

Open Standards-Based Development for Discovery & Interoperability

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Senior Developer | University of Victoria Libraries 

15 June 2023 | Open Repositories 2023

Link to slides: uviclibrary.github.io/OR2023Pres



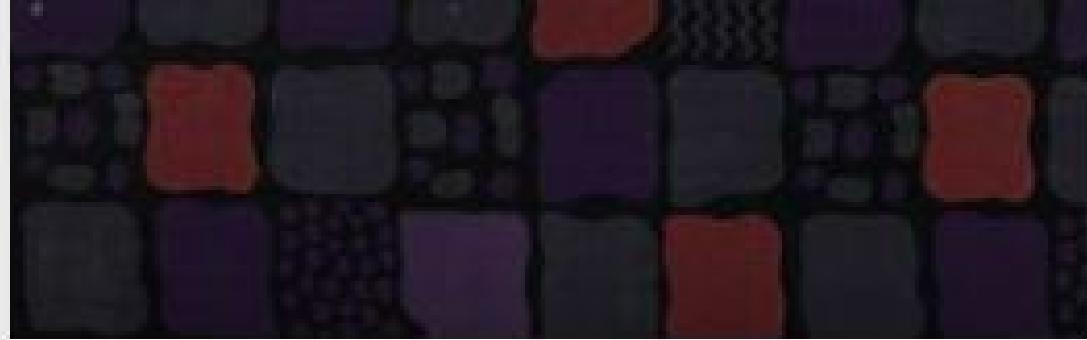
Link to slides: uviclibrary.github.io/OR2023Pres

University of Victoria ("UVic") Libraries

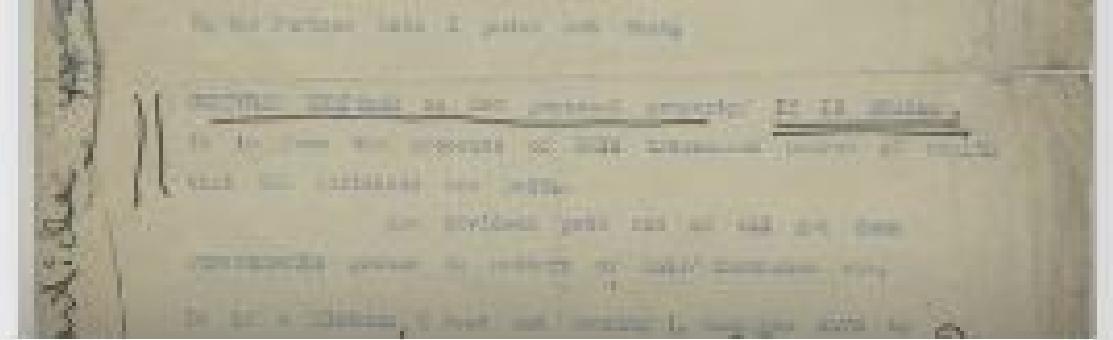
~20,000 students, 900 full-time faculty, 150 library staff

Multiple digital platforms for our collections





Else Lübeck Seel
Digital Collection

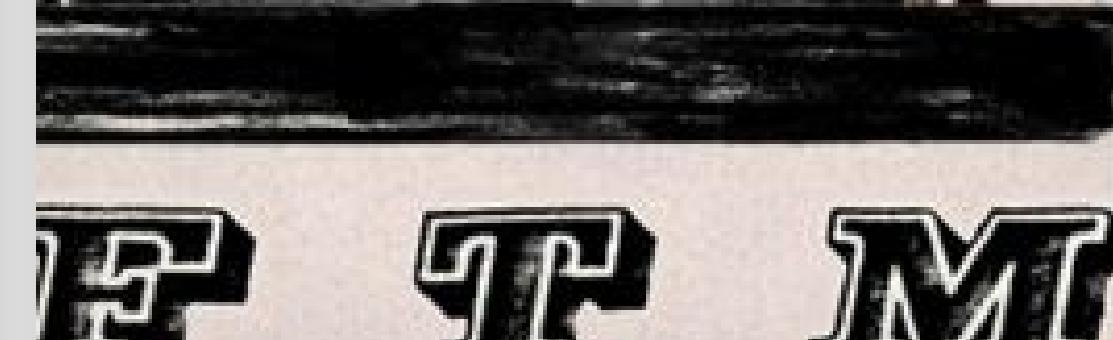


Ezra Pound
Collection

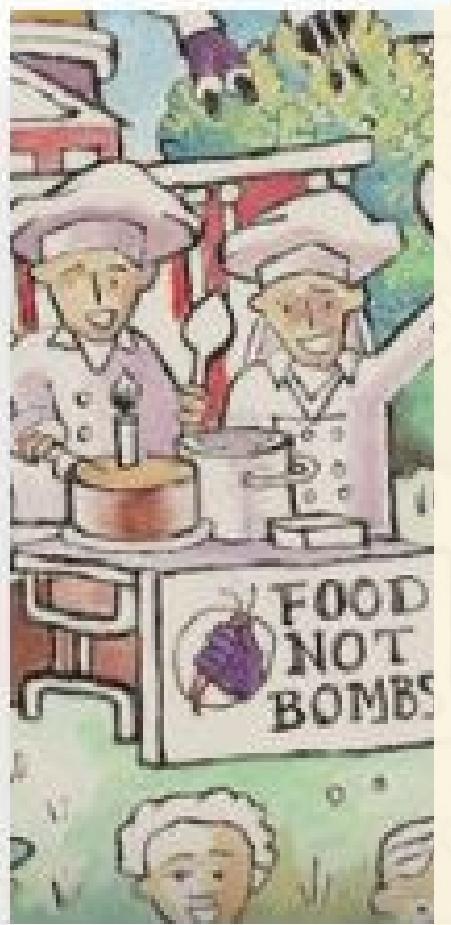


F.T. Prince Collection

Frank Templeton Prince (1912-2003) was an English poet and academic. The collection consists...



FTM



Food Not Bombs
Collection

Vault

Holds digitized materials from Special Collections & Archives, faculty/community partnerships

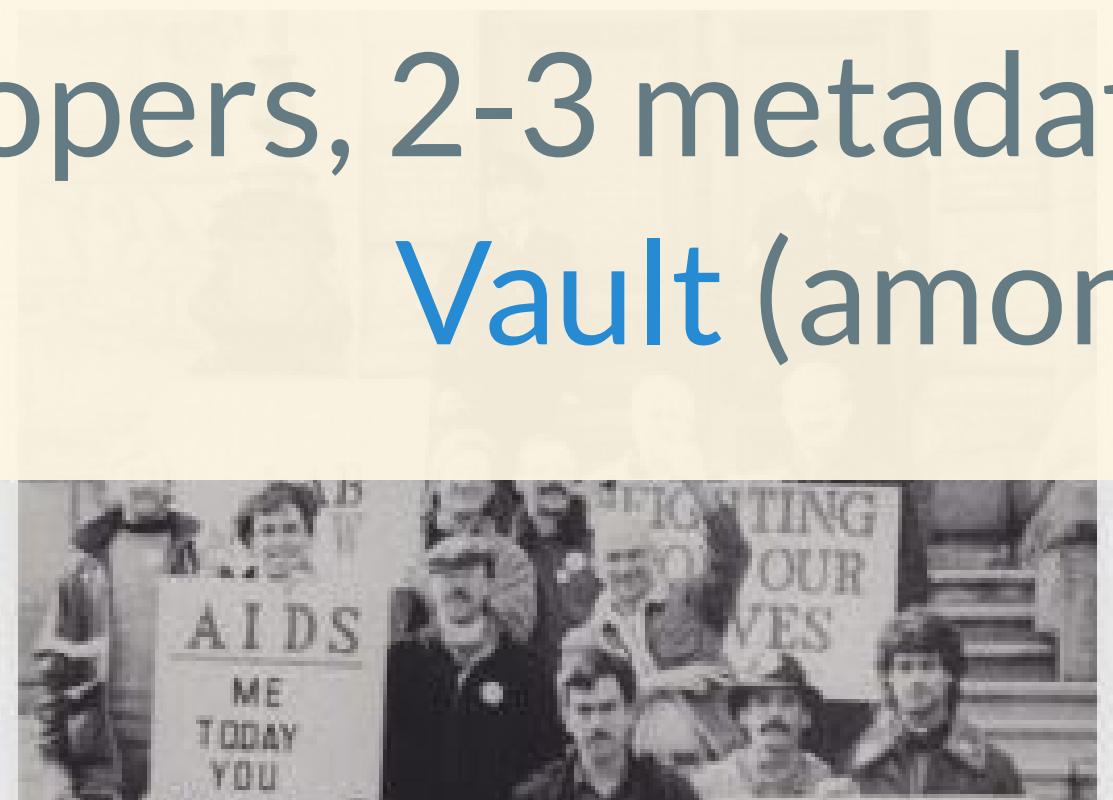
Customized instance of [Hyku \(Samvera\)](#), migrated from ContentDM starting in 2018

90+ collections, 12000+ works, 98000+ files

2 developers, 2-3 metadata staff working directly in/with [Vault](#) (among other projects)



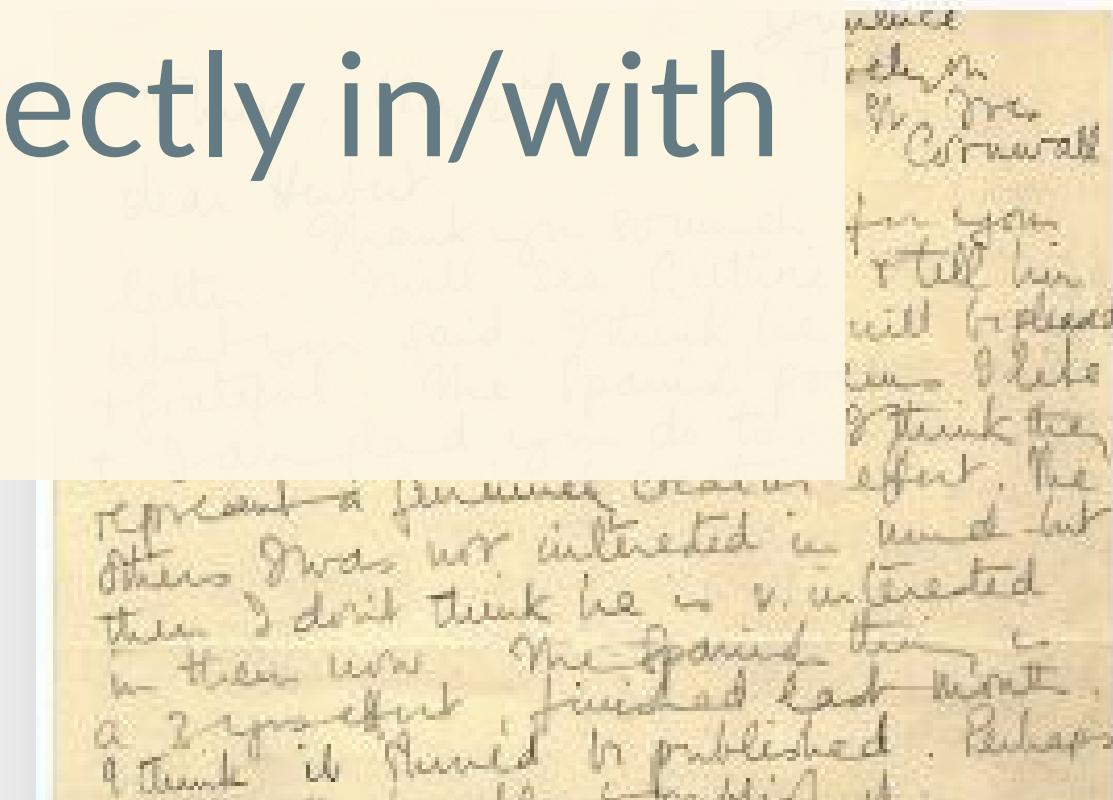
Greater Victoria
Public Library Local
History Collection



HIV In My Day



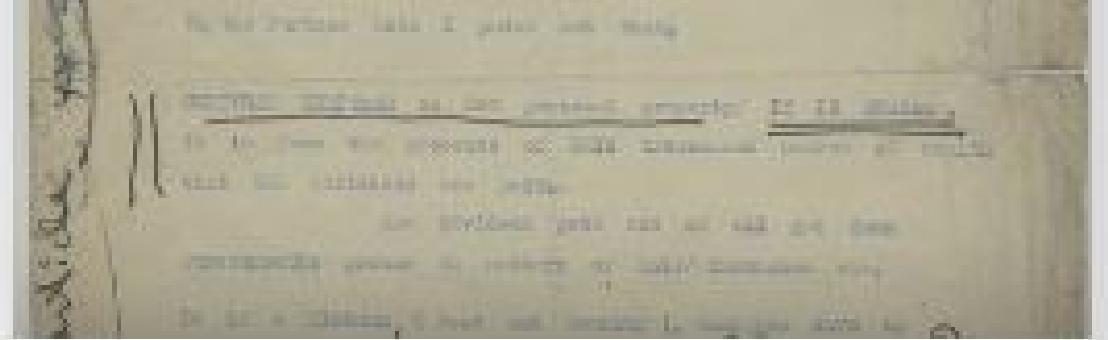
Herbert Geddes



Herbert Read
Collection



Else Lübeck Seel
Digital Collection



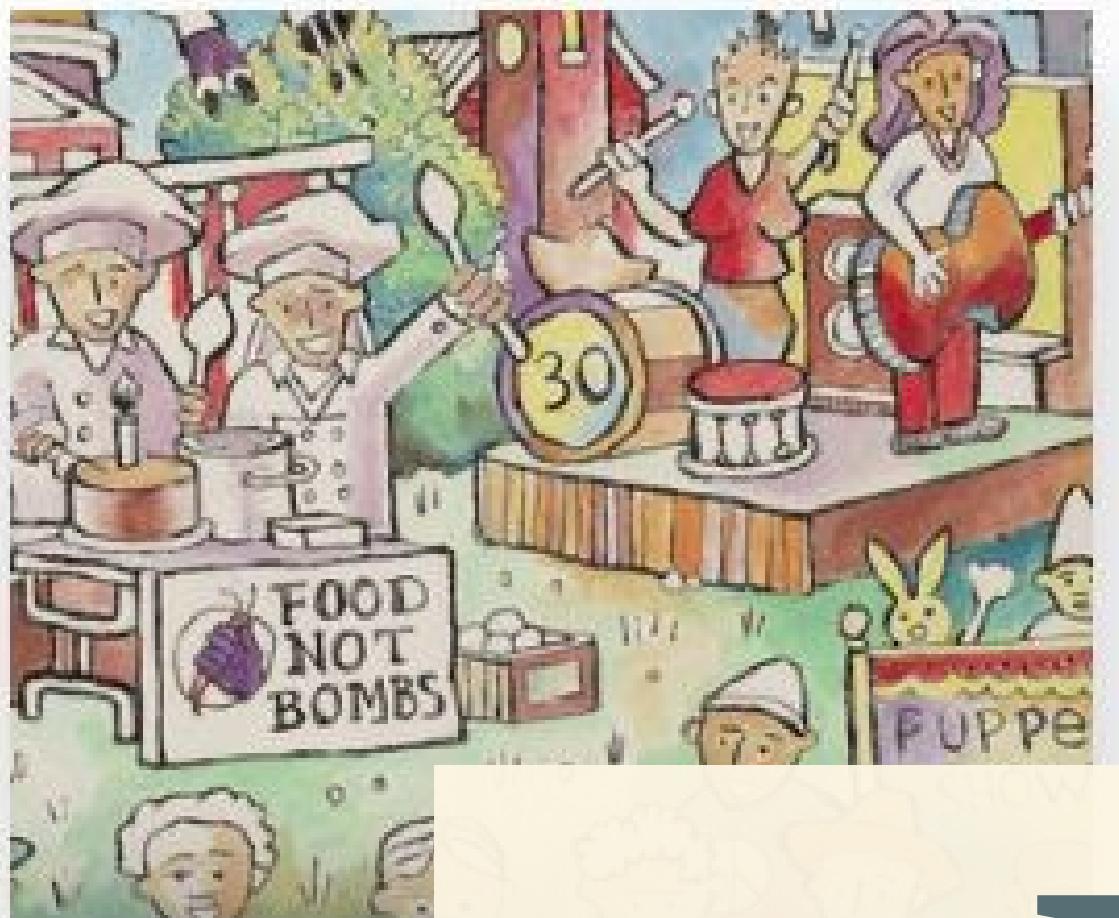
Ezra Pound
Collection

F.T. Prince Collection

Frank Templeton Prince (1912-2003) was an English poet and academic. The collection consists...

E T M
EASTMAN

FTM

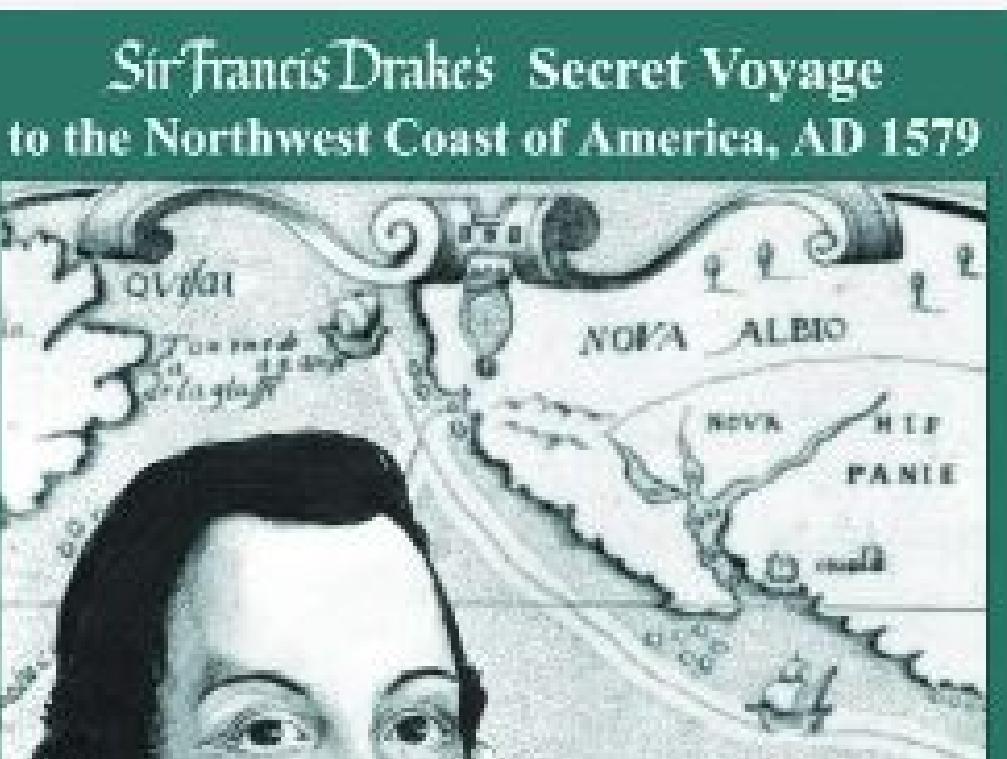


Food Not Bombs
Collection



Example Collections

Frank Kermode
Sylvester Collection



John Ruskin Print
Collection



Gisèle Freund
Photographs of
James Joyce in Paris



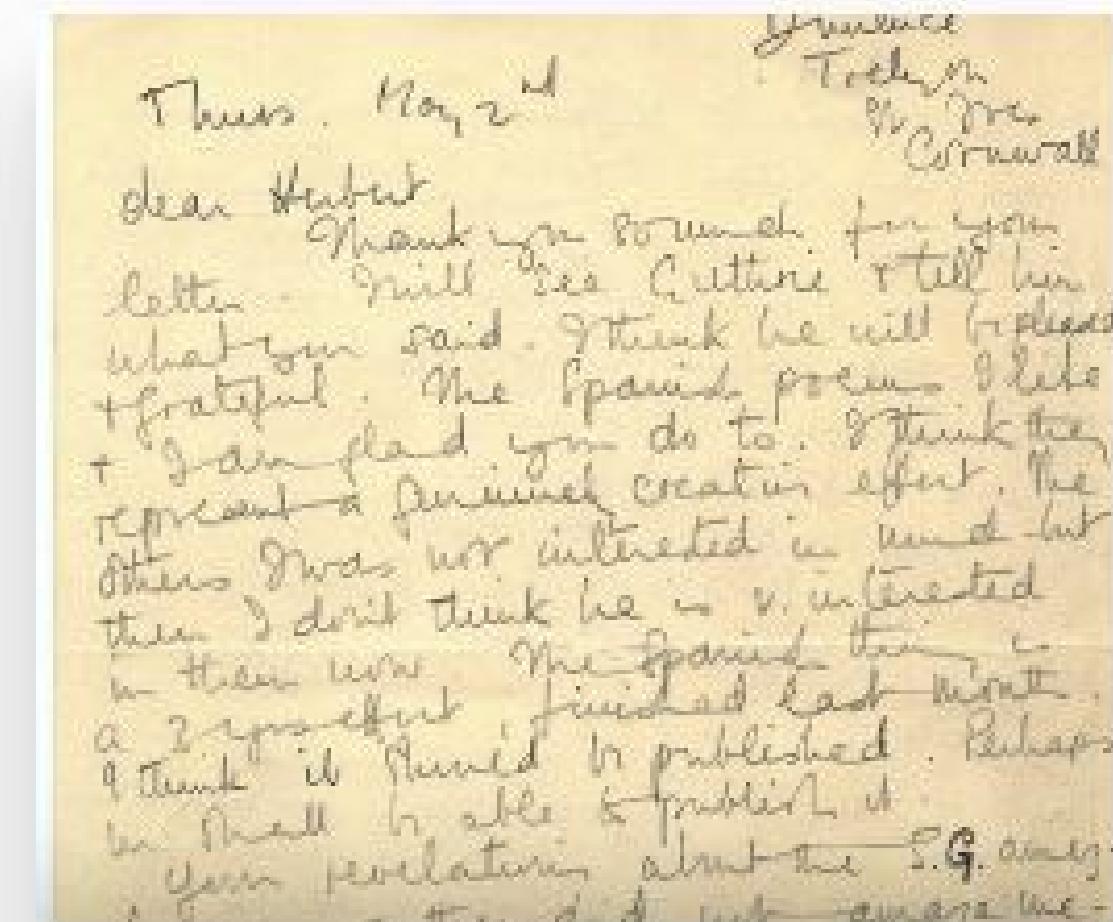
Greater Victoria
Public Library Local
History Collection



HIV In My Day



Herbert Geddes



Herbert Read
Collection

Letter from Sir William Orpen to Lady Beatrice Glenavy (Or-21)

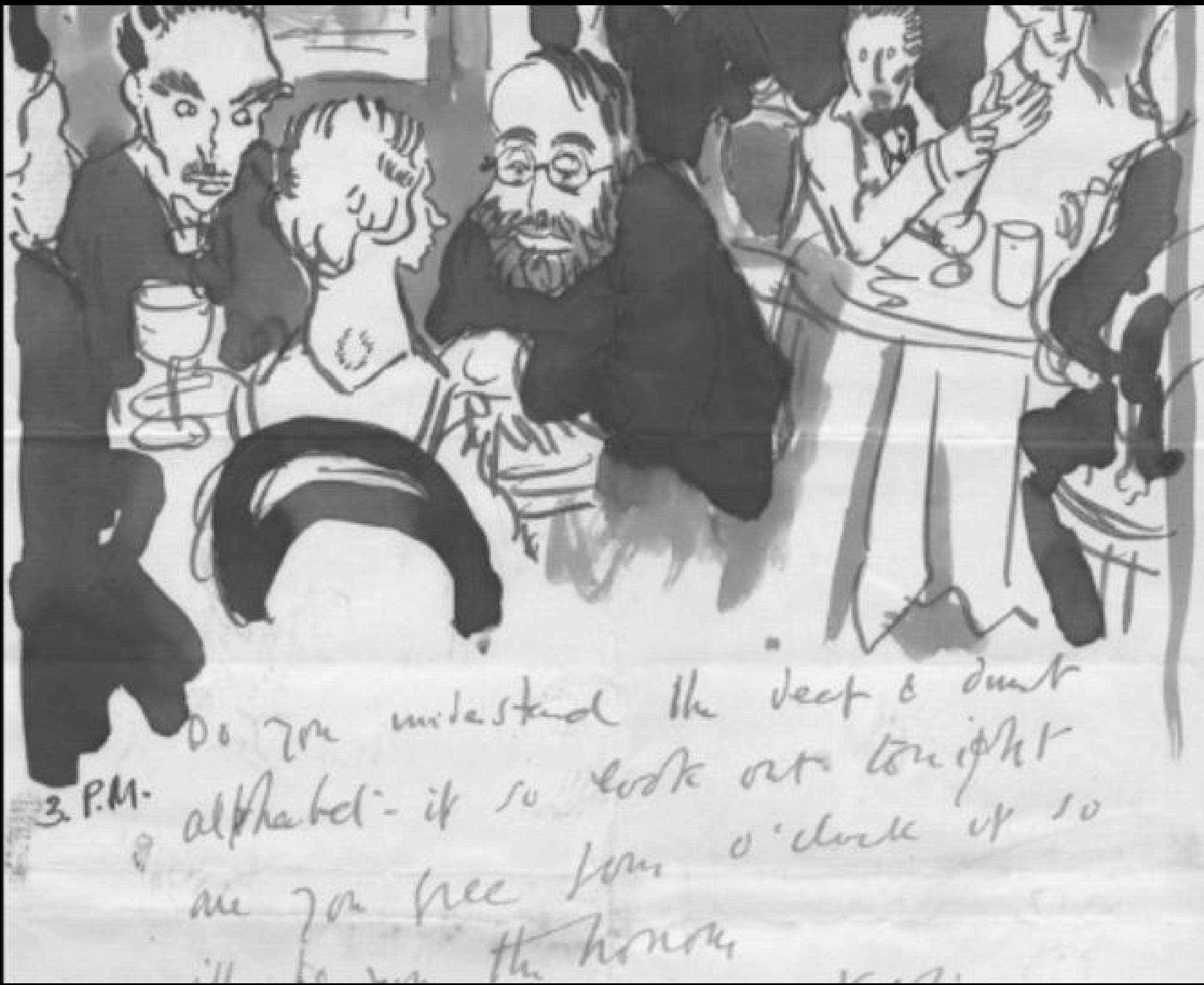
num of 8 featured works.

Feature

Analytics

Sir William Orpen
Illustrated Letters

Letter from Sir William Orpen to Lady Beatrice Glenavy (Or-21)



Mathew Ko Colour Films: Victoria's Chinatown and Region



Why Migrate? Support for Open Standards

IIIF: automatic manifest generation, image server ([Riiif](#)),
and viewer ([Universal Viewer](#))

Linked Data Platform with [Fedora](#)

Metadata: Linked Data and URI Fields

Field Name(s)	Authority or URI
Provider, Creator, Contributor, Subject, Geographic Coverage, Physical Repository	(OCLC) FAST
Genre	Getty Art and Architecture Thesaurus
Rights Statement	rightsstatements.org , Creative Commons

* See Figure 3 in [our recent article](#) for a more detailed table and discussion of metadata

URIs and Labels on the Backend

```
"creator": ["http://id.worldcat.org/fast/78887"],  
"creator_label": ["Orpen, William, Sir, 1878-1931"],  
"contributor": ["http://id.worldcat.org/fast/2012667"],  
"contributor_label": ["Glenavy, Beatrice Moss Campbell,  
Baroness, 1883-1970"],  
"subject": ["http://id.worldcat.org/fast/1050538",  
"http://id.worldcat.org/fast/78887",  
"http://id.worldcat.org/fast/2012667",  
"http://id.worldcat.org/fast/1050534"],  
"subject_label": ["Painters--Correspondence",  
"Orpen, William, Sir, 1878-1931",  
"Glenavy, Beatrice Moss Campbell, Baroness, 1883-1  
"Painters--Biography"]
```

Labels in the Interface

Creator

[Orpen, William, Sir, 1878-1931](#)

Contributor

[Glenavy, Beatrice Moss Campbell, Baroness, 1883-1970](#)

Subject

[Painters--Correspondence](#)

[Orpen, William, Sir, 1878-1931](#)

[Glenavy, Beatrice Moss Campbell, Baroness, 1883-1970](#)

[Painters--Biography](#)

Accessing Linked Data via the IIIF Manifest or RDF/TTL

Go to the page for any work and add /manifest.json or .ttl
to the end of the URL

Example:

vault.library.uvic.ca/concern/generic_works/1a597e67-17a8
-4c97-9c63-c835a41f5474 [.ttl](#)

Why Migrate to Open-Source Software

More flexibility and control over how we describe, organize, and present our objects and collections

Customized features and interface tools

Extended Date/Time Format

EDTF: a way to express nuanced dates (using symbols) in a way that basic ISO formats cannot

Examples: 1912~ means "approximately 1912"
. ./1000 means "Before 1000 (AD)"

EDTF Date Indexing

Dates are entered using EDTF notation...
And indexed in multiple formats

```
"date_created": ["1476/1500~"],  
"year_sort": "1476-01-01T00:00:00Z",  
"year_range": [1476, 1477, 1478, 1479 ... 1500]
```

Language

lat

Identifier

Shelf Mark: Fragm.Brown.Lat.8

Date created

1476 to approximately 1500

Resource type

Text

Rights statement

No Copyright - Non-Commercial Use Only

Limit your search

Collection >

Genre >

Year Range ▾

1476 to 1500 X 26

1476 - 1500 Limit

 1480 1485 1490 1495 1500

Geographic Coverage >

Subject >

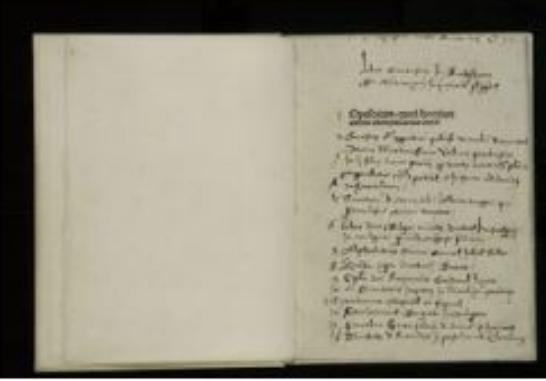
Language >

Filtering by: Year Range > 1476 to 1500 X

Start Over

« Previous | 1 - 10 of 26 | Next »

Sort by relevance ▾ 10 per page ▾



Speculum aureum anime peccatricis dicitur

Alternative Title: Speculum aureum anime peccatricis dicitur / [a quodam cartusiense [i.e. Jacobus de Gruitroede] editu]

Subject: Religion, Early works, Salvation, Sin, Incunabula, and Specimens

Creator: Denis, the Carthusian, 1402-1471

Contributor:

Publisher: [Memmingen] : J. Kunne], [1485?]

Location:

Language: lat

Date Created: 1485?

Rights Statement: No Copyright - Non-Commercial Use Only

Resource Type: Text

Identifier: Call Number: BR75 J3 and Shelf Mark: Inc.Lat.1

Extent: 54 unnumbered pages ; 19 cm



Interactive Video Transcripts

2020-01-27 13:

Able Player uses .vtt files (Web VTT format)
to create interactive transcripts for videos

I an awful and tragic and I also knew that I was in a unique position because of my
actually write about that. It took me 10 years before I was at all. No 10 years before
to write about it. And ultimately, I turned it into a graphic novel.

Interactive Transcript

Auto sc

(Nicki Ward) All that stuff was bullshit. It's no.

(Nicki Ward) All that stuff was bullshit. It's no.
mind. It's not like Jackie was a real girl.

(Nicki Ward) Um, and as a writer and as a hu
and I knew I'd heard something profound

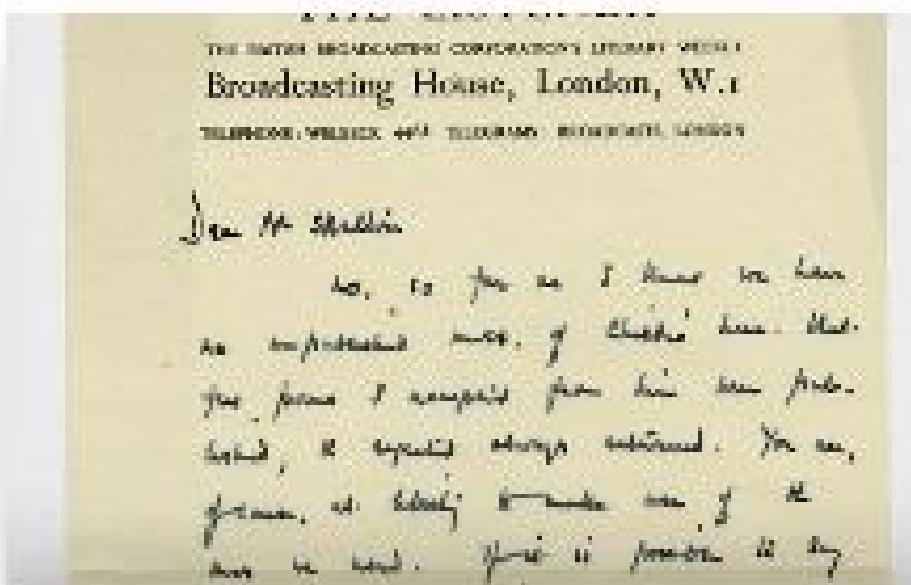
(Nicki Ward) And and an awful and tragic and
that I was in a unique position because of my s
just to actually write about that. It took me 10
I was at all. No 10 years before I was able to w
And ultimately, I turned it into a graph

(Nicki Ward) So, which I'm now in the process
converted into some movie format. Oh, wow. Y
that's hence quite a lot of equipment hands lik
with new toys. And so there's a there's a variet
if this yeah anyway. So that's why I'm all about

Browse by Genre

[Genre](#)[Time Period](#)[Subject](#)[Place](#)[Diaries](#)[Historical Maps](#)[Letters](#)[Photographs](#)[Periodicals](#)[Serials](#)[Sound Recordings](#)[Video Recordings](#)[More »](#)

Featured Works

[All Collections](#)[Featured Collections](#)[Featured Works](#)[Recent Collections](#)[Recent Works](#)

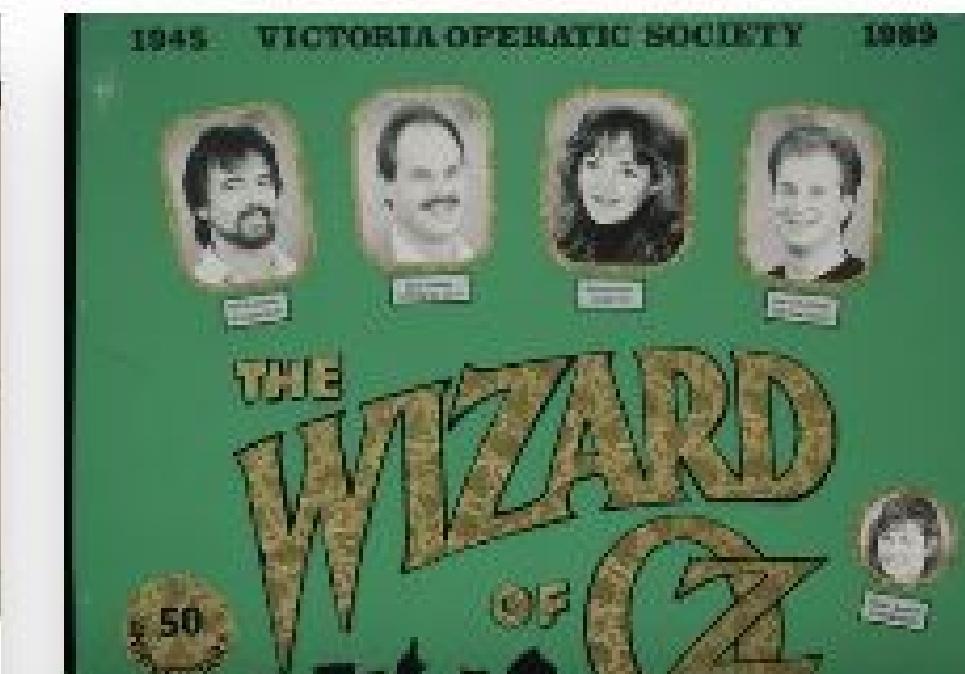
Letter from J.R.
Ackerly to Robin
Skelton, September...
Is part of: Robin Skelton Collection



Fraser River Estuary
heritage and
archaeological sites
Is part of: Early British Columbia
Maps



Edward Morell
Holmes Herbarium
Is part of: 19th Century
Collection



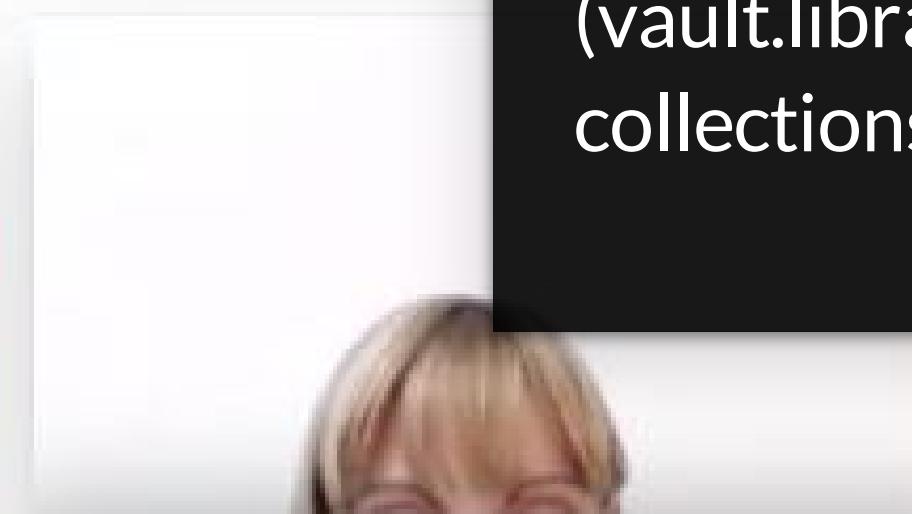
The Wizard of Oz
Is part of: Victoria On Stage Posters



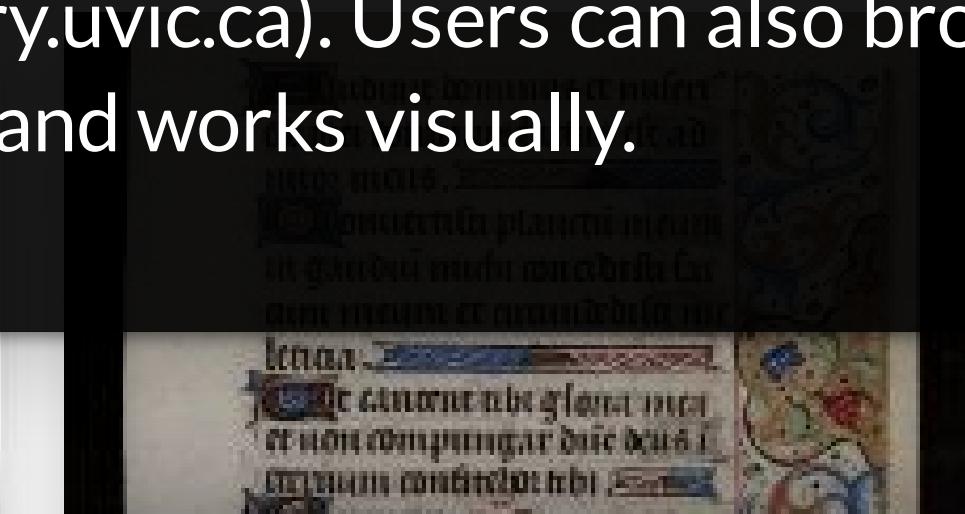
Peggy Abkhazi in the
garden by
rhododendrons
Is part of: Abkhazi Archives



Interview with Lorna
Wanosts'a7 Williams
for UVic...
Is part of: Lorna Wanosts'a7 Williams
Face to Face Media Collection



Interview with
Commander (Ret'd)
Michele Tessier...
Is part of: Canadian Military Oral
Histories



Leaf from a Medieval
Book of Hours,
Fragment
Is part of: Medieval and Early
Modern Manuscripts Collection

Homepage Facets

Allows users to filter using broad categories (vault.library.uvic.ca). Users can also browse collections and works visually.

Running the Code

Code: github.com/UVicLibrary/Vault

Switch to the `docker_multitenant` branch

Instructions: run Vault locally with Docker

On locally developed, open-source software

Not free (\$) but freedom: labour vs. product

More responsive, shorter development cycles

Hannah Frost: tension between customization/sustainability

Thanks!

Tiffany Chan   | tjychan@uvic.ca

Vault: vault.library.uvic.ca

Link to slides: uviclibrary.github.io/OR2023Pres

Slides made with [reveal.js](#)