See a little Warclight:

Building an open-source web archive portal with Project Blacklight

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IIPC WAC 2019 - Zagreb

Plan for The Talk

- Introduction
- Background
- Warclight
- Implementation at scale
- Next steps

Background

One perspective

Standing on Shoulders of Giants

- Analytical Access to the Domain Dark Archive
  - webarchive-discovery
- Big UK Domain Data for the Arts and Humanities
  - Shine
- Ruby on Rails
- Project Blacklight (UVa)
  - Library Catalogues
  - Panama Papers
  - GeoBlacklight
  - Arclight
  - Warclight

R+L = J

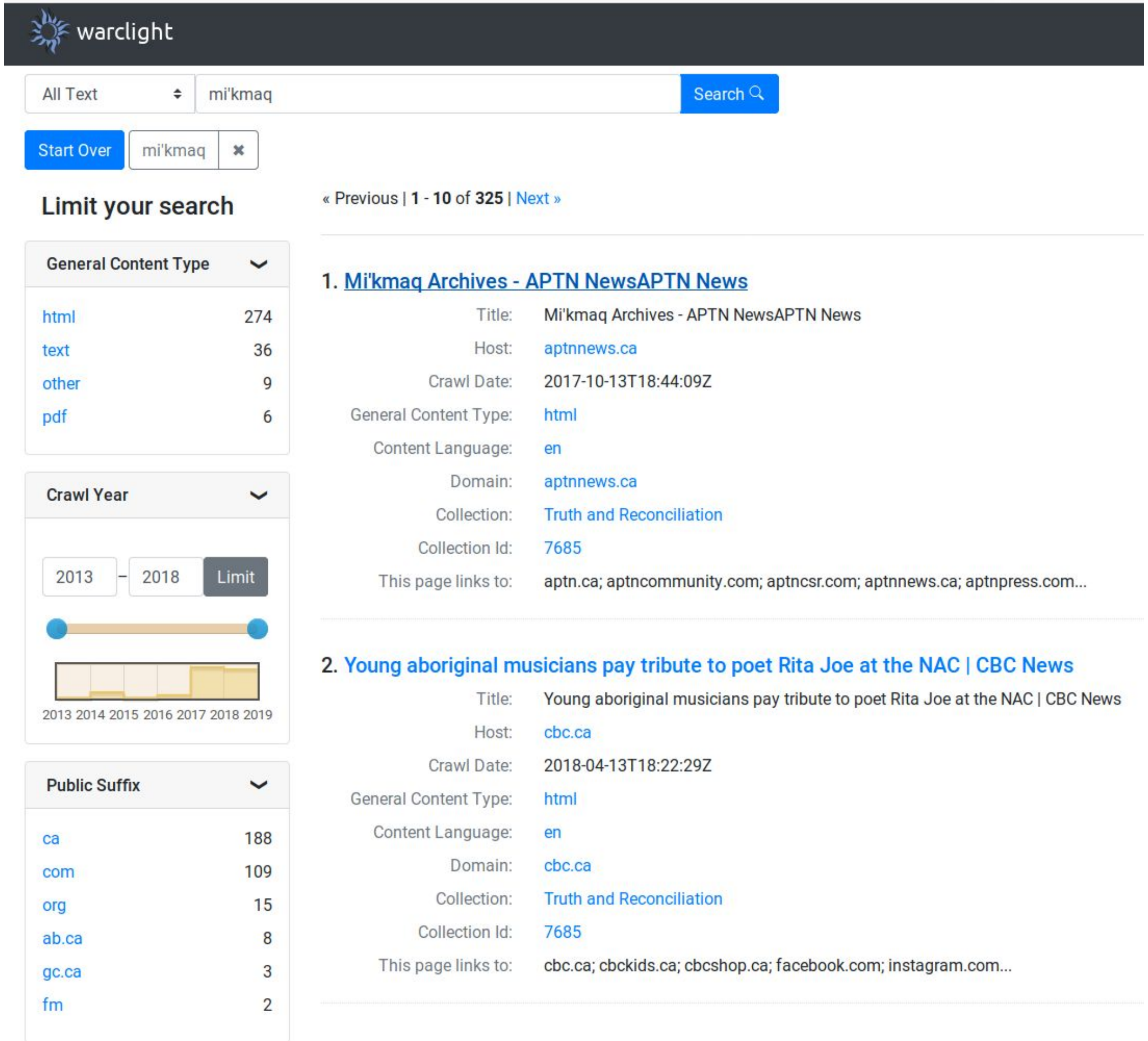
(Solr + webarchive-discovery) + Project Blacklight = Warclight

Warclight

What is it?

- Rails Engine
- Tight integration with webarchive-discovery
    - Collection, and Collection-ID
    - Institution
    - Resource name
- Features
    - Field search
    - Faceted search
    - Memento Replay URL check
    - Live web check
    - Thumbnail display
    - Plug-in architecture
        - Advanced Search
        - Range limit

😱 😱 Live Demo 😱 😱



All Text ⇕ | mi'kmaq | Search 🔍

Start Over | mi'kmaq ✖

« Previous | **1** - **10** of **325** | Next »

Limit your search

General Content Type

html	274
text	36
other	9
pdf	6

Crawl Year

2013 – 2018 Limit

Public Suffix

ca	188
com	109
org	15
ab.ca	8
gc.ca	3
fm	2

1. Mi'kmaq Archives - APTN NewsAPTN News

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Crawl Date:	2017-10-13T18:44:09Z
General Content Type:	html
Content Language:	en
Domain:	aptnnews.ca
Collection:	Truth and Reconciliation
Collection Id:	7685
This page links to:	aptn.ca; aptncommunity.com; aptncsr.com; aptnnews.ca; aptnpress.com...

2. Young aboriginal musicians pay tribute to poet Rita Joe at the NAC | CBC News

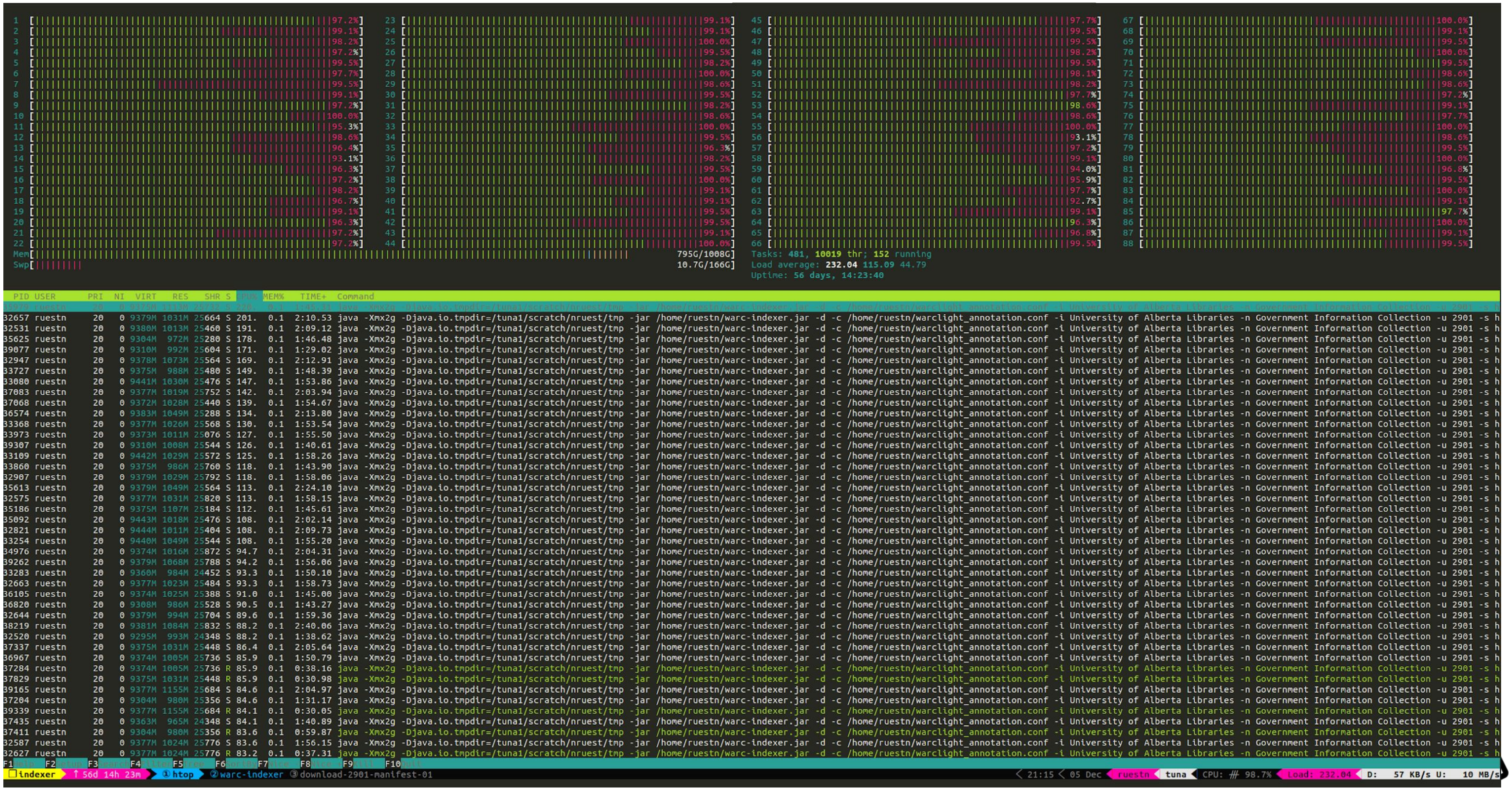
Title:	Young aboriginal musicians pay tribute to poet Rita Joe at the NAC | CBC News
Host:	cbc.ca
Crawl Date:	2018-04-13T18:22:29Z
General Content Type:	html
Content Language:	en
Domain:	cbc.ca
Collection:	Truth and Reconciliation
Collection Id:	7685
This page links to:	cbc.ca; cbckids.ca; cbcshop.ca; facebook.com; instagram.com...

Implementation at Scale

WALK

- 6 Canadian Universities
- Archive-It Partners
- 30T of WARCs
- 1+ Billion Solr docs
- ~1-2 months to download and index

Indexing



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37204 ruestn     20   0 9304M  980M 25356 S 84.6  0.1  1:31.17 java -Xmx2g -Djava.io.tmpdir=/tuna1/scratch/nruest/tmp -jar /home/ruestn/warc-indexer.jar -d -c /home/ruestn/warclight_annotation.conf -i University of Alberta Libraries -n Government Information Collection -u 2901 -s h
39339 ruestn     20   0 9377M 1155M 25684 R 84.1  0.1  0:30.05 java -Xmx2g -Djava.io.tmpdir=/tuna1/scratch/nruest/tmp -jar /home/ruestn/warc-indexer.jar -d -c /home/ruestn/warclight_annotation.conf -i University of Alberta Libraries -n Government Information Collection -u 2901 -s h
37435 ruestn     20   0 9363M  965M 24348 S 84.1  0.1  1:40.89 java -Xmx2g -Djava.io.tmpdir=/tuna1/scratch/nruest/tmp -jar /home/ruestn/warc-indexer.jar -d -c /home/ruestn/warclight_annotation.conf -i University of Alberta Libraries -n Government Information Collection -u 2901 -s h
37411 ruestn     20   0 9304M  980M 25356 R 83.6  0.1  0:59.87 java -Xmx2g -Djava.io.tmpdir=/tuna1/scratch/nruest/tmp -jar /home/ruestn/warc-indexer.jar -d -c /home/ruestn/warclight_annotation.conf -i University of Alberta Libraries -n Government Information Collection -u 2901 -s h
32587 ruestn     20   0 9377M 1024M 25776 S 83.6  0.1  1:56.15 java -Xmx2g -Djava.io.tmpdir=/tuna1/scratch/nruest/tmp -jar /home/ruestn/warc-indexer.jar -d -c /home/ruestn/warclight_annotation.conf -i University of Alberta Libraries -n Government Information Collection -u 2901 -s h
32627 ruestn     20   0 9377M 1024M 25776 R 83.2  0.1  0:37.31 java -Xmx2g -Djava.io.tmpdir=/tuna1/scratch/nruest/tmp -jar /home/ruestn/warc-indexer.jar -d -c /home/ruestn/warclight_annotation.conf -i University of Alberta Libraries -n Government Information Collection -u 2901 -s h
F1Help  F2Setup F3SearchF4FilterF5Tree  F6SortByF7Nice -F8Nice +F9Kill  F10Quit
□indexer  ↑ 56d 14h 23m  ①htop  ②warc-indexer ③download-2901-manifest-01        < 21:15 < 05 Dec  ruestn  tuna  CPU: ## 98.7%  Load: 232.04  D:   57 KB/s U:   10 MB/s
```

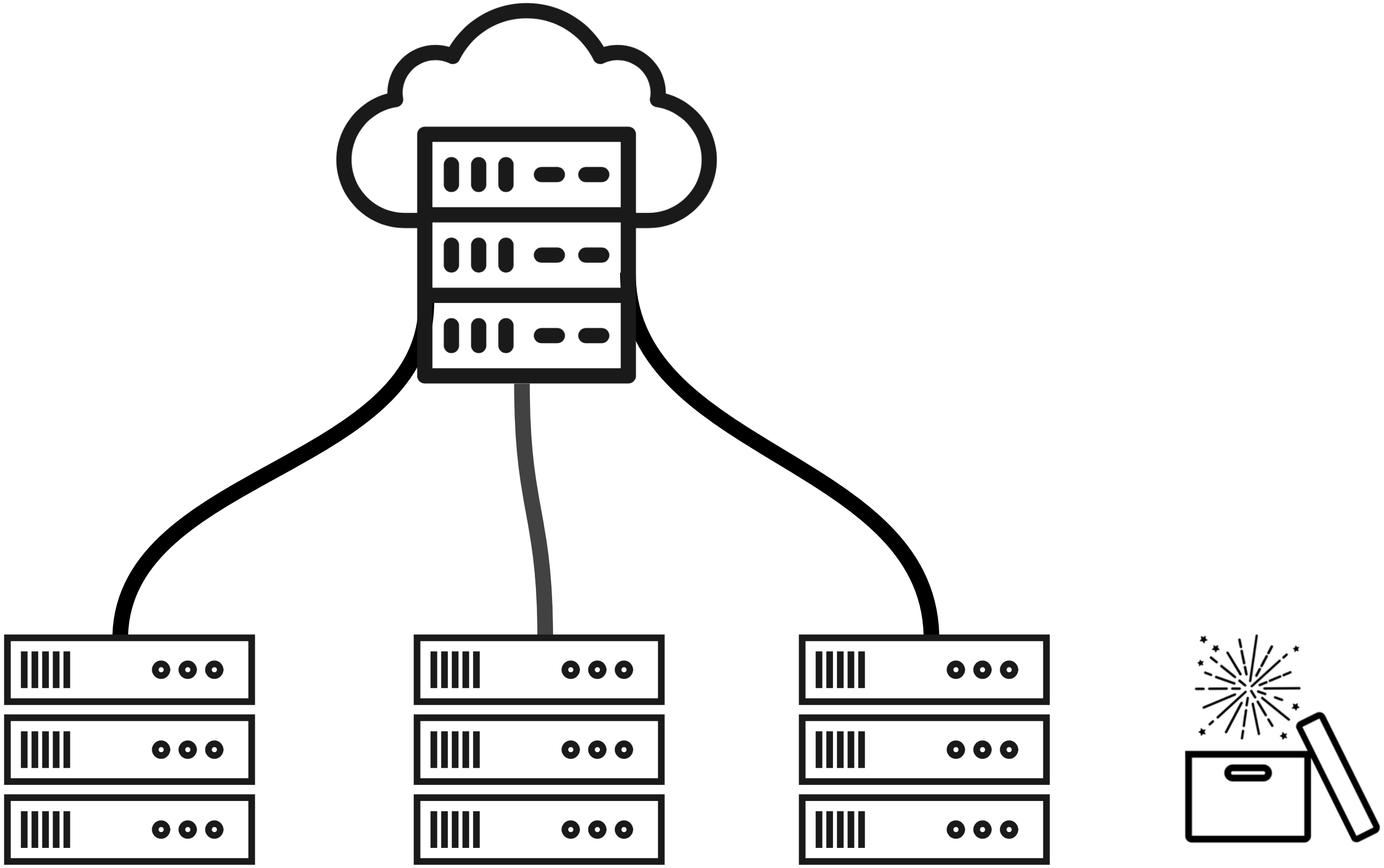
Warclight apps

- warclight demo - warclight.archivesunleashed.org (2,775,723)
- University of Toronto - utoronto.archivesunleashed.org (691,803,697)
- University of Alberta - ualberta.archivesunleashed.org (331,924,814)
- University of Victoria - uvic.archivesunleashed.org (18,873,434)
- University of Winnipeg - uwinnipeg.archivesunleashed.org (30,793,376)
- Dalhousie University - dalhousie.archivesunleashed.org (736,023)
- Simon Fraser University - sfu.archivesunleashed.org (787,991)
- GeoCities - geocities.archivesunleashed.org (316,694,661)
- WALK (federated) - walk.archivesunleashed.org (1,077,695,058)

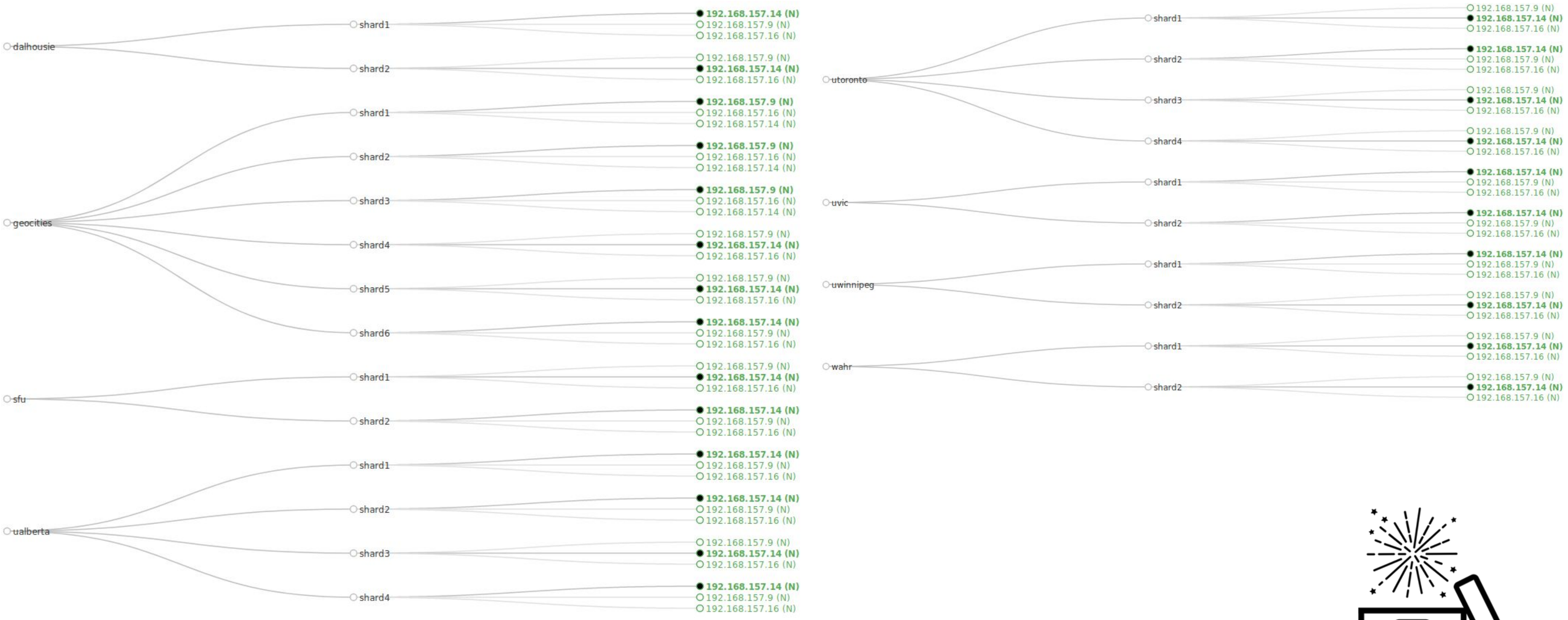
Components

APACHE
HTTP SERVER PROJECT
HAPROXY
PHUSION
ZOO
Solr
RAILS

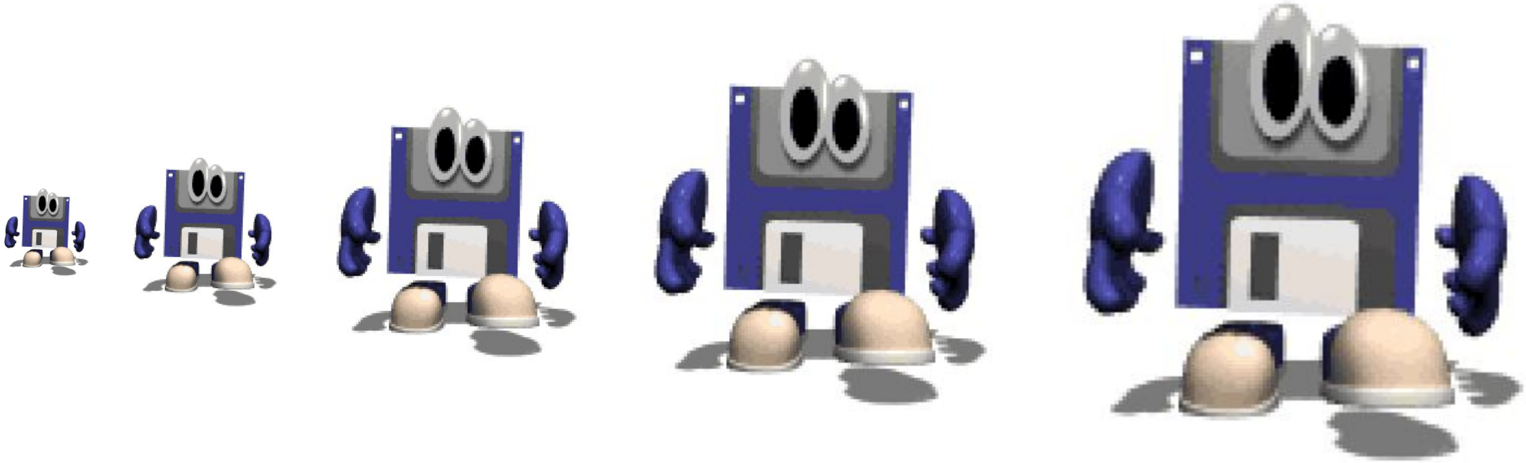
System diagram



SolrCloud Collections



Implementation



Facet caching:

- https://issues.apache.org/jira/browse/SOLR-13132
- https://github.com/magibney/solr-facet-cache

Solr index:

- 😱
- 💸

Next Steps

Discussion

- Another framework for webarchive-discovery
- Ruby on Rails vs Play Framework
- Parity features with Shine?
  - Concordance
  - Trend search
  - Blacklight plugins
- Growing the community - is there one?
- Reality of time and Archives Unleashed priorities
- Is this even sustainable?? (Solr index size)

We look forward to your questions and thoughts.

Thank you!

- Toke Eskildsen, Thomas Egense
- Andy Jackson, Gil Hoggarth
- Chris Beer, Jesse Keck, Justin Coyne (Blacklight Community)

Thanks to our supporters!

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Links

- archivesunleashed.org/warclight
- archivesunleashed.org
- cloud.archivesunleashed.org
- github.com/archivesunleashed
- slack.archivesunleashed.org
- news.archivesunleashed.org
- twitter.com/unleasharchives