Enabling Access to Old Wu-Tang Clan Fan Sites

Facilitating Interdisciplinary Web Archive Collaboration

UNIVERSITY OF WATERLOO

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

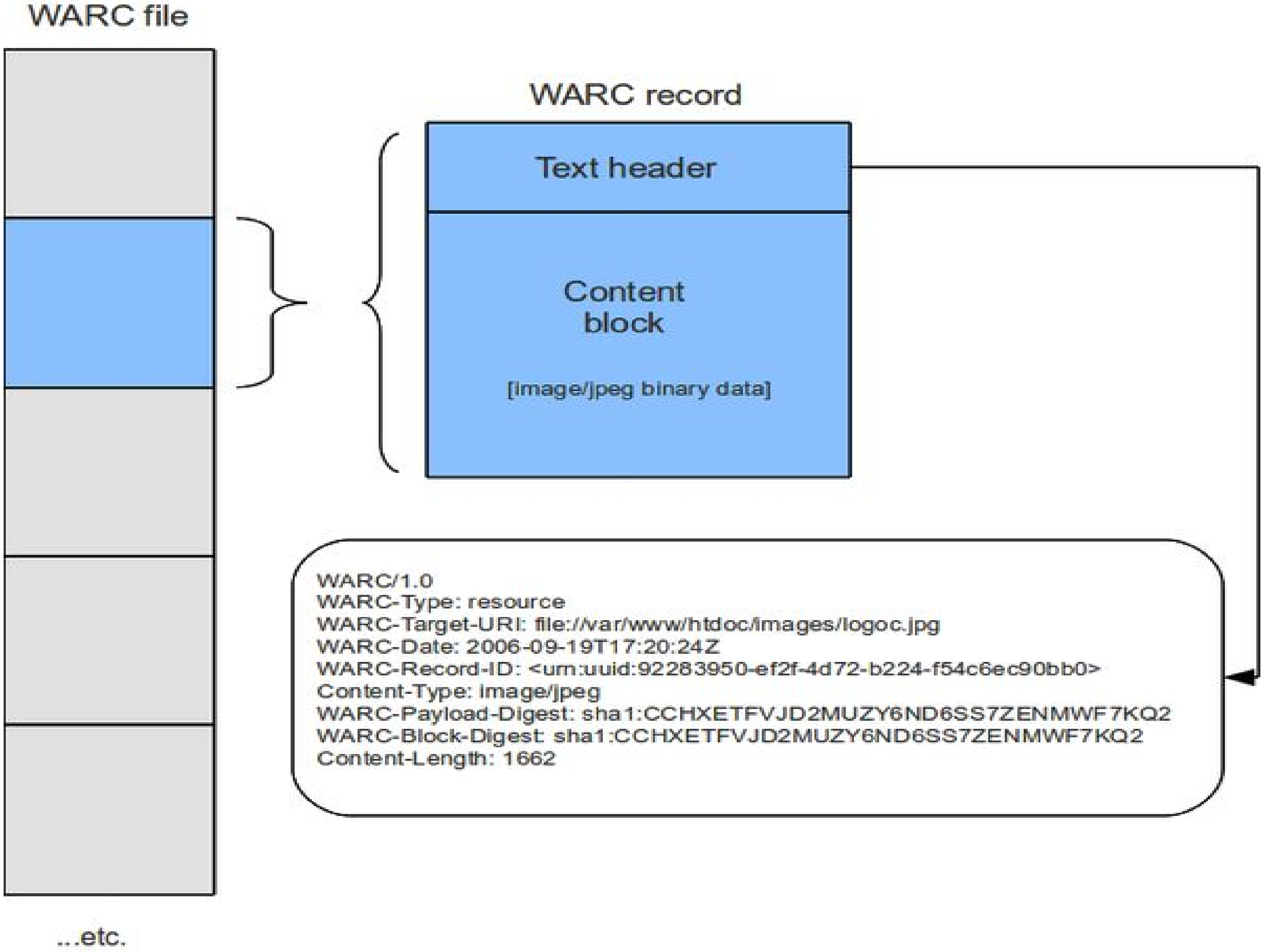
YORK UNIVERSITÉ UNIVERSITY

Why should we even care about web archives?

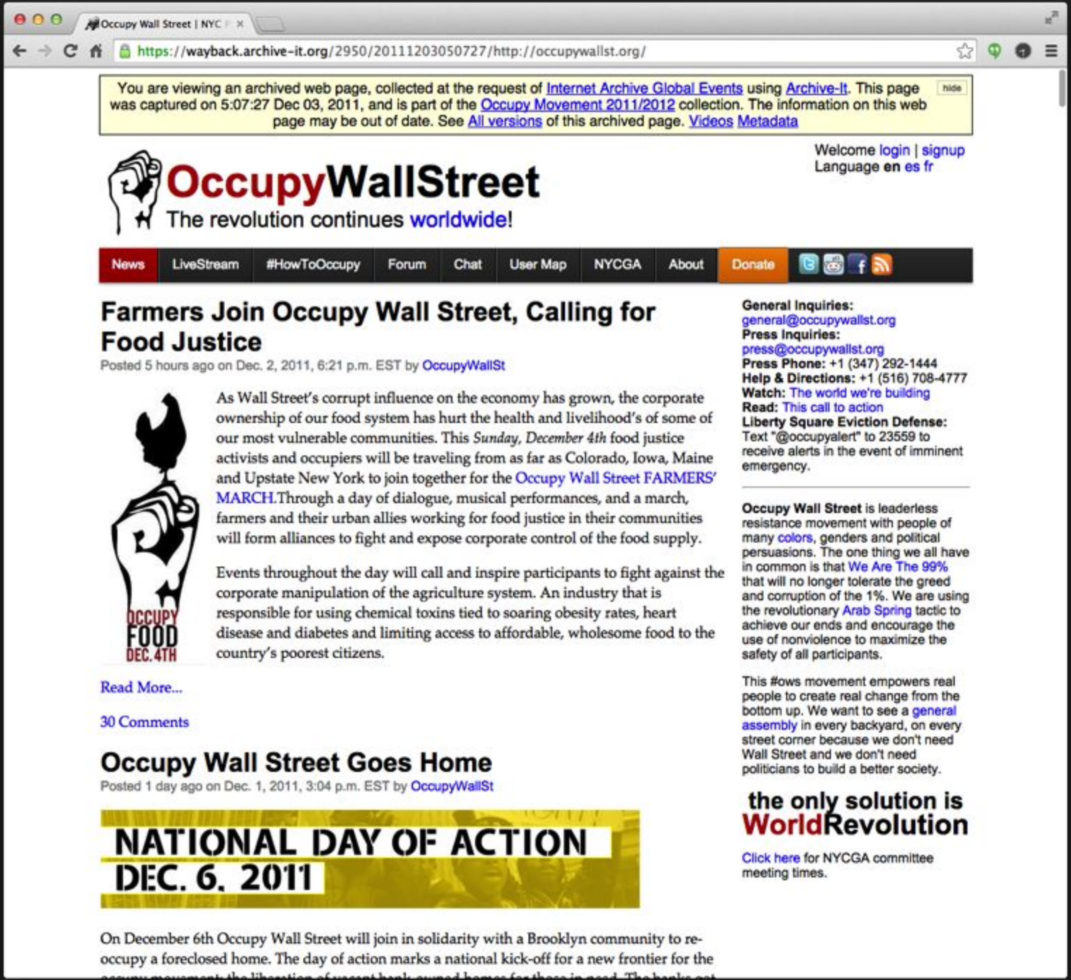
First, more data than ever before is being preserved...

Second, it’ll be saved and delivered to us in very different ways

WARC (ISO 28500:2009)



```
WARC/1.0
WARC-Type: resource
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
```



Occupy Wall Street | NYC
https://wayback.archive-it.org/2950/20111203050727/http://occupywallst.org/

You are viewing an archived web page, collected at the request of Internet Archive Global Events using Archive-It. This page was captured on 5:07:27 Dec 03, 2011, and is part of the Occupy Movement 2011/2012 collection. The information on this web page may be out of date. See All versions of this archived page. Videos Metadata

Welcome login | signup
Language en es fr

OccupyWallStreet
The revolution continues worldwide!

Farmers Join Occupy Wall Street, Calling for Food Justice

Posted 5 hours ago on Dec. 2, 2011, 6:21 p.m. EST by OccupyWallSt

As Wall Street's corrupt influence on the economy has grown, the corporate ownership of our food system has hurt the health and livelihood's of some of our most vulnerable communities. This *Sunday, December 4th* food justice activists and occupiers will be traveling from as far as Colorado, Iowa, Maine and Upstate New York to join together for the Occupy Wall Street FARMERS' MARCH.Through a day of dialogue, musical performances, and a march, farmers and their urban allies working for food justice in their communities will form alliances to fight and expose corporate control of the food supply.

Events throughout the day will call and inspire participants to fight against the corporate manipulation of the agriculture system. An industry that is responsible for using chemical toxins tied to soaring obesity rates, heart disease and diabetes and limiting access to affordable, wholesome food to the country's poorest citizens.

Read More...

30 Comments

Occupy Wall Street Goes Home

Posted 1 day ago on Dec. 1, 2011, 3:04 p.m. EST by OccupyWallSt

On December 6th Occupy Wall Street will join in solidarity with a Brooklyn community to re-occupy a foreclosed home. The day of action marks a national kick-off for a new frontier for the

General Inquiries:
general@occupywallst.org
Press Inquiries:
press@occupywallst.org
Press Phone: +1 (347) 292-1444
Help & Directions: +1 (516) 708-4777
Watch: The world we're building
Read: This call to action
Liberty Square Eviction Defense:
Text "@occupyalert" to 23559 to receive alerts in the event of imminent emergency.

Occupy Wall Street is leaderless resistance movement with people of many colors, genders and political persuasions. The one thing we all have in common is that We Are The 99% that will no longer tolerate the greed and corruption of the 1%. We are using the revolutionary Arab Spring tactic to achieve our ends and encourage the use of nonviolence to maximize the safety of all participants.

This #ows movement empowers real people to create real change from the bottom up. We want to see a general assembly in every backyard, on every street corner because we don't need Wall Street and we don't need politicians to build a better society.

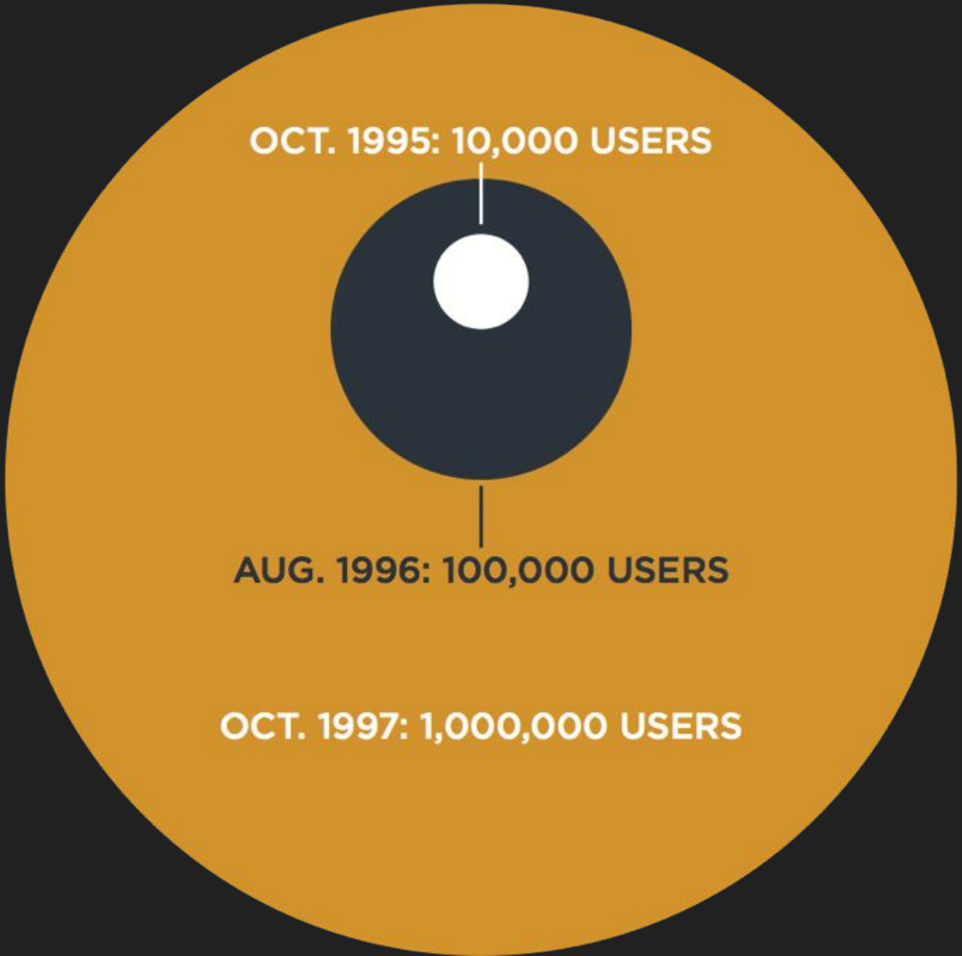
the only solution is WorldRevolution

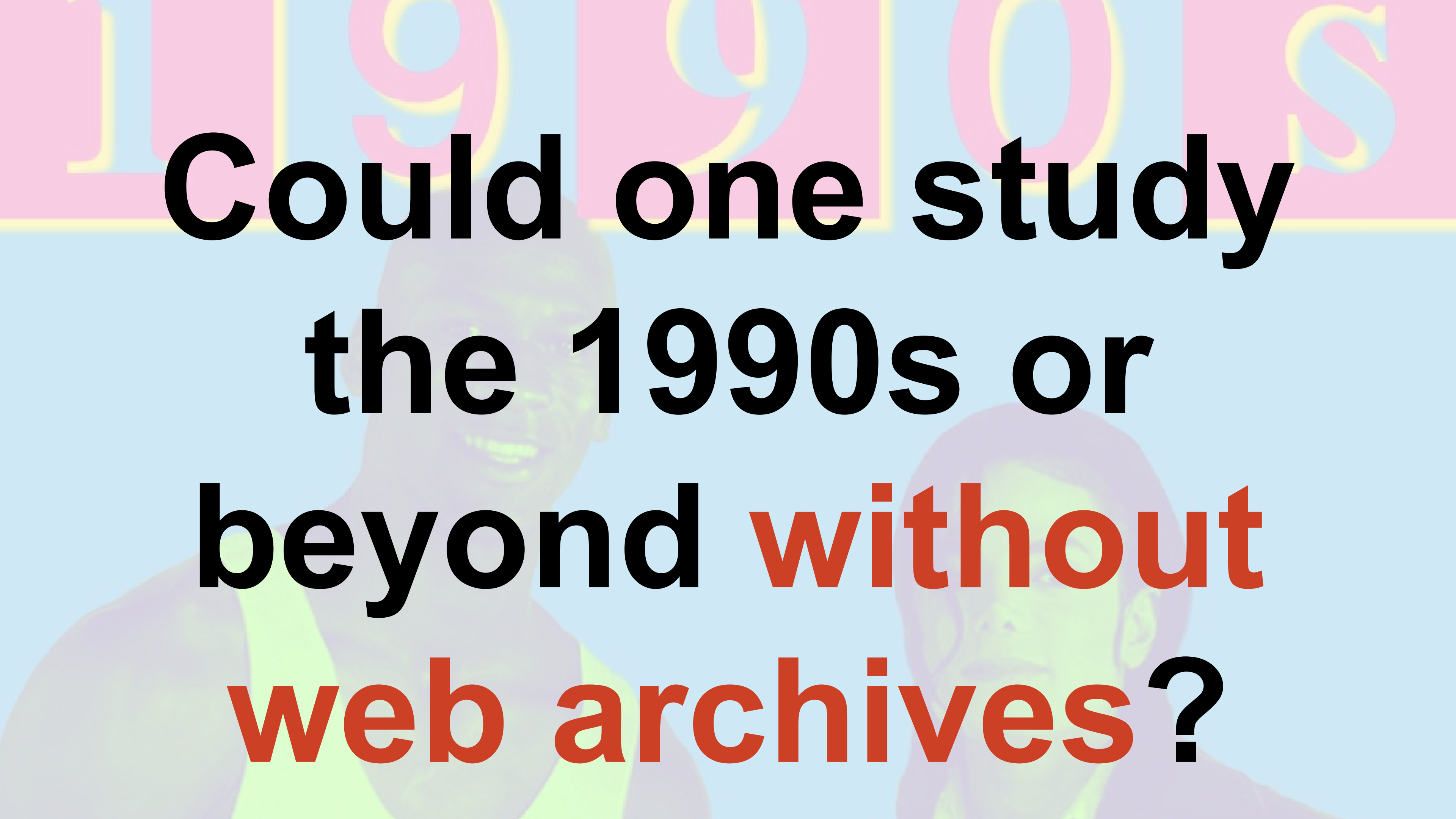
Click here for NYCGA committee meeting times.

~~Scarcity~~

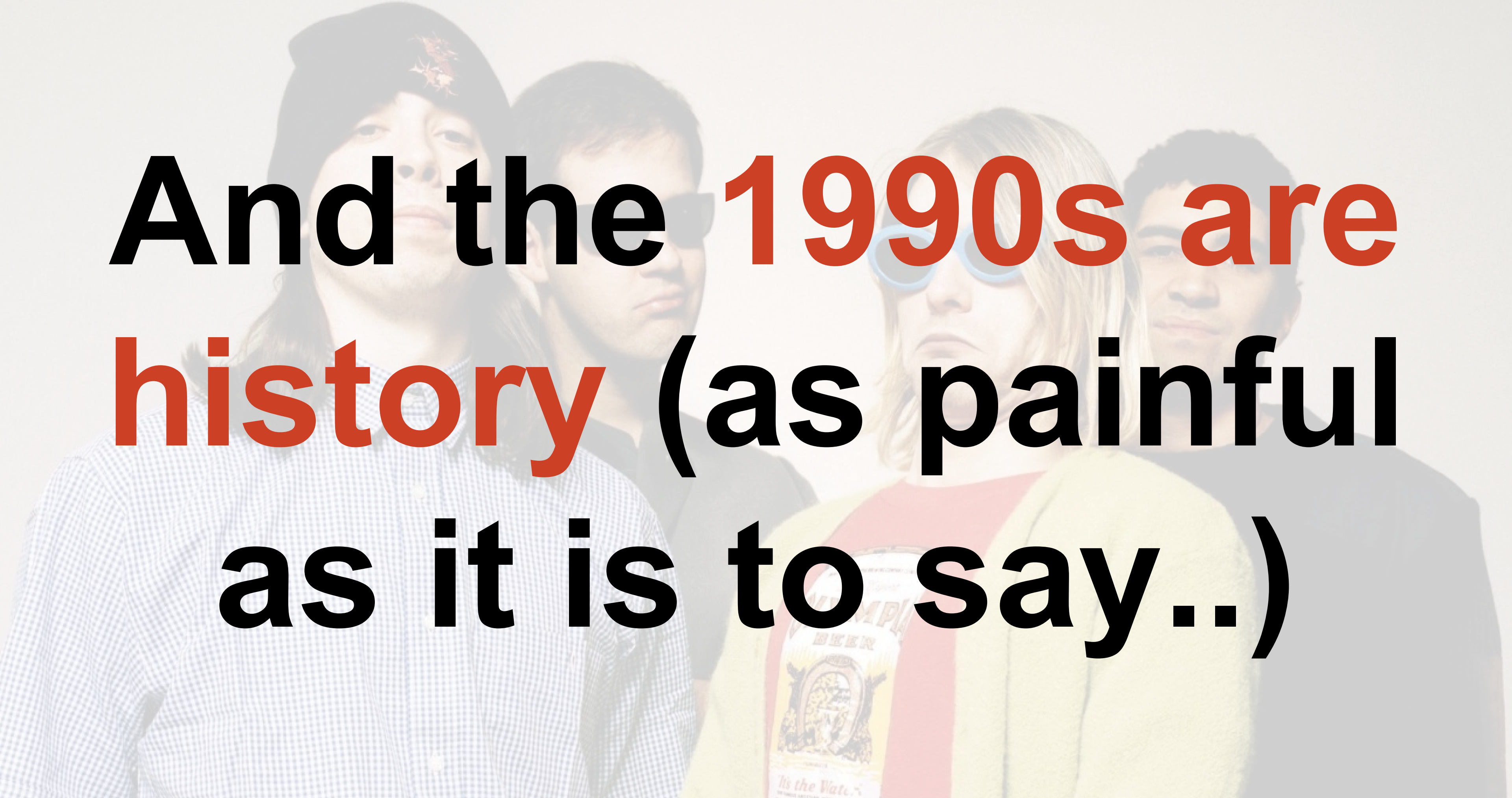
Abundance

GEOCITIES USERS:



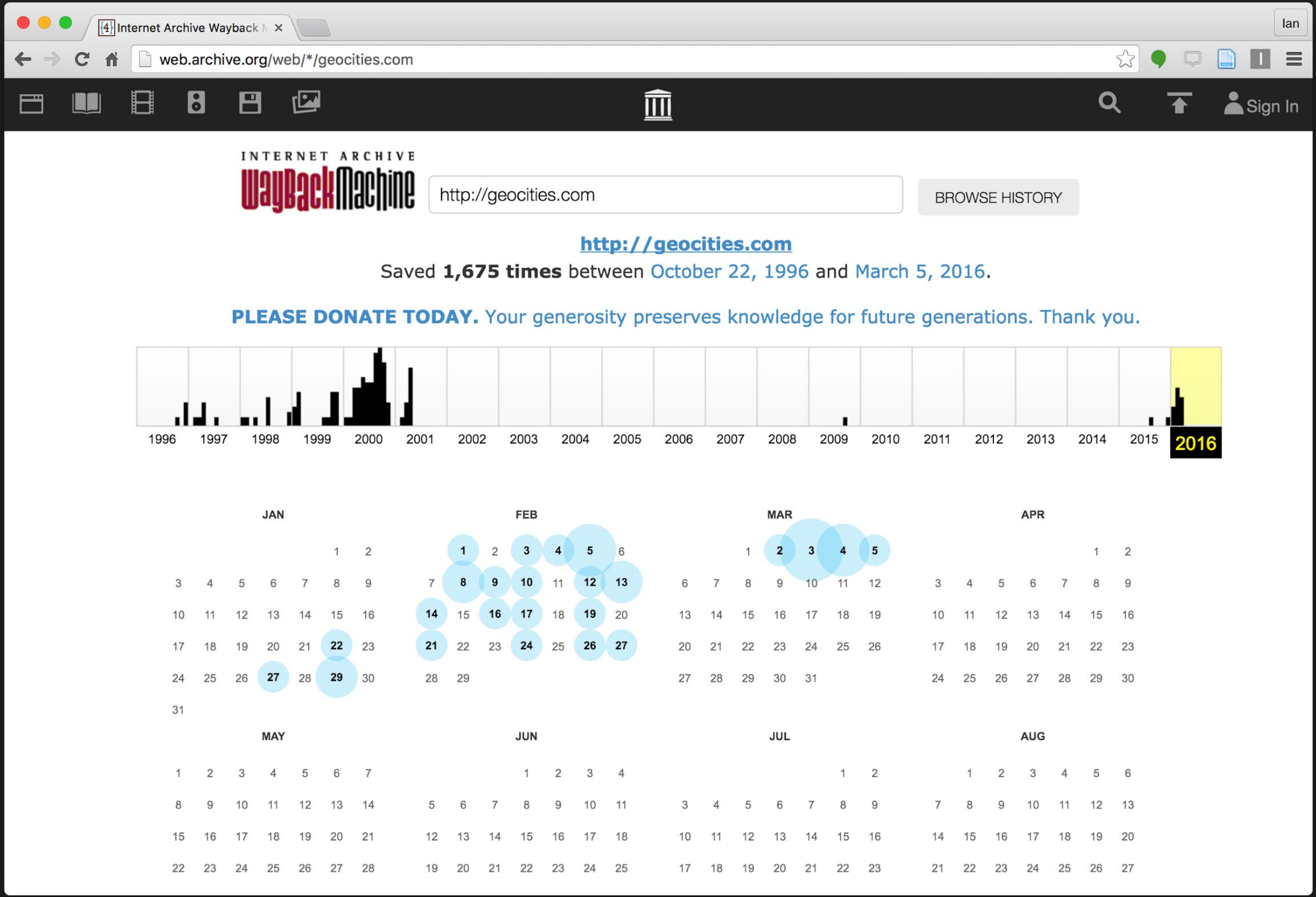


Could one study the 1990s or beyond **without web archives**?



And the 1990s are history (as painful as it is to say..)

But right now you have to use the Wayback Machine - requiring you know the URL!



http://geocities.com

http://geocities.com

Saved **1,675 times** between October 22, 1996 and March 5, 2016.

PLEASE DONATE TODAY. Your generosity preserves knowledge for future generations. Thank you.

JAN

					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	**22**	23
24	25	26	**27**	28	**29**	30
31						

FEB

	1	2	**3**	**4**	**5**	6
7	**8**	**9**	**10**	11	**12**	**13**
14	15	**16**	**17**	18	**19**	20
21	22	23	**24**	25	**26**	**27**
28	29					

MAR

		1	**2**	**3**	**4**	**5**
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

APR

					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

MAY

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

JUN

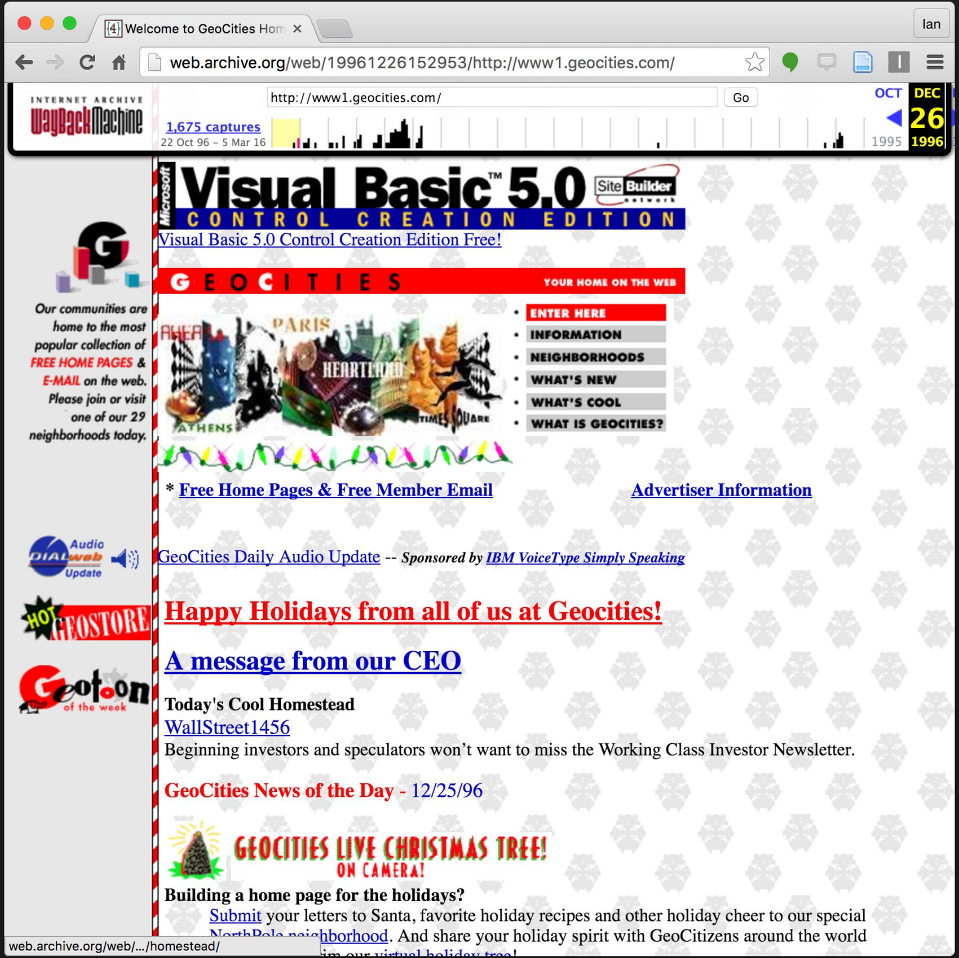
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25

JUL

					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23

AUG

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27



Visual Basic 5.0 Control Creation Edition Free!

Our communities are home to the most popular collection of FREE HOME PAGES & E-MAIL on the web. Please join or visit one of our 29 neighborhoods today.

* Free Home Pages & Free Member Email

Advertiser Information

GeoCities Daily Audio Update -- *Sponsored by IBM VoiceType Simply Speaking*

Happy Holidays from all of us at Geocities!

A message from our CEO

Today's Cool Homestead

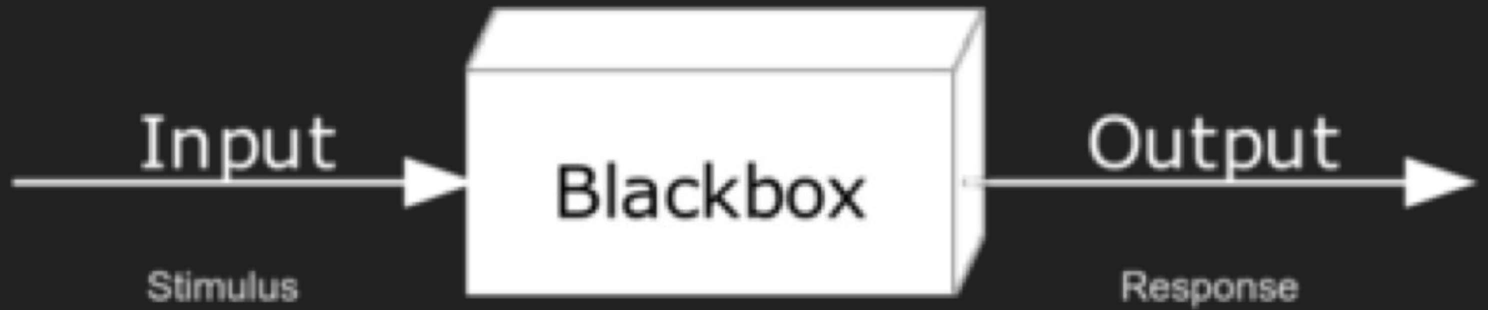
WallStreet1456

Beginning investors and speculators won't want to miss the Working Class Investor Newsletter.

GeoCities News of the Day - 12/25/96

Building a home page for the holidays?

Submit your letters to Santa, favorite holiday recipes and other holiday cheer to our special NorthPole neighborhood. And share your holiday spirit with GeoCitizens around the world im our virtual holiday tree!


Input
Stimulus
Blackbox
Output
Response

We need interdisciplinary collaboration to tackle this problem!

Social Sciences and
Humanities Research
Council of Canada

Conseil de recherches
en sciences humaines
du Canada

Canada

compute | calcul
canada | canada

Team(s)

WARCS

RULE

EVERYTHING

AROUND

ME (US!)

Ian Milligan

History Faculty Member

Jimmy Lin

Computer Science Faculty Member

Jeremy Wiebe

History PhD Candidate

Alice Zhou

Computer Science Undergraduate

Nick Ruest

Digital Assets Librarian

Collaboration

My beats travel like a vortex, through your spine
to the top of your cerebrum cortex

#Slack & GitHub

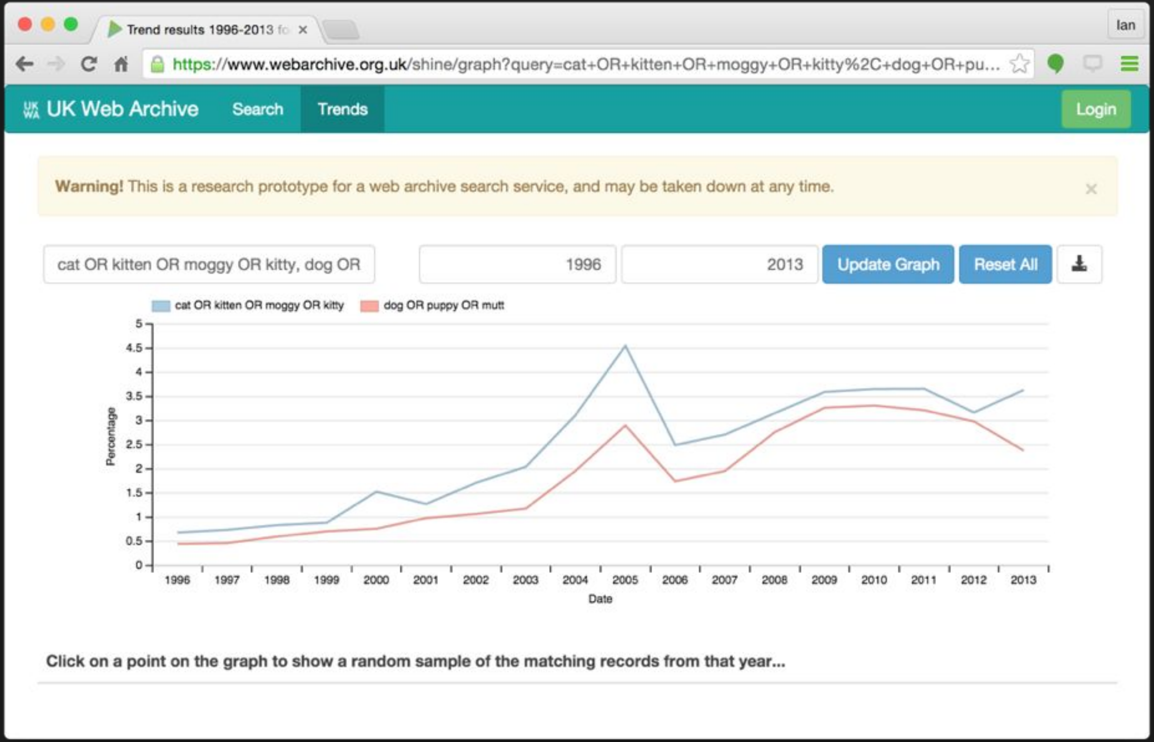
Platforms

Every time the horn blows, the Wu's signal's back on Transform, pack form a whole another platform

Shine

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

Shine



Warning! This is a research prototype for a web archive search service, and may be taken down at any time.

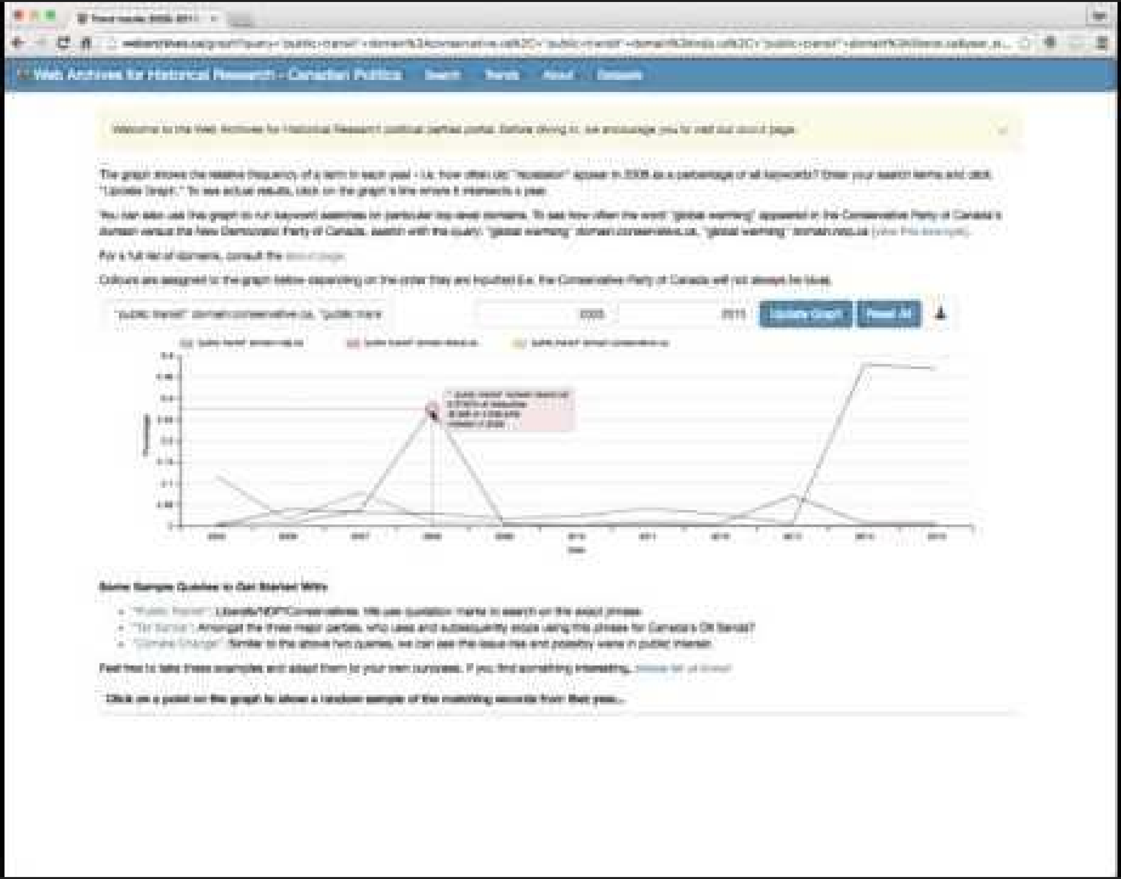
cat OR kitten OR moggy OR kitty, dog OR

1996

2013

Click on a point on the graph to show a random sample of the matching records from that year...

webarchives.ca



Welcome to the Web Archives for Historical Research political parties portal. Before diving in, we encourage you to visit our about page.

The graph shows the relative frequency of a term in each year - i.e. how often did "recession" appear in 2008 as a percentage of all keywords? Enter your search terms and click "Update Graph." To see actual results, click on the graph's line where it intersects a year.

You can also use this graph to run keyword searches on particular top level domains. To see how often the word "global warming" appeared in the Conservative Party of Canada's domain versus the New Democratic Party of Canada, search with the query: "global warming" domain:conservative.ca, "global warming" domain:ndp.ca (view this example).

For a full list of domains, consult the about page.

Colours are assigned to the graph below depending on the order they are inputted (i.e. the Conservative Party of Canada will not always be blue).

"public transit" domain:conservative.ca, "public trans 2005 2015

Some Sample Queries to Get Started With:

- "Public Transit": Liberals/NDP/Conservatives. We use quotation marks to search on the exact phrase.
- "Oil Sands": Amongst the three major parties, who uses and subsequently stops using this phrase for Canada's Oil Sands?
- "Climate Change": Similar to the above two queries, we can see the issue rise and possibly wane in public interest.

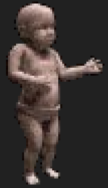
Feel free to take these examples and adapt them to your own purposes. If you find something interesting, please let us know!

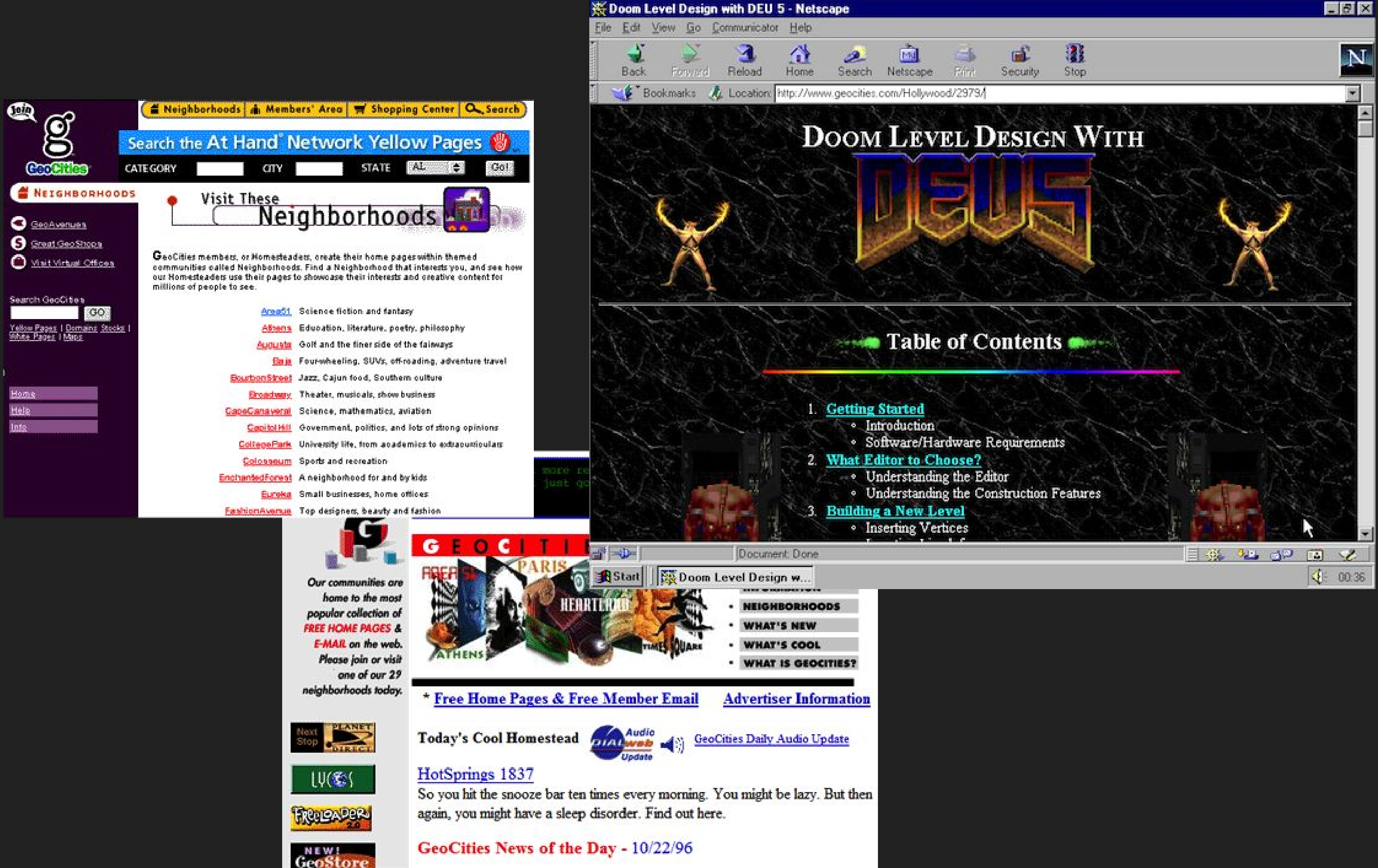
Click on a point on the graph to show a random sample of the matching records from that year...

CLI tools

awk, sed, grep, parallel, sort, uniq, wc, jq

Geocities





GeoCities members, or Homesteaders, create their home pages within themed communities called Neighborhoods. Find a Neighborhood that interests you, and see how our Homesteaders use their pages to showcase their interests and creative content for millions of people to see.

Area51	Science fiction and fantasy
Athens	Education, literature, poetry, philosophy
Augusta	Golf and the finer side of the fairways
Baja	Four-wheeling, SUVs, off-roading, adventure travel
BourbonStreet	Jazz, Cajun food, Southern culture
Broadway	Theater, musicals, show business
CapeCanaveral	Science, mathematics, aviation
CapitolHill	Government, politics, and lots of strong opinions
CollegePark	University life, from academics to extracurriculars
Colosseum	Sports and recreation
EnchantedForest	A neighborhood for and by kids
Eureka	Small businesses, home offices
FashionAvenue	Top designers, beauty and fashion

Doom Level Design with DEU 5 - Netscape
File Edit View Go Communicator Help
Back
Forward
Reload
Home
Search
Netscape
Print
Security
Stop
Bookmarks
Location: http://www.geocities.com/Hollywood/2979/
Document: Done
Start
Doom Level Design w...
00:36

Doom Level Design With DEU5

Table of Contents

1. Getting Started
   - Introduction
   - Software/Hardware Requirements
2. What Editor to Choose?
   - Understanding the Editor
   - Understanding the Construction Features
3. Building a New Level
   - Inserting Vertices

Our communities are home to the most popular collection of FREE HOME PAGES & E-MAIL on the web. Please join or visit one of our 29 neighborhoods today.

* Free Home Pages & Free Member Email Advertiser Information

Today's Cool Homestead

GeoCities Daily Audio Update

HotSprings 1837

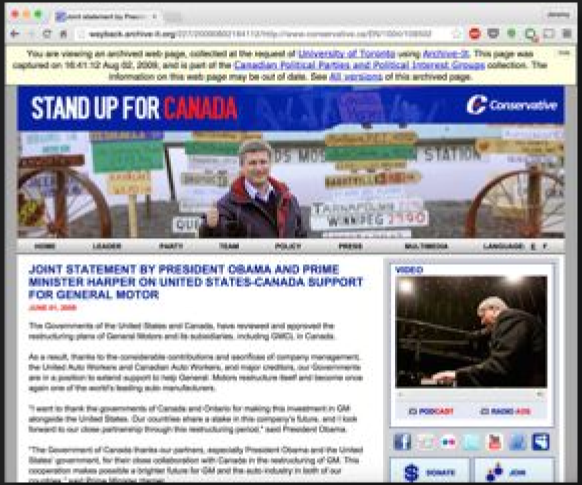
So you hit the snooze bar ten times every morning. You might be lazy. But then again, you might have a sleep disorder. Find out here.

GeoCities News of the Day - 10/22/96

Warcbase

Warcbase

- An open-source platform for managing web archives
- Two main components
  - A flexible data store: your own Wayback Machine
  - Scriptable analytics and data processing



You are viewing an archived web page, collected at the request of University of Toronto using Archive-It. This page was captured on 16:41:12 Aug 02, 2009, and is part of the Canadian Political Parties and Political Interest Groups collection. The information on this web page may be out of date. See All versions of this archived page.

JOINT STATEMENT BY PRESIDENT OBAMA AND PRIME MINISTER HARPER ON UNITED STATES-CANADA SUPPORT FOR GENERAL MOTOR

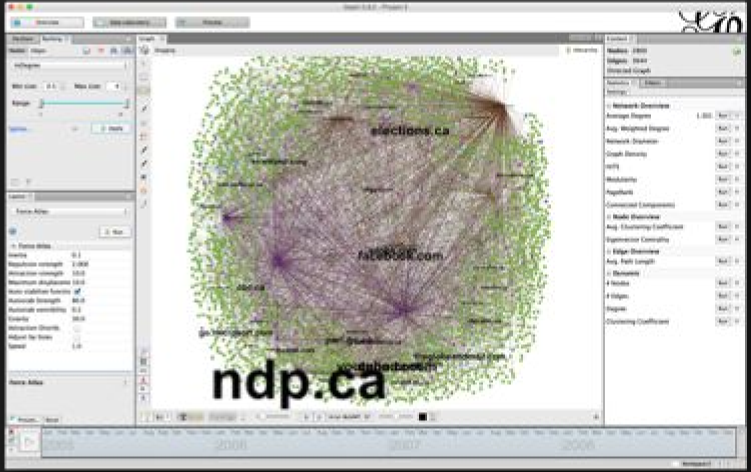
JUNE 01, 2009

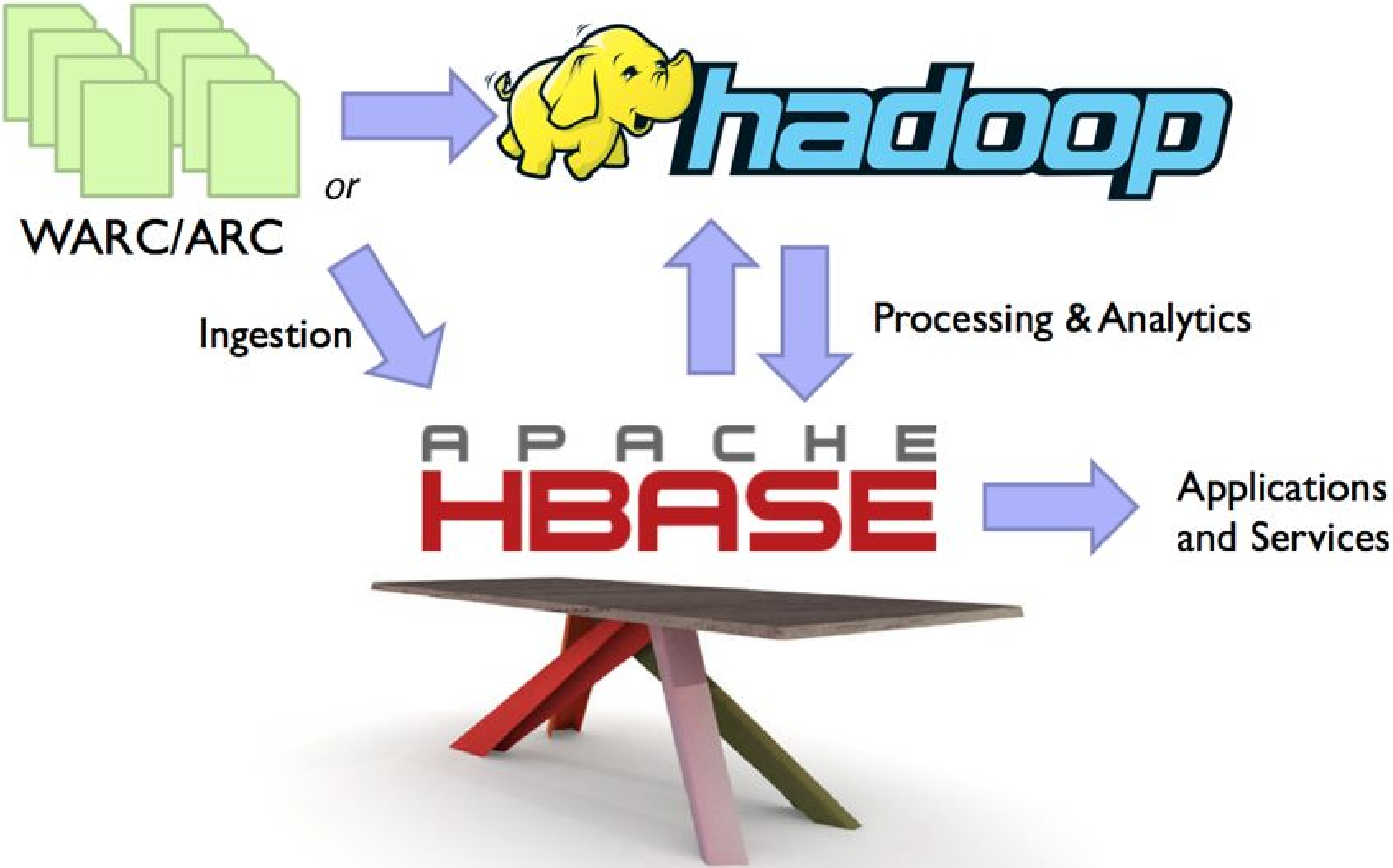
The Governments of the United States and Canada, have reviewed and approved the restructuring plans of General Motors and its subsidiaries, including GMCL in Canada.

As a result, thanks to the considerable contributions and sacrifices of company management, the United Auto Workers and Canadian Auto Workers, and major creditors, our Governments are in a position to extend support to help General Motors restructure itself and become once again one of the world's leading auto manufacturers.

"I want to thank the governments of Canada and Ontario for making this investment in GM alongside the United States. Our countries share a stake in the company's future, and I look forward to our close partnership through this restructuring period," said President Obama.

"The Government of Canada thanks our partners, especially President Obama and the United States' government, for their close collaboration with Canada in the restructuring of GM. This cooperation makes possible a brighter future for GM and the auto industry in both of our countries," said Prime Minister Harper.





or

WARC/ARC

Ingestion

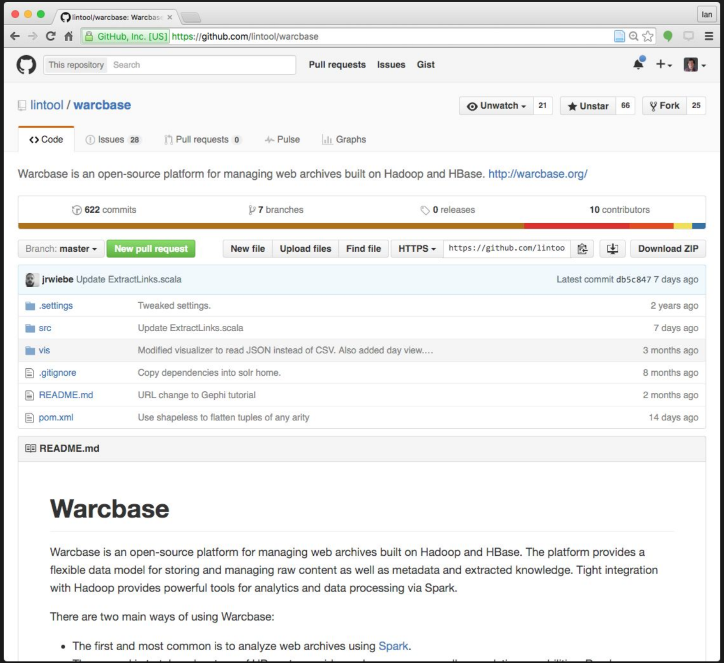
Processing & Analytics

Applications and Services

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 with Web Archives Historical Research Group

You can Warcbase Too! (...and Twarcbase soon!)



Warcbase is an open-source platform for managing web archives built on Hadoop and HBase. http://warcbase.org/

622 commits · 7 branches · 0 releases · 10 contributors

jrwiebe Update ExtractLinks.scala — Latest commit db5c847 7 days ago

.settings	Tweaked settings.	2 years ago
src	Update ExtractLinks.scala	7 days ago
vis	Modified visualizer to read JSON instead of CSV. Also added day view.…	3 months ago
.gitignore	Copy dependencies into solr home.	8 months ago
README.md	URL change to Gephi tutorial	2 months ago
pom.xml	Use shapeless to flatten tuples of any arity	14 days ago

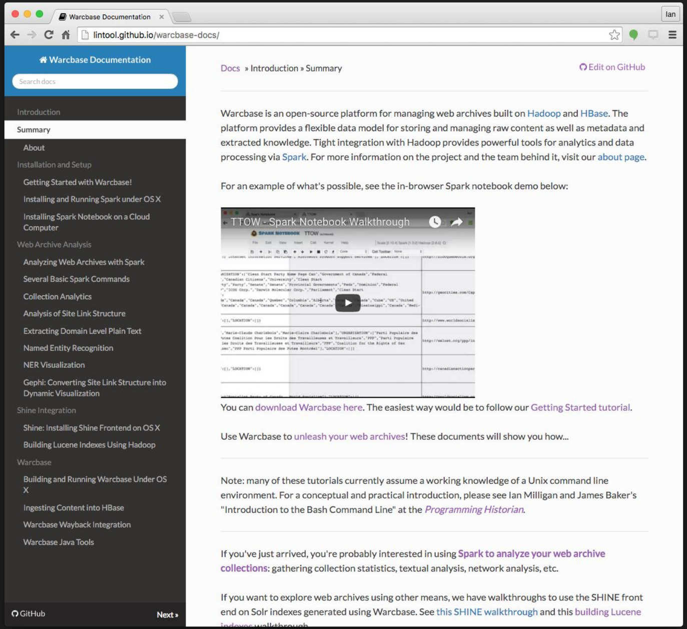
README.md

Warcbase

Warcbase is an open-source platform for managing web archives built on Hadoop and HBase. The platform provides a flexible data model for storing and managing raw content as well as metadata and extracted knowledge. Tight integration with Hadoop provides powerful tools for analytics and data processing via Spark.

There are two main ways of using Warcbase:

- The first and most common is to analyze web archives using Spark.


Warcbase Documentation
lintool.github.io/warcbase-docs/
Warcbase Documentation
Search docs
Introduction
Summary
About
Installation and Setup
Getting Started with Warcbase!
Installing and Running Spark under OS X
Installing Spark Notebook on a Cloud Computer
Web Archive Analysis
Analyzing Web Archives with Spark
Several Basic Spark Commands
Collection Analytics
Analysis of Site Link Structure
Extracting Domain Level Plain Text
Named Entity Recognition
NER Visualization
Gephi: Converting Site Link Structure into Dynamic Visualization
Shine Integration
Shine: Installing Shine Frontend on OS X
Building Lucene Indexes Using Hadoop
Warcbase
Building and Running Warcbase Under OS X
Ingesting Content into HBase
Warcbase Wayback Integration
Warcbase Java Tools
GitHub
Next »
Docs » Introduction » Summary
Edit on GitHub
TTOW - Spark Notebook Walkthrough

Warcbase is an open-source platform for managing web archives built on Hadoop and HBase. The platform provides a flexible data model for storing and managing raw content as well as metadata and extracted knowledge. Tight integration with Hadoop provides powerful tools for analytics and data processing via Spark. For more information on the project and the team behind it, visit our about page.

For an example of what's possible, see the in-browser Spark notebook demo below:

You can download Warcbase here. The easiest way would be to follow our Getting Started tutorial.

Use Warcbase to unleash your web archives! These documents will show you how...

Note: many of these tutorials currently assume a working knowledge of a Unix command line environment. For a conceptual and practical introduction, please see Ian Milligan and James Baker's "Introduction to the Bash Command Line" at the *Programming Historian*.

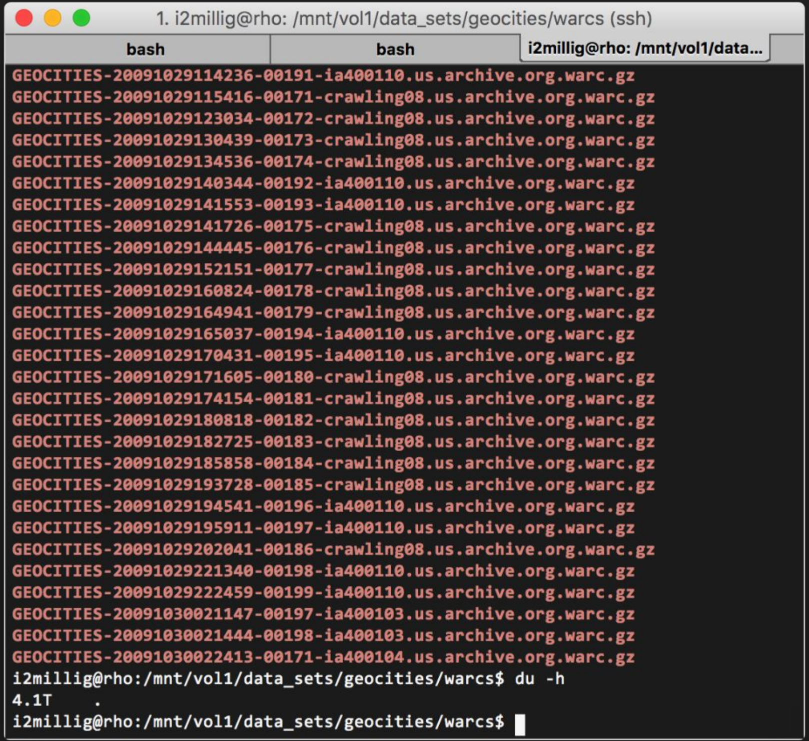
If you've just arrived, you're probably interested in using **Spark to analyze your web archive collections**: gathering collection statistics, textual analysis, network analysis, etc.

If you want to explore web archives using other means, we have walkthroughs to use the SHINE front end on Solr indexes generated using Warcbase. See this SHINE walkthrough and this building Lucene

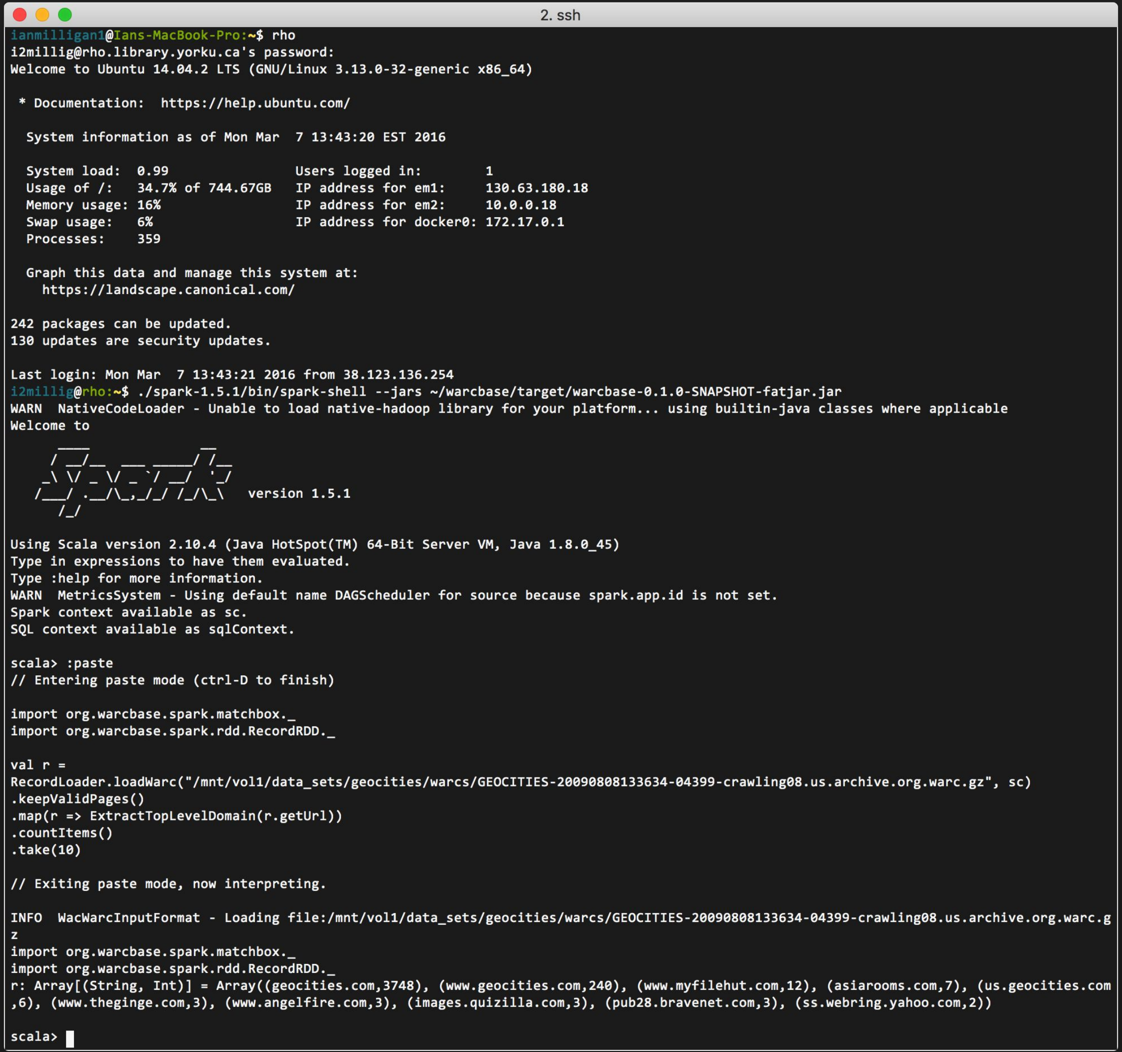
warcbase.org

docs.warcbase.org

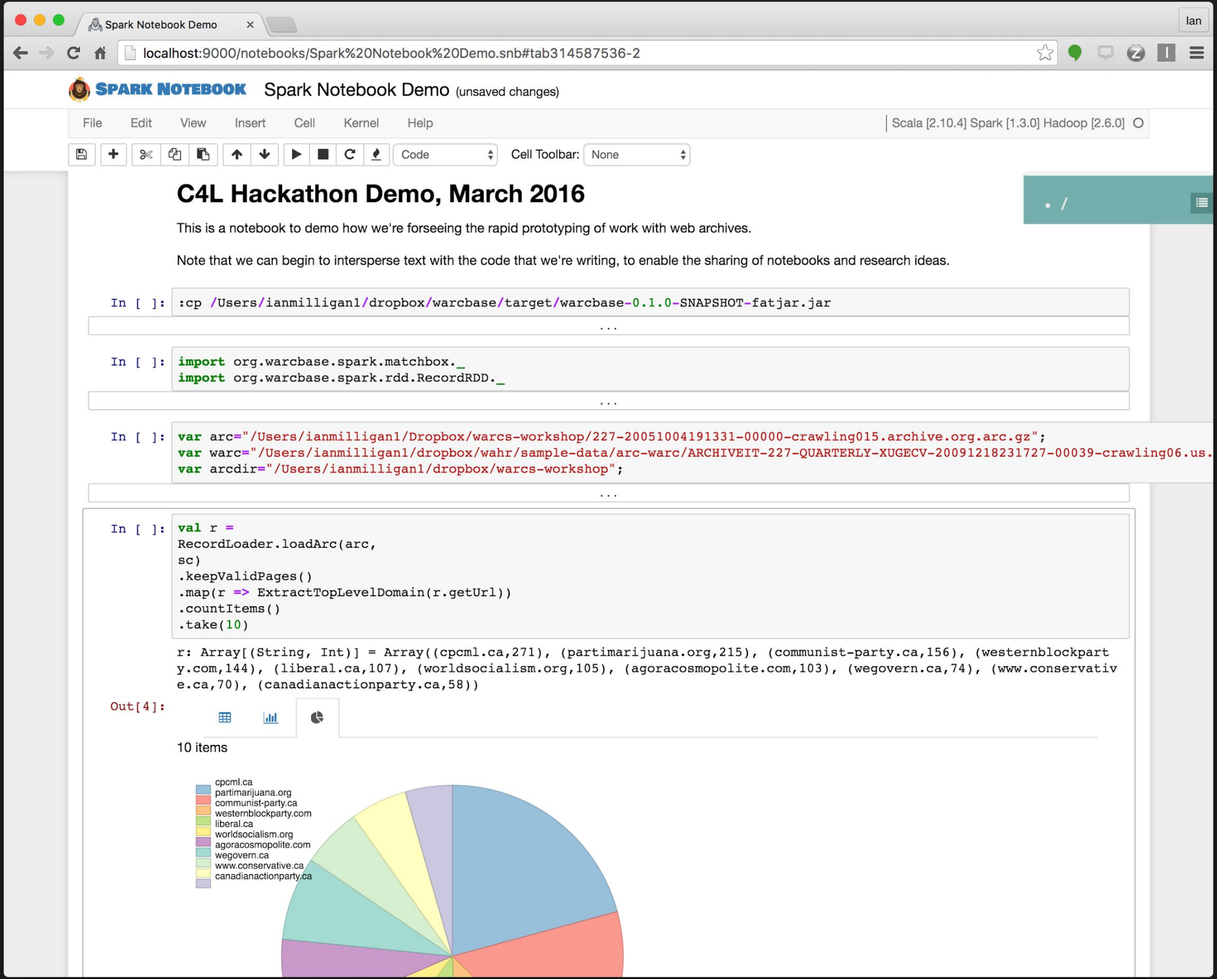
Let’s do a quick walkthrough of how **we’ve used it on GeoCities**


1. i2millig@rho: /mnt/vol1/data_sets/geocities/warcs (ssh)
bash
bash
i2millig@rho: /mnt/vol1/data...

```
GEOCITIES-20091029114236-00191-ia400110.us.archive.org.warc.gz
GEOCITIES-20091029115416-00171-crawling08.us.archive.org.warc.gz
GEOCITIES-20091029123034-00172-crawling08.us.archive.org.warc.gz
GEOCITIES-20091029130439-00173-crawling08.us.archive.org.warc.gz
GEOCITIES-20091029134536-00174-crawling08.us.archive.org.warc.gz
GEOCITIES-20091029140344-00192-ia400110.us.archive.org.warc.gz
GEOCITIES-20091029141553-00193-ia400110.us.archive.org.warc.gz
GEOCITIES-20091029141726-00175-crawling08.us.archive.org.warc.gz
GEOCITIES-20091029144445-00176-crawling08.us.archive.org.warc.gz
GEOCITIES-20091029152151-00177-crawling08.us.archive.org.warc.gz
GEOCITIES-20091029160824-00178-crawling08.us.archive.org.warc.gz
GEOCITIES-20091029164941-00179-crawling08.us.archive.org.warc.gz
GEOCITIES-20091029165037-00194-ia400110.us.archive.org.warc.gz
GEOCITIES-20091029170431-00195-ia400110.us.archive.org.warc.gz
GEOCITIES-20091029171605-00180-crawling08.us.archive.org.warc.gz
GEOCITIES-20091029174154-00181-crawling08.us.archive.org.warc.gz
GEOCITIES-20091029180818-00182-crawling08.us.archive.org.warc.gz
GEOCITIES-20091029182725-00183-crawling08.us.archive.org.warc.gz
GEOCITIES-20091029185858-00184-crawling08.us.archive.org.warc.gz
GEOCITIES-20091029193728-00185-crawling08.us.archive.org.warc.gz
GEOCITIES-20091029194541-00196-ia400110.us.archive.org.warc.gz
GEOCITIES-20091029195911-00197-ia400110.us.archive.org.warc.gz
GEOCITIES-20091029202041-00186-crawling08.us.archive.org.warc.gz
GEOCITIES-20091029221340-00198-ia400110.us.archive.org.warc.gz
GEOCITIES-20091029222459-00199-ia400110.us.archive.org.warc.gz
GEOCITIES-20091030021147-00197-ia400103.us.archive.org.warc.gz
GEOCITIES-20091030021444-00198-ia400103.us.archive.org.warc.gz
GEOCITIES-20091030022413-00171-ia400104.us.archive.org.warc.gz
i2millig@rho:/mnt/vol1/data_sets/geocities/warcs$ du -h
4.1T    .
i2millig@rho:/mnt/vol1/data_sets/geocities/warcs$ 
```



```
ianmilligan1@Ians-MacBook-Pro:~$ rho
i2millig@rho.library.yorku.ca's password:
Welcome to Ubuntu 14.04.2 LTS (GNU/Linux 3.13.0-32-generic x86_64)

 * Documentation:  https://help.ubuntu.com/

  System information as of Mon Mar  7 13:43:20 EST 2016

  System load:  0.99               Users logged in:        1
  Usage of /:   34.7% of 744.67GB  IP address for em1:     130.63.180.18
  Memory usage: 16%                IP address for em2:     10.0.0.18
  Swap usage:   6%                 IP address for docker0: 172.17.0.1
  Processes:    359

  Graph this data and manage this system at:
    https://landscape.canonical.com/

242 packages can be updated.
130 updates are security updates.

Last login: Mon Mar  7 13:43:21 2016 from 38.123.136.254
i2millig@rho:~$ ./spark-1.5.1/bin/spark-shell --jars ~/warcbase/target/warcbase-0.1.0-SNAPSHOT-fatjar.jar
WARN  NativeCodeLoader - Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Welcome to
      ____              __
     / __/__  ___ _____/ /__
    _\ \/ _ \/ _ `/ __/  '_/
   /___/ .__/\_,_/_/ /_/\_\   version 1.5.1
      /_/

Using Scala version 2.10.4 (Java HotSpot(TM) 64-Bit Server VM, Java 1.8.0_45)
Type in expressions to have them evaluated.
Type :help for more information.
WARN  MetricsSystem - Using default name DAGScheduler for source because spark.app.id is not set.
Spark context available as sc.
SQL context available as sqlContext.

scala> :paste
// Entering paste mode (ctrl-D to finish)

import org.warcbase.spark.matchbox._
import org.warcbase.spark.rdd.RecordRDD._

val r =
RecordLoader.loadWarc("/mnt/vol1/data_sets/geocities/warcs/GEOCITIES-20090808133634-04399-crawling08.us.archive.org.warc.gz", sc)
.keepValidPages()
.map(r => ExtractTopLevelDomain(r.getUrl))
.countItems()
.take(10)

// Exiting paste mode, now interpreting.

INFO  WacWarcInputFormat - Loading file:/mnt/vol1/data_sets/geocities/warcs/GEOCITIES-20090808133634-04399-crawling08.us.archive.org.warc.g
z
import org.warcbase.spark.matchbox._
import org.warcbase.spark.rdd.RecordRDD._
r: Array[(String, Int)] = Array((geocities.com,3748), (www.geocities.com,240), (www.myfilehut.com,12), (asiarooms.com,7), (us.geocities.com
,6), (www.theginge.com,3), (www.angelfire.com,3), (images.quizilla.com,3), (pub28.bravenet.com,3), (ss.webring.yahoo.com,2))

scala> 
```



Spark Notebook Demo (unsaved changes)

Scala [2.10.4] Spark [1.3.0] Hadoop [2.6.0]

C4L Hackathon Demo, March 2016

This is a notebook to demo how we're forseeing the rapid prototyping of work with web archives.

Note that we can begin to intersperse text with the code that we're writing, to enable the sharing of notebooks and research ideas.

```
In [ ]: :cp /Users/ianmilligan1/dropbox/warcbase/target/warcbase-0.1.0-SNAPSHOT-fatjar.jar
```

```
In [ ]: import org.warcbase.spark.matchbox._
        import org.warcbase.spark.rdd.RecordRDD._
```

```
In [ ]: var arc="/Users/ianmilligan1/Dropbox/warcs-workshop/227-20051004191331-00000-crawling015.archive.org.arc.gz";
        var warc="/Users/ianmilligan1/dropbox/wahr/sample-data/arc-warc/ARCHIVEIT-227-QUARTERLY-XUGECV-20091218231727-00039-crawling06.us.
        var arcdir="/Users/ianmilligan1/dropbox/warcs-workshop";
```

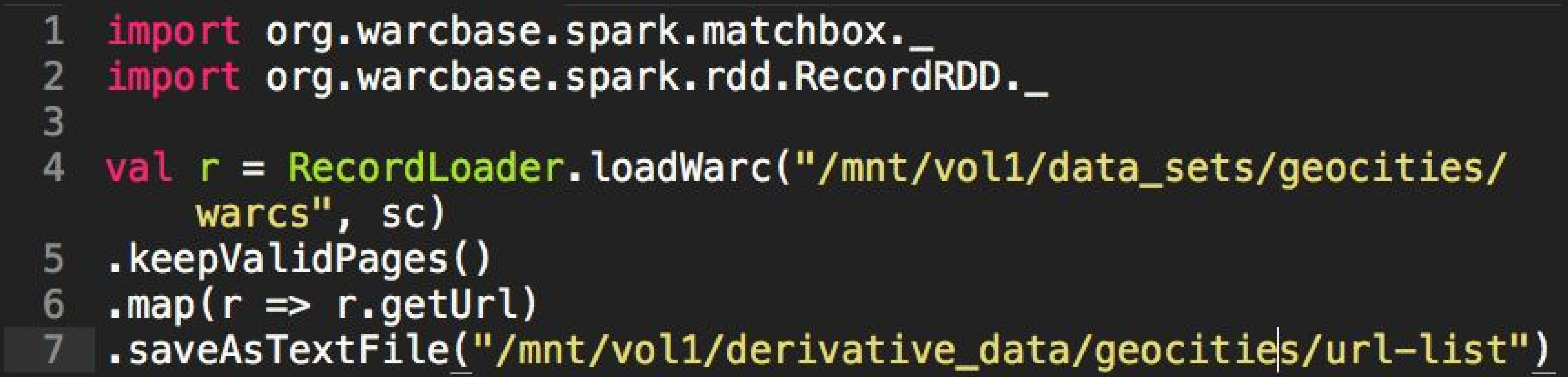
```
In [ ]: val r =
        RecordLoader.loadArc(arc,
        sc)
        .keepValidPages()
        .map(r => ExtractTopLevelDomain(r.getUrl))
        .countItems()
        .take(10)
```

```
r: Array[(String, Int)] = Array((cpcml.ca,271), (partimarijuana.org,215), (communist-party.ca,156), (westernblockpart
y.com,144), (liberal.ca,107), (worldsocialism.org,105), (agoracosmopolite.com,103), (wegovern.ca,74), (www.conservativ
e.ca,70), (canadianactionparty.ca,58))
```

Out[4]:

10 items

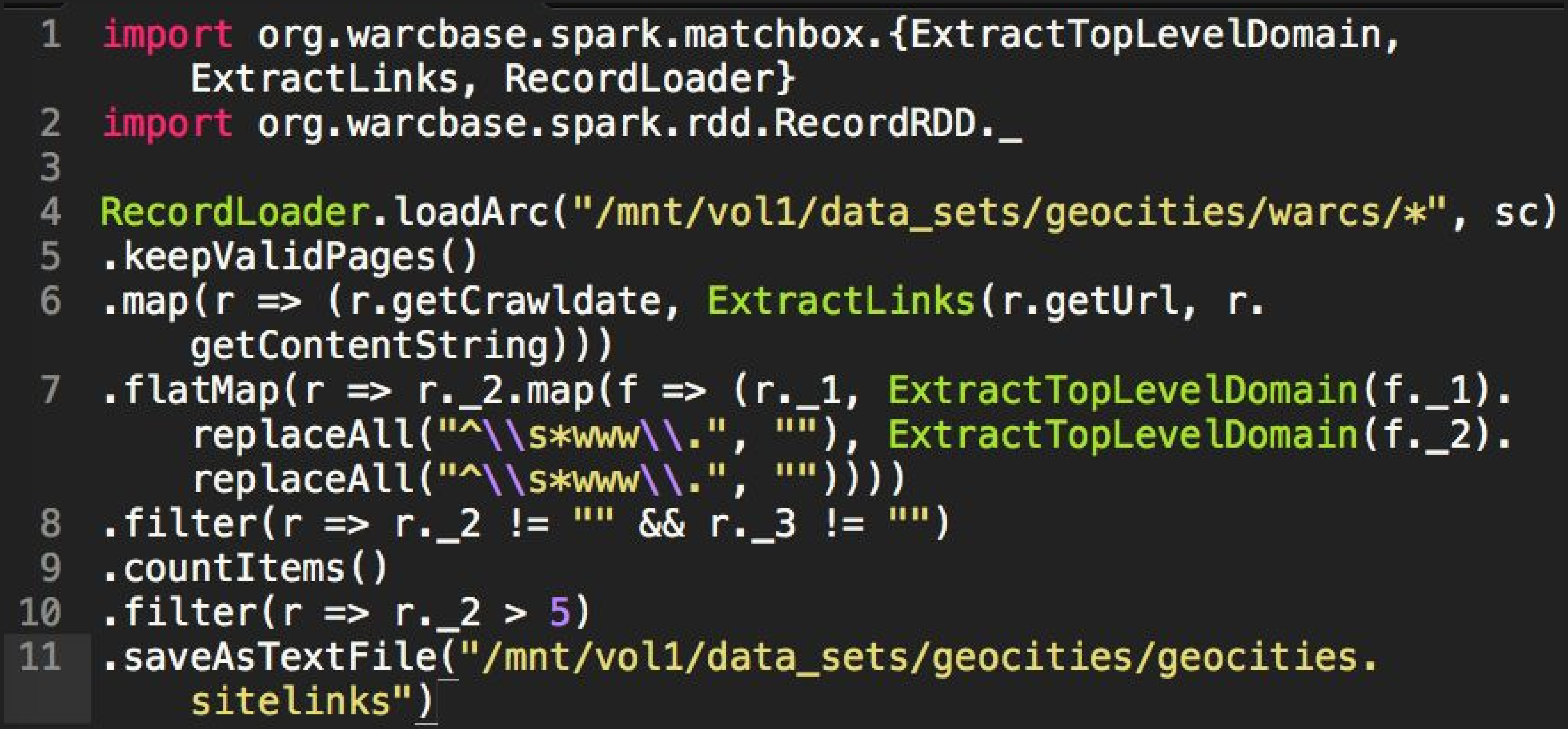
Extracting all URLs



```scala
import org.warcbase.spark.matchbox._
import org.warcbase.spark.rdd.RecordRDD._

val r = RecordLoader.loadWarc("/mnt/vol1/data_sets/geocities/
    warcs", sc)
.keepValidPages()
.map(r => r.getUrl)
.saveAsTextFile("/mnt/vol1/derivative_data/geocities/url-list")
```

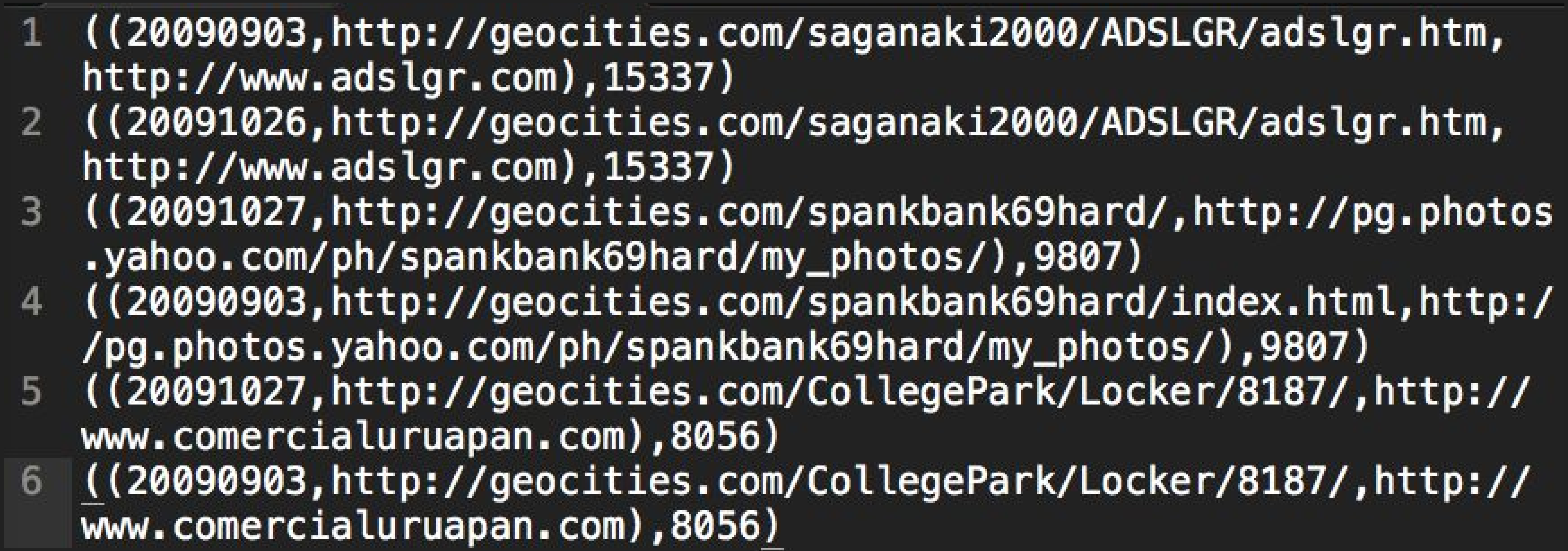
Results = 186,761,346 URLs, 9.9GB text file

Extracting a Link Graph



```
import org.warcbase.spark.matchbox.{ExtractTopLevelDomain,
    ExtractLinks, RecordLoader}
import org.warcbase.spark.rdd.RecordRDD._

RecordLoader.loadArc("/mnt/vol1/data_sets/geocities/warcs/*", sc)
.keepValidPages()
.map(r => (r.getCrawldate, ExtractLinks(r.getUrl, r.
    getContentString)))
.flatMap(r => r._2.map(f => (r._1, ExtractTopLevelDomain(f._1).
    replaceAll("^\\s*www\\.", ""), ExtractTopLevelDomain(f._2).
    replaceAll("^\\s*www\\.", ""))))
.filter(r => r._2 != "" && r._3 != "")
.countItems()
.filter(r => r._2 > 5)
.saveAsTextFile("/mnt/vol1/data_sets/geocities/geocities.
    sitelinks")
```

Results



```
((20090903,http://geocities.com/saganaki2000/ADSLGR/adslgr.htm,http://www.adslgr.com),15337)
((20091026,http://geocities.com/saganaki2000/ADSLGR/adslgr.htm,http://www.adslgr.com),15337)
((20091027,http://geocities.com/spankbank69hard/,http://pg.photos.yahoo.com/ph/spankbank69hard/my_photos/),9807)
((20090903,http://geocities.com/spankbank69hard/index.html,http://pg.photos.yahoo.com/ph/spankbank69hard/my_photos/),9807)
((20091027,http://geocities.com/CollegePark/Locker/8187/,http://www.comercialuruapan.com),8056)
((20090903,http://geocities.com/CollegePark/Locker/8187/,http://www.comercialuruapan.com),8056)
```

Creating Entities

403GB of link graph data.

- http://www.geocities.com/EnchantedForest/Grove/1234/index.html
- http://www.geocities.com/EnchantedForest/Grove/1234/pets/cats.html
- http://www.geocities.com/EnchantedForest/Grove/1234/pets/dogs.html
- http://www.geocities.com/EnchantedForest/Grove/1234/pets/rabbits.html

Bash-Fu

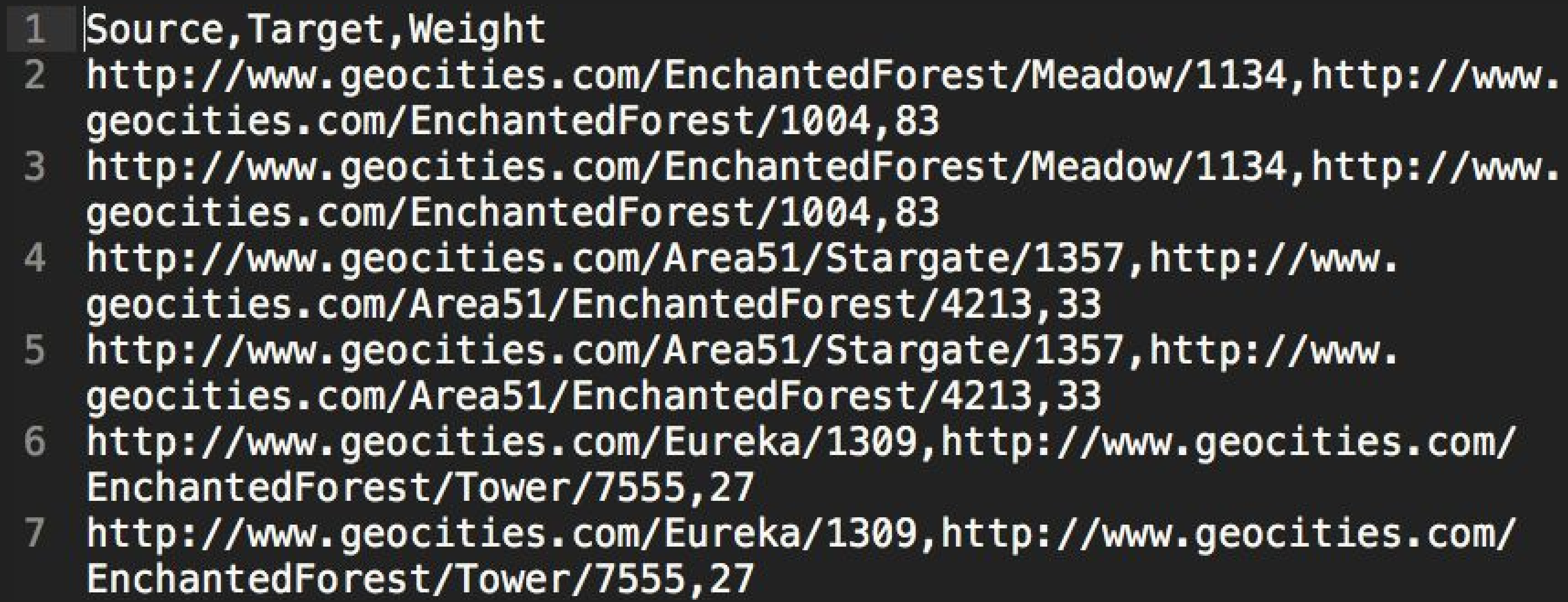
Find all four digit numbers:

```
sed 's/[()]*//g; s/^[^,]*,//; s/\([0-9]\{4\}\)[^,]*/\1/g'
enchantedforest-links.txt > enchantedforest-entities-cleaned1.txt
```

Then find internal:

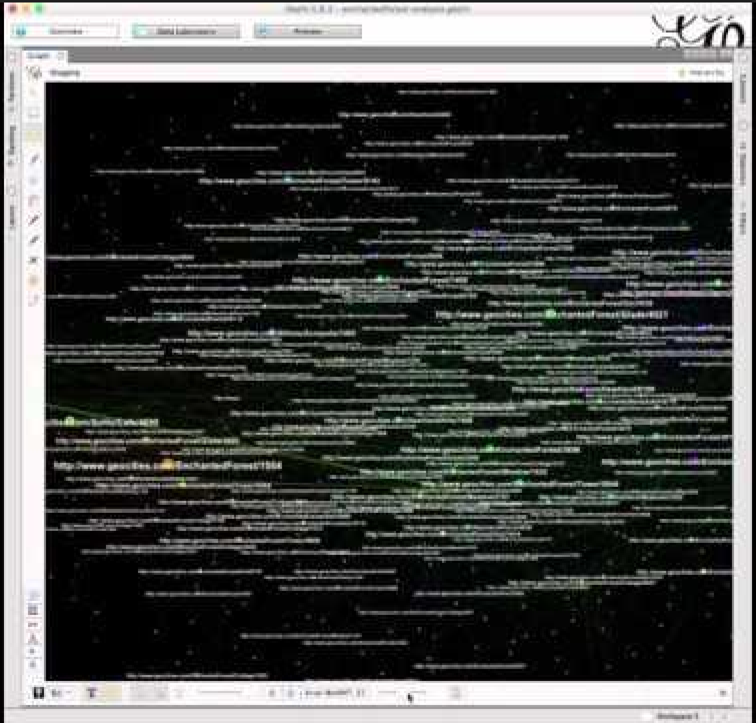
```
grep -P '(.*/[0-9]{4}){2}' enchantedforest-entities-cleaned1.txt >
enchantedforest-entities-internal.txt
```

Link Structure

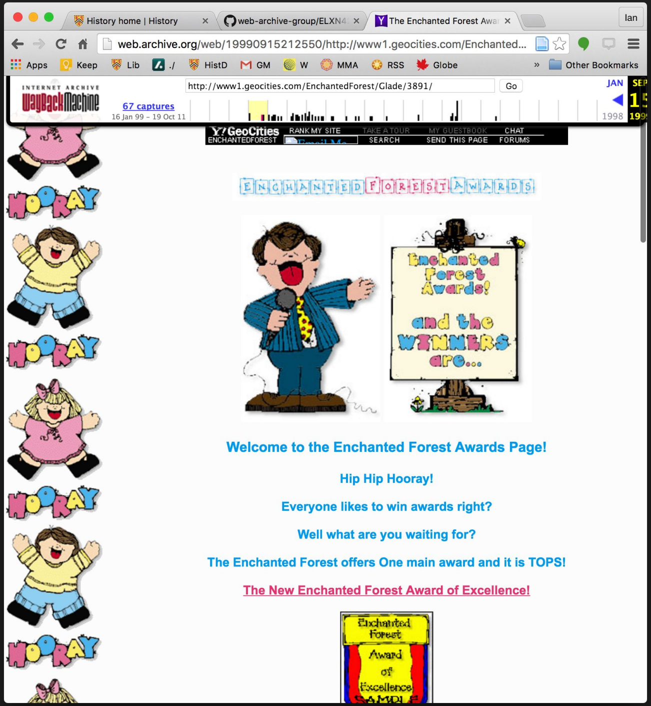


```
Source,Target,Weight
http://www.geocities.com/EnchantedForest/Meadow/1134,http://www.geocities.com/EnchantedForest/1004,83
http://www.geocities.com/EnchantedForest/Meadow/1134,http://www.geocities.com/EnchantedForest/1004,83
http://www.geocities.com/Area51/Stargate/1357,http://www.geocities.com/Area51/EnchantedForest/4213,33
http://www.geocities.com/Area51/Stargate/1357,http://www.geocities.com/Area51/EnchantedForest/4213,33
http://www.geocities.com/Eureka/1309,http://www.geocities.com/EnchantedForest/Tower/7555,27
http://www.geocities.com/Eureka/1309,http://www.geocities.com/EnchantedForest/Tower/7555,27
```

http://geocities.com/WestHollywood/Heights/6470
http://geocities.com/WestHollywood/6036
ocities.com/WestHollywood/7510
http://geocities.com/WestHollywood/Heights/8170
http://geocities.com/WestHollywood/Heights/1067
http://geocities.com/WestHollywood/4809
http://geocities.com/WestHollywood/Heights/6894
http://geocities.com/WestHollywood/3676
http://geocities.com/WestHollywood/2753
http://geocities.com/WestHollywood/Castro/4620
cities.com/WestHollywood/Village/1425
http://geocities.com/WestHollywood/Heights/5099
http://geocities.com/WestHollywood/Park/2368
/1020
http://geocities.com/WestHollywood/Heights/7979
http://geocities.com/W
http://geocities.com/WestHollywood/Chelsea/6553
http://geocities.com/WestHollywood/Cafe/1986
ta/6469
http://geocities.com/WestHollywood/Heights/4250
http://geocities.com/WestHollywood/2399
http://geocities.com/WestHollywood/3075
http://geocities.com/WestHollywood/9748
http://geocities.com/WestHollywood/Heights/8159
ocities.com/WestHollywood/6347
http://geocities.com/WestHollywood/1459
http://geocities.com/WestHollywood/4548
http://geocities.com/WestHolly
http://geocities.com/WestHollywood/Stonewall/6794
http://geocities.com/WestHollywood/Heights/2970
http://geocities.com/WestHollywood/6173
/geocities.com/WestHollywood/1117
http://geocities.com/WestHollywood/1401
ocities.com/WestHollywood/Castro/6902
wood/Stonewall/7647
http://geocities.com/WestHollywood/Stonewall/3029
http://geocities.com/WestHollywood/6310
http://geocities.com/WestHollywood/Village/9414
http://geocities.com/WestHollywood/Park/8021


Overview
Data Laboratory
Preview
Graph
Dragging
http://www.geocities.com/EnchantedForest/Glade/4021
http://www.geocities.com/EnchantedForest/1504

EnchantedForest/Glade/3891



web.archive.org/web/19990915212550/http://www1.geocities.com/Enchanted...

http://www1.geocities.com/EnchantedForest/Glade/3891/

67 captures

16 Jan 99 – 19 Oct 11

Welcome to the Enchanted Forest Awards Page!

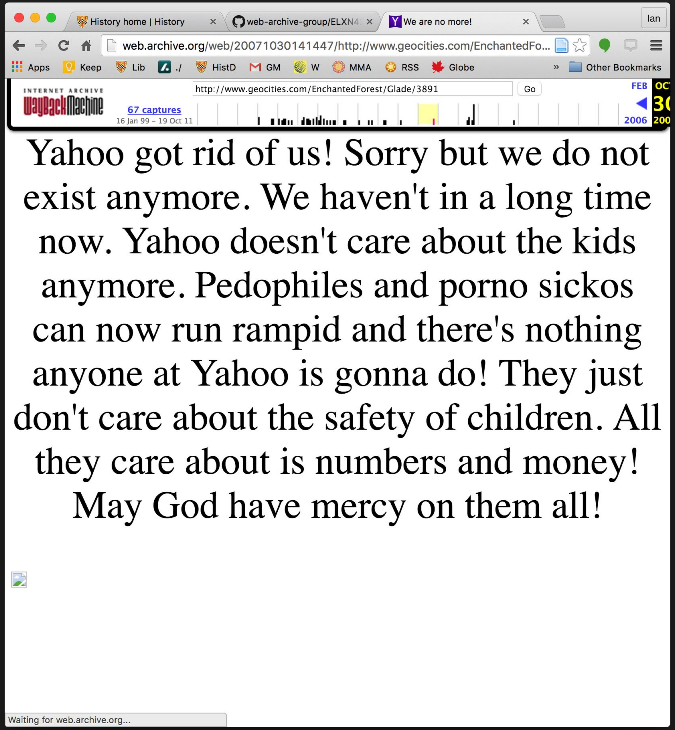
Hip Hip Hooray!

Everyone likes to win awards right?

Well what are you waiting for?

The Enchanted Forest offers One main award and it is TOPS!

The New Enchanted Forest Award of Excellence!



web.archive.org/web/20071030141447/http://www.geocities.com/EnchantedFo...

http://www.geocities.com/EnchantedForest/Glade/3891

67 captures

16 Jan 99 – 19 Oct 11

Yahoo got rid of us! Sorry but we do not exist anymore. We haven't in a long time now. Yahoo doesn't care about the kids anymore. Pedophiles and porno sickos can now run rampid and there's nothing anyone at Yahoo is gonna do! They just don't care about the safety of children. All they care about is numbers and money! May God have mercy on them all!

Waiting for web.archive.org...

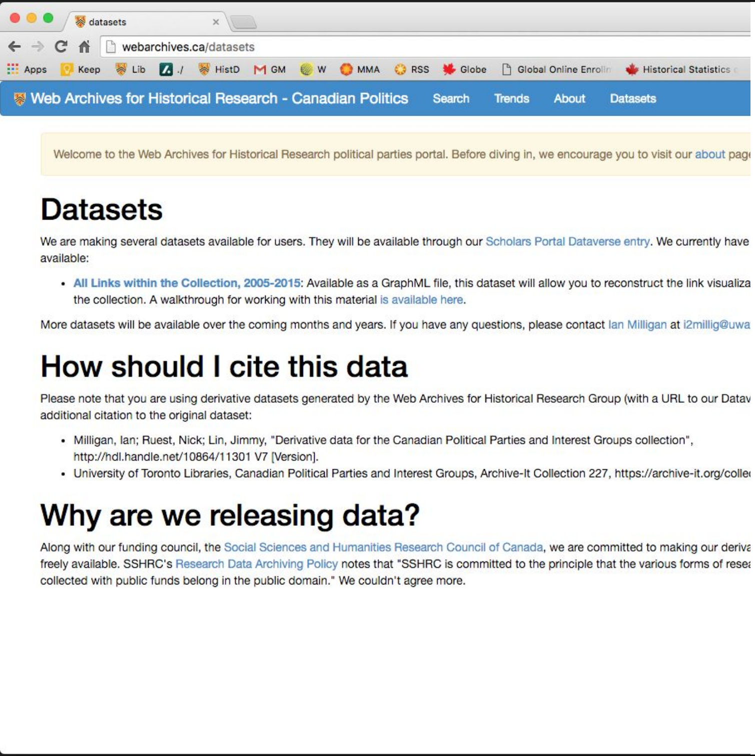
Historical Uses

- The prevalence of awards pages and awards hubs within this neighbourhood;
- A protest movement that may have emerged when Yahoo! decided to shut down the neighbourhood;
- We can begin to follow links from this awards page, by highlighting it in Gephi, to find pages that hosted awards in connection with it;

We could do Shine indexing, but metadata might be the best way forward.

Also lets us share datasets!

Datasets



Welcome to the Web Archives for Historical Research political parties portal. Before diving in, we encourage you to visit our about pag

Datasets

We are making several datasets available for users. They will be available through our Scholars Portal Dataverse entry. We currently have available:

- **All Links within the Collection, 2005-2015**: Available as a GraphML file, this dataset will allow you to reconstruct the link visualiza the collection. A walkthrough for working with this material is available here.

More datasets will be available over the coming months and years. If you have any questions, please contact Ian Milligan at i2millig@uwa

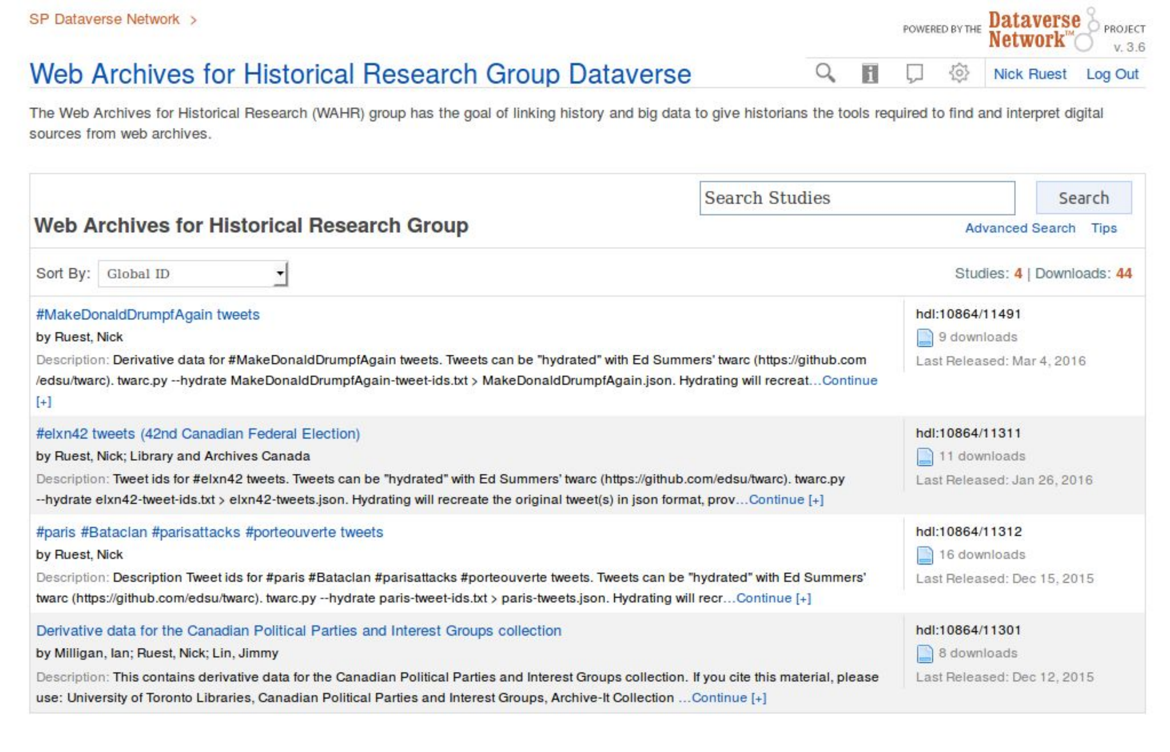
How should I cite this data

Please note that you are using derivative datasets generated by the Web Archives for Historical Research Group (with a URL to our Datav additional citation to the original dataset:

- Milligan, Ian; Ruest, Nick; Lin, Jimmy, "Derivative data for the Canadian Political Parties and Interest Groups collection", http://hdl.handle.net/10864/11301 V7 [Version].
- University of Toronto Libraries, Canadian Political Parties and Interest Groups, Archive-It Collection 227, https://archive-it.org/colle

Why are we releasing data?

Along with our funding council, the Social Sciences and Humanities Research Council of Canada, we are committed to making our deriva freely available. SSHRC's Research Data Archiving Policy notes that "SSHRC is committed to the principle that the various forms of resea collected with public funds belong in the public domain." We couldn't agree more.



Web Archives for Historical Research Group Dataverse

The Web Archives for Historical Research (WAHR) group has the goal of linking history and big data to give historians the tools required to find and interpret digital sources from web archives.

Web Archives for Historical Research Group

Studies: 4 | Downloads: 44

#MakeDonaldDrumpfAgain tweets
by Ruest, Nick
Description: Derivative data for #MakeDonaldDrumpfAgain tweets. Tweets can be "hydrated" with Ed Summers' twarc (https://github.com/edsu/twarc). twarc.py --hydrate MakeDonaldDrumpfAgain-tweet-ids.txt > MakeDonaldDrumpfAgain.json. Hydrating will recreat...Continue [+]
hdl:10864/11491
9 downloads
Last Released: Mar 4, 2016

#elxn42 tweets (42nd Canadian Federal Election)
by Ruest, Nick; Library and Archives Canada
Description: Tweet ids for #elxn42 tweets. Tweets can be "hydrated" with Ed Summers' twarc (https://github.com/edsu/twarc). twarc.py --hydrate elxn42-tweet-ids.txt > elxn42-tweets.json. Hydrating will recreate the original tweet(s) in json format, prov...Continue [+]
hdl:10864/11311
11 downloads
Last Released: Jan 26, 2016

#paris #Bataclan #parisattacks #porteouverte tweets
by Ruest, Nick
Description: Description Tweet ids for #paris #Bataclan #parisattacks #porteouverte tweets. Tweets can be "hydrated" with Ed Summers' twarc (https://github.com/edsu/twarc). twarc.py --hydrate paris-tweet-ids.txt > paris-tweets.json. Hydrating will recr...Continue [+]
hdl:10864/11312
16 downloads
Last Released: Dec 15, 2015

Derivative data for the Canadian Political Parties and Interest Groups collection
by Milligan, Ian; Ruest, Nick; Lin, Jimmy
Description: This contains derivative data for the Canadian Political Parties and Interest Groups collection. If you cite this material, please use: University of Toronto Libraries, Canadian Political Parties and Interest Groups, Archive-It Collection ...Continue [+]
hdl:10864/11301
8 downloads
Last Released: Dec 12, 2015

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

By Napalm filled tires (Wu Tang Clan)
[CC BY-SA 2.0 (http://creativecommons.org/licenses/by-sa/2.0)], via Wikimedia Commons

Contact

Nick Ruest: @ruebot

ruestn@yorku.ca

Ian Milligan: @ianmilligan1

i2milligan@uwaterloo.ca