

# Pairing OLRC with Containers for Low-Cost Computing

A minimal approach to confronting an expensive form of historical digitization in a budget-friendly forward-facing manner



University  
of Windsor



OurDigitalWorld

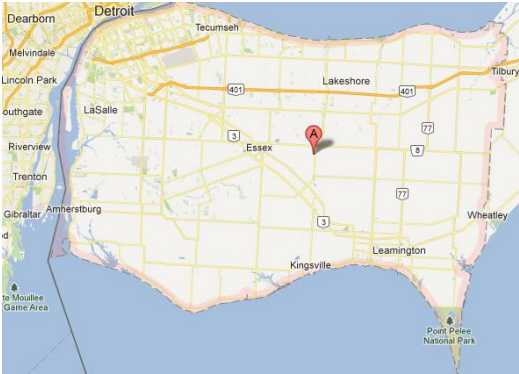
Art Rhyno - U of  
Windsor/OurDigitalWorld



*Scholars Portal Days: Building with Intention - May 29-30, 2025*

# Knowledge Ontario funding axed

**KATE HAMMER** >  
 EDUCATION REPORTER  
 PUBLISHED APRIL 22, 2011



INK2 Initial Collection ☆ 📁 🌐

File Edit View Insert Format Data Tools Extensions Help


🔍 🔄 🖨️ 100% 📏 123 Default - 10 + B I 🔗 🌐 📄 ⋮

A13 Chatham Gleaner

	A	B	C	D	E	F	G	H	I	J
	Newspaper Title	Code	Img Count	Address	Coordinates	Region	Language	Essay	Source	Notes
1	Chatham Gleaner	cgleaner	919	No address given	42.406172133 131136, -82.17544387 420104	City of Chatham-Kent	English	Y	Microfilm	
13	Chatham Planet	cplanet	5,317	930 Richmond St	42.383453461 52957, -82.21141778 954258	City of Chatham-Kent	English	Y	Microfilm	
14	Clairon, Le	clairon	24	Address on front page	42.319096528 847005, -83.03997597 605218	County of Essex	French	Y	Paper	Paper copies from the Community Museum.
15	Comber Herald	comber	19,448	Essay identifies "main st"	42.234672599 2394, -82.55235819 935912	County of Essex	English	Y	Microfilm	Gruesome microfilm - used special processing to clean
16	Courier, Le	lcou	25	2nd location from Essay, 24 Pitt St	42.319056863 96676,	County of Essex	French	Y	Microfilm	

http://ink.scholarsportal.info/ Go JAN MAR JUN 22 2023 2024 2025 About this capture

101 captures  
29 Jan 2016 - 15 Apr 2025

 Our Digital World

# INK - ODW Newspaper Collection

 HOME

Search Newspapers

Search

## Welcome to INK

INK was a **pilot** project of *OurOntario*, one of the subprojects of Knowledge Ontario (KO) and has been kept afloat by OurDigitalWorld (ODW). KO ceased a decade ago when the provincial funding was pulled and INK has not seen any investment since that time. Despite this, the collection brings together over 200 years of newspaper titles. 52 community newspapers are presented, representing over 100,000 complete

### Navigation

- > Advanced search
- > List of titles
- > My bookmarks
- > Timeline & coverage

- \$40K server purchased from OCUL(2007)
- Contract developers - stack loosely based on [Chronicling America](#)
- Equipment fails security audit (2024)



Media Monitoring of the Past

## Media Monitoring of the Past

Media Monitoring of the Past - Beyond Borders: Connecting Historical Newspapers and Radio.

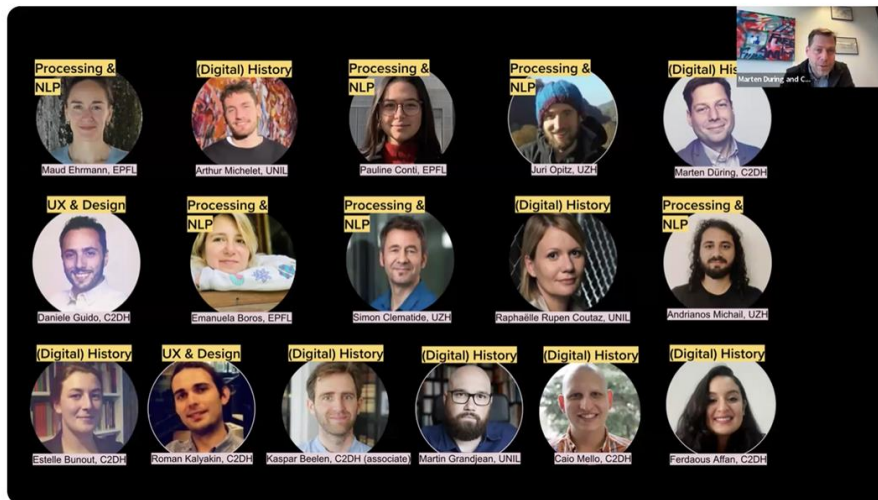
39 followers Switzerland <https://impresso-project.ch/> <https://ch.linkedin.com/company/imp...>

Overview Repositories 54 Projects Packages People 4

README .md



Media Monitoring of the Past



### Chat Messages

Search chat

1

Nathan Kelber (Constell... 45:06

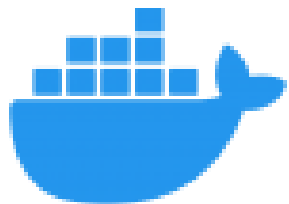
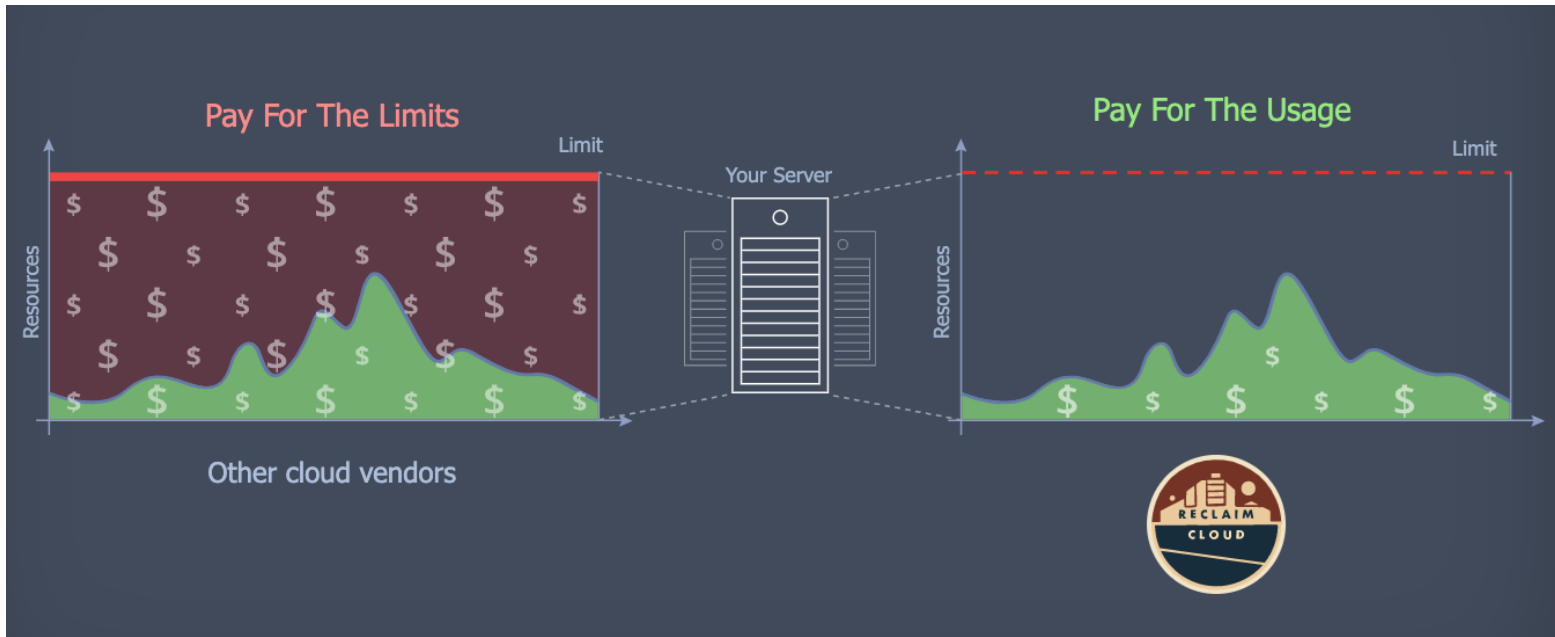


What a great partnership! The Impresso project is funded by the Swiss National Science Foundation and the Luxembourg National Research Fund. As an American, I'm so concerned about IMLS and NEH ODH being dismantled. This is exactly the kind of projects they fund here in America.

4

Nathan Kelber (Constell... 46:13

No shortage of good replacement options!



<https://reclaim.cloud>

Issue 48, 2020-05-11

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## Building a Library Search Infrastructure with Elasticsearch

*This article discusses our implementation of an Elastic cluster to address our search, search administration and indexing needs, how it integrates in our technology infrastructure, and finally takes a close look at the way that we built a reusable, dynamic search engine that powers our digital repository search. We cover the lessons learned with our early implementations and how to address them to lay the groundwork for a scalable, networked search environment that can also be applied to alternative search engines such as Solr.*

by Kim Pham, Fernando Reyes, and Jeff Rynhart

ISSN 1940-5758

### Current Issue

Issue 60, 2025-04-14

### Previous Issues

Issue 59, 2024-10-07

Issue 58, 2023-12-04

Issue 57, 2023-08-29

Issue 56, 2023-04-21

Older Issues

<https://journal.code4lib.org/articles/15203>

## Typical Newspaper Digitization Stack

- HTTP/HTTPS server (Apache, Nginx, ...)
- Database (MySQL, Postgres, ...)
- IIIF Image Server (IIIF Image, Cantaloupe,...)
- Local Disk (Direct I/O)
- Framework (Ruby on Rails, Django, ...)
- Lucene-based indexing (Elasticsearch, Solr)

Support Server(s) =  
(Operating System(s),  
Maintenance)

Disk Farm(s) =  
(Backups,  
Maintenance)

The screenshot shows a cloud management interface with a dark theme. At the top, there are navigation buttons: 'NEW ENVIRONMENT', 'IMPORT', and 'MARKETPLACE'. To the right, there is a 'BALANCE \$14.81' indicator with a dropdown arrow, which is circled in red. Further right are 'SETTINGS', 'HELP', and a user profile icon labeled 'ARTRHYNO@UWINDSOR.CA'. Below the navigation bar, there is a table of environment groups. The table has columns for 'Name', 'Status', 'Tags', and 'Usage'. The first row shows an environment named 'env-6966196' with status 'Running' and usage '1 / 8' (3%). Below this, there are sections for 'Application Servers' (Node.js 23.11.0), 'Node ID: 16307', and 'Deployments' (ROOT).

Name	Status	Tags	Usage
env-6966196 env-6966196.us.reclaim.cloud	Running		1 / 8 3%
Application Servers Node.js 23.11.0		rtest.zip	1 / 8 3%
Node ID: 16307		23.11.0-pm2-almalinux-9	1 / 8 3%
Deployments		ROOT	rtest.zip

# Byte Ranges & Zip Archives...

HTTP/2 206

**content-type:** image/jpeg

**content-length:** 1024

**content-range:** bytes 0-1023/14651

...

(binary content)



[“Zip Files for Tile Delivery”](#) -  
[2024 IIF Online Meeting](#)

Local file header 1
File data 1
Data descriptor 1
Local file header 2
File data 2
Data descriptor 2
...
Local file header n
File data n
Data descriptor n
Archive decryption header
Archive extra data record
Central directory

- Project
- API Access
- Usage
- Object Store
  - Containers
- Admin
- Identity

Project / Object Store / Containers

## Containers

+ Container Segments

Click here for filters or full text search

- assets
- newspapers
- test
- workshop

assets : AECHO / 1874 / 1874\_11 / AECHO\_18741104

Click here for filters or full text search. + Folder Upload Large Object

Displaying 3 items

Name	Size
manifest.json	8.07
odw.json	1.56
odw.zip	31.80

Displaying 3 items

## Files for AECHO\_18750122

Name	Last modified	Size
<a href="#">Go to parent directory</a>		
<a href="#">AECHO_18750122.pdf</a>	08-Feb-2024 21:42	4.9M
<a href="#">AECHO_18750122_archive.torrent</a>	11-Feb-2024 02:32	8.8K
<a href="#">AECHO_18750122_chocr.html.gz</a>	08-Feb-2024 21:38	1.4M
<a href="#">AECHO_18750122_djvu.txt</a>	08-Feb-2024 21:39	95.9K
<a href="#">AECHO_18750122_djvu.xml</a>	08-Feb-2024 21:39	1.3M
<a href="#">AECHO_18750122_files.xml</a>	11-Feb-2024 02:32	7.7K
<a href="#">AECHO_18750122_hocr.html</a>	08-Feb-2024 21:39	2.6M
<a href="#">AECHO_18750122_hocr_pageindex.json.gz</a>	08-Feb-2024 21:39	92.0B
<a href="#">AECHO_18750122_hocr_searchtext.txt.gz</a>	08-Feb-2024 21:39	47.6K
<a href="#">AECHO_18750122_images.zip (View Contents)</a>	08-Feb-2024 21:23	72.0M
<a href="#">AECHO_18750122_jp2.zip (View Contents)</a>	08-Feb-2024 21:26	10.1M
<a href="#">AECHO_18750122_meta.sqlite</a>	09-Feb-2024 00:42	28.0K
<a href="#">AECHO_18750122_meta.xml</a>	11-Feb-2024 02:32	1.6K
<a href="#">AECHO_18750122_page_numbers.json</a>	08-Feb-2024 21:40	823.0B
<a href="#">AECHO_18750122_scandata.xml</a>	08-Feb-2024 21:40	1.5K
<a href="#">__ia_thumb.jpg</a>	08-Feb-2024 21:43	17.6K
<a href="#">odw.json</a>	09-Feb-2024 00:42	2.0K
<a href="#">odw.zip (View Contents)</a>	09-Feb-2024 00:42	33.2M

IA Storage:  
AECHO\_18750122

OLRC Storage:  
AECHO/1875/1875\_01/AECHO\_18750122

- [Kenton Good & Sarah Severson \(Managing Digital Collections in the Internet Archive\)](#)



Image navigation: Image 1 of 4, Go, navigation arrows, settings icon.

CONTENTS

- Index
- Thumbnails

The Amherstburg Echo. January 22, 1875

+ - Home Refresh



MORE INFORMATION

ABOUT THE ITEM

Description

The Amherstburg Echo was a weekly newspaper that started publishing in 1874 and was the newspaper of record for the town till it ceased... [MORE](#)

Logo

The Amherstburg Echo. January  
by W. D. Balfour

Publication date 1875-01-22

Multiple options for web storage, rights issues can be a deciding factor.

Stay Connected

Contact Us

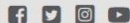
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Events

Connect with your library



Subscribe to Leddy News

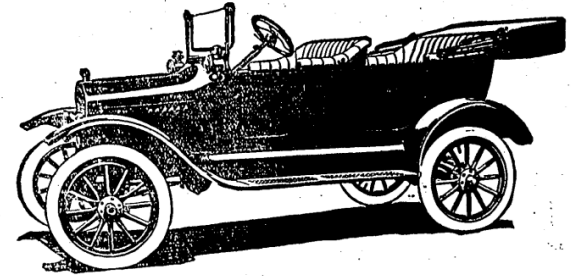
## Historic community newspapers find home in Archives & Special Collections



Is there a role for libraries to save at-risk paper collections of local newspapers?



a footprint for nearly every sports team, community event, church social, business opening/closing, birth, marriage, death, celebration, criminal action, expansion, decline, opinions, gatherings, elections, trends, weather patterns and more...



## A Ford Car Takes the Place of all These Things

WHEN you own a Ford you can do away with many articles that are a source of continuous expense to the man who still drives a horse. For instance, not only your driving-horse and buggy, but the single harness, blankets, whips, currycombs, brushes, horse-shoes, pitch-forks, feed-bins, etc.

In their place you have a speedy, dependable, dignified, roomy Ford Car—complete in itself. It is vastly superior to the narrow, cramped buggy that travels so slowly. And when a Ford is standing idle it does not eat three meals a day, and it requires no "looking after."

A Ford will save you time, trouble, and money. It is the utility car for the busy farmer and his family.



**To Ford**

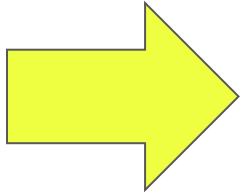
THE UNIVERSAL CAR

Touring	- -	\$595
Runabout	- -	\$575
Coupe	- -	\$770
Sedan	- -	\$970
Chassis	- -	\$535
One-ton Truck		\$750

E. O. B. FORD, ONT.

SAMUEL CARR, Dealer, Essex.  
THOS. P. HOOKER, Dealer, South Woodslee.  
ELMER QUEEN, Dealer, Cottam.

# Feedback welcomed...



arthyno@uwindSOR.ca

# Thanks for listening!