



From Seed to Harvest: Web Archiving Program Considerations for SUL

Nicholas Taylor
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[Stanford University Libraries](#)
April 17, 2013

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hello, my name is Nicholas...



Library of Congress Web Archiving

The Library of Congress >> More Online Collections

Library of Congress Web Archives *Minerva*

BROWSE | SEARCH | TECHNICAL INFORMATION

[LC Web Archives](#)

Web Archives Available:

- [Crisis in Darfur, Sudan, Web Archive, 2006](#)
- [Indian General Elections 2009 Web Archive](#)
- [Indonesian General Elections 2009 Web Archive](#)
- [Iraq War 2003 Web Archive](#)
- [Law Library Legal Blawgs Web Archive](#)
- [Library of Congress Manuscript Division Archive of Organizational Web Sites](#)
- [Papal Transition 2005 Web Archive](#)
- [September 11, 2001 Web Archive](#)
- [Single Sites Web Archive](#)
- [United States 107th Congress Web Archive](#)
- [United States 108th Congress Web Archive](#)
- [United States Election 2000 Web Archive](#)
- [United States Election 2002 Web Archive](#)
- [United States Election 2004 Web Archive](#)
- [United States Election 2006 Web Archive](#)
- [United States Election 2008 Web Archive](#)
- [Visual Image Web Sites Archive](#)



The Library of Congress Web Archives (LCWA) is composed of collections of archived web sites selected by subject specialists to represent web-based information on a designated topic. It is part of a continuing effort by the Library to evaluate, select, collect, catalog, provide access to, and preserve digital materials for future generations of researchers. The early development project for Web archives was called MINERVA.

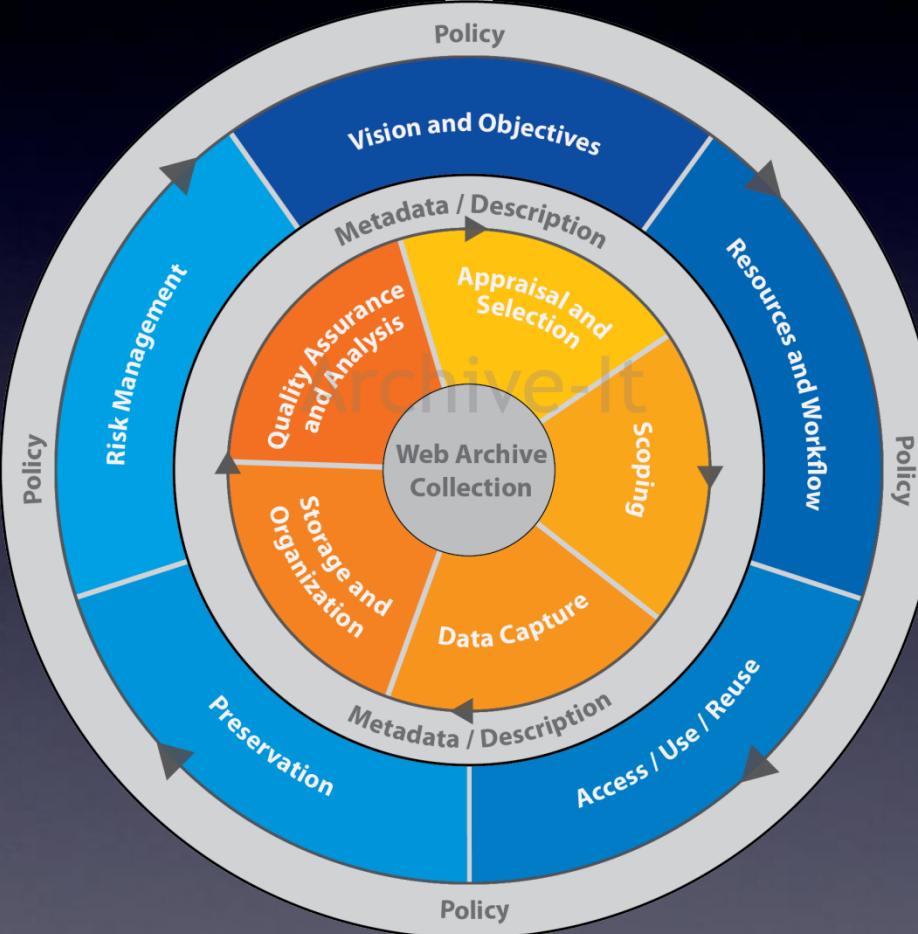
[LC Web Archives](#)

The Library of Congress >> More Online Collections
August 5, 2011

Contact Us

Library of Congress: "MINERVA"gal

Web Archiving Life Cycle Model



"[Web Archiving Life Cycle Model](#)" by M. Bragg, K. Hanna, et al. (2013). Reproduced with permission.

Web Archiving Life Cycle Model

Program Elements

- Vision and Objectives
- Resources and Workflow
- Access / Use / Reuse
- Preservation
- Risk Management

Workflow Elements

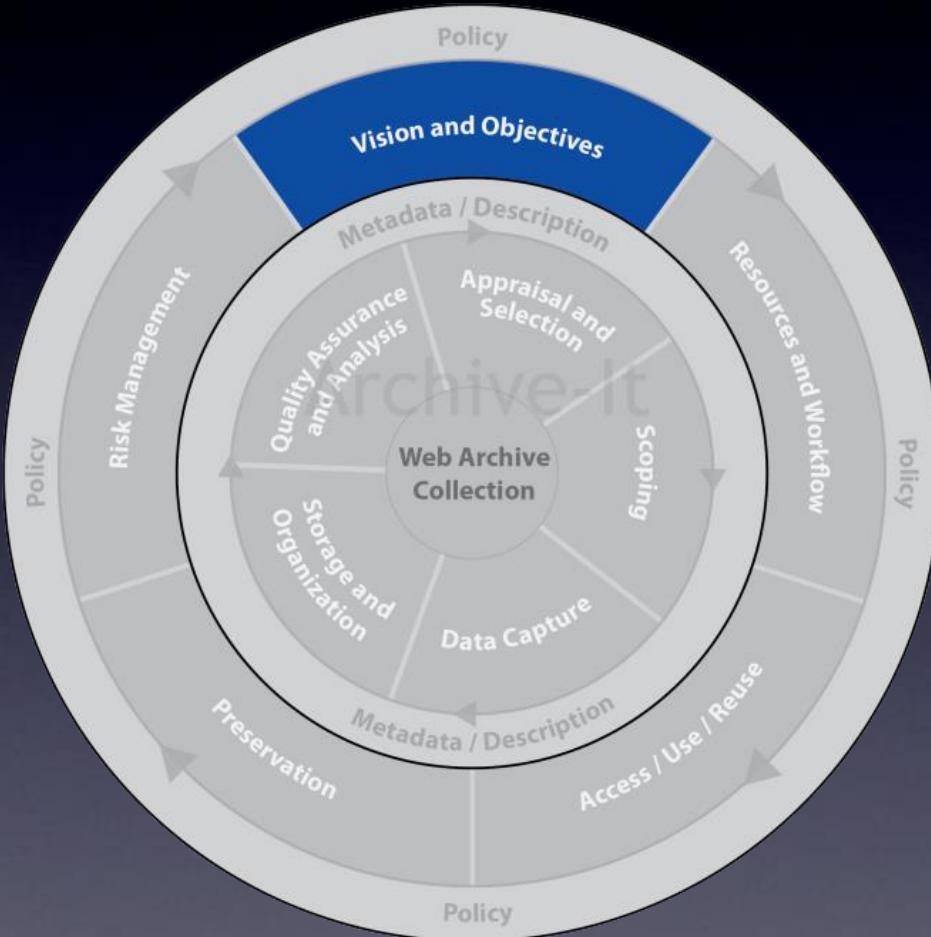
- Appraisal and Selection
- Scoping
- Data Capture
- Storage and Organization
- Quality Assurance and Analysis

The background of the slide features a vibrant, abstract design composed of numerous overlapping, rounded, and slightly wavy geometric shapes. These shapes are rendered in a variety of colors, including shades of blue, green, yellow, orange, red, and purple. The arrangement creates a sense of depth and movement, with some shapes appearing in the foreground and others receding into the background.

Web Archiving

PROGRAM ELEMENTS

Vision and Objectives



web archiving program vision



PASIG

ePADD Discovery Module



SUL mission

“The Stanford University Libraries (SUL) is more than a cluster of libraries; it connects people with information by providing diverse resources and services to the academic community.”

[SUL: “About The Stanford University Libraries”](#)

“Stanford University Libraries...develops and implements resources and services...that support research and instruction.”

[SUL: “SULAIR Brief Guide”](#)



[SUL: “Stanford University Libraries on Vimeo”](#)

DLSS mission

*“DLSS is the **information technology production** arm of the Stanford Libraries; it serves as the **digitization, digital preservation and access systems** provider for SUL; and it is the **research and development** unit for new technologies, standards and methodologies related to library systems.”*

[SUL: “SULAIR Digital Library Systems and Services \(DLSS\)”](#)



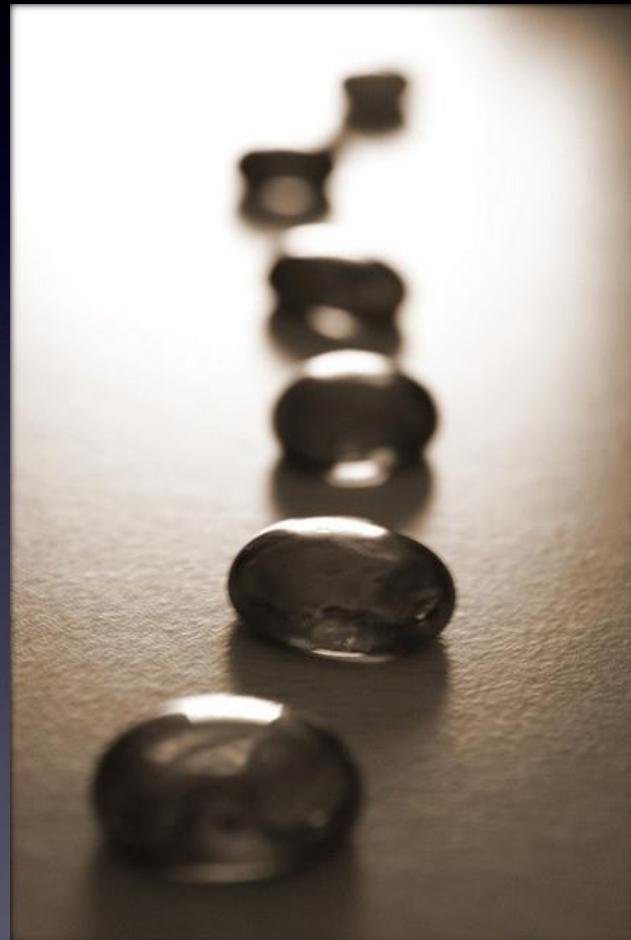
[SUL: “New Images of Rare Books and Digitization Devices”](#)

proposed program mission

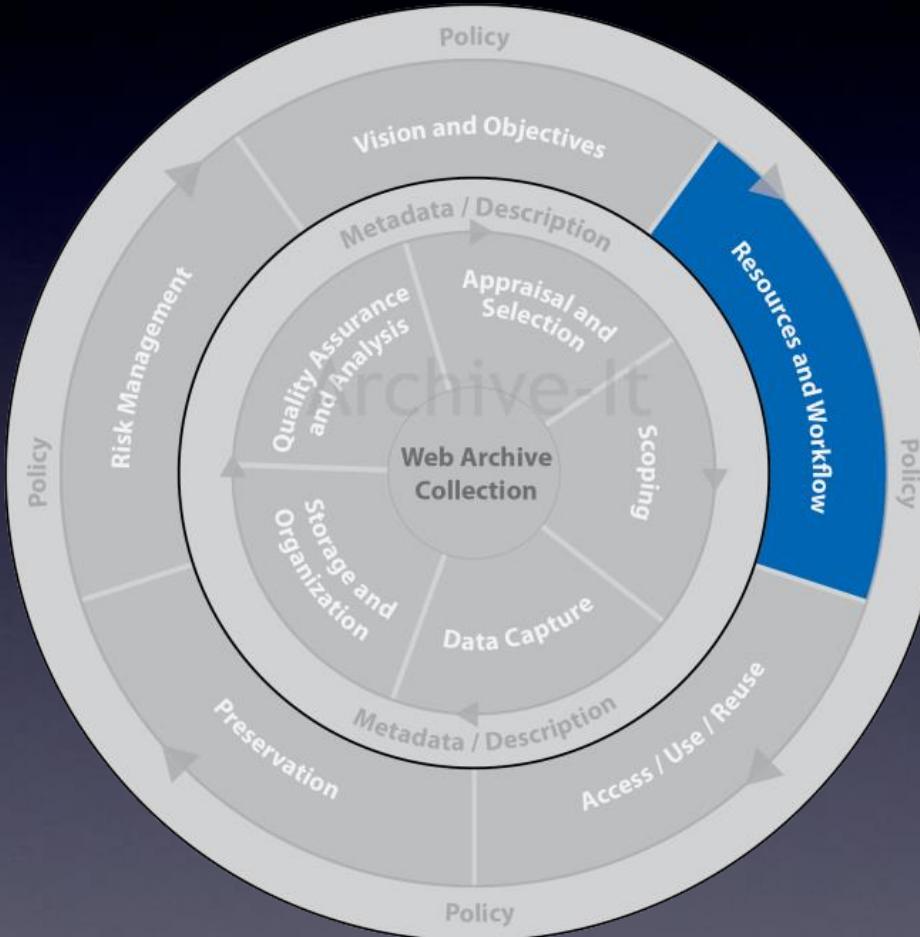
“The web archiving program will provide capabilities for the acquisition, preservation, and dissemination of resources that are increasingly and, often, exclusively accessible via the web that are necessary to support University research, instruction, and other purposes.”

objectives

- build infrastructure
- develop expertise
- create research collections
- archive records and deprecated content
- mirror government documents



Resources and Workflow



cost modeling



"dollar butterfly (2)" by Flickr user [eikosi](#) under [CC BY-SA 2.0](#)

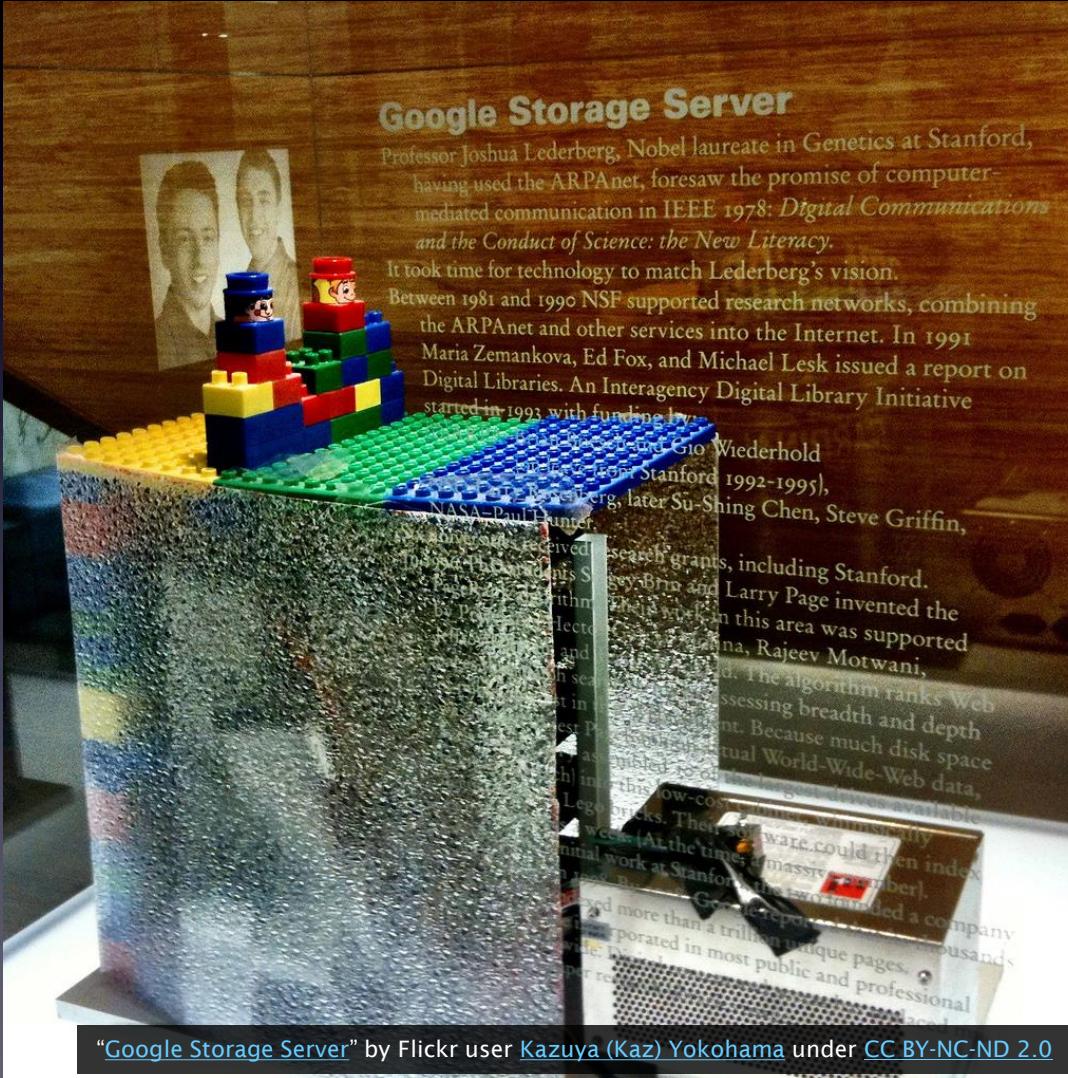
staffing

- service manager
- crawl engineer
- curators
- system administrators
- software engineers
- technical services
- legal counsel



"Digitizing Mark Adams cartoons" by Flickr user [suldpg](#) under CC BY-NC-SA 2.0

infrastructure



readily workflow-able

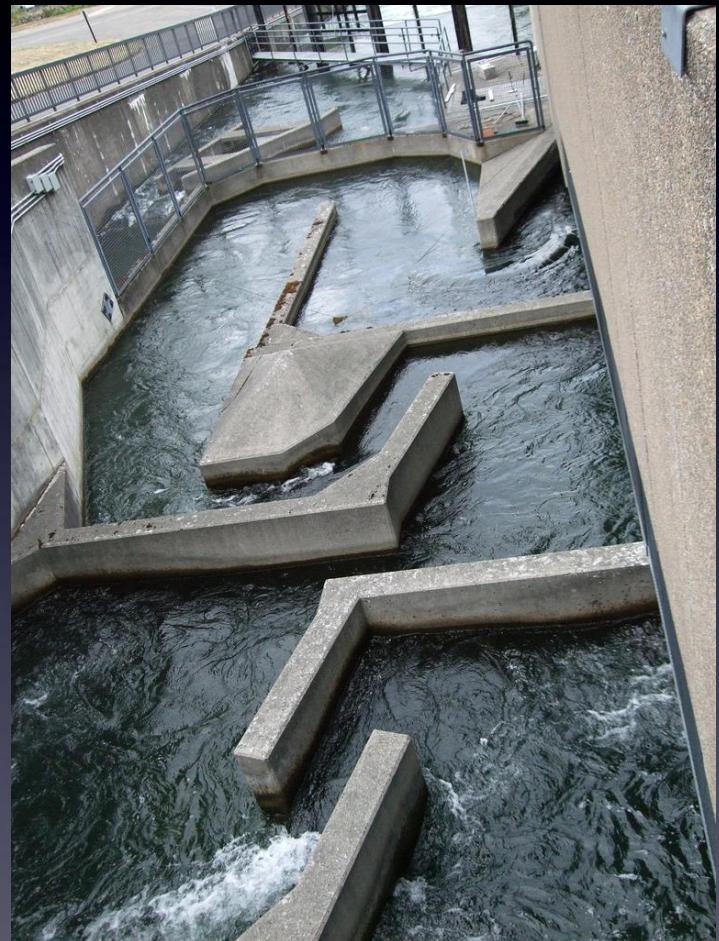
- collection management
- site nomination
- permissions tracking
- crawl scheduling
- data capture
- quality assurance



["Web Curator Tool User Manual Version 1.5.2"](#)

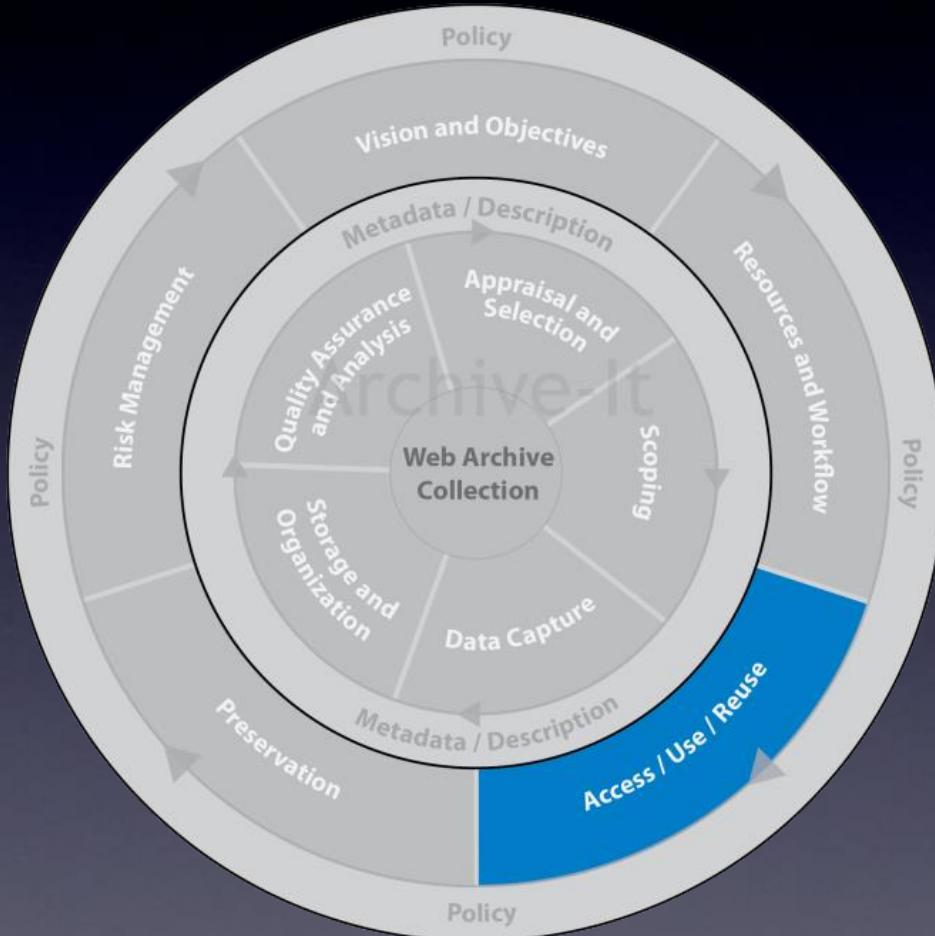
workflow challenges

- test crawling
- automated QA
- AIP/DIP generation
- SDR ingest
- indexing
- enabling access
- tools testing



[“Salmon Ladder at Bonneville Dam”](#) by Flickr user [Serolynne](#) under CC BY-NC-ND 2.0

Access / Use / Reuse



access policy

- dark archive
- data redistribution
- embargo
- onsite/offsite replay
- takedown requests



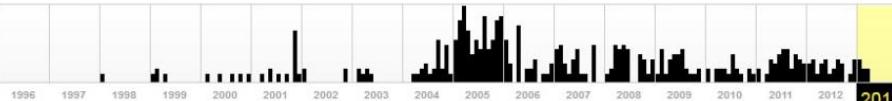
[“DO NOT DUPLICATE”](#) by Flickr user [Sam UL](#) under [CC BY-NC-SA 2.0](#)

browse and API: Wayback

INTERNET ARCHIVE
Wayback Machine

<http://library.stanford.edu/> Go Wayback!

<http://library.stanford.edu/> has been crawled 460 times going all the way back to [January 11, 1998](#).
A crawl can be a duplicate of the last one. It happens about 25% of the time across 420,000,000 websites. [FAQ](#)



1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

JAN					FEB					MAR					APR													
1	2	3	4	5		1	2		1	2	3	4	5	6														
6	7	8	9	10	11	12		3	4	5	6	7	8	9	3	4	5	6	7	8	9	10	11	12	13			
13	14	15	16	17	18	19	10	11	12	13	14	15	16		10	11	12	13	14	15	16	17	18	19	20			
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27	28	29	30	31		24	25	26	27	28		24	25	26	27	28	29	30		28	29	30						
														31														
MAY					JUN					JUL					AUG													
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12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17	
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24	
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SEP					OCT					NOV					DEC													
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8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14	
15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21	
22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28	
29	30						27	28	29	30	31		24	25	26	27	28	29	30	29	30	31						

Internet Archive: “Wayback Machine”

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<wayback>
  <request>
    <startdate>19910806145620</startdate>
    <numreturned>68</numreturned>
    <type>urlquery</type>
    <enddate>20130408222459</enddate>
    <numresults>68</numresults>
    <firstreturned>0</firstreturned>
    <url>bl.uk</url>
    <resultsrequested>10000</resultsrequested>
    <resulttype>resultstypecapture</resulttype>
  </request>
  <result>
    <compressedoffset>10813988</compressedoffset>
    <mimetype>text/html</mimetype>
    <file>
      /data/102148/31031347/WARCS/BL-31031347.warc.gz?user.name=hadoop& bogus=.warc.gz
    </file>
    <redirecturl></redirecturl>
    <urllkey>bl.uk</urllkey>
    <digest>JN4RHYNLNGS7X64HADIX3XHDIMYDBLAAW</digest>
    <httpresponsecode>200</httpresponsecode>
    <robotflag></robotflag>
    <url>http://www.bl.uk</url>
    <capturedate>20011030000019</capturedate>
  </result>
  <result>
    <compressedoffset>769</compressedoffset>
    <mimetype>text/html</mimetype>
    <file>
      /data/102148/31031348/WARCS/BL-31031348.warc.gz?user.name=hadoop& bogus=.warc.gz
    </file>
    <redirecturl></redirecturl>
    <urllkey>bl.uk</urllkey>
    <digest>KSVRQOKNUEF2GYQVENQ6RZJSXDAGLXQM</digest>
    <httpresponsecode>200</httpresponsecode>
    <robotflag></robotflag>
    <url>http://www.bl.uk</url>
    <capturedate>2001113000000</capturedate>
  </result>
```

UK Web Archive: “Wayback Machine”

many Wayback Machines

Create account  Log in

Article Talk Read Edit View history Search

List of Web archiving initiatives

From Wikipedia, the free encyclopedia

This article uses bare URLs for citations. Please consider adding full citations so that the article remains verifiable. Several templates and the Reflinks tool are available to assist in formatting. (Reflinks documentation) (February 2012)

This page contains a list of Web archiving initiatives worldwide. For easier reading, the information is divided in three tables: web archiving initiatives, archived data and access methods.

This Wikipedia page was originally generated from the results obtained for the research paper *A survey on web archiving initiatives*^[1] published by the Portuguese Web Archive^[2] team.

Contents [hide]

- 1 Web archiving initiatives
- 2 Archived data
- 3 Access methods
- 4 References

Map of Web archiving initiatives worldwide in March, 2012.

Web archiving initiatives

[edit]

Name	Country	Creation Year	Technologies	Number of Employees		Comments
				Full-time	Part-time	
Australia's Web Archive ^[3]	Australia	1996	PANDORA Digital Archiving System (PANDAS), NLA Trove, HTTrack.	10	>5	The PANDORA Archive which takes a selective approach is a collaborative program of 11 agencies that provide an estimate average monthly staffing equivalent to around 10 FTE. IT support provided by the NLA: 0.25 person-month. Whole .au domain harvests have been conducted annually since 2005 in collaboration with the Internet Archive using Heritrix, Wayback Machine.
Our digital island, a Tasmanian Web Archive ^[4]	Australia	1996	HTTrack, Experimentally: Web Curator, Heritrix and Wayback Machine		1	
PageFreezer's Deep	Canada, US		PageFreezer's Deep			Enterprise Class. Wikipedia: "List of Web archiving initiatives" blogs, Ajax, Flash, video, audio & social media for litigation protection.

discovery: Memento

The screenshot shows a Wikipedia article titled "List of Web archiving initiatives". The page content includes a sidebar with navigation links like "Main page", "Contents", and "Interaction". The main content area features a map titled "Map of Web archiving initiatives worldwide in March, 2012", showing green dots representing active initiatives across continents. A sidebar on the right lists "Web archiving initiatives" with sections for "Name", "Country", and "Comments". Two specific entries are visible: "Australia's Web Archive" and "Our digital island, a Tasmanian Web Archive". The "memento" logo, which is a stylized keyhole or circular seal, is prominently displayed in the center of the image.

Article Talk Read Edit View history Search

List of Web archiving initiatives

From Wikipedia, the free encyclopedia

This article uses [beta templates](#) and the [MediaWiki extension](#) so that the article remains verifiable. Several [changes](#) have been made since its last [archived version](#) (February 2012).

This page contains a list of Web archiving initiatives, archived data and access methods.

This Wikipedia page was originally generated by the Portuguese Web Archive [2].

Contents [hide]

- 1 Web archiving initiatives
- 2 Archived data
- 3 Access methods
- 4 References

Web archiving initiatives

Name	Country	Comments
Australia's Web Archive ^[3]	Australia	The Australia's Web Archive which takes a selective approach is a program of 11 agencies that provide an estimate average staffing equivalent to around 10 FTE. IT support provided by the Commonwealth Government is approximately 0.25 person-month. Whole .au domain harvests have been conducted annually since 2005 in collaboration with the Internet Archive using Heritrix, Wayback Machine.
Our digital island, a Tasmanian Web Archive ^[4]	Australia	1996 HTTrack, Experimentally: Web Curator, Heritrix and Wayback Machine
	Canada, US	PageFreezer's Deep

Map of Web archiving initiatives worldwide in March, 2012.

Create account Log in

discovery: SearchWorks

STANFORD UNIVERSITY LIBRARIES MY ACCOUNT FEEDBACK ASK US

SearchWorks SearchWorks Help | Advanced search

Your Search: "web archive" Selected items (none)

Start Over Sort by relevance ▾ 20 per page Select 20

< Previous | 1 – 20 of 86 | Next >

Limit your results

Access
Online (68)
At the Library (42)

Format
Book (43)
Journal/Periodical (23)
Database (9)
Conference Proceedings (6)
Other (4)
Video (3)
Manuscript/Archive (2)
Microformat (2)
Computer File (1)

Author
Publication Year
Topic
Location
Call Number
Organization (as Author)
Region
Language

1. Web archiving

Published: 2006
At the Library: ✓ Green » Stacks » (No call number)
Online: www.springerlink.com + 2 more sources
Format: Book

2. California State Government [electronic resource] : ca.gov web archive

Search database: webarchives.cdlib.org
Subjects: Government Information: United States
Summary:
The ca.gov domain is the 3rd largest domain in the U.S. government web. A great deal of that content is published by the State of California, and represents a rich source of material for researchers, students, the general public and state agencies themselves. This archive preserves access to hundreds of state agency sites that are captured on a regular basis. State agencies utilize their websites to publish everything from press releases, agendas, minutes, events, reports and statistics. This material is especially volatile as leadership changes or as time sensitive issues are no longer on agendas or in the news. This information while not distributed in print still holds immense social and research value, which as memory institutions have an obligation to collect and preserve. By collecting and preserving this information, the study of issues in California, the world's fourth largest economy, will be greatly enhanced. The archive is maintained by government information specialists across several UC campuses and the Stanford University Libraries with support from the California Digital Library.
[hide summary](#)

Corporate Author: California Digital Library.

3. Archiving websites : a practical guide for information management professionals

Author/Creator: Brown, Adrian, 1969-
Published: 2006
At the Library: ○ SAL3 » Stacks » Z701.3 .W43 B76 2006
Format: Book



< Previous 1 2 3 4 5 Next >

SUL: "SearchWorks"

full-text search: Solr

 ARCHIVE-IT

HOME EXPLORE LEARN MORE CONTACT US

A web archiving service
to harvest and preserve digital collections
a service of the Internet Archive

Login 



Explore All Archives

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

Contains **any** of:

Contains **all** of:

Exact phrase:

Not containing:

From the Host:

Results per host:

File format:

Capture date range:

The following results were found for the term(s): **california**

- 3 Collecting Organizations were found.
- 20 Collections were found.
- 408 Sites were found.
- 139939749 result(s) for **california** within the page text.

[Collecting Organizations](#) [Collections](#) [Sites](#) [Search Page Text](#)

Page 1 of 6,996,988 (139,939,749 Total Results) [Next Page ►](#)

Sort By: [Best Match](#)

California

Collection: Hurricane Sandy (October 2012) By Virginia Tech: Crisis, Tragedy, and Recovery Network
URL: <http://wn.com/California>

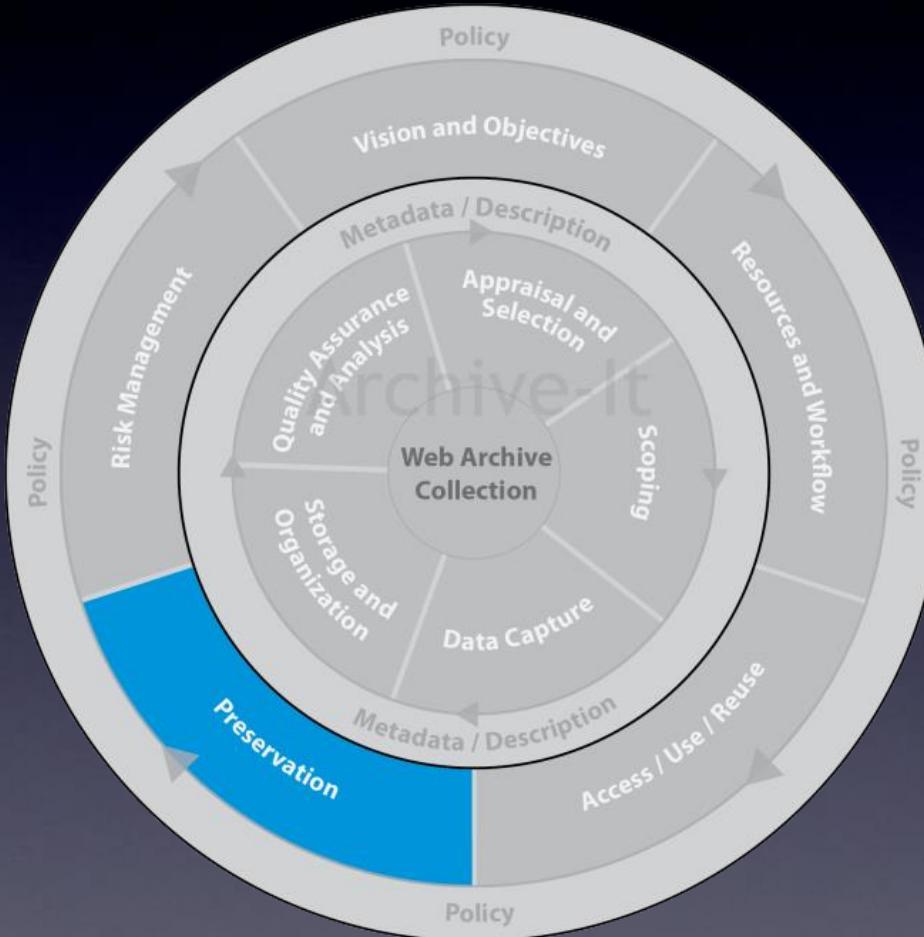
This text was captured on Oct 29, 2012 [Show All Captures](#)

California Monday, 29 October 2012 Arabic Bengali Bulgarian Chinese Dutch English Finnish French... Spanish Tagalog Tamil Telugu Urdu Visayan upload Login Edit Wn.com/[california](#)

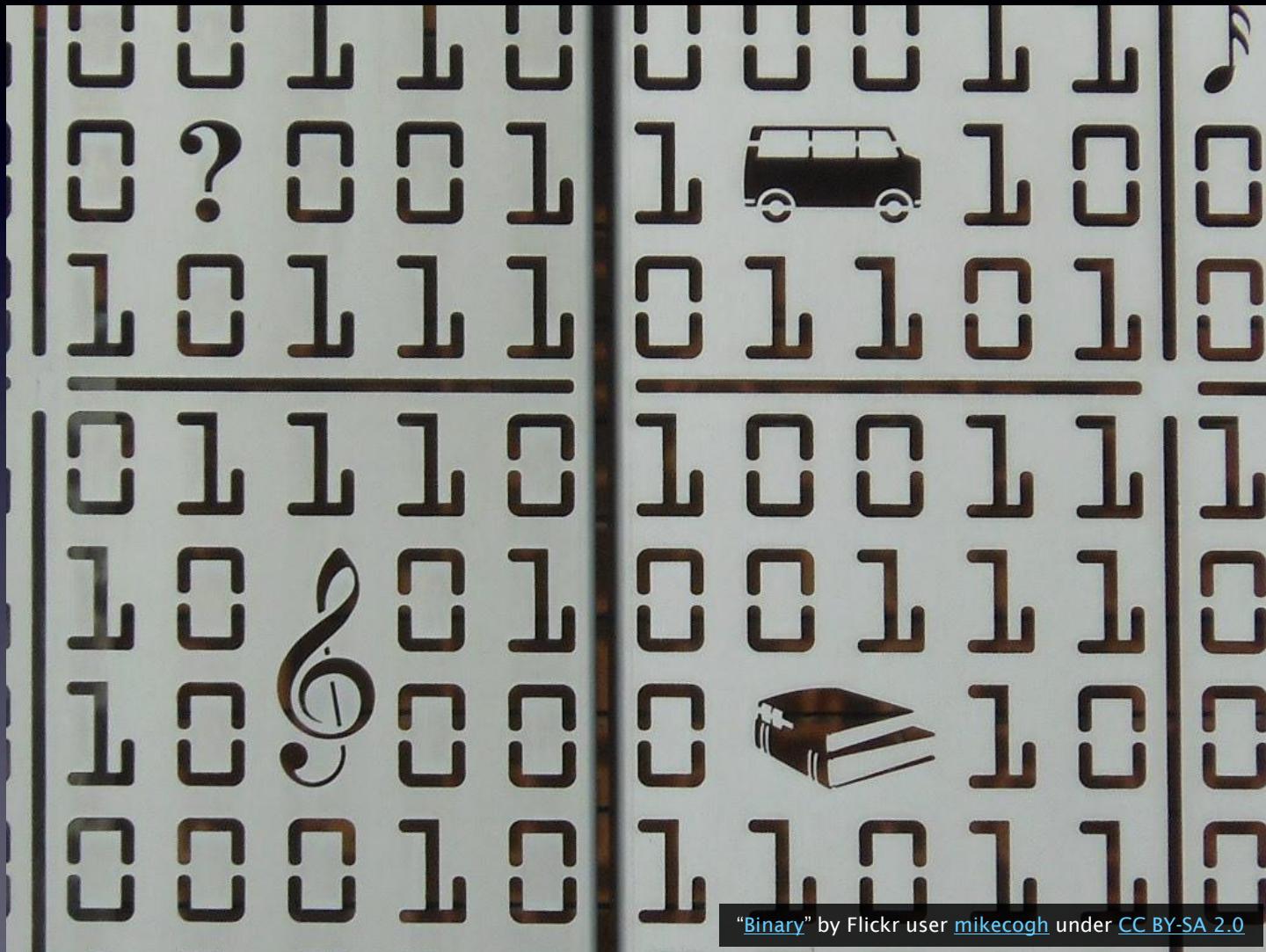
California Tweet sms... Results Shopping Travel Booking California The Holidays Katy Perry Snoop Dogg Related News Top Headlines French German Hindi Indonesian Italian Persian Portuguese Russian Spanish California [california](#)... Adaptive radiation Alabama Alaska Alien (law) Alta California Amadis de Gaula Amargosa vole Amazons... American philosophy American Revolution American Samoa Americans Amtrak California Anaheim Ducks Anaheim, California Anaheim, California Antelope Valley Anti-Americanism Appalachia Arbutus Arcata, California... Azalea Bathwater Basin

Archive-It: "Explore All Archives"

Preservation



bit preservation



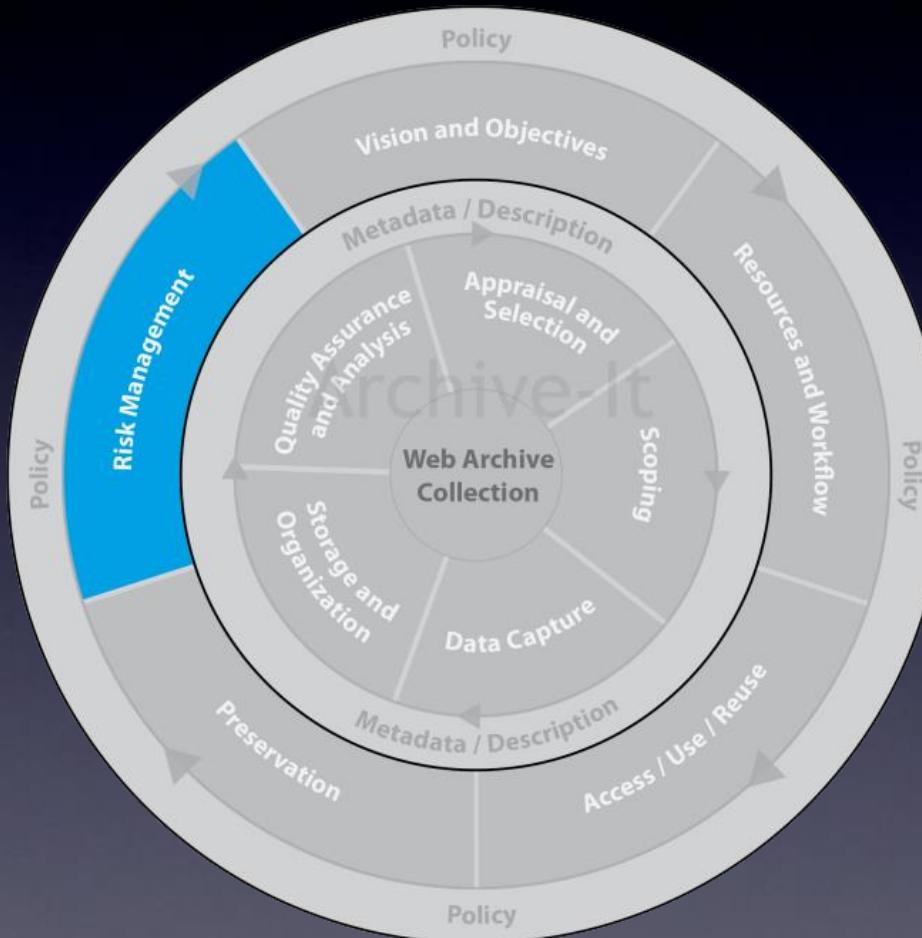
["Binary"](#) by Flickr user [mikecogh](#) under [CC BY-SA 2.0](#)

preservation engineering



[“Máquina de Rube Goldberg en la base del Alinghi”](#) by Flickr user [freshwater2006](#) under [CC BY-NC 2.0](#)

Risk Management



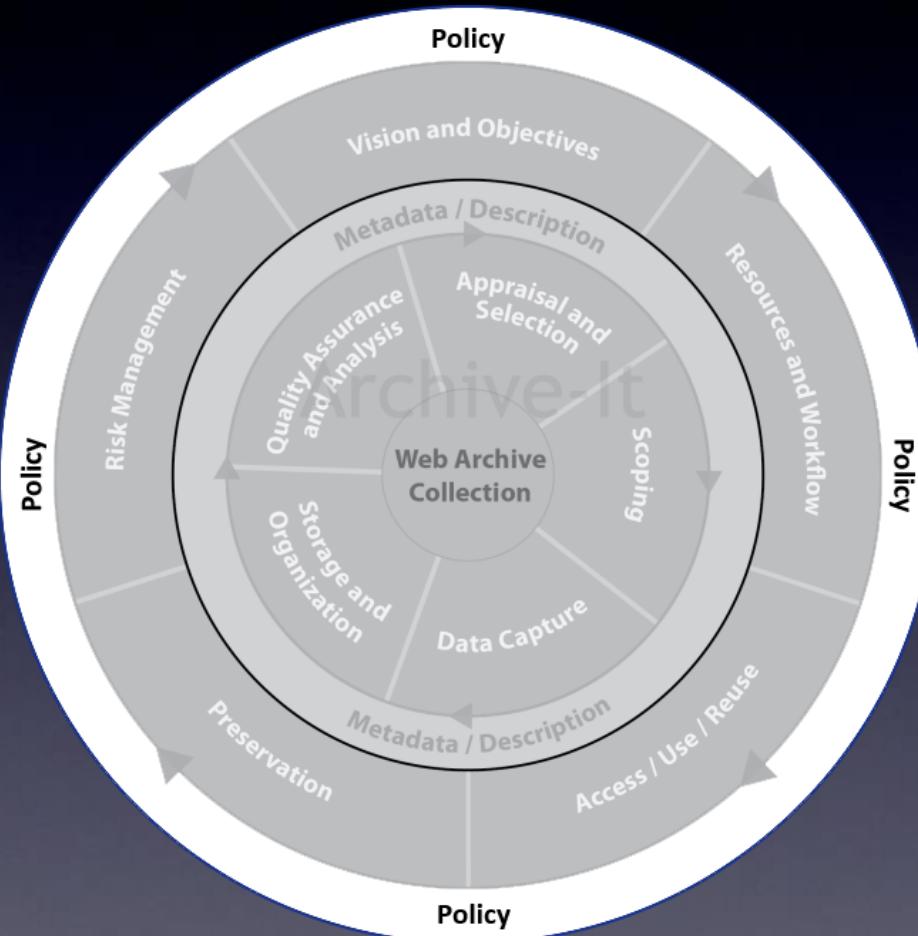
Risk Management

- “appified” web
- copyright
- ephemeral web
- financial sustainability
- fostering use



[“Zombie Awareness - Extinguisher”](#) by Flickr user [Spiffy0777](#) under CC BY-NC-SA 2.0

Policy



copyright

- § 108 (library exceptions)
- fair use
- notification vs. permission
- opt-out / takedown
- robots.txt
- third-party sites
- exceptions?



"Noria con Copyrights" by Flickr user [Alex Novoa](#) under CC BY-NC-ND 2.0

collection development

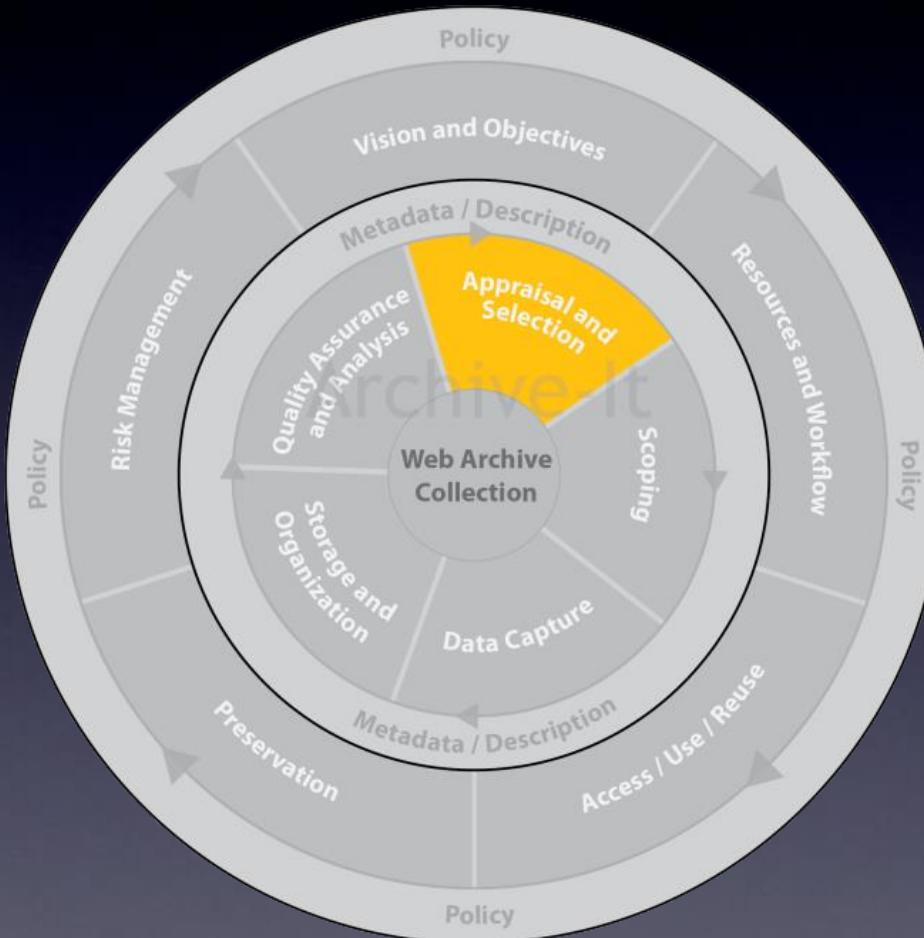


["leaf-cutter ants"](#) by Flickr user [Vileskogen](#) under [CC BY-NC-SA 2.0](#)

Web Archiving

WORKFLOW ELEMENTS

Appraisal and Selection



informing selection

- value
- risk
- size
- extent to which archived



"Fruit market-Barcelona" by Flickr user [Marcel Theisen](#) under [CC BY-NC-SA 2.0](#)

TwitterVane

TwitterVane

Crowd sourcing for Web Archiving

[Home](#) | [About](#)

[Collections](#) [Reports](#) [Streamed Tweets](#) [Help](#)

Welcome

Selection of web archive is a manual process that relies upon people to select quality sites and nominate or submit them to web archives for inclusion. Past (national and/or international) efforts to automate selection have either failed to convince staff that automation was identifying quality resources, or have focused on providing an interface for selectors to submit sites rather than carry out the selection per se. Selection has thus remained, for most institutions, an element of the workflow wholly dependent on contributions from externals. The number of selectors providing sites is typically small and their contributions are inevitably subjective. The resulting collections, whilst immensely valuable, are therefore mostly representative of the expertly selected sites and do not fully represent the sites frequently used in a more social setting.

Crowd sourcing is an opportunity to develop a new approach to this problem. It taps into the growth of social networks to outsource tasks typically performed by an employee or contractor, to an undefined, large group of people or community (a "crowd") (Wikipedia, 2011). It is a particularly attractive option in the current economic climate, where we are all being asked to 'do more with less'. A number of cultural heritage institutions and/or projects have already begun to leverage the power of the crowd for digitised collections, including the National Library of Australia (through Trove), the Transcribe Bentham project at ULCC, and the National Library of Finland (through the DigitalKoot program). No such projects have yet been launched for web archives.

This project will develop an automated approach to selection for web archiving based on the principles of crowd sourcing. It has been awarded partial funding from the International Internet Preservation Consortium and supports the forthcoming web archiving strategy by increasing the number of selections and automating the selection process.

[Home](#)

UK Web Archive: "TwitterVane"

Links

[Twitter API](#)
[UK Web Archive](#)

Sponsors

[IIPC](#)

Wikipedia Live Monitor

Wikipedia Live Monitor

[Read the paper](#) [Settings](#)

Articles Edited Right Now:

Article Clusters Repeatedly Edited In Short Intervals:

None yet.
[Monitoring...](#)

Merging Right Now:

None yet.
[Monitoring...](#)

Breaking News Candidate Article Clusters Right Now:

None yet.
[Monitoring...](#)

Proudly Developed In Europe By Thomas Steiner (tomas@tomassteiner.com)
It's Open Source and [Apache 2.0](#) Licensed ([Fork This Project On GitHub](#))

Wikipedia articles

Create account  Log in

Article Talk Read Edit View history Search 

List of think tanks in the United States

From Wikipedia, the free encyclopedia

This is a list of **think tanks** in the **United States**.

This is an [incomplete list](#), which may never be able to satisfy particular standards for completeness. You can help by [expanding it](#) with reliably sourced entries.

A–M [edit]

- Acton Institute
- Alexis de Tocqueville Institution
- Allegheny Institute for Public Policy
- American Action Forum
- American Civil Rights Union
- [American Consumer Institute](#)
- American Enterprise Institute
- American Foreign Policy Council
- American Institute for Economic Research
- American–Iranian Council
- American Israel Public Affairs Committee
- American Security Council Foundation
- Americans for the Arts
- Analysis Group
- Askew Institute on Politics and Society
- Aspen Institute
- Atlantic Council
- Council on Foreign Relations
- Council on Hemispheric Affairs
- Demos
- Discovery Institute
- Drum Major Institute
- EastWest Institute
- Economic Opportunity Institute
- Economic Policy Institute
- [Economic Research Institute](#)
- Employment Policies Institute
- Freund Scholarly Research Group
- Foreign Policy Research Institute
- Foundation for Economic Education
- Foundation for Excellence in Education
- Foundation for Rational Economics and Education
- Fusion Energy Foundation
- Future of [Wikipedia](#): "List of think tanks in the United States"
- General Electric Edsel Club

UNT Nomination Tool

Nomination Tool

Home About This Tool Help

Active Projects

End of Term 2012 - Bulk Lists
Papal Transition 2013

Past Projects

Election 2012 Collaborative Web Archive Collection
End of Term Presidential Harvest 2008
End of Term Presidential Harvest 2012
Gulf Oil Spill
Olympics 2010
Olympics 2012
Paralympics 2012
Resignation of Gretchen Bataille
Václav Havel

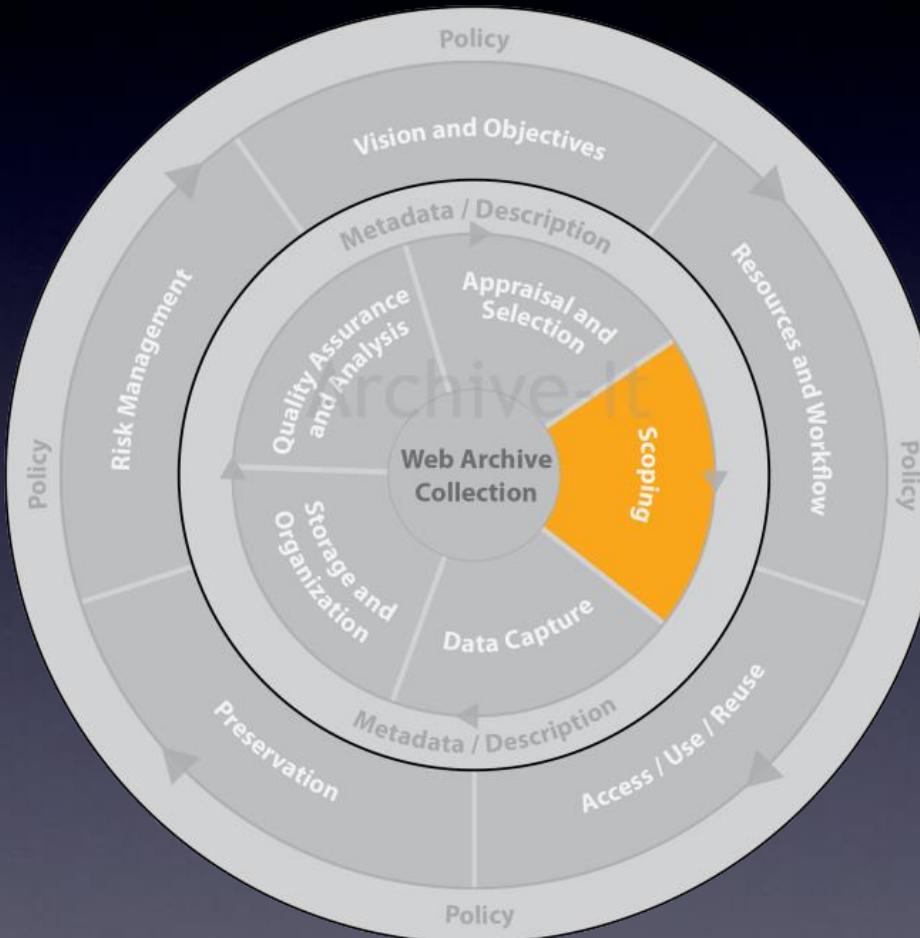
Request a Project

If you would like to start a Nomination project, please send an email to lko@unt.edu to initiate the setup process.

Hosted by The University of North Texas Libraries
UNT and State of Texas: UNT | UNT Search | UNT News and Events | State of Texas | State-wide Search
Policies: UNT Web Accessibility | Privacy | AAI & COPARTA | Data Use Statement | Disclaimer

University of North Texas Libraries: "Nomination Tool"

Scoping

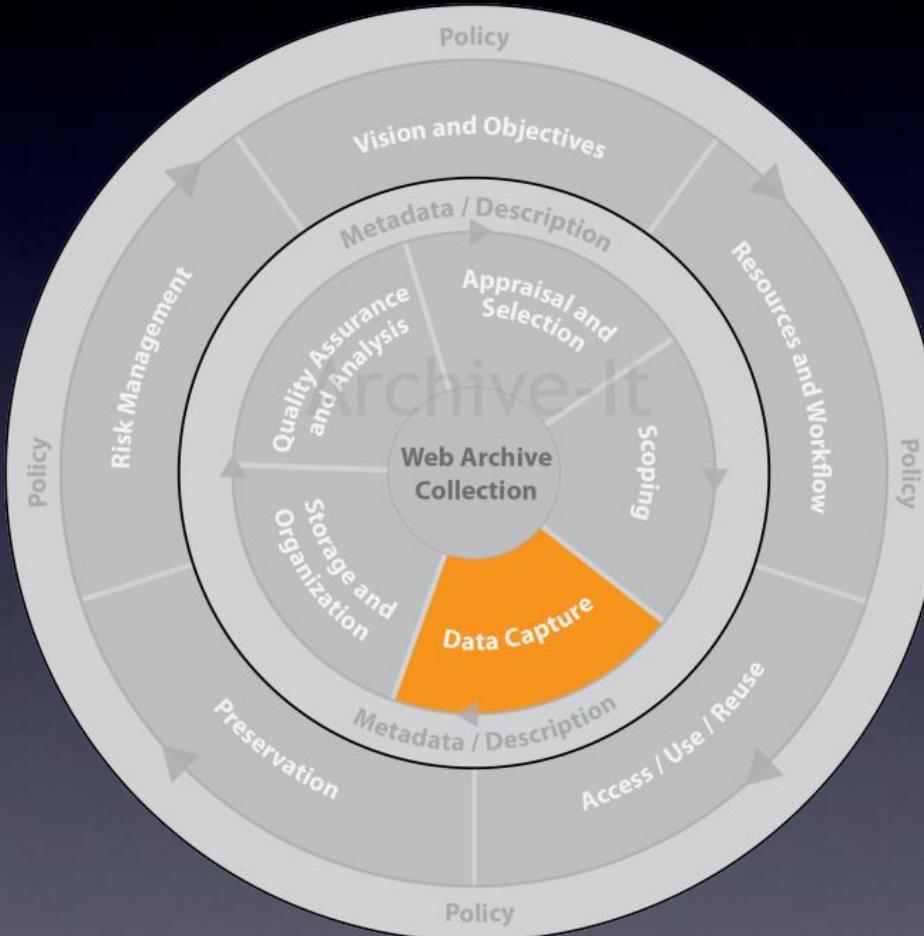


the purpose of scoping



"More god?" by Flickr user [one two one three](#) under [CC BY-NC-SA 2.0](#)

Data Capture



Heritrix

Heritrix Engine 3.1.1-SNAPSHOT-20091210.080025

Memory: 14695 KiB used; 82496 KiB current heap; 258048 KiB max heap

Jobs Directory: [/Users/hstern/Downloads/t/heritrix-3.1.1-SNAPSHOT/jobs](#)

Job Directories (2) [rescan](#)

- [mynewjob](#) 0 launches
/jobs/mynewjob/crawler-beans.cxml
- [profile-defaults](#) (profile) 0 launches
/jobs/profile-defaults/profile-crawler-beans.cxml

Add Job Directory

Create new job directory with recommended starting configuration

Path: /Users/hstern/Downloads/t/heritrix-3.1.1-SNAPSHOT/jobs/

Specify a path to a pre-existing job directory

Path: [add](#)

You may also compose or copy a valid job directory into the main jobs director button above to make it appear in this interface. Or, use the 'copy' functionality page.

mynewjob – Active: RUNNING – Job main page

mynewjob – Active: RUNNING – Job main page

Job **mynewjob** (1 launches, last 1m28s ago)

[build](#) [launch](#) [pause](#) [unpause](#) [checkpoint](#) [terminate](#) [teardown](#)

configuration: [/jobs/mynewjob/crawler-beans.cxml](#) [edit]

Job Log ([more](#))

```
2009-12-10T09:20:34.546-08:00 INFO RUNNING
2009-12-10T09:19:06.781-08:00 INFO PAUSED
2009-12-10T09:19:06.621-08:00 INFO PREPARING
2009-12-10T09:19:06.155-08:00 INFO Job launched
2009-12-10T09:17:22.829-08:00 INFO Job instantiated
```

Job is Active: RUNNING

Totals

0 downloaded + 1 queued = 2 total
0 B crawled (0 B novel, 0 B dup-by-hash, 0 B not-modified)

Alerts

none

Rates

0 URIs/sec (0 avg); 0 KB/sec (0 avg)

Load

1 active of 25 threads; 1 congestion ratio; 1 deepest queue; 1 average depth

Elapsed

other data capture tools

```
src/wget "http://www.archiveteam.org/" --mirror --warc-file="at"
```

Archive Team: "[Wget with WARC output](#)"

The screenshot shows a desktop environment with two windows open. On the left, there is a window titled "gwu libraries - social feed manager" which displays a table of users and their item counts. On the right, there is a window titled "Web Archiving Integration Layer" which has a URL input field containing "http://matkelly.com" and three buttons: "Archive Now!", "Check Archived Status", and "View Archive".

users by item count

user	count	timeline (2012-01-01-2012-10-17)
ABC	3,481	
cnnpolitics	3,345	
BareckObama	3,337	
politicalicker	3,301	
CBSnews	3,273	
msnbc	3,268	
cnn	3,262	
ABCpolitics	3,259	
foxnews	3,251	
NBCpolitics	3,237	
DameLissa	3,233	
NBCNightlynews	3,231	
NBCFirstRead	3,231	
SenSanders	3,217	
SpeakerBoehner	3,211	
foxnewspolitics	3,208	
jasoninthehouse	3,200	

Web Archiving Integration Layer

Basic Advanced

URL:

[Dan Chudnov and Laura Wrubel: "social feed manager"](#)

[Mat Kelly: "WAIL"](#)

the elusive web



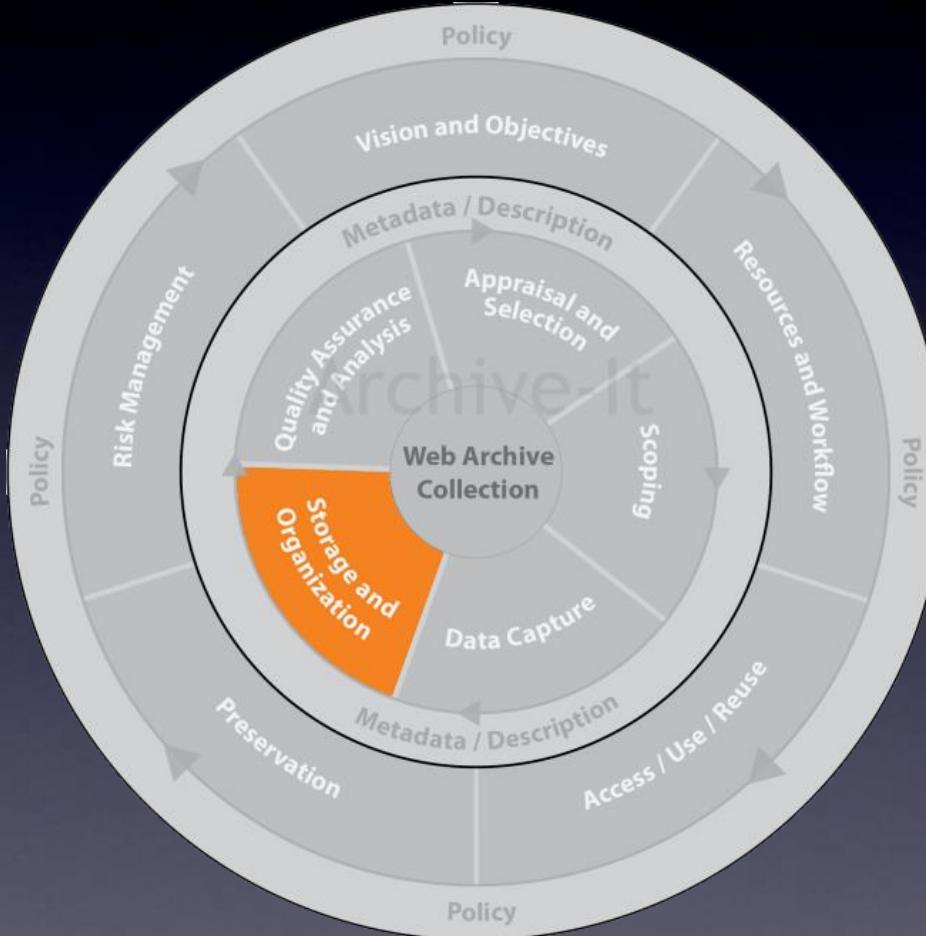
"Light Writing - Spider Web" by Flickr user [forcefeed:swede](#) under [CC BY-ND 2.0](#)

scale



[“chutes and ladders”](#) by Flickr user [reallyboring](#) under CC BY-NC-SA 2.0

Storage and Organization

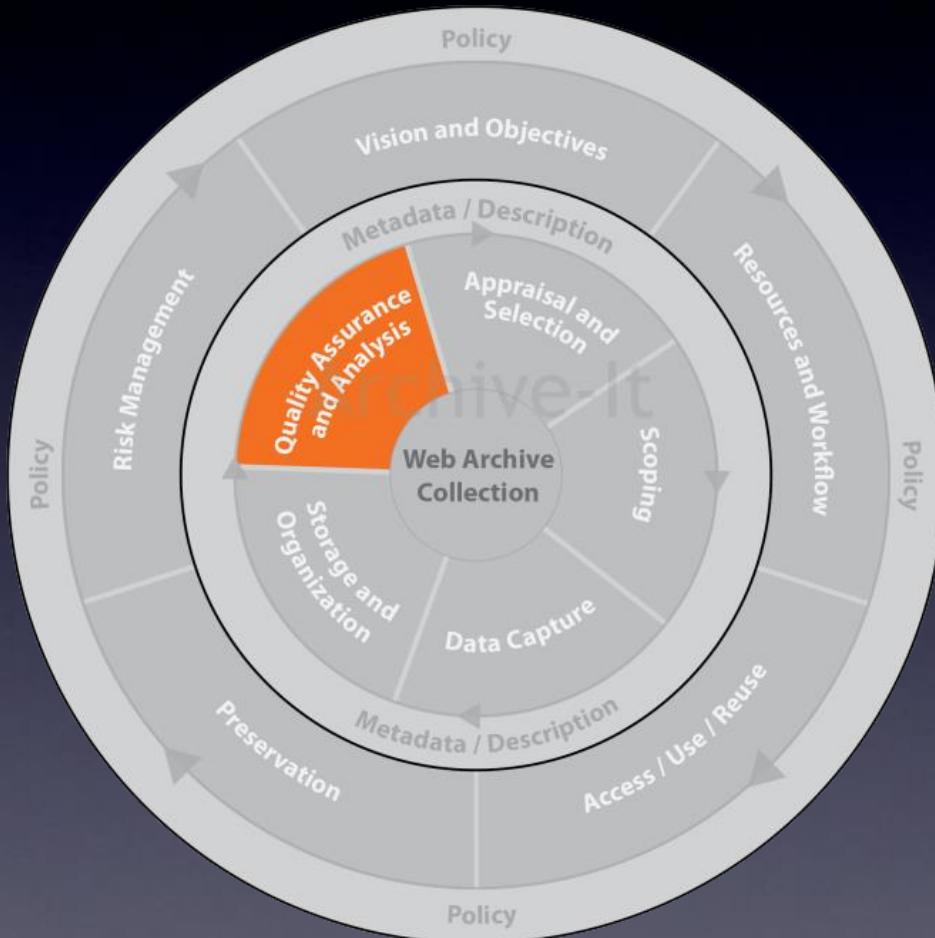


packages and their contents



["lots and lots and lots of boxes"](#) by Flickr user [Toastwife](#) under [CC BY-NC-SA 2.0](#)

Quality Assurance and Analysis

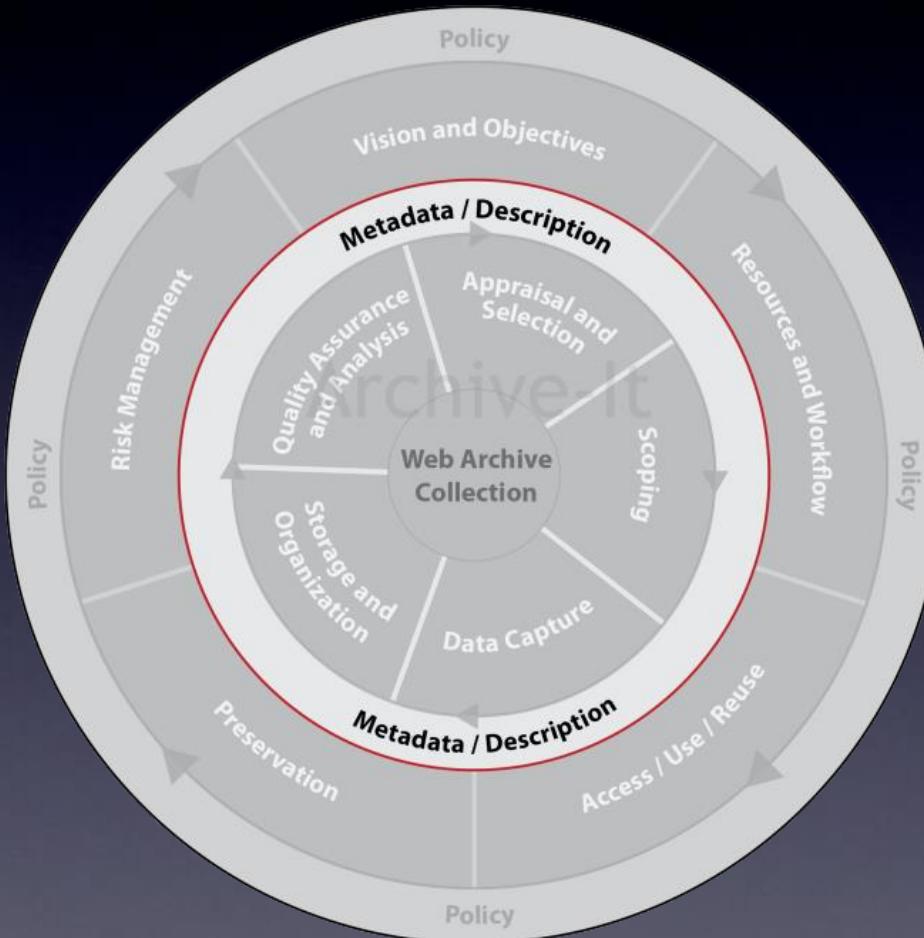


QA before, after, during



"Check" by Flickr user [ex.libris](#) under CC BY-NC-ND 2.0

Metadata / Description



Metadata / Description



"Hello! My URL Is..." by Flickr user [vasta](#) under [CC BY-NC-ND 2.0](#)

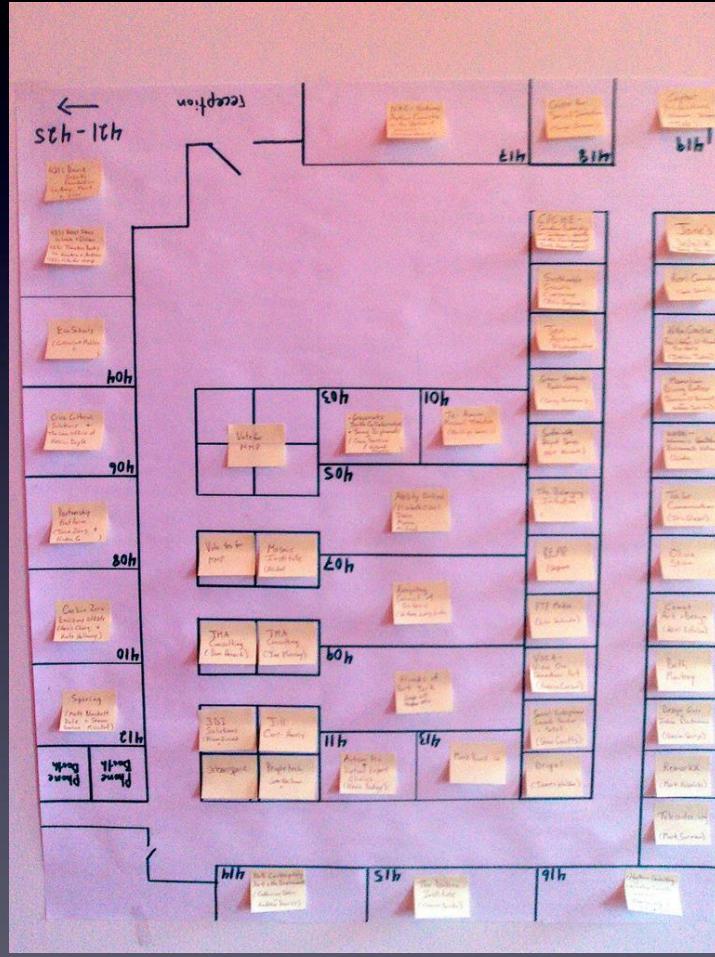


Considerations

BEYOND THE MODEL

other program requirements

- marketing/outreach
- performance metrics
- service level definitions
- service roadmap
- training
- user documentation



"Sticky notes" by Flickr user [Kris Krug](#) under [CC BY-SA 2.0](#)

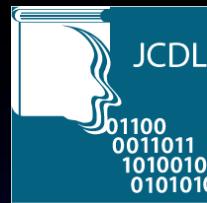
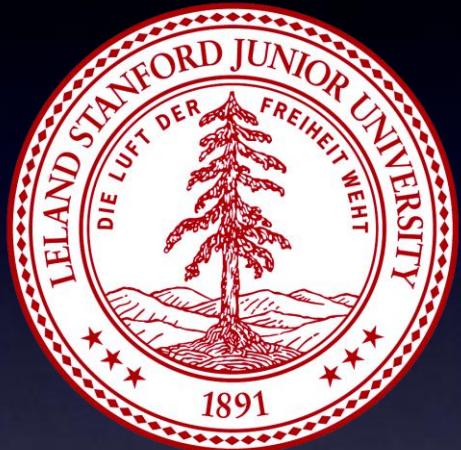
incorporating existing projects

- plan capacity
- normalize data
- ingest into SDR
- seek permissions
- process
- catalog
- enable access



[“Geckos” by Flickr user smashz under CC BY-NC-ND 2.0](#)

community engagement



INTERNATIONAL
INTERNET
PRESERVATION
CONSORTIUM



the web changes

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Internet Archive: "Wayback Machine"

THANK YOU

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