Capturing the Web Today for Tomorrow

Innovations in capturing and analyzing social media and websites for the new scholarly record



Nick Ruest (@ruebot)
Ian Milligan (@ianmilligan1)

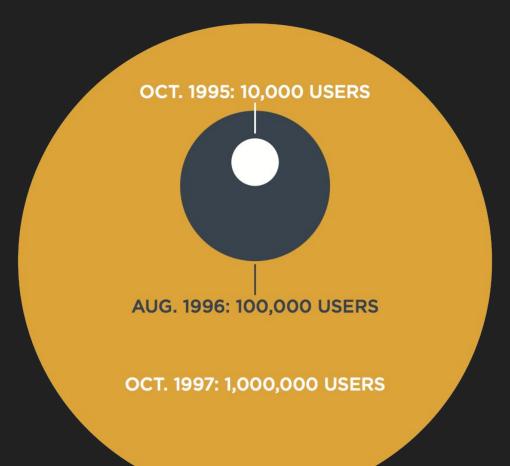


We have a problem facing our collective cultural heritage.





GEOCITIES USERS:

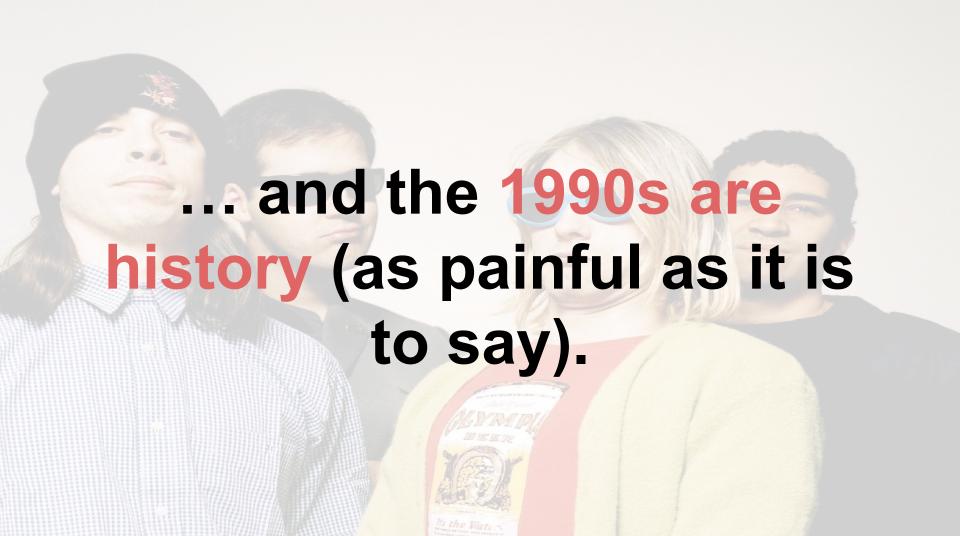


This is a scale that boggles the mind – compare it to the Old Bailey 197,745 trials between 1674 and 1913)



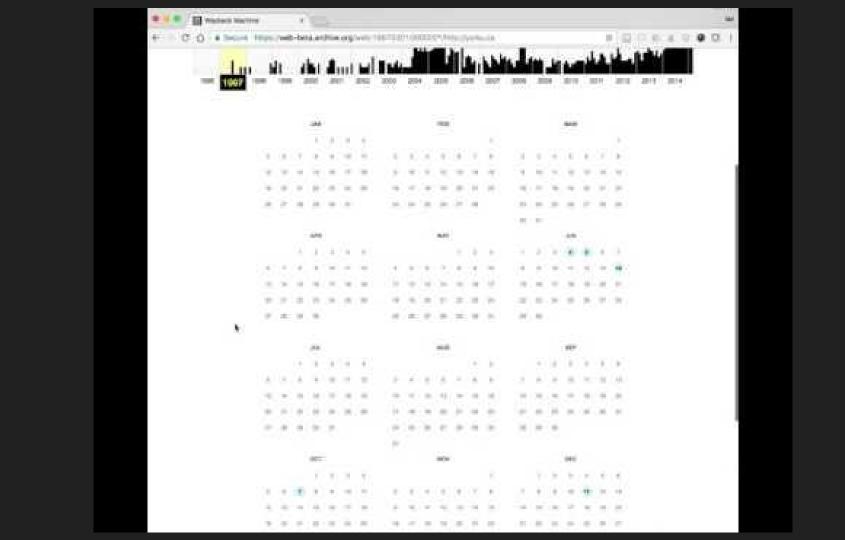


Could one even study the 1990s and beyond without web archives?



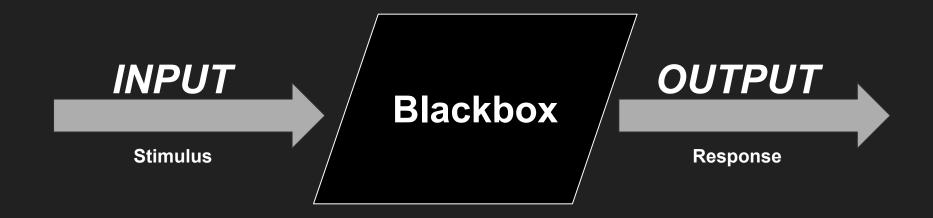
And we have fears...

The decisions we make today will lay the foundations for how we work with born-digital cultural heritage.



Won't be enough - we'll need search engines and discovery tools.

But what will our search engines look like?



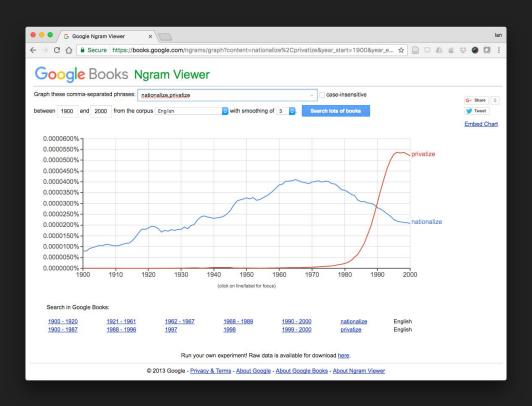


We can't let the Blackbox write our histories.

Our nightmare:

Historians rely uncritically on date-ordered or algorithmically-ranked keyword search results, putting them at mercy of search algorithms they do not understand.

Some disturbing trends in this area...



The historians who came to the meeting were intelligent, kind, and encouraging. But they didn't seem to have a good sense of how to wield quantitative data to answer questions, didn't have relevant computational skills, and didn't seem to have the time to dedicate to a big multiauthor collaboration. It's not their fault: these things don't appear to be taught or encouraged in history departments right now.

-Erez Leiberman Aiden and Jean-Baptiste Michel

We need interdisciplinary collaboration to tackle this problem!



Social Sciences and Humanities Research Council of Canada

Canadä

Conseil de recherches en sciences humaines du Canada





Team(s)

Web Archives for Historical Research

Historians







Computer Scientists







Librarians Archivists



Governance



Projects & Platforms

webarchives.ca

Shine

https://github.com/ukwa/shine/

Canadian Political Parties & Political Interest Group Collection (ARCHIVE-IT/Toronto)

- 50 Websites
 - All major political parties
 - Many minor political parties
 - Political interest groups
- Collected quarterly between 2005 and present

You are viewing an archived web page, collected at the request of <u>University of Toronto</u> using <u>Archive-It</u>. This page was captured on 19:14:04 Oct 04, 2005, and is part of the <u>Canadian Political Parties and Political Interest Groups</u> collection. The information on this web page may be out of date. See <u>All versions</u> of this archived page.



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The Current Interface...

- Very limited simple search engine, some advanced options; no facets
- **Great collection..** But nobody uses them.



HOME EXPLORE LEARN MORE CONTACT US

The leading web archiving service for collecting and accessing cultural heritage on the web Built at the Internet Archive



Explore >> University of Toronto >> Canadian Political Parties and Political Interest Groups



national Canadian political parties, and a number of special interest groups across the political spectrul Subject: <u>Politics & Elections</u> Collector: <u>University of Toronto</u>

Enter a search term on the right to search the text within the archived pages. Or for more search options, use the Advanced

Search options below. Advanced Search Sites for this collection are listed below. Narrow your results at left, or enter a search query below to find a site, specific URL or to search the text of archived webpages.

stephen harper

The following results were found for the term(s): stephen harper . No metadata results for stephen harper, but there are up to 1233056 matches within the page text.

Contains all of:	Search Page Text
Exact phrase:	
	Sort By: Best Match
Not containing:	
	Stephen Harpe
	URL: http://www.fac
From the Host:	This text was capture
ex. www.archive-it.org	Stephen Harper Fa Facebook Sign up for
	Currently Stephen
Results per host:	See all PM on Wolf
1 (default) \$	Stephen Harper Wa
File format:	Stephen Harper Cele to eligible apprentic
All formats \$	Statement on the 921
•	Stephen Harper Ann
Capture date range:	Content: text/html Si
From: (More Results from fa
To: (

Advanced Search

Thelp with Search

Page 1 of 61,653 (1,233,056 Total Results)

nen Harper | Facebook

tp://www.facebook.com/pages/Stephen-Harper/9106562109

xt was captured on May 02, 2009 Show All Captures

n Harper | Facebook Remember Me Forgot your password? Sign Up Stephen Harper is on ok Sign up for Facebook to connect with Stephen Harper. Information Country: Canada tly... Stephen Harper | Showing 10 photos Most Recent | Edit Pictures YouTube Box 10 of 13 PM on Wolf... the Prime Minister 11:28am Dec 22 | 30 Comments Create a Page Report Page en Harper Wall Info Boxes Notes Stephen Harper + Fans Just Stephen Harper Just Fans n Harper Celebrating... Stephen Harper Launched the Apprenticeship Completion Grant. \$2000 ble apprentices. http://tinyurl.com/cqyzvy April 9 at 11:47am Stephen Harper 'Lest we forget.' ent on the 92nd anniversary of the battle of Vimy Ridge, http://bit.ly/ERb1l April 9 at 11:25am n Harper Announced new..

nt: text/html Size: 108 KB Results from facebook.com

Stephen Harper (pmharper) on Twitter

URL: http://twitter.com/PMHarper This text was captured on Aug 03, 2010 Show All Captures

Stephen Harper (pmharper) on Twitter Skip past navigation On a mobile phone? Check out m.twitter.com ! Skip to navigation Skip to sign in form Have an account? Sign in Username or email Password Remember me Forgot password? Forgot username? Already using Twitter on your phone? Get short, timely messages from Stephen Harper. Twitter is a rich source of instantly updated information. It's easy to stay updated on an incredibly wide variety of topics. Join today and follow @pmharper . Get updates via SMS by texting follow pmharper to 40404 in the United States Codes for other countries Two-way (sending and receiving) short codes: Country Code For customers of Australia 0198089488 Telstra Canada... Account Name Stephen Harper Location Ottawa, Ontario Web http://www.conser... Bio Prime Minister of... Content: text/html Size: 46 KB

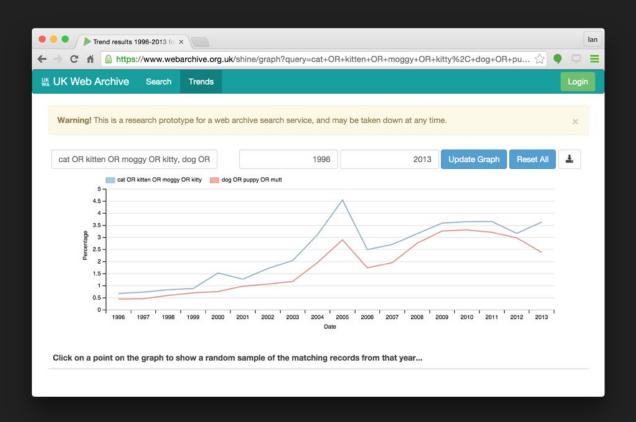
More Results from twitter.com

The Walrus » The Man Behind Stephen Harper » Tom Flanagan »

URL: http://www.walrusmagazine.com/articles/the-man-behind-stephen-harper-tom-flanagan/ This text was captured on Aug 03, 2010 Show All Captures

14 Million Solr docs!

Shine



webarchives.ca



Twitter

twarc

docnow.io

Developers Products Documentation Community Build My apps

Twitter Developer Documentation

Docs / REST APIs / The Search API

Products & Services

Best practices

API overview

Websites

Cards

OAuth

REST APIs

ΔPI Rate Limit

Rate Limits: Chart

The Search API

The Search API: Tweets b Place

Working with Timeline

Collections

Media

Curato

Search

TON

Reference Documentation

The Search API

The Twitter Search API is part of Twitter's REST API. It allows queries against the indices of recent or popular Tweets and behaves similarly to, but not exactly like the Search feature available in Twitter mobile or web clients, such as Twitter.com search. The Twitter Search API searches against a sampling of recent Tweets published in the past 7 days.

Join

Before getting involved, it's important to know that the Search API is focused on relevance and not completeness. This means that some Tweets and users may be missing from search results. If you want to match for completeness you should consider using a Streaming API instead.

A detailed reference on this API endpoint can be found at GET search/tweets.

How to build a query

The best way to build a query and test if it's valid and will return matched Tweets is to first try it at twitter.com/search. As you get a satisfactory result set, the URL loaded in the browser will contain the proper query syntax that can be reused in the API endpoint. Here's an example:

- 1. We want to search for Tweets referencing @twitterapi account. First, we run the search on twitter.com/search
- Check and copy the URL loaded. In this case, we got: https://twitter.com/search?q=%40twitterapi
- Replace "https://twitter.com/search" with "https://api.twitter.com/1.1/search/tweets.json" and you will get: https://api.twitter.com/1.1/search/tweets.json?q=%40twitterapi
- 4. Execute this URL to do the search in the API

Please note that the API requires that the request be authenticated (check Authentication & Authorization documentation for more details on this). Also note that the search results at twitter.com may return historical results, while the Search API usually only serves Tweets from the past week.

Query operators

Developers Products Documentation Community Build My apps

Twitter Developer Documentation

Docs / Streaming APIs

Products & Services

Best practices

API overview

Websites

Cards

DAuth

REST APIS

Streaming APIs

Public streams

User Streams

Connecting

Processing

Reference

Ads API

Snip

MoPu

Fabric

Tools & Support

Streaming APIs

Overview

The Streaming APIs give developers low latency access to Twitter's global stream of Tweet data. A streaming client will be pushed messages indicating Tweets and other events have occurred, without any of the overhead associated with polling a REST endooint.

Join

If your intention is to conduct singular searches, read user profile information, or post Tweets, consider using the REST APIs instead.

Twitter offers several basic streaming endpoints, each customized to certain use cases.

Public streams	Streams of the public data flowing through Twitter. Suitable for following specific users or topics, and data mining.
User streams	Single-user streams, containing roughly all of the data corresponding with a single user's view of Twitter.
Site streams	The multi-user version of user streams. Site streams are intended for servers which must connect to Twitter on behalf of many users. Site Streams is a closed beta. Applications are no longer being accepted.

Access to higher volume, real-time data from Twitter is available commercially via Gnip.

Differences between Streaming and REST

Connecting to the streaming API requires keeping a persistent HTTP connection open. In many cases this involves thinking about your application differently than if you were interacting with the REST API. For an example, consider a web

```
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#elxn42



Process and Structure

Code4Lib



Issue 32, 2016-04-25

Search

Current Issue

Issue 32, 2016-04-25

Previous Issues

Issue 31, 2016-01-28 Issue 30, 2015-10-15 Issue 29, 2015-07-15 Issue 28, 2015-04-15 Older Issues

For Authors

Call for Submissions Article Guidelines

An Open-Source Strategy for Documenting Events: The Case Study of the 42nd Canadian Federal Election on Twitter

This article examines the tools, approaches, collaboration, and findings of the Web Archives for Historical Research Group around the capture and analysis of about 4 million tweets during the 2015 Canadian Federal Election. We hope that national libraries and other heritage institutions will find our model useful as they consider how to capture, preserve, and analyze ongoing events using Twitter.

While Twitter is not a representative sample of broader society – Pew research shows in their study of US users that it skews young, college-educated, and affluent (above \$50,000 household income) – Twitter still represents an exponential increase in the amount of information generated, retained, and preserved from 'everyday' people. Therefore, when historians study the 2015 federal election, Twitter will be a prime

On August 3, 2015, the team initiated both a Search API and Stream API collection with twarc, a tool developed by Ed Summers, using the hashtag #elxn42. The hashtag referred to the election being Canada's 42nd general federal election (hence 'election 42' or elxn42). Data collection ceased on November 5, 2015, the day after Justin Trudeau was swom in as the 42nd Prime Minister of Canada. We collected for a total of 102 days, 13 hours and 50 minutes.

To analyze the data set, we took advantage of a number of command line tools, utilities that are available within tware, tware-report, and jq. In accordance with the Twitter Developer Agreement & Policy, and after ethical deliberations discussed below, we made the tweet IDs and other derivative data available in a data repository. This allows other people to use our dataset, cite our dataset, and enhance their own research projects by drawing on #elxn42 tweets.

Our analytics included:

- breaking tweet text down by day to track change over time;
- client analysis, allowing us to see how the scale of mobile devices affected medium interactions;
- URL analysis, comparing both to Archive-It collections and the Wayback Availability API to add to our understanding of crawl completeness;
- and image analysis, using an archive of extracted images.

Our article introduces our collecting work, ethical considerations, the analysis we have done, and provides a framework for other collecting institutions to do similar work with our off-the-shelf open-source tools. We conclude by ruminating about connecting Twitter archiving with a broader web archiving strategy.

by Nick Ruest and Ian Milligan

Introduction

During the 2015 Canadian federal elections, we captured 3,918,932 tweets written using the #elxn42 hashtag: thoughts on the nature and stature of political candidates or parties, live running commentary during leader debates, exhortations to vote, and witty ripostes or jokes to liven up the long campaign. Political scientists, journalists, and other researchers can use these tweets as evidence of sentiment amongst a

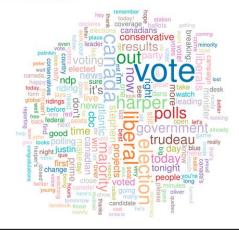
October 17, 2015



October 18, 2015



October 19, 2015

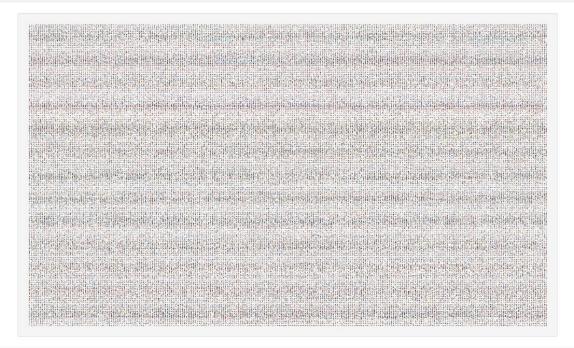


October 20, 2015



1,203,867 #elxn42 images

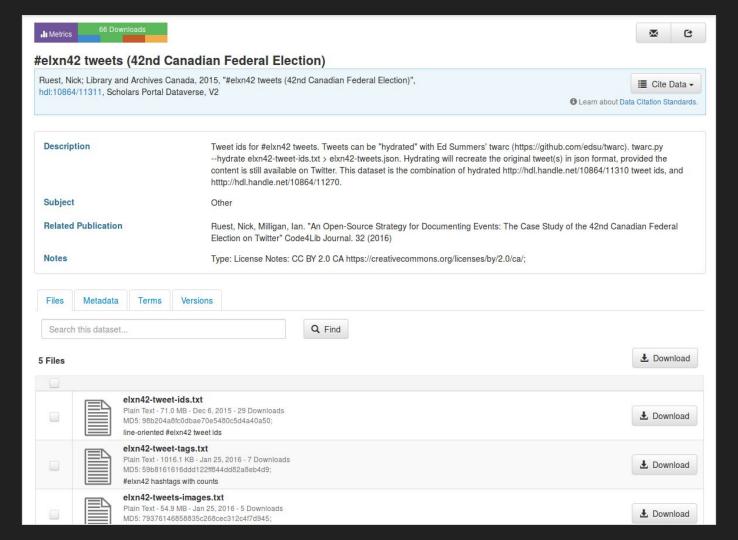
Dataset is available here. | Original 32G png available here. | Tiled with deepzoom.py.





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Nick Ruest, Web Archives for Historical Research





Collections / Web Archives for Historical Research / #elxn42 / #elxn42 web crawl

#elxn42 web crawl

Description

Consists of a web crawl of unique URLs tweeted with the #elxn42 hashtag, #elxn42 collection took place from August 3, 2015 - November 5, 2015. Unique URLs were extracted from the dataset, and harvested with Heritrix on January 29, 2016 -February 8, 2016.

Download

- warc: #elxn42 web crawl.gz
- cdx: #elxn42 web crawl.cdx
- wat: #elxn42 web crawl.wat.gz
- Seed list: #elxn42 web crawl.txt
- Heritrix configuration: crawler-beans.cxml

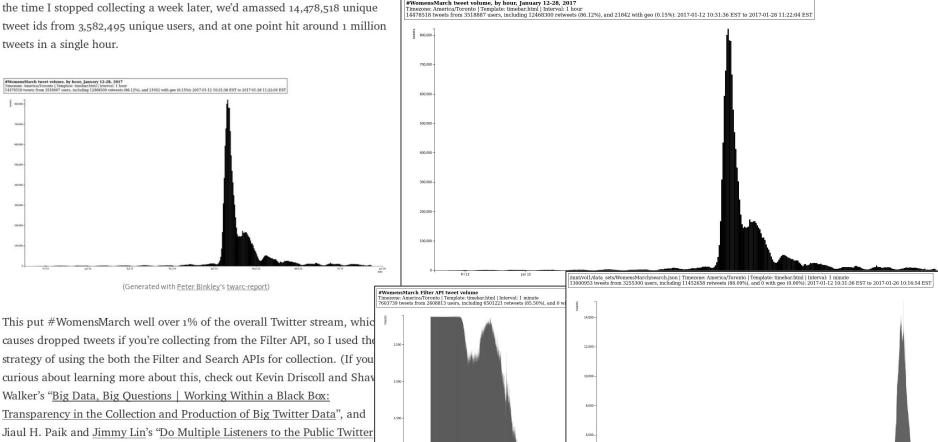
In collections

#elxn42

Details

Title:	#elxn42 web crawl
Creator(s):	Nick Ruest
Note:	Tweet ids: http://hdl.handle.net/10864/11311
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Identifier (md5):	63d707352a6fb45a62889c448154610f
Type:	Website
Subject(s):	#elxn42
	Canadian federal election, 2015
	Canadian politics
	Federal politics
	Canada
Date captured:	2016-01-29
Size:	13GB
File size:	12972947583
PUID:	x-fmt/266
Funding	This research was supported by a research grant 435-2015-0011 issued by Social
	Sciences and Humanities Research Council.
Rights:	Use of this resource is governed by the terms and conditions of the Creative Common
	"Attribution" License (http://creativecommons.org/licenses/by/2.0/)

#WomensMarch



Transparency in the Collection and Production of Big Twitter Data", and Jiaul H. Paik and Jimmy Lin's "Do Multiple Listeners to the Public Twitter Sample Stream Receive the Same Tweets?). I've included the search and filter logs in the dataset. If you grep "WARNING" WomensMarch_filter.log grep "WARNING" WomensMarch_filter.log | wc -1 you'll get a sense of the scale of dropped tweets. For a number of hours on January 22, I was seein around 1.6 million cumulative dropped tweets!

Collections / Web Archives for Historical Research / #WomensMarch / #WomensMarch crawl; January 29-February 25, 2017

#WomensMarch crawl; January 29-February 25, 2017

Description

Consists of a web crawl of unique URLs tweeted with the #WomensMarch hashtag. #WomensMarch collection took place from January 21-28, 2017. Unique URLs were extracted from the dataset, and harvested with Heritrix on January 29-February 25, 2017.

In collections

• #WomensMarch

Details

Title:	#WomensMarch crawl; January 29-February 25, 2017
Creator:	Nick Ruest
Note:	Tweet lds: http://dx.doi.org/10.5683/SP/ZEL1Q6
Identifier (local):	WEB-20170225184434201-00029-22858~rho.library.yorku.ca~9191-WomensMarch
Identifier (md5):	7d44ff2511a460d72dd34cfce414cecd
Type:	Website
Subject(s):	#WomensMarch politics
	activism
Date captured:	2017-01-29
File size:	89885679831
Funding	This research was supported by a research grant 435-2015-0011 issued by Social Sciences and Humanities Research Council.
Rights:	Use of this resource is governed by the terms and conditions of the Creative Common "Attribution" License (http://creativecommons.org/licenses/by/2.0/)

527303/527350 submitted to Internet Archive 527304/527350 submitted to Internet Archive 527305/527350 submitted to Internet Archive 527306/527350 submitted to Internet Archive 527307/527350 submitted to Internet Archive 527308/527350 submitted to Internet Archive 527309/527350 submitted to Internet Archive 527310/527350 submitted to Internet Archive 527311/527350 submitted to Internet Archive 527312/527350 submitted to Internet Archive 527313/527350 submitted to Internet Archive 527314/527350 submitted to Internet Archive 527315/527350 submitted to Internet Archive 527316/527350 submitted to Internet Archive 527317/527350 submitted to Internet Archive 527318/527350 submitted to Internet Archive 527319/527350 submitted to Internet Archive 527320/527350 submitted to Internet Archive 527321/527350 submitted to Internet Archive 527322/527350 submitted to Internet Archive 527323/527350 submitted to Internet Archive 527324/527350 submitted to Internet Archive 527325/527350 submitted to Internet Archive 527326/527350 submitted to Internet Archive 527327/527350 submitted to Internet Archive 527328/527350 submitted to Internet Archive 527329/527350 submitted to Internet Archive 527330/527350 submitted to Internet Archive 527331/527350 submitted to Internet Archive 527332/527350 submitted to Internet Archive 527333/527350 submitted to Internet Archive 527334/527350 submitted to Internet Archive 527335/527350 submitted to Internet Archive 527336/527350 submitted to Internet Archive 527337/527350 submitted to Internet Archive 527338/527350 submitted to Internet Archive 527339/527350 submitted to Internet Archive 527340/527350 submitted to Internet Archive 527341/527350 submitted to Internet Archive 527342/527350 submitted to Internet Archive 527343/527350 submitted to Internet Archive 527344/527350 submitted to Internet Archive 527345/527350 submitted to Internet Archive 527346/527350 submitted to Internet Archive 527347/527350 submitted to Internet Archive 527348/527350 submitted to Internet Archive 527349/527350 submitted to Internet Archive 527350/527350 submitted to Internet Archive

Tweet ID Datasets

Twitter's <u>terms of service</u> don't allow tweet datasets to be published on the web, but they do allow tweet identifier datasets to be shared. This speaks to content creators' right to be forgotten, while also allowing researchers to share their data with others.

This site is a catalog of datasets that are publicly available on the web. If you would like to turn these tweet identifier datasets back into the original JSON first download the dataset and then use the <u>Hydrator</u> desktop application, or Twarc if you are comfortable working at the command line.

You can add your own datasets to the catalog by following these instructions. If you'd like updates when datasets are added please subscribe to the RSS feed.

Women's March Tweet Ids

Creator: Justin Littman, Soomin Park

Tweets: 7,275,228 Published: 2017-02-03

Date Coverage: 2016-12-19 - 2017-01-23 Tags: WomensMarch, activism, politics

Description

This a future of collection development

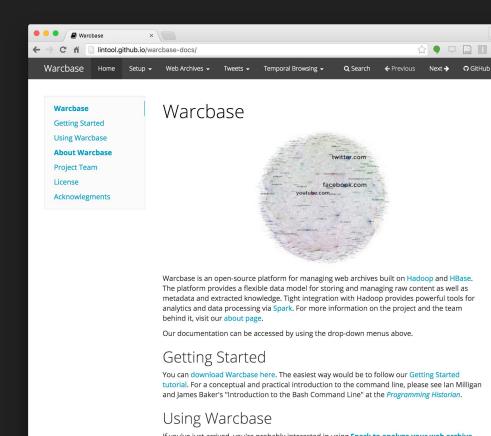
Institutional Collecting & Research Data

Warcbase

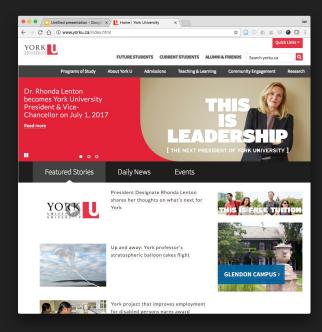
(Or, how can we work with web archives at scale?)

Warcbase

- Jimmy Lin (main developer, CS/lead), Ian Milligan (co-lead, history), Jeremy Wiebe (history/PhD), Alice Zhou (computer science, undergrad), Youngbin Kim (computer science, undergrad), Nick Ruest (librarian)
- Currently using it on the GeoCities and Canadian Politics web archives



Why Warcbase



WARC file WARC record HTML Text header **JPG** Content block [image/jpeg binary data] DOC WARC/1.0 WARC-Type: resource **WPS** WARC-Target-URI: file://var/www/htdoc/images/logoc.jpg WARC-Date: 2006-09-19T17:20:24Z WARC-Record-ID: <urn:uuid:92283950-ef2f-4d72-b224-f54c6ec90bb0> Content-Type: image/jpeg WARC-Payload-Digest: sha1:CCHXETFVJD2MUZY6ND6SS7ZENMWF7KQ2 WARC-Block-Digest: sha1:CCHXETFVJD2MUZY6ND6SS7ZENMWF7KQ2 Content-Length: 1662 **PDF**

...etc.

Warcbase (warcbase.org)

Two main facets

- A flexible data store: your own Wayback Machine
- Scriptable analytics and data processing

Funded by Mellon, SSHRC, NSERC, and Government of Ontario.



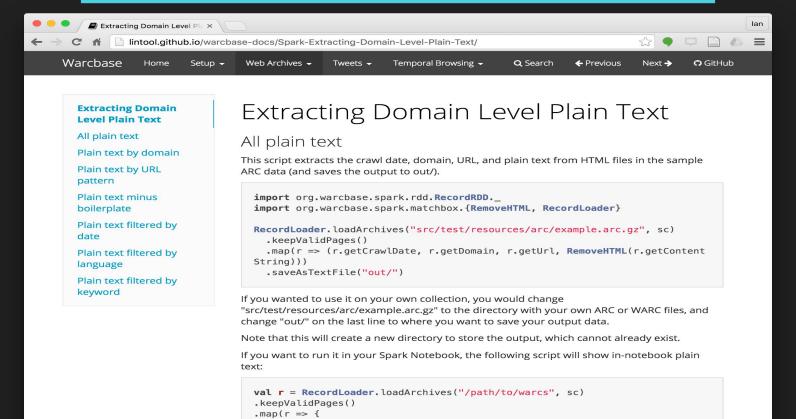
Warcbase

- Scalable
 - From Raspberry Pi to Desktop
 Computer to Server to Cluster, all with
 same scripts and commands
- Potentially very powerful
 - Trantor: 1.2PB of disk, 25 compute nodes (each w/ 128GB memory, 2×6-core Intel Xeon E5 v3 = 3.2TB memory and 300 current-generation Intel cores)
- In active development, led by Jimmy Lin, collaborator at the University of Waterloo



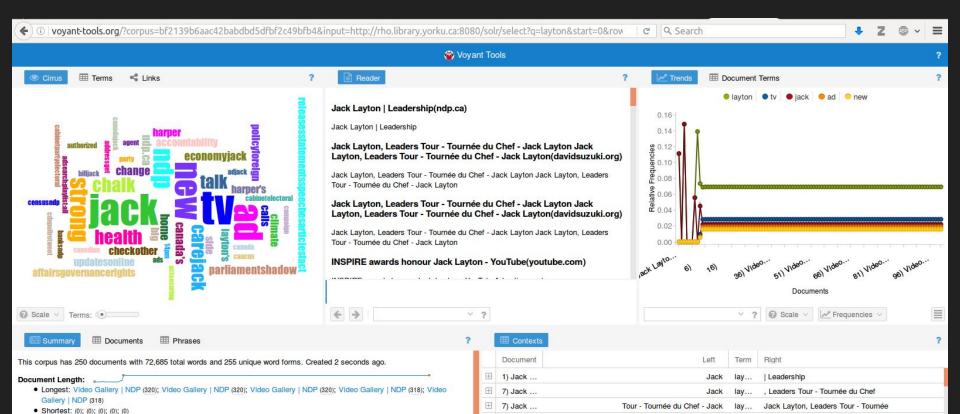


docs.warcbase.org



Extract all Text

Extract all Text



Extract Entities

200606 200607 200608 200609 200610 200611 Andrew Lewis Adrianne Carr Adrianne Carr Adrianne Carr Ambrose Ambrose Amélie Gingras Andrew Lewis Andrew Lewis Andrew Lewis Allan Gribbin Bill Hulet Brown Amélie Gingras Bill Bill Clinton Brown Bruce Abel **Bridget Doherty** Bill Hulet Andrew Lewis Bush Bush Bruce Abel Bush Brown Bill Chandler Carol Gudz Bush Cherfi Bill Hulet Cameron Wigmore Catharine Johannson Bruce Abel Camille Labchuk Brown Chandler Chernushenko Chandler Bush Chandler Chris Alders Cherfi Bruce Abel Cherfi Camille Labchuk Daphne Wysham Cherfi Chernushenko Chernushenko Chandler Bush David Chernushenko Daphne Wysham Chretien Chandler David Chernushenko David Cherfi David David Cherfi David Chernushenko **David Cox** David Chernsuhenko Chernushenko David Chernushenko Chernushenko David Kay David David Kay David Kay Derek koDavid Chernushenko Clements Verhoeven David Suzuki David Chernsuhenko Derek Pinto Derek Pinto David Chernushenko David Chernushenko David Derek Dundas David Kay Derek Pinto Dietrich Dundas Derek Pinto Elizabeth Dion Ed Broadbent Flizabeth Edward Burtynsky David Kay David Kav Elizabeth Goes Elizabeth May Elizabeth May Derek Pinto Derek Pinto Elizabeth May Elizabeth Eric Walton Elizabeth May Say Elizabeth May Dietrich Elizabeth Peloza Dietrich Fannon Elizabeth May Eric Walton Ed Broadbent Eric Walton Ed Broadbent Gomery 10 mentions Gagnon Eric Walton Gomery Elizabeth May Elizabeth May Gomery Green Garth Turner Eric Walton Green Green Gomery Harper Eric Walton Fannon Grenon Green Harper Fannon Harris Gomerv Halton Halton Gomery Harper Harris Jim Green Harris Harper Green Jim Fannon Jasper Harper Jim Harris Jim Jim Harris Harper Harris Jim Harris Jim Harris Jim Jim Harris Speech Harris John Jim Harris .lohn Jim Harris Speech Jim Jude Larkin Jim Harris Speech Julie Baribeau Jim John Judith John Junker Jim Harris Labchuk Kyle Grice Jim Fannon Julie Baribeau Kevin Colton Lougheed Labchuk Labchuk Labchuk Jim Harris Speech Jim Harris Manley Mackenzie Manley Lavton John Mark MacGillivray Manley Leonardo DiCaprio Jim Harris Speech Margaret Martin Junker Martin Manley John Kevin Colton May Mark MacGillivray Mark Brooks May Julie Baribeau Kootenay-Columbia Jo... Melanie Ransom Mark MacGillivray Martin Junker Mona Elaine Adilman ... Michael Grayson Labchuk Martin May Kevin Colton Michele Paul Martin Lawrence Redfern Paul Michael Robinson Paul Martin Labchuk Peter Foster

Layton

Manley

Lavton

Manlay

Milliken

Paul Martin

Paul Martin

Ross

Sharon Labchuk

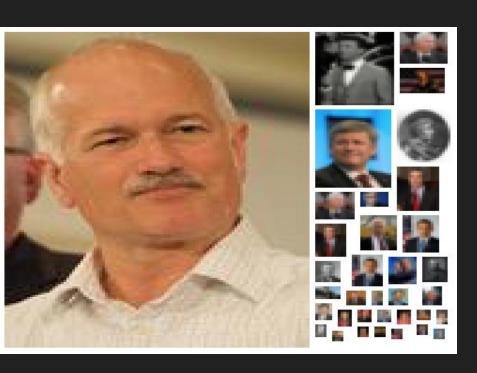
Richard Reble

Sharon Labchuk

Pierre Pettigrew

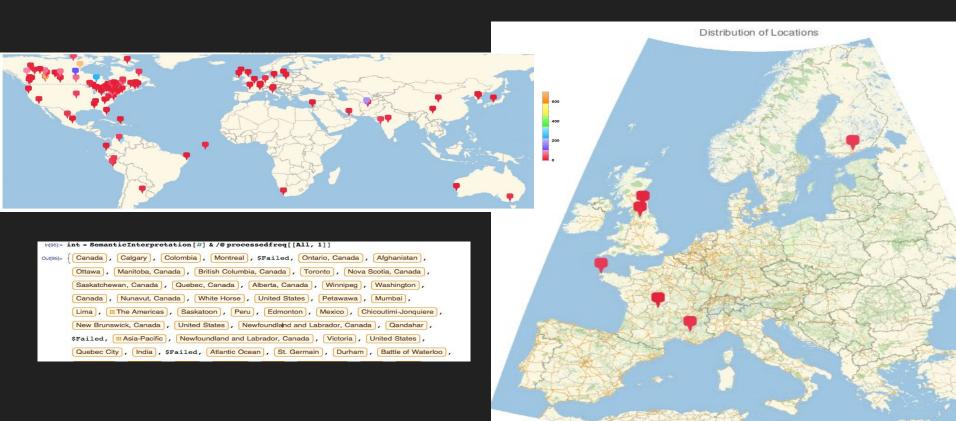
Schiller

Extract Entities





Extract Entities



And a move away from content and towards structured metadata...

An Example

To: Tony Smith < tsmith@yorku.ca >

From: Ian Milligan

(i2millig@uwaterloo.ca)

Re: Lunch

Date: 6 March @ 1034 GMT

Hi Tony -

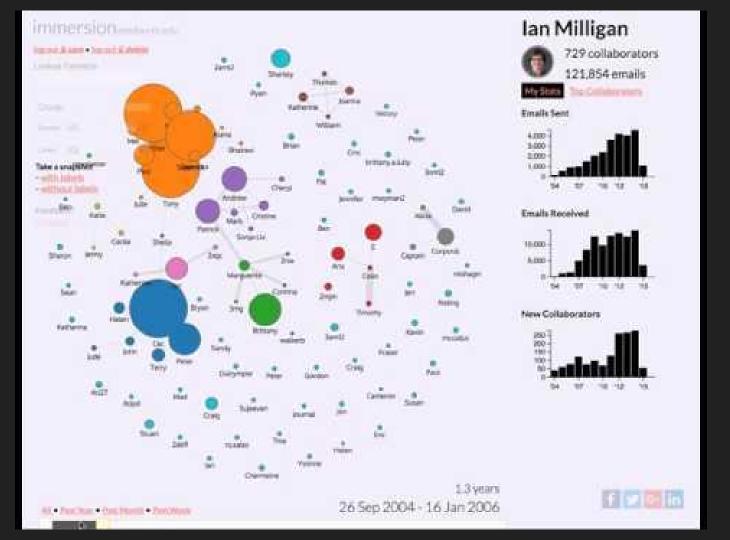
See you after class?

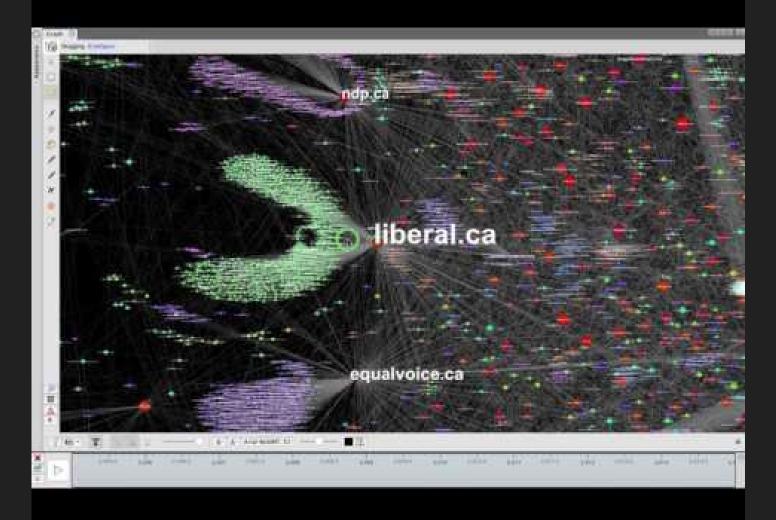
Ian



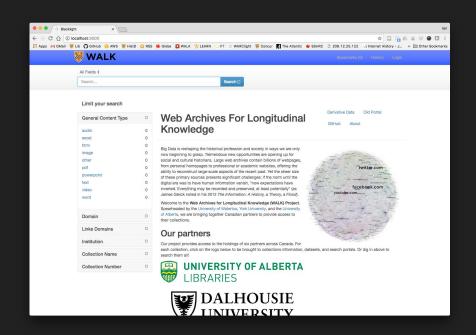
Tells you little!

But what if I emailed him every Monday? Or Friday? Or every day?





... and we can create indexes to provide search access to collections.



So we have this tool... how have we used it?

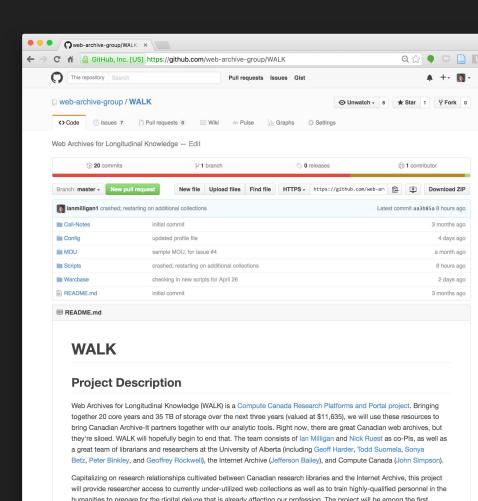
WALK Project

Web Archives for Longitudinal Knowledge

WALK

Web Archives for Longitudinal Knowledge (WALK)

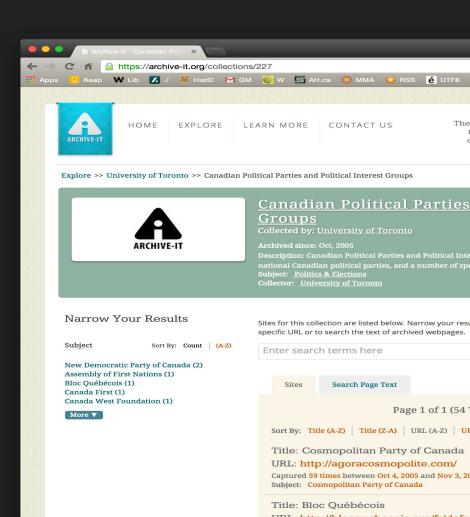
Ian Milligan (Co-PI, UW) + Nick Ruest (Co-PI, York), w/ Geoff Harder, Todd Suomela, Sonya Betz, Peter Binkley, Geoffrey Rockwell (Alberta), Jefferson Bailey (Internet Archive), and John Simpson (Compute Canada).



WALK

Currently ~ 25 Canadian partners who collect web archives, ~ 130 collections.

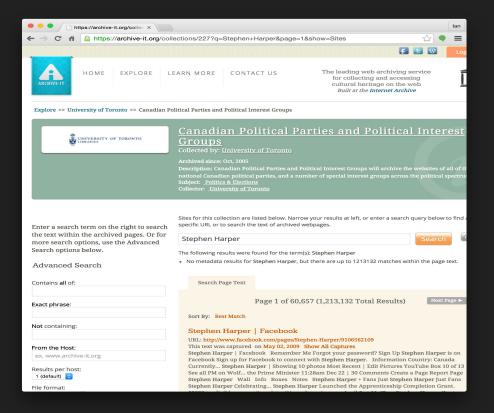
Archive-It is the back-end provider of web archiving services.



WALK

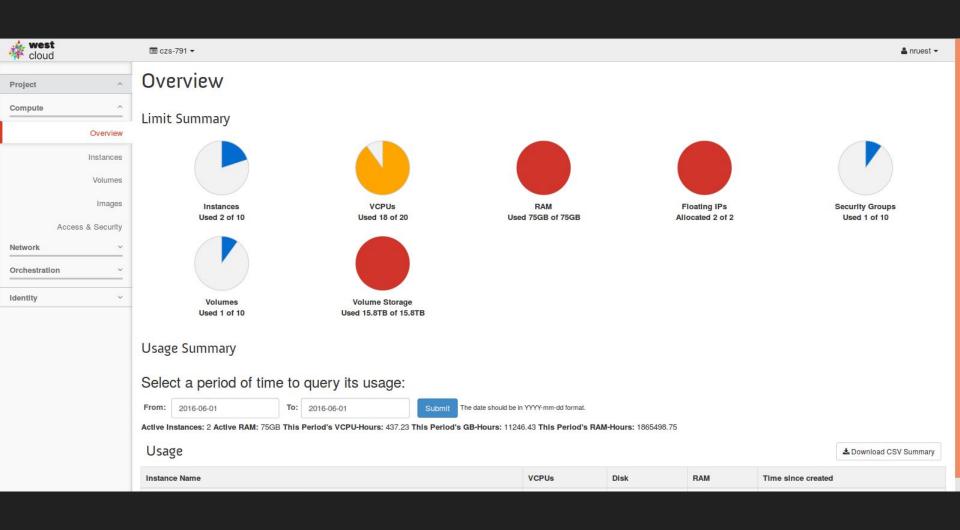
Current interfaces are **very limited** - simple search engine,
some advanced options, no
facets

Great collections, but nobody uses them.



How could we build better access?

Preparing our dataset!



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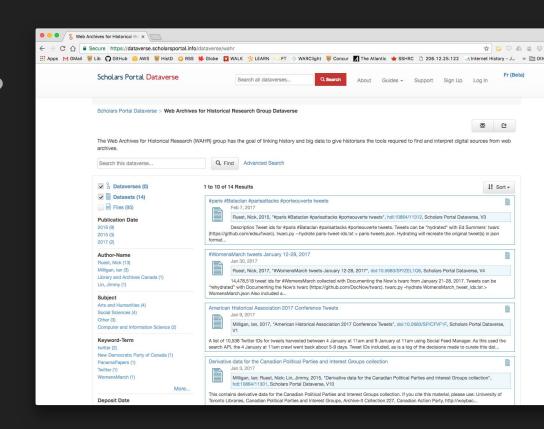
Public Access

Providing Access to Derivative Datasets

Want to do network diagrams like lan showed? All collections have data.

List of URLs, domains

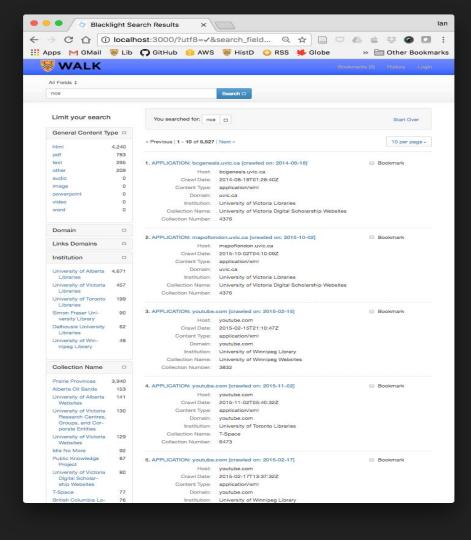
(As well as social media data, etc.)



Shine Blacklight

WebArchives.ca

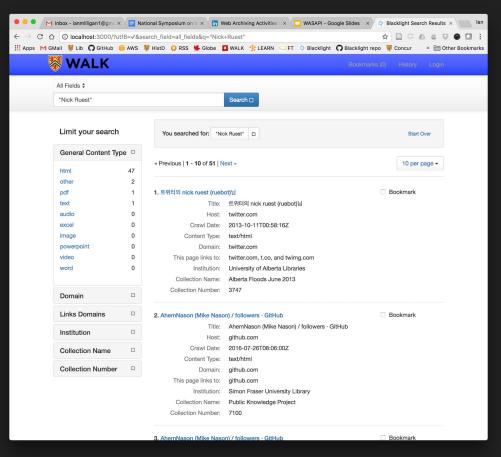
- Warcbase with a GUI front end
- Archivists/Librarians bring their collections, generate derivatives
- Hosted with Compute Canada



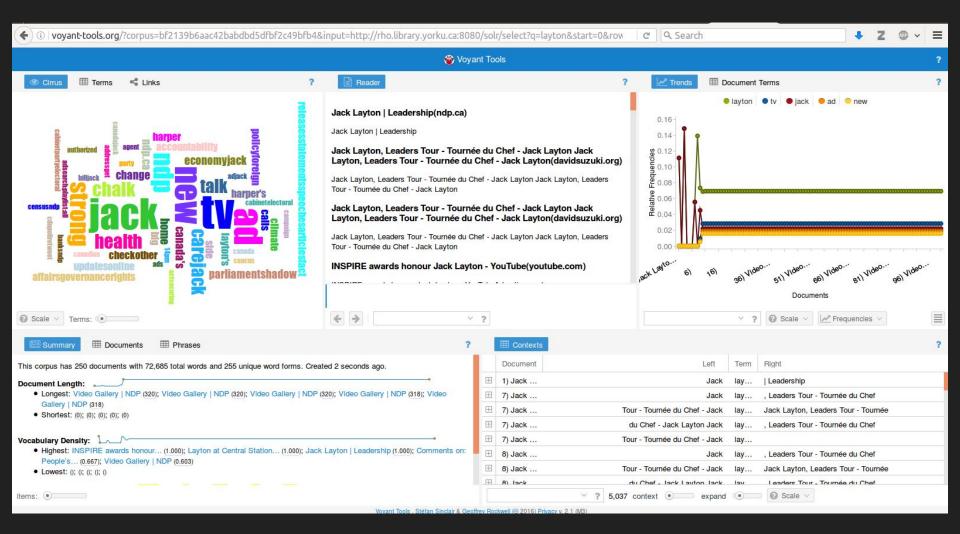
14 Million Solr docs! 100+ Million Solr docs!

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         HTMLAnalyzer.analyze#total(#=2117195, time=9261702.09ms, avg=0.23#/ms 4.37ms/#, 6.48%)
           HTMLAnalyzer.analyze#parser(#=2117195, time=5677872.72ms, avg=0.37#/ms 2.68ms/#, 3.97%)
             HtmlFeatureParser.parse#isoupparse(#=2117195, time=3893471.84ms, avg=0.54#/ms 1.84ms/#, 2.73%)
             HtmlFeatureParser.parse#featureextract(#=2117195, time=1214905.31ms, avg=1.74#/ms 0.57ms/#, 0.85%)
         PDFAnalyzer.analyze(#=32238, time=6778115.05ms, avg=0.00#/ms 210.25ms/#, 4.74%)
     WARCIndexer.extract#archeaders(#=5451459, time=799793.76ms, avg=6.82#/ms 0.15ms/#, 0.56%)
SolrRecord.removeControlCharacters#total(#=407986927, time=2037130.28ms, avg=200.28#/ms 0.00ms/#, 1.43%)
 SolrRecord.sanitiseUTF8(#=407986927, time=490146.14ms, avg=832.38#/ms 0.00ms/#, 0.34%)
Parsing Archive File [472/2771]:/data/ALBERTA university of alberta websites/ARCHIVEIT-1830-NONE-CHONHO-20111006081145-00043-crawling205.us.archive.org-6681.warc.gz
2017-03-01 20:03:23 INFO Instrument:155 - Performance statistics
WARCIndexerCommand.main#total(#=0, time=0.00ms, avg=0.00#/ms 0.00ms/#, 0.00%)
 WARCIndexerCommand.parseWarcFiles#docdeliverv(#=4030803. time=2618673.42ms. avg=1.54#/ms 0.65ms/#. 1.83%)
   WARCIndexerCommanc.checkSubmission#solradd(#=80616. time=2610861.06ms. avg=0.03#/ms 32.39ms/#. 1.83%)
 WARCIndexerCommand.parseWarcFiles#startup(#=1. time=6455.69ms, avg=0.00#/ms 6455.69ms/#. 0.00%)
 WARCIndexerCommand.commit#success(#=472. time=51991586.32ms. avg=0.00#/ms 110151.67ms/#. 36.36%)
 WARCIndexerCommand.parseWarcFiles#fullarcprocess(#=472, time=36609191462.20ms, avg=0.00#/ms 77561846.32ms/#, 25601.30%)
 WARCIndexerCommand.parseWarcFiles#solrdocCreation(#=16369360, time=87411850.72ms, avg=0.19#/ms 5.34ms/#, 61.13%)
   WARCIndexer.extract#total(#=2298509, time=83285434.98ms, avg=0.03#/ms 36.23ms/#, 58.24%)
     TextAnalyzers#total(#=2298509, time=10540192.01ms, avg=0.22#/ms 4.59ms/#, 7.37%)
       PostcodeAnalyzer(#=2146519, time=164817.71ms, avg=13.02#/ms 0.08ms/#, 0.12%)
         LanguageDetector#startup(#=1, time=549.77ms, avg=0.00#/ms 549.77ms/#, 0.00%)
         LanguageDetector.detectLanguage#li(#=2146519. time=3707193.74ms. avg=0.58#/ms 1.73ms/#. 2.59%)
           LanguageIdentifier.addProfile(#=28, time=31.26ms, avg=0.90#/ms 1.12ms/#, 0.00%)
           LanguageIdentifier#matchlanguageprofile(#=2146519. time=3197698.23ms. avg=0.67#/ms 1.49ms/#. 2.24%)
             LanguageProfile.distanceInterleaved#total(#=60102532. time=3182638.22ms. avg=18.88#/ms 0.05ms/#. 2.23%)
               LanguageProfile.Interleaved.update(#=2146547. time=376252.70ms. avg=5.71#/ms 0.18ms/#. 0.26%)
               LanguageProfile.distanceInterleaved#dist(#=60102532, time=2777574.28ms, avg=21.64#/ms 0.05ms/#, 1.94%)
           LanguageProfile#profilewriter(#=2146519, time=506060.30ms, avg=4.24#/ms 0.24ms/#, 0.35%)
         LanguageDetector.detectLanguage#ld(#=2146433, time=5681938.01ms, avg=0.38#/ms 2.65ms/#, 3.97%)
       FuzzyHashAnalyzer(#=2146519, time=967674.67ms, avg=2.22#/ms 0.45ms/#, 0.68%)
     WARCIndexer.extract#analvzetikainput(#=2298509. time=62443631.77ms. avg=0.04#/ms 27.17ms/#. 43.67%)
       WARCPayloadAnalyzers.analyze#total(#=2298509. time=62439400.21ms. avg=0.04#/ms 27.17ms/#. 43.66%)
         WARCPavloadAnalvzers.analvze#firstbvtes(#=2298509. time=25330.01ms. avg=90.74#/ms 0.01ms/#. 0.02%)
         ARCNameAnalyzer.analyze(#=2298509. time=14759.56ms, avg=155.73#/ms 0.01ms/#. 0.01%)
         XMLAnalyzer.analyze(#=1712, time=1544.68ms, avg=1.11#/ms 0.90ms/#, 0.00%)
         WARCPavloadAnalyzers.analyze#arcname(#=2298509, time=16265.12ms, avg=141.32#/ms 0.01ms/#, 0.01%)
           TikaExtractor.extract#detect(#=2298509, time=2543915.37ms, avg=0.90#/ms 1.11ms/#, 1.78%)
           TikaExtractor.extract#extract(#=2292139, time=960426.89ms, avg=2.39#/ms 0.42ms/#, 0.67%)
         WARCPayloadAnalyzers.analyze#droid(#=2298509, time=22554143.16ms, avg=0.10#/ms 9.81ms/#, 15.77%)
           HTMLAnalyzer.analyze#parser(#=2117238, time=5677980.36ms, avg=0.37#/ms 2.68ms/#, 3.97%)
             HtmlFeatureParser.parse#jsoupparse(#=2117238, time=3893538.63ms, avg=0.54#/ms 1.84ms/#, 2.72%)
             HtmlFeatureParser.parse#featureextract(#=2117238, time=1214933.36ms, avg=1.74#/ms 0.57ms/#, 0.85%)
         PDFAnalyzer.analyze(#=32241. time=6779827.99ms. avg=0.00#/ms 210.29ms/#. 4.74%)
     WARCIndexer.extract#archeaders(#=5452077, time=799933.68ms, avg=6.82#/ms 0.15ms/#, 0.56%)
SolrRecord.removeControlCharacters#total(#=408023959, time=2037350.77ms, avg=200.27#/ms 0.00ms/#, 1.42%)
 SolrRecord.sanitiseUTF8(#=408023959, time=490191.93ms, avg=832.38#/ms 0.00ms/#, 0.34%)
```

WARClight prototype



Finding famous people in WARClight, by Ian Milligan

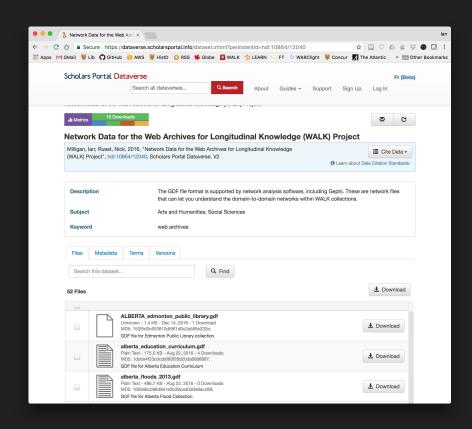


warcbase

Again :-)

WALK

- Mass Ingest Script to take each collection and:
 - Extract hyperlinks and generate gephi files;
 - Extract all URLs and domain counts;
 - Extract plain text;



Links!

- https://uwaterloo.ca/web-archive-group/
- https://github.com/web-archive-group/
- https://github.com/ianmilligan1/
- https://github.com/ruebot
- http://dataverse.scholarsportal.info/dvn/dv/wahr

Contact

Nick Ruest: @ruebot ruestn@yorku.ca lan Milligan: @ianmilligan1 i2milligan@uwaterloo.ca



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Thanks very much!