

# Digital Curation using Archivematica and Atom

## DLF Forum 2015

With Sarah Romkey and Dan Gillean  
Artefactual Systems

 archivematica®

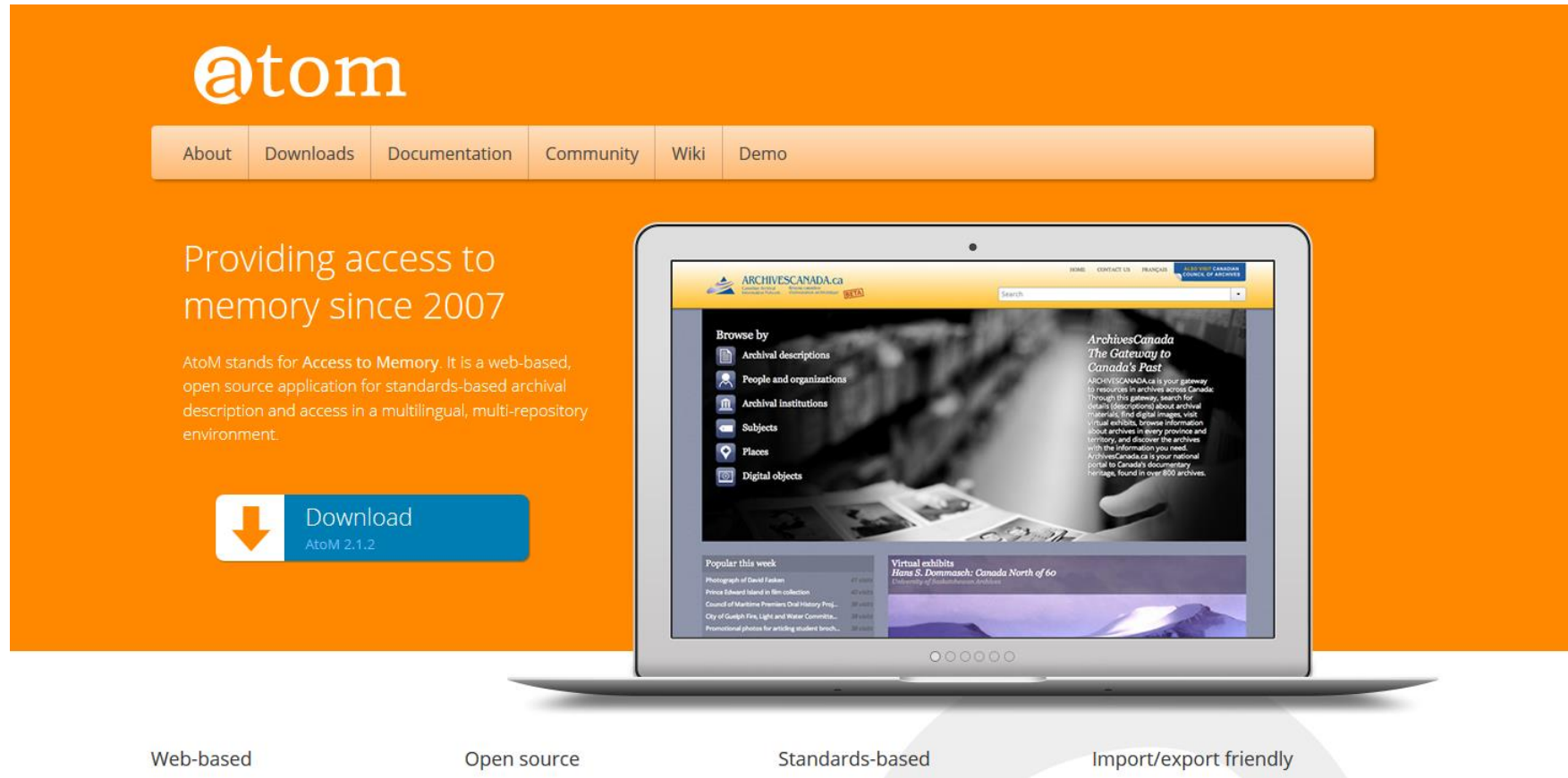
 **DLF 2015**  
**FORUM**  
Vancouver, BC  October 26-28

 **atom**  
access to memory

# Today's agenda:

- 1) Basics of **AtoM** - search, browse, entities. Creating and linking records in AtoM
- 2) **Archivematica**: OAI basics, Admin configuration, transfer and ingest
- -BREAK-
- 3) Archivematica DIP upload to AtoM
- 4) Other workflows and features in Archivematica
- 4) Other AtoM features - configuration, personalization, administration.
- 5) Sandbox time
- 6) Questions

# Access to Memory



The screenshot shows the @tom website interface on an orange background. At the top is the @tom logo. Below it is a navigation bar with links: About, Downloads, Documentation, Community, Wiki, and Demo. The main text reads: "Providing access to memory since 2007". Below this is a paragraph: "AtoM stands for Access to Memory. It is a web-based, open source application for standards-based archival description and access in a multilingual, multi-repository environment." A blue button with a download icon and the text "Download AtoM 2.1.2" is present. To the right, a laptop displays the ArchivesCanada.ca website, which features a search bar, a "Browse by" sidebar with categories like Archival descriptions, People and organizations, Archival institutions, Subjects, Places, and Digital objects, and a main content area with a description of ArchivesCanada as "The Gateway to Canada's Past". Below the laptop, four labels are positioned: "Web-based", "Open source", "Standards-based", and "Import/export friendly".

@tom

About Downloads Documentation Community Wiki Demo

Providing access to memory since 2007

AtoM stands for Access to Memory. It is a web-based, open source application for standards-based archival description and access in a multilingual, multi-repository environment.

Download  
AtoM 2.1.2

ArchivesCanada.ca

ArchivesCanada  
The Gateway to Canada's Past

ARCHIVESCANADA.ca is your gateway to resources in archives across Canada. Through this gateway, search for items, descriptions about archival materials, find digital images, visit virtual exhibits, browse information about archives in every province and territory, and discover the archives with the information you need. ArchivesCanada.ca is your national portal to Canada's documentary heritage, found in over 800 archives.

Browse by

- Archival descriptions
- People and organizations
- Archival institutions
- Subjects
- Places
- Digital objects

Popular this week

- Photograph of David Leckie 07/0000
- Prince Edward Island in film collection 01/0000
- Council of Maritime Provinces Oral History Proj. 01/0000
- City of Guelph Fire, Light and Water Committee... 01/0000
- Promotional photos for artling student broch... 01/0000

Virtual exhibits

Hans S. Dommasch: Canada North of 60  
University of Saskatchewan Archives

Web-based Open source Standards-based Import/export friendly

A flexible open-source application  
for standards-based description and access

# What is AtoM?

**Web-based** 

**Open source** 

**Standards-based** 

**Multilingual** 

**Multi-repository** 

AtoM stands for  
**Access to Memory.**

It is a web-based, open source application for standards-based archival description and access in a multilingual, multi-repository environment.

# AtoM Development

2008

0.X-BETA

ICA AtoM

1.0-BETA

FIRST  
NON-BETA  
RELEASE

1.1

1.2

1.3

2014

atom  
access to memory

2.0

2009

2010

2011

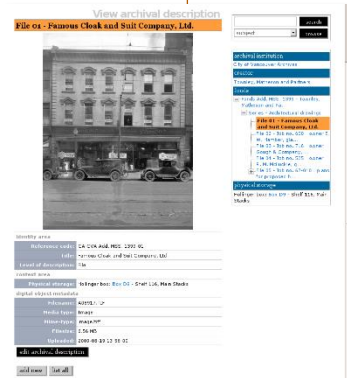
2012

2013

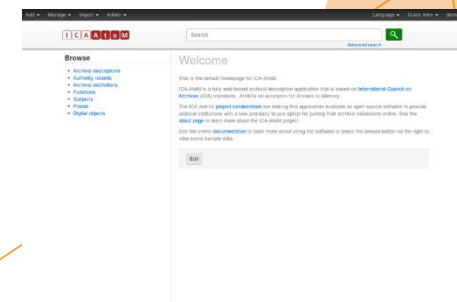
**Qubit**  
open information  
management toolkit



**ICA AtoM**  
open source archival description software



TRILLIUM THEME





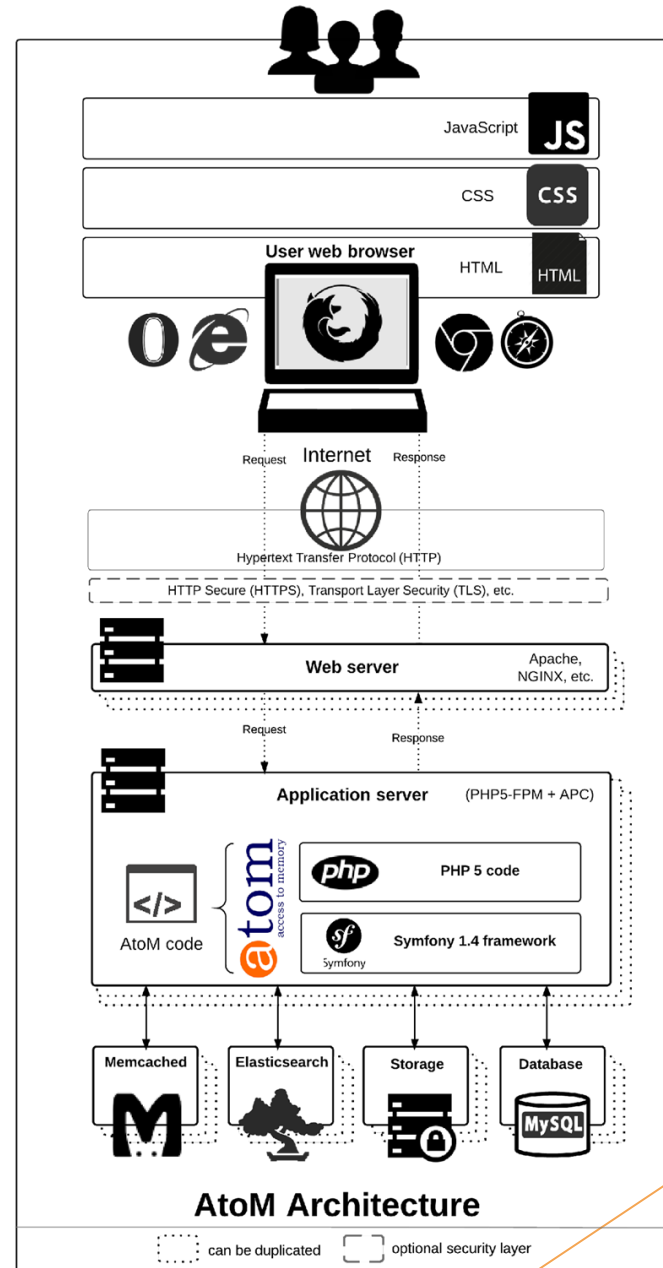
# Web-based: platform independent

## Browser-based user interface.

- Anyone with access to a browser (e.g., Chrome, Internet Explorer, Firefox, Safari etc.) has access to all the features and functionality of the AtoM application.

## Platform independent application.

- The application runs on a web server that can be installed and run on many platforms.





# Open source: free as in freedom

- AtoM is built with open source tools (NGINX, MySQL, Symfony, Elasticsearch), rather than proprietary (i.e., closed-source).
- Underlying software code of AtoM is open source.
  - Free to use
  - Free to modify
  - Free to share

The screenshot shows the GitHub repository page for 'artefactual / atom'. The repository is described as 'Open-source, web application for archival description and public access' with a link to <http://www.accesstomemory.org>. It has 1,982 commits, 50 branches, 20 releases, and 15 contributors. The current branch is 'qa/2.2.x'. A table of recent commits is shown, including updates to the slug, admin/bio history, .gitignore, escaping\_strategy, and Finding Aid changes. The right sidebar shows options to view code, pull requests, pulse, and graphs, along with clone and download buttons.

File	Commit Message	Time Ago
.tx	Transifex: update slug for 2.2	6 months ago
apps/qubit	Generic label for admin/bio history, refs #7948	6 days ago
cache	Stop using .gitignore under certain directories.	3 years ago
config	Enable escaping_strategy, refs #7647 #7699	a month ago
css	Merge branch '1.x' into 2.x	2 years ago
data	Finding Aid changes, refs #7723	27 days ago



# Open source: free as in freedom

Documentation is freely available.

Public User Forum for troubleshooting and community  
buildings is freely available.

## Main menu

The **main menu** is a navigational tool appears in the AtoM **header bar** for authenticated (i.e. logged in) users. It consists of 4 sub-menus, represented by icons:

- **Add** - represented by a icon
- **Manage** - represented by a icon
- **Import** - represented by a icon
- **Admin** - represented by a icon

Each sub-menu is designed as a **drop-down menu** - hovering over an icon in the **main menu** will cause a **tooltip** to appear with the name of the sub-menu (Add, Manage, Import, or Admin). Clicking on one of the icons will cause the drop-down to reveal the options available.

Access to the elements of the main menu (the sub-menus) depends on the **access privileges** associated with each user account. Consequently, some users may not see some of the icons for the sub-menus in the **main menu** after logging in. Access privileges are determined by the **user role** associated with a **user account** - for example, a **contributor** will see the **Add** and **Manage** menus, but not the **Import** or **Admin** menus. Only **administrators** will see all 4 sub-menus (Add, Manage, Import, Admin) in the **main menu**.

- For information on user roles, see: [User roles](#)
- For information on managing User accounts see: [Manage user accounts](#).
- For information on changing the permissions associated with an account or a group, see: [Edit user permissions](#)

### Tip

**Administrators** can add and remove options in the sub-menus (Add, Manage, Import, Admin) of the main menu via **Admin > Menus**. For more information, see [Manage menus](#)

## + ADD

The Add menu's options will redirect users to blank records in **edit mode**, ready for data entry. Using the Add menu, users can quickly create new **accession records**, **archival descriptions**, **archival institutions**, **authority records**, **functions**, and **terms**.

All records are created independently of other records, and will not be a part of a pre-existing hierarchy - that is to say, they will be top-level records.

### Find more information on working with:

- [Accession records](#)
- [Archival descriptions](#)
- [Archival institutions](#)
- [Authority records](#)
- [Functions](#)
- [Terms](#)

## MANAGE

The Manage menu allows authenticated (i.e. logged in) users to quickly access browse lists for key **entity types** in AtoM - **accessions**, donors, **physical storage**, **rights holders**, and **taxonomies**. When selecting from the Manage menu's **drop-down**, the user is redirected to a browse page for the selected **entity** or record type.





# Community-driven development

Artefactual maintains AtoM by offering additional paid services - hosting, theming, training, data migrations, and custom development

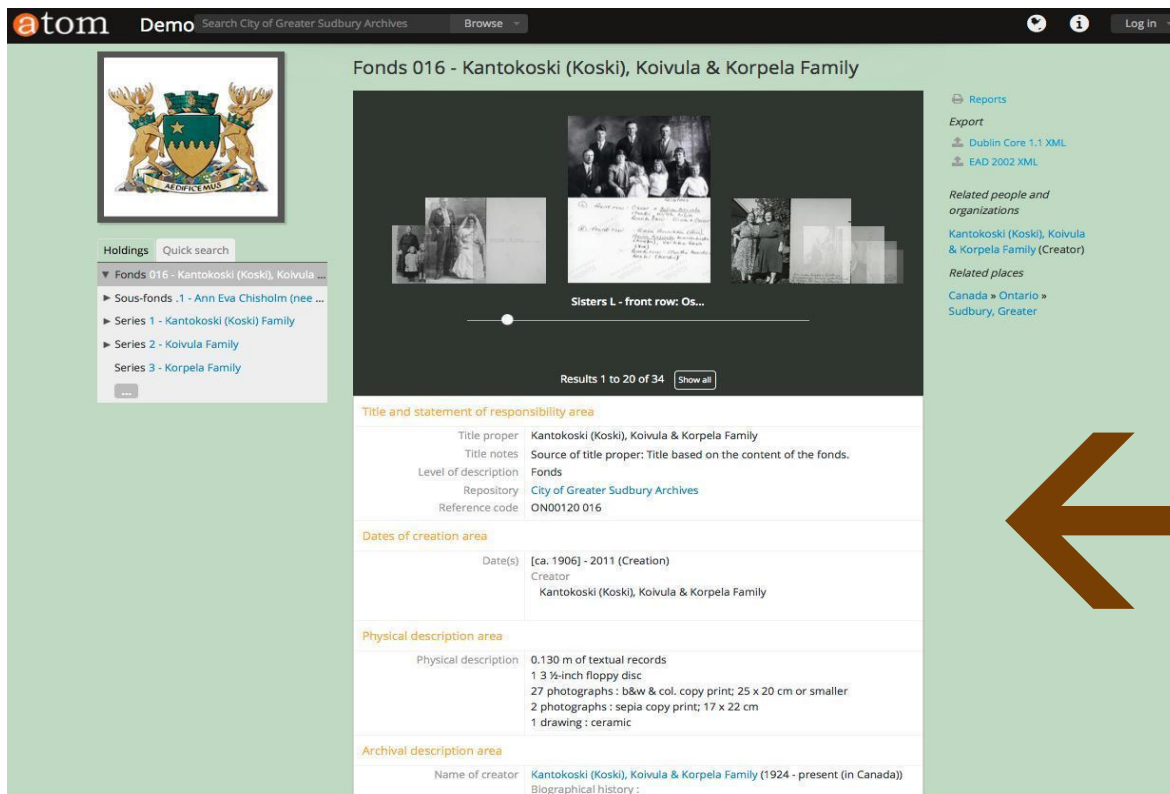
All custom developments are generalized and included in a future public release

**When one institution sponsors a feature, the entire community benefits!**

We  pull requests!

Because the code is open to inspection, any member of the community can fix problems, or develop new features and contribute code back. For any given problem, the community can troubleshoot it together.

# Standards-based description: User-friendly content standard edit templates



atom Demo Search City of Greater Sudbury Archives Browse Log In

Fonds 016 - Kantokoski (Koski), Koivula & Korpela Family

Holdings Quick search

Fonds 016 - Kantokoski (Koski), Koivula & Korpela Family

Sous-fonds .1 - Ann Eva Chisholm (nee ...)

Series 1 - Kantokoski (Koski) Family

Series 2 - Koivula Family

Series 3 - Korpela Family

Results 1 to 20 of 34 Show all

Sisters L - front row: Os...

Reports

Export

Dublin Core 1.1 XML

EAD 2002 XML

Related people and organizations

Kantokoski (Koski), Koivula & Korpela Family (Creator)

Related places

Canada » Ontario » Sudbury, Greater

Title and statement of responsibility area

Title proper: Kantokoski (Koski), Koivula & Korpela Family

Title notes: Source of title proper: Title based on the content of the fonds.

Level of description: Fonds

Repository: City of Greater Sudbury Archives

Reference code: ON00120 016

Dates of creation area

Date(s): [ca. 1906] - 2011 (Creation)

Creator: Kantokoski (Koski), Koivula & Korpela Family

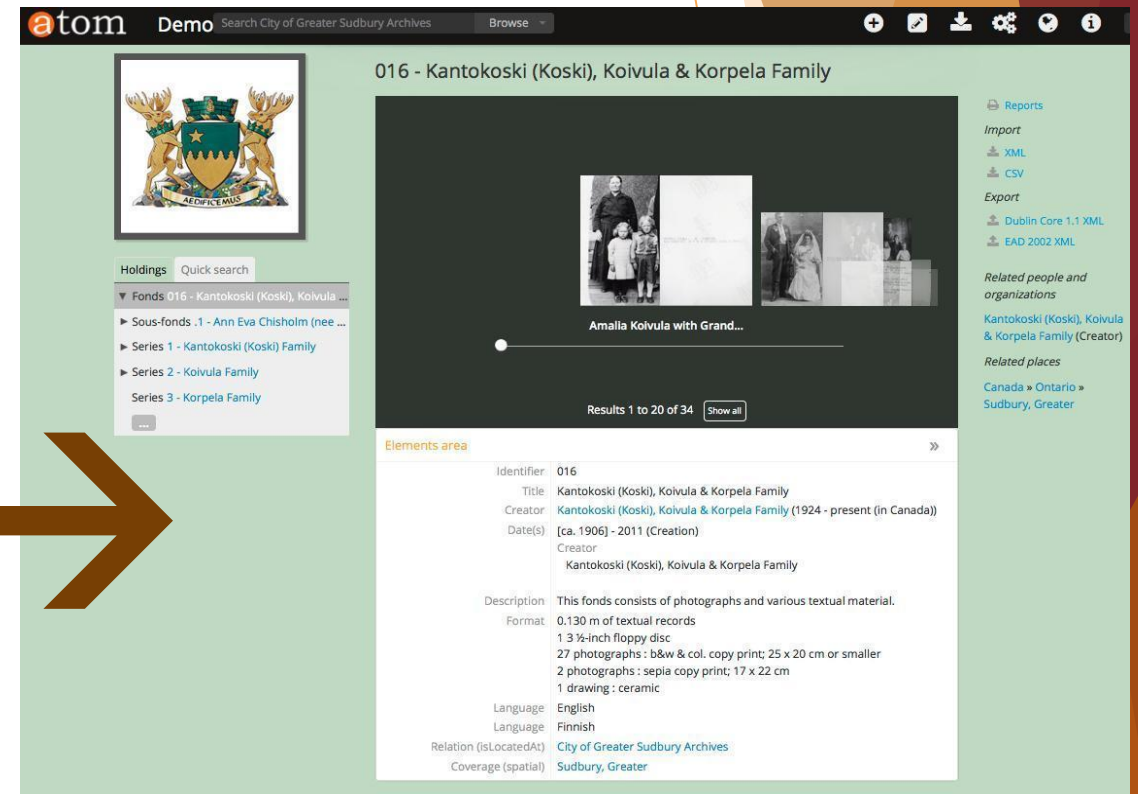
Physical description area

Physical description: 0.130 m of textual records  
1 3 1/2-inch floppy disc  
27 photographs: b&w & col. copy print; 25 x 20 cm or smaller  
2 photographs: sepia copy print; 17 x 22 cm  
1 drawing: ceramic

Archival description area

Name of creator: Kantokoski (Koski), Koivula & Korpela Family (1924 - present (in Canada))

Biographical history:



atom Demo Search City of Greater Sudbury Archives Browse Log In

016 - Kantokoski (Koski), Koivula & Korpela Family

Holdings Quick search

Fonds 016 - Kantokoski (Koski), Koivula & Korpela Family

Sous-fonds .1 - Ann Eva Chisholm (nee ...)

Series 1 - Kantokoski (Koski) Family

Series 2 - Koivula Family

Series 3 - Korpela Family

Results 1 to 20 of 34 Show all

Amalia Koivula with Grand...

Reports

Import

XML

CSV

Export

Dublin Core 1.1 XML

EAD 2002 XML

Related people and organizations

Kantokoski (Koski), Koivula & Korpela Family (Creator)

Related places

Canada » Ontario » Sudbury, Greater

Elements area

Identifier: 016

Title: Kantokoski (Koski), Koivula & Korpela Family

Creator: Kantokoski (Koski), Koivula & Korpela Family (1924 - present (in Canada))

Date(s): [ca. 1906] - 2011 (Creation)

Creator: Kantokoski (Koski), Koivula & Korpela Family

Description: This fonds consists of photographs and various textual material.

Format: 0.130 m of textual records  
1 3 1/2-inch floppy disc  
27 photographs: b&w & col. copy print; 25 x 20 cm or smaller  
2 photographs: sepia copy print; 17 x 22 cm  
1 drawing: ceramic

Language: English

Language: Finnish

Relation (sLocatedAt): City of Greater Sudbury Archives

Coverage (spatial): Sudbury, Greater

Templates: ISAD(G), DACS, RAD, DC, MODS  
ISAAR-CPF, ISDIAH, ISDF

# Multi-lingual interfaces



- Holdings Quick search
- Collection C1 - 개인기증 collection
  - Fonds F1 - 이창윤 기증기록물 fonds
  - File FL1 - 군대생활 file

## Fonds F1 - 이창윤 기증기록물 fonds

개인기증 collection > 이창윤 기증기록물 fonds

### Identity area

Reference code	KR HMA C1>F1
Title	이창윤 기증기록물 fonds
Level of description	Fonds
Extent and medium	노트 반쪽

### Context area

Repository	*인간과기억아카이브
------------	------------

### Content and structure area

Scope and content	시간적 범위: 1984 내용적 범위: 모친에게 보낸 안부 메모 1건
-------------------	--

### Conditions of access and use area

Language of material	Korean
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### Allied materials area

Existence and location of originals	1번서가-가열-1단
Existence and location of copies	이창윤 컬렉션에 해당하는 1: 공하였다. 소장 기록물 홍보: 보관하고 있음



acervo

Divisão Central de Informações do Estad...  
Monumento aos Bandeirantes  
Universidade Federal de Goiás

## Centro de Informação, Documentação e Arquivo da UFG

instituição arquivística Centro de Informação, Documentação e Arquivo da UFG

CIDARQ CENTRO DE INFORMAÇÃO, DOCUMENTAÇÃO E ARQUIVO

### Zona de identificação

Identificador	GOUG
Forma autorizada do nome	Centro de Informação, Documentação e Arquivo da UFG
Tipo	Universitário

### Zona de contato

Atendimento Geral CONTACTO PRINCIPAL

## Archives communales VD

Rechercher

Naviguer ▾

Inventaires des archives communales du Canton de Vaud

LANGUE	
français	102
anglais	1
TYPE D'ENTITÉ	
Tout	
Collectivité	83
Personne	10
Famille	1

Affichage de 102 résultats  
Notice d'autorité

Recherche de notice d'autorité

Trier par: Par ordre alphabétique ▾

Amicale fribourgeoise des Avants et environs  
1945 - 2013

Association de Parents pour la Petite Enfance APPE  
1988-actuel

Association de la Maison Visinand

Association des Intérêts de Tavel  
XX - XX

Association des nouvelles orgues de Saint-Vincent

Bienne - Archives de la ville  
1945-nos jours

Billard Club Ouest Lausannois BOL  
1942-2012



# Multi-repository support: per-institution theming

Narrow your results by:

Showing 627 results

Search archival institution

Sort by: **Alphabetic**

**LANGUAGE**

- English 627
- French 16

**ARCHIVE TYPE**

- All
- University/College 20
- Government 17
- Community 14
- Religious Organization 9
- Historical Society 8
- Municipal 6
- Library 5
- Educational Organization 5
- Museum 4
- Medical Organization 4

**REGION**

- All
- ontario 89
- bc 4
- manitoba 1

Acadia University Archives

Admiral Digby Library and Hist...

Agassiz-Harrison M...

Alberni Valley Museum

Alberta Health Services Archives

Alberni Museum

Alex Youck School Museum

Alert Bay Library

Results 1 to 10 of 627

atom Search University of St. Michael's College, John... Browse

University of St. Michael's College, John...

Archival institution > University of St. Michael's College, John...

**JOHN M. KELLY LIBRARY**  
Special Collections & Archives

**PLEASE NOTE:** The John M. Kelly Library will be closed December 24 hours resume January 2, 2014.

**Identity area**

Identifier	ON00389
Authorized form of name	University of St. Michael's College, J...
Other form(s) of name	University of St. Michael's College, J... and Archives
Type	University/College

**Contact area**

Address	Street address: 113 St. Joseph Street Locality: Toronto Region: Ontario Country name: Canada Postal code: M5S 1J4
Telephone	416-926-1300 ext.3405
Email	<a href="mailto:g.earnshaw@utoronto.ca">g.earnshaw@utoronto.ca</a>
URL	<a href="http://www.utoronto.ca/stmikes/kelly/nouwen/index.html">http://www.utoronto.ca/stmikes/kelly/nouwen/index.html</a>

**Description area**

Records management and collecting policies	Although our collections cover a wide range of subjects, we tend to focus on humanities disciplines including Catholic theology, the Middle Ages, book history and media, Celtic Studies, and English, French, Italian, Slavic and German literature.
Holdings	Extensive rare book collection Over 4,000 movies and documentaries on DVD The Henri J. M. Nouwen Archives

ARCHIVESCANADA.ca  
Canadian Archival Information Network  
BETA

HOME CONTACT US FRANÇAIS LOG IN ALSO VISIT CANADIAN COUNCIL OF ARCHIVES

Search Laurentian University Archives

Laurentian University Archives

Archival institution > Laurentian University Archives

**Laurentian University**  
Université Laurentienne

**Holdings**

- Barbara M. Hanley fonds
- Brotherhood of Railway Carmen, Local 18...
- Buchanan family fonds
- Cleve Kidd fonds
- Dorothy Wigmore fonds
- Dorothy Zaborsky fonds
- Elmer Sopha fonds
- Floyd Laughren fonds
- Fonds Jean Noël Desmarais
- Fonds Jean Étienne Fournier

Q Browse 27 holdings

**Identity area**

Identifier	ON00159
Authorized form of name	Laurentian University Archives
Parallel form(s) of name	Archives l'Université Laurentienne
Type	University/College

**Contact area**

Address	Street address: 935 Ramsey Lake Road Locality: Sudbury Region: Ontario Country name: Canada Postal code: P3E 2C6
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**Primary contact**

935 Ramsey Lake Road  
Sudbury, Ontario  
CA P3E 2C6

Website Email





# Archivematica integration

The screenshot shows the Archivematica web interface. At the top, there's a navigation bar with tabs: Transfer, Ingest, Archival storage, Preservation planning, Access, and Administration. The 'Transfer' tab is active. Below the navigation bar, there's a form with fields for 'Type' (set to 'Standard'), 'Transfer name', 'Accession no.', and a 'Browse' button. A green 'Start transfer' button is also visible. Below the form, there's a table with columns: Transfer, UUID, and Transfer start time. The table shows a transfer named 'Memphis Jack files' with UUID '55fd7dd2-48cb-463e-a625-1c41183e92e0' and start time '2013-04-29 13:43'. Below the table, there's a list of micro-services and jobs. A dropdown menu is open, showing options: 'Create SIP(s) manually', 'Send to backlog', 'Reject transfer', and 'Create single SIP and continue processing'.

Transfer	UUID	Transfer start time
Memphis Jack files	55fd7dd2-48cb-463e-a625-1c41183e92e0	2013-04-29 13:43

- Micro-service: Create SIP from Transfer
  - Job: Create SIP(s) [?] - Awaiting decision
  - Job: Load options to create SIPs - Completed successfully
  - Job: Check transfer directory for objects - Completed successfully
- Micro-service: Complete transfer
- Micro-service: Characterize and extract metadata
- Micro-service: Clean up names
- Micro-service: Scan for viruses
- Micro-service: Extract packages
- Micro-service: Quarantine
- Micro-service: Generate METS.xml document
- Micro-service: Verify transfer checksums
- Micro-service: Assign file UUIDs and checksums
- Micro-service: Include default Transfer processingMCP.xml
- Micro-service: Rename with transfer UUID
- Micro-service: Verify transfer compliance
- Micro-service: Approve transfer
- Job: Approve standard transfer

bug5008

The screenshot shows the Archivematica web interface with the 'Upload DIP' dialog box open. The dialog box has a title 'Upload DIP' and a description: 'Upload the generated DIP to ICA-AtOM (Qubit) using the permalink of the target description.' Below the description, there's a text input field with the value 'sample-fonds'. Below the input field, there's a note: 'Example: if url is http://myICA-AtOM.ca/newsletters-2:rad enter newsletters-2'. At the bottom of the dialog box, there are 'Cancel' and 'Upload' buttons. In the background, the 'Ingest' tab is active, showing a list of submission information packages. The first package is 'Sample\_series\_2' with a job 'Store AIP (review) [?]'. Below this, there's a list of micro-services and jobs. The 'Upload DIP' job is currently 'Awaiting decision'.

localhost/ingest/

archivematica

Upload DIP

Upload the generated DIP to ICA-AtOM (Qubit) using the permalink of the target description.

Enter the permalink of the target description

sample-fonds

Example: if url is http://myICA-AtOM.ca/newsletters-2:rad enter newsletters-2

Cancel Upload

localhost/ingest/#

# Let's get started!



[www.accesstomemory.org](http://www.accesstomemory.org)  
@accesstomemory

**DOCS:** [www.accesstomemory.org/docs/](http://www.accesstomemory.org/docs/)  
**DEMO SITE:** [demo.accesstomemory.org](http://demo.accesstomemory.org)

# artefactual

[www.artefactual.com](http://www.artefactual.com)

# Let's get started!

**VMs:** [http://dlf-atom-\[N\].accesstomemory.org/](http://dlf-atom-[N].accesstomemory.org/)  
[http://dlf-am-\[N\].archivematica.org/](http://dlf-am-[N].archivematica.org/)

**TEST MATERIALS:** <https://goo.gl/gjo507>

**AtoM login:** dlf@example.com

**AtoM pass:** freekittensATOM

