (TEMP"1", "^2$", "books")
  replace string by string (TEMP"1", "^3$", "Publicity Material")
  replace string by string (TEMP"1", "^4$", "Programme")
  replace string by string (TEMP"1", "^5$", "images")
  replace string by string (TEMP"1", "^6$", "journals")
  replace string by string (TEMP"1", "^7$", "Letter")
  replace string by string (TEMP"1", "^8$", "journals")
  replace string by string (TEMP"1", "^9$", "other")
  replace string by string (TEMP"1", "^10$", "Postcard")
  replace string by string (TEMP"1", "^11$", "Poster")
  replace string by string (TEMP"1", "^12$", "Ephemera")
  replace string by string (TEMP"1", "^13$", "Brochure")
  replace string by string (TEMP"1", "^14$", "Publicity Material")
  replace string by string (TEMP"1", "^15$", "Production Mat
```


All the other fields

- We match the following fields from the record
 - Title – dc:title
 - Description – dc:description
 - The item number - dc:identifier
 - Source – dcterms:source
 - Contact – to a local field discovery:local8

```
rule "Bill Douglas Contact"
```

```
when
```

```
  exist "//*[local-name()='pk']"
```

```
then
```

```
  set "These items may be viewed in person in our reading room by appointment with the Bill Douglas Cinema Museum, Old Library, Streatham Campus. Please visit our website to book an appointment https://libguides.exeter.ac.uk/archives/visiting . Please contact bdc@exeter.ac.uk if you have any queries." in "discovery"."local8"
```

```
end
```



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Local Resources

- Local Resource types
 - Matched to global resource types where possible
 - Added additional resource types to Alma in Resource Type Configuration

- Example without local resource setup

invitation_card (5)

Resource types configuration

1 - 20 of 33

	Enabled	Code	Display label
1	<input checked="" type="checkbox"/>	ephemera	Ephemera
2	<input checked="" type="checkbox"/>	cigarette_card	Cigarette Cards
3	<input checked="" type="checkbox"/>	stereo_viewer	Stereo Viewers
4	<input checked="" type="checkbox"/>	camera	Cameras
5	<input checked="" type="checkbox"/>	artwork	Artworks
6	<input checked="" type="checkbox"/>	poster	Posters
7	<input checked="" type="checkbox"/>	stereo_card	Stereo Cards
8	<input checked="" type="checkbox"/>	container	Containers
9	<input checked="" type="checkbox"/>	lantern_slide	Lantern Slides
1...	<input checked="" type="checkbox"/>	jigsaw_puzzle	Jigsaw Puzzles
1...	<input checked="" type="checkbox"/>	stereo_transparency	Stereo Transparencies
1...	<input checked="" type="checkbox"/>	typescript	Typescripts
1...	<input checked="" type="checkbox"/>	letter	Letters
1...	<input checked="" type="checkbox"/>	programme	Programmes

Resource Type ^

- Books (22,552)
- Journals (14,725)
- Images (7,850)
- Postcards (6,587)
- Other (6,412)
- Programmes (4,686)
- Publicity Materials (4,374)
- Press Cuttings (3,324)
- Scores (3,230)
- Cigarette Cards (2,817)
- Posters (1,793)
- Stereo Cards (1,775)
- Handbills (1,495)
- Lantern Slides (1,197)
- Artworks (1,009)
- Vinyls (848)

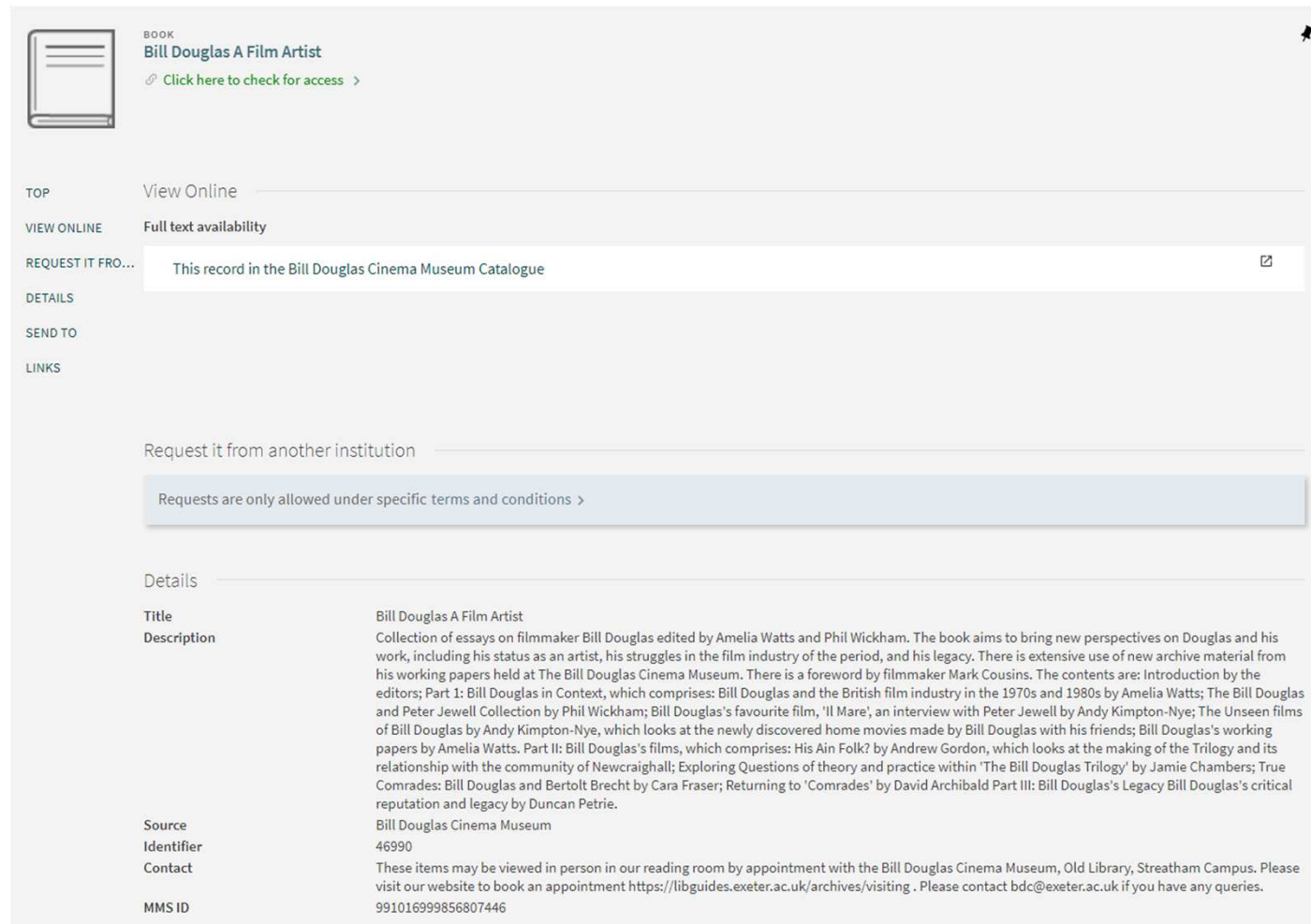
Discovery Import Profile

Profile Details			
Profile name *	Bill Douglas Cinema Museum Catalogue		
Profile description	Bill Douglas Cinema Museum Catalogue		
Data Source Code *	BDCM	Data Source Label *	Bill Douglas Cinema Museum
Originating system *	Other	File name patterns	
Import Protocol	Upload File/s		
Physical source format	XML		
Source format	Generic XML	Target format	Dublin Core
Status	Active		

File splitter parameters			
Root element tag *	ListRecords	Record elements tag *	array
XPath to the identifier tag *	array/pk/text()	XPath to the location of the deleted status	
Delete record regular expression			

Bill Douglas Records in Primo VE

- Example record



BOOK
Bill Douglas A Film Artist
[Click here to check for access >](#)

TOP View Online

VIEW ONLINE Full text availability

REQUEST IT FROM... This record in the Bill Douglas Cinema Museum Catalogue

DETAILS

SEND TO

LINKS

Request it from another institution

Requests are only allowed under specific terms and conditions >

Details

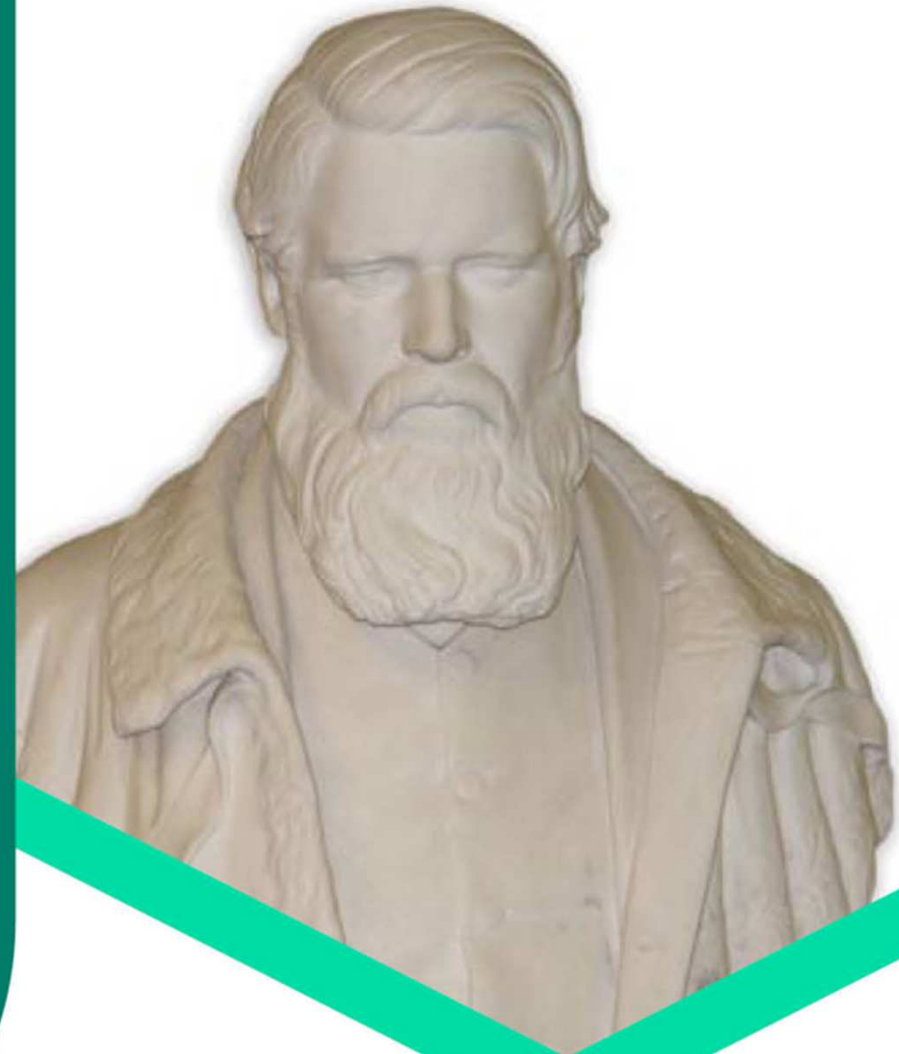
Title	Bill Douglas A Film Artist
Description	Collection of essays on filmmaker Bill Douglas edited by Amelia Watts and Phil Wickham. The book aims to bring new perspectives on Douglas and his work, including his status as an artist, his struggles in the film industry of the period, and his legacy. There is extensive use of new archive material from his working papers held at The Bill Douglas Cinema Museum. There is a foreword by filmmaker Mark Cousins. The contents are: Introduction by the editors; Part I: Bill Douglas in Context, which comprises: Bill Douglas and the British film industry in the 1970s and 1980s by Amelia Watts; The Bill Douglas and Peter Jewell Collection by Phil Wickham; Bill Douglas's favourite film, 'Il Mare', an interview with Peter Jewell by Andy Kimpton-Nye; The Unseen films of Bill Douglas by Andy Kimpton-Nye, which looks at the newly discovered home movies made by Bill Douglas with his friends; Bill Douglas's working papers by Amelia Watts. Part II: Bill Douglas's films, which comprises: His Ain Folk? by Andrew Gordon, which looks at the making of the Trilogy and its relationship with the community of Newcraighall; Exploring Questions of theory and practice within 'The Bill Douglas Trilogy' by Jamie Chambers; True Comrades: Bill Douglas and Bertolt Brecht by Cara Fraser; Returning to 'Comrades' by David Archibald Part III: Bill Douglas's Legacy Bill Douglas's critical reputation and legacy by Duncan Petrie.
Source Identifier	Bill Douglas Cinema Museum 46990
Contact	These items may be viewed in person in our reading room by appointment with the Bill Douglas Cinema Museum, Old Library, Streatham Campus. Please visit our website to book an appointment https://libguides.exeter.ac.uk/archives/visiting . Please contact bdc@exeter.ac.uk if you have any queries.
MMS ID	991016999856807446





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Archives & Special Collections



Special Collections

- We currently use Calm for our Special Collections
- There are over 52,000 records
- Notable collections
 - Du Maurier Collection
 - Middle East Collections
 - Agatha Christie Business Papers
 - William Golding Archive
 - Sir Norman Lockyer Collection



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DC or XML

- DC import
 - Imported certain number of fields
 - Issues with collections as imported with collection codes not names
- XML import
 - Additional fields came across
 - More scope for normalisation rules

Comparison of DC vs XML

- This is the same record from Calm the record on the left is the DC import the record on the right is the XML.

```
<record>
  <header>
    <identifier>ICS3/A</identifier>
    <datestamp>2020-02-12</datestamp>
    <setSpec>Archive</setSpec>
  </header>
  <metadata>
    <oai_dc:dc xmlns:oai_dc="http://www.openarchives.org/OAI/2.0/oai_dc/" xmlns:dc="http://purl.org/dc
    http://www.openarchives.org/OAI/2.0/oai_dc.xsd">
      <dc:coverage>University of Exeter Penryn Campus (GB 3242)</dc:coverage>
      <dc:identifier>ICS3/A</dc:identifier>
      <dc:title>Chapels</dc:title>
      <dc:date/>
      <dc:description/>
      <dc:format/>
      <dc:rights/>
      <dc:language/>
      <dc:relation.isShownAt>ICS3%2fA</dc:relation.isShownAt>
    </oai_dc:dc>
  </metadata>
</record>
```

```
<record>
  <header>
    <identifier>ICS3/A</identifier>
    <datestamp>2020-02-12</datestamp>
    <setSpec>Archive</setSpec>
  </header>
  <metadata>
    <DScribeRecord xmlns="http://www.ds.co.uk/Calm">
      <RecordType urlencoded="Component">Component</RecordType>
      <IDENTITY urlencoded=""/>
      <Repository urlencoded="University%20of%20Exeter%20Penryn%20Campus%20(GB%203242)">University of Exeter Penryn Campus (GB 3242)</Repository>
      <RefNo urlencoded="ICS3%2fA">ICS3/A</RefNo>
      <AltRefNo urlencoded=""/>
      <Title urlencoded="Chapels">Chapels</Title>
      <Date urlencoded=""/>
      <AccNo urlencoded=""/>
      <Level urlencoded="Section">Section</Level>
      <Extent urlencoded=""/>
      <CONTEXT urlencoded=""/>
      <AdminHistory urlencoded=""/>
      <CONTENT urlencoded=""/>
      <Description urlencoded=""/>
      <CreatorName urlencoded=""/>
      <UserWrapped3 urlencoded=""/>
      <UserWrapped4 urlencoded=""/>
      <Format urlencoded=""/>
      <PreviousNumbers urlencoded=""/>
      <LOCATION_DETAILS urlencoded=""/>
      <Location urlencoded=""/>
      <ACCESS urlencoded=""/>
      <AccessStatus urlencoded="Open">Open</AccessStatus>
      <ClosedUntil urlencoded=""/>
      <Copyright urlencoded=""/>
      <Language urlencoded=""/>
      <UserWrapped2 urlencoded=""/>
      <ConditionNote urlencoded=""/>
      <CONSERVATIONREQUIRED urlencoded=""/>
      <Condition urlencoded=""/>
      <ConservationPriority urlencoded=""/>
      <ALLIED_MATERIALS urlencoded=""/>
      <Originals urlencoded=""/>
      <Copies urlencoded=""/>
      <CATALOGUE_STATUS urlencoded=""/>
      <CatalogueStatus urlencoded="Catalogued">Catalogued</CatalogueStatus>
      <ADMIN_DETAILS urlencoded=""/>
      <ArchNote urlencoded=""/>
      <Notes urlencoded=""/>
      <Creator urlencoded="Sjane">Sjane</Creator>
      <Created urlencoded="12%2f02%2f2020">12/02/2020</Created>
      <Modifier urlencoded="Lamd201">Lamd201</Modifier>
      <Modified urlencoded="12%2f02%2f2020">12/02/2020</Modified>
      <RCN urlencoded="R27622">R27622</RCN>
      <RecordID urlencoded="03081f81-8501-4ef6-8330-41da3f049cdf">03081f81-8501-4ef6-8330-41da3f049cdf</RecordID>
    </DScribeRecord>
  </metadata>
</record>
```



Normalisation (Discovery) rules

- We have had to split the rules into three
- The First one is to setup the Local12 field which is “Archives Collection Name”
 - There are over 500 Archive Collections and the example is to the right.
- The Second is to add the Archive Collection name to the items within each Collection example to the right:

```
rule "Robert ('Bob') Dunbar Papers"
when
  "[local-name()='record']/[local-name()='metadata']/[local-name()='DScribeRecord']/[local-name()='RefNo']" equals "BDC 3"
then
  set "Robert ('Bob') Dunbar Papers" in "discovery"."local12"
end

rule "Oswald ('Ossie') Morris Papers"
when
  "[local-name()='record']/[local-name()='metadata']/[local-name()='DScribeRecord']/[local-name()='RefNo']" equals "BDC 4"
then
  set "Oswald ('Ossie') Morris Papers" in "discovery"."local12"
end
```

```
rule "Robert ('Bob') Dunbar Papers"
when
  exist "[local-name()='record']/[local-name()='metadata']/[local-name()='DScribeRecord']/[local-name()='RefNo']" [contains(., 'BDC 3/')]
then
  set "Robert ('Bob') Dunbar Papers" in "discovery"."local12"
end

rule "Oswald ('Ossie') Morris Papers"
when
  exist "[local-name()='record']/[local-name()='metadata']/[local-name()='DScribeRecord']/[local-name()='RefNo']" [contains(., 'BDC 4/')]
then
  set "Oswald ('Ossie') Morris Papers" in "discovery"."local12"
end
```

Normalisation (Discovery) Rules

- The third set of rules was to add all the additional fields
- Location – Local 11
- Contact – Local 8
- Admin History – Local 9
- Description – DC Description
- Language – dc Language
- Date – DC Date
- Rights – DC Rights
- Title – DC Title
- Format – DC Format
- Extent – Local 10
- Identifier – DC Identifier
- Relation – DC Relation

Normalisation Rule Examples

```
rule "Exeter Location"
```

```
when
```

```
  exist "//*[local-name()='record']/*[local-name()='metadata']/*[local-name()='DScribeRecord']/*[local-name()='Repository']" [contains(., 'Special Collections Archives (GB 0029)')]"
```

```
then
```

```
  set "Streatham Campus" in "discovery"."local11"
```

```
end
```

```
rule "Exeter Email"
```

```
when
```

```
  exist "//*[local-name()='record']/*[local-name()='metadata']/*[local-name()='DScribeRecord']/*[local-name()='Repository']" [contains(., 'Special Collections Archives (GB 0029)')]"
```

```
then
```

```
  set "These items may be viewed in person by appointment with Archives & Special Collections, Old Library, Streatham Campus. Please visit our website to book an appointment https://libguides.exeter.ac.uk/archives/visiting" in "discovery"."local8"
```

```
end
```



How we made it more discoverable:

- Local Fields for Display, Search and Facet:
 - Collections Level
 - Location
- Local Fields just for Display:
 - Contact
 - Extent

Source	Archives & Special Collections
Archives Collection	Northcott Theatre Archive
Identifier	EUL MS 348/PROD/PHOT
Extent	59 boxes, 8 outsize folders
Contact	These items may be viewed in person by appointment with Archives & Special Collections, Old Library, Streatham Campus. Please visit our website to book an appointment https://libguides.exeter.ac.uk/archives/visiting
Archives & Special Collections Location	Streatham Campus



Other Exeter Catalogues ^

- Archives & Special Collections (1,312)
- Bill Douglas Cinema Museum (24)
- ORE (2)

Archives Collection ^

- Agatha Christie Business Papers (1,218)
- Northcott Theatre Archive (4)
- Theatre Royal Exeter Playbills Collection (4)
- Papers Of A L Rowse Research Literary And Personal Manuscripts (2)
- Gavrik Losey Papers (2)
- Bill Douglas Centre Archive (2)
- Du Maurier Family Papers (2)
- Agatha Christie Letters (1)
- University Of Exeter Archive (1)

Archives & Special Collections Location ^

- Streatham Campus (1,312)

How we made it more discoverable:

- We also have related titles which searches for all the items in the collection the items is part of:

Details

Title	Exeter Festival
Description	Material relating to Exeter Festival.
Related titles	Related to: EUL MS 489 >
Creation Date	1975-2014
Source	Archives & Special Collections
Archives Collection	Cygnnet Theatre and Monica Shallis Collection
Identifier	EUL MS 489/CT/8

SEARCH CRITERIA

Search Profile: [University Collections](#) ▼

Search filters

[Any field](#) ▼ [contains exact phrase](#) ▼ [EUL MS 489](#)

Example Record

- Details section
 - All the fields added from rules
 - Contact field
 - Direct link to instance on Calm
 - Related Records



ARCHIVES & SPECIAL COLLECTIONS ITEM
Exeter Festival
1975-2014
[Click here to check for access >](#)

TOP
VIEW ONLINE [View Online](#)
REQUEST IT FROM... [Full text availability](#)
DETAILS [View record in Archive Catalogue](#)
SEND TO
LINKS

Request it from another institution
[Requests are only allowed under specific terms and conditions >](#)

Details

Title	Exeter Festival
Description	Material relating to Exeter Festival .
Related titles	Related to : EUL MS 489 >
Creation Date	1975-2014
Source	Archives & Special Collections
Archives Collection	Cygnets Theatre and Monica Shallis Collection
Identifier	EUL MS 489/CT/8
Extent	2 boxes
Contact	These items may be viewed in person by appointment with Archives & Special Collections, Old Library, Streatham Campus. Please visit our website to book an appointment https://libguides.exeter.ac.uk/archives/visiting
Archives & Special Collections	Streatham Campus
Location	
MMS ID	991017207948907446

Send to

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Links

[View record in Archive Catalogue](#) [>](#)
[Display Source Record](#) [>](#)



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Thank you for listening.

Any Questions?

Andrew Dove: a.p.dove@exeter.ac.uk