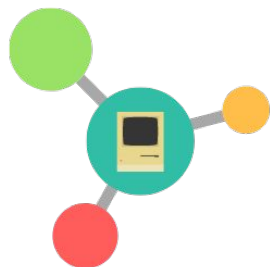


Sustainable Web Archiving at Scale: An Introduction



DPOE-N

Digital Preservation Outreach
& Education Network

June 21-22, 2021

Workshop Instructors



Sumitra Duncan



Amye McCarther

Agenda

Day 1: Intro to Web Archiving

Concepts, Policy and Practice:

- What is web archiving?
- Collecting objectives
- Copyright, permissions & ethics
- Capacity considerations & description/metadata

Day 2: Tools + Technology

Overview, demos and hands-on exercises:

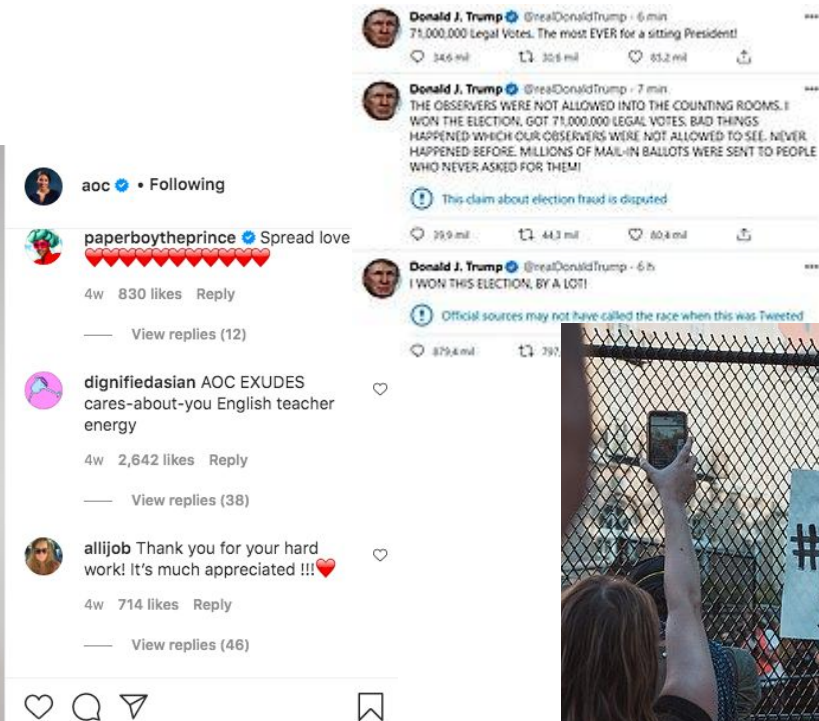
- Tools & replay mechanisms
- Internet Archive + Archive-It
- Conifer/Webrecorder
- Other tools

What is Web Archiving?

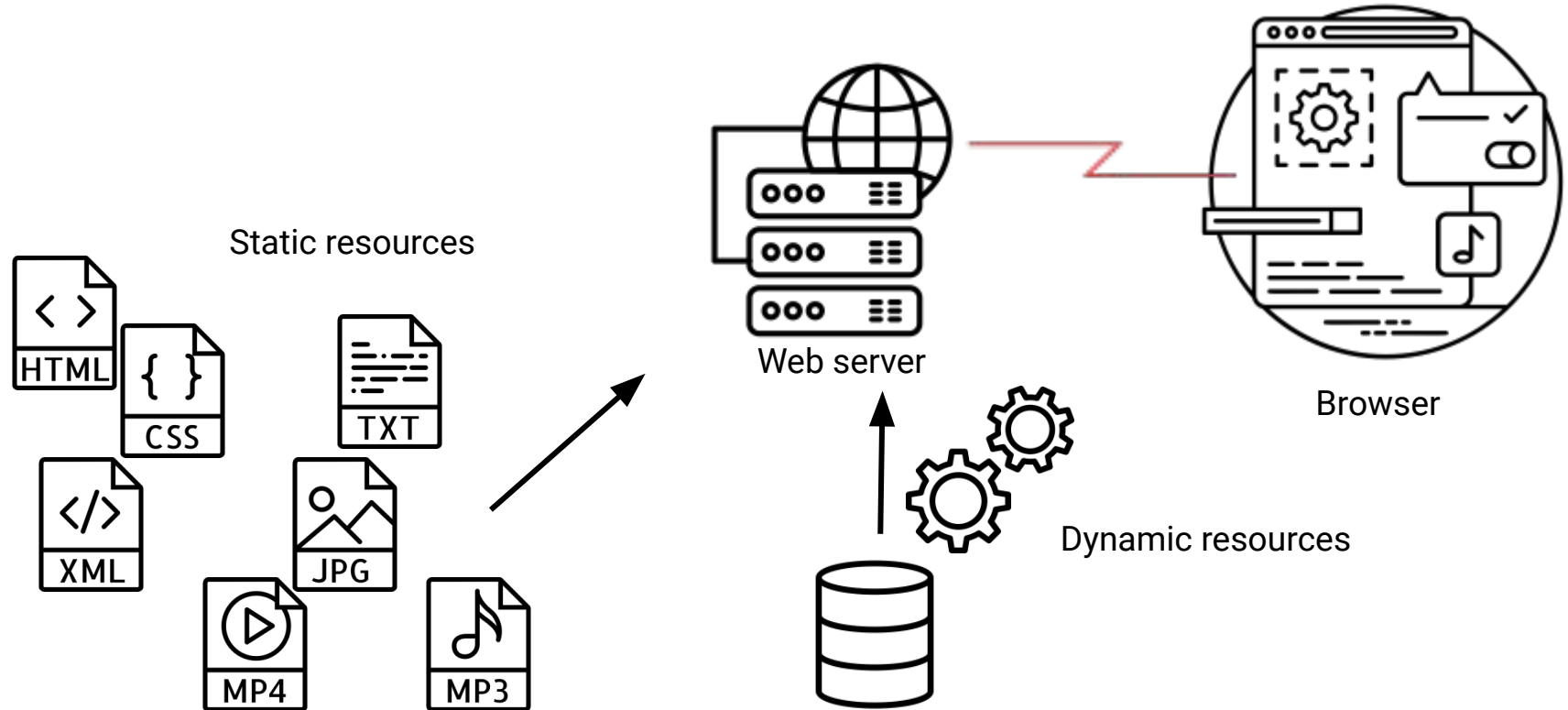
Web archiving is the process of collecting portions of the World Wide Web, preserving the collections in an archival format, and then serving the archives for access and use.

- International Internet Preservation Consortium

What is Web Archiving?



Static vs. Dynamic Web



Archival Processing: Similarities & Differences

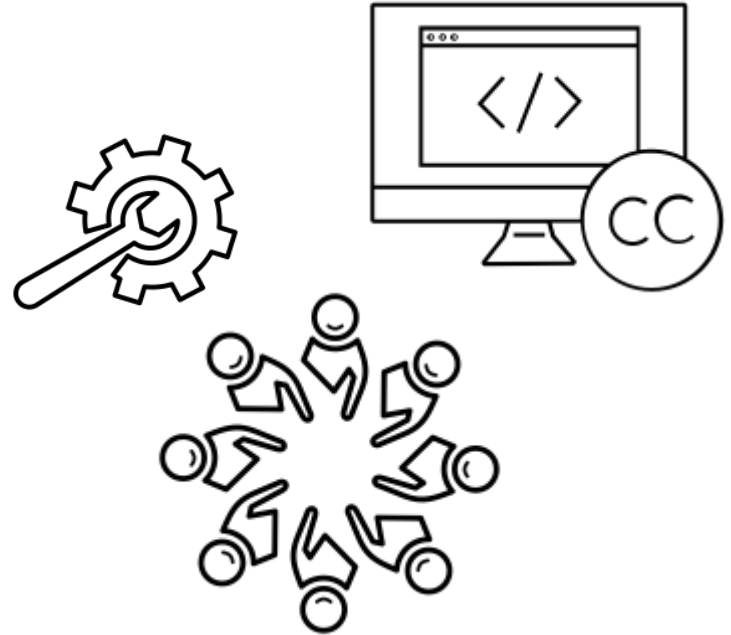
- Appraisal & Selection
- Permissions Clearance
- Ethics Review
- Collecting
- Description
- Access
- Long-term Preservation

Software

Open source vs.
Proprietary / Subscription

Community adoption

Interoperability



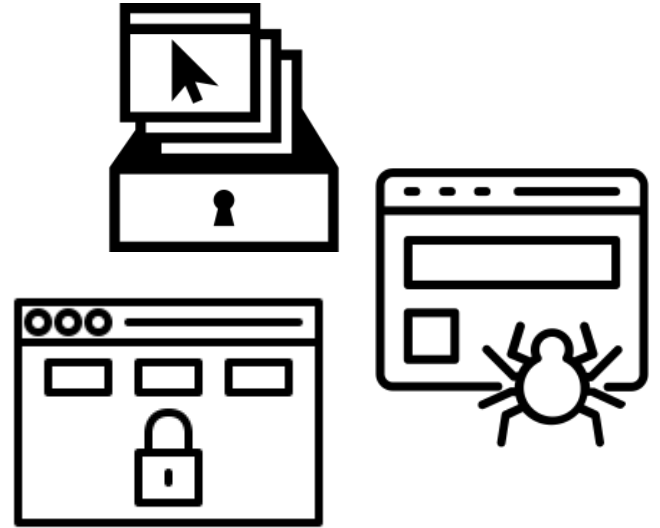
File Formats

- WARC
 - ISO Standard
 - International community
- WACZ
 - In development

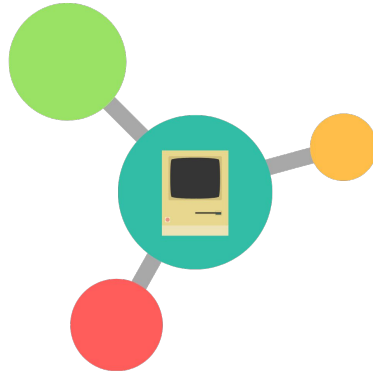


Key Terms & Concepts

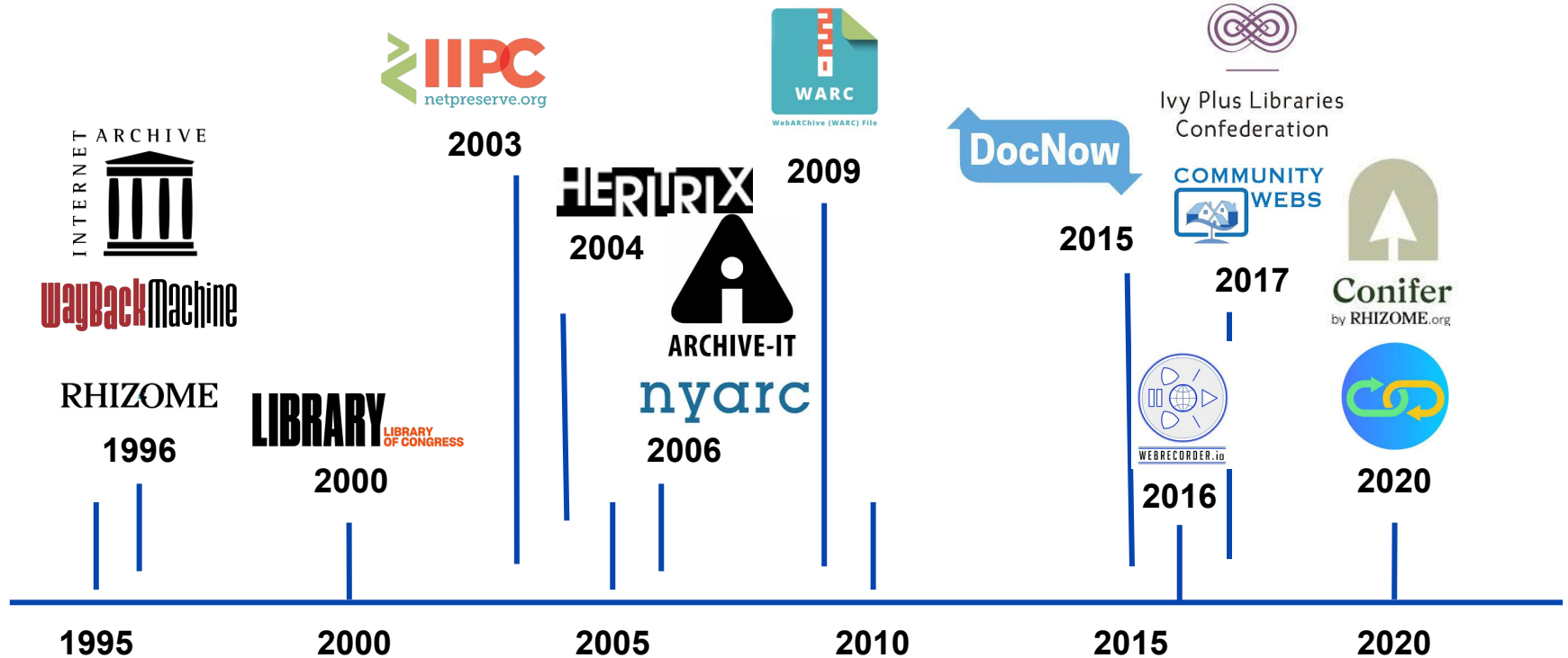
- Bound Archives
- Crawl/Capture/Harvest
- Crawler
- Seed URLs
- robots.txt



Questions?



Community & Practitioners



Community & Practitioners

Internet Archive

Founded in 1996, the first large-scale web archiving project.

- Wayback Machine
- Heritrix
- Archive-It



Community & Practitioners

National Libraries



中国国家图书馆
NATIONAL LIBRARY OF CHINA

KB } nationale
bibliotheek

{ BnF

הספרייה הלאומית
المكتبة الوطنية الاسرائيلية
THE NATIONAL
LIBRARY OF ISRAEL



LIBRARY
LIBRARY
OF CONGRESS

Canada 

Te Puna Mātauranga o Aotearoa
 **NATIONAL LIBRARY**
OF NEW ZEALAND



국립중앙도서관



国立国会図書館
National Diet Library, Japan

Community & Practitioners

International Internet Preservation Consortium

Founded in 2003 to promote best practices, dialogue, and advocacy.

- Consortium of 35+ countries
- International standards, tools
- WARC ISO Standard



Community & Practitioners

Universities & Consortia

- Ivy Plus Libraries Confederation (IPLC)
- New York Art Resources Consortium (NYARC)
- Community Webs



Ivy Plus Libraries
Confederation



nyarc | New York
Art Resources Consortium

Community & Practitioners

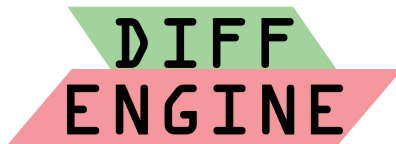
Social Media & the Dynamic Web



Community & Practitioners

Documenting the Now

Founded in 2015,
DocNow develops tools
and guidance for
collecting, analyzing, and
preserving Twitter that
prioritize ethical
practices.



twarc.py

SOCIAL
HUMANS



```
#4C003101C3104 301004C0304C00303C  
0172545 501064209648848896 50106  
2 501064211997274114 50106421230  
064220415229953 50106422084765696  
96499201 501064225142624256 5010  
92 501064228288364546 5010642286  
064231941570561 5010642321886658  
107897344 501064235175399425 501  
808 501064237863559168 501064238  
1064242347638787 501064241106132  
6671593473 501064246730301445 50  
4944 501064250484596736 50106425  
01064253478936576 50106425365510  
56775663616 501064257115402240 5
```

Community & Practitioners

Webrecorder/Conifer

RHIZOME

- Colloq
- Oldweb.today
- Webrecorder
 - Conifer
 - Replay.webpage



WEBRECORDER.io



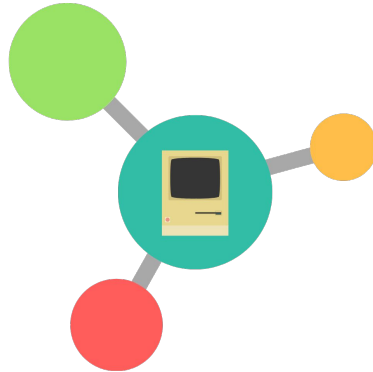
Conifer
by RHIZOME.org

Community & Practitioners

Professional Organizations & Groups

- The Society of American Archivists (SAA) Web Archiving Section
- ART|WARC, the Art Libraries Society of North America (ARLIS/NA) Web Archiving Special Interest Group
- The National Digital Stewardship Alliance (NDSA) Web Archiving Surveys

Questions?




Collecting Objectives & Mission




Image: RaHul Rodriguez
<https://creativecommons.org/licenses/by-sa/2.0/>


Institutional Web Presence

[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 Pittsburgh](#) >> [University of Pittsburgh Web Archive](#)



University of Pittsburgh Web Archive

Collected by: [University of Pittsburgh](#)


Archived since: Sep, 2017

Description: The University Archives, a unit of the Archives & Special Collections within the University of Pittsburgh Library System, collects, preserves, and makes accessible the papers, records, photographs, and media that document the history and mission of the University of Pittsburgh, from its founding as the Pittsburgh Academy in 1787, through its re-chartering as the Western University of Pennsylvania, to the present. This web archive includes web sites in the pitt.edu domain, as well as external sites documenting activities of the Pitt community.

Subject: [Universities & Libraries](#)


Collector: [University Archives, Archives & Special Collections, University of Pittsburgh Library System](#)

Collaborative Collecting




[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](#) >> [New York Art Resources Consortium \(NYARC\)](#)



New York Art Resources Consortium (NYARC)

Archive-It Partner Since: Oct, 2010
Organization Type: [Museums & Art Libraries](#)
Organization URL: <http://www.nyarc.org>

Description: The New York Art Resources Consortium (NYARC) consists of the research libraries of three leading art museums in New York City: The Brooklyn Museum, The Frick Collection, and The Museum of Modern Art. The NYARC web resources program archives curated collections of websites in areas which correspond to the scope and strengths of the print collections at each research library, as well as NYARC project websites and the institutional websites of the three museums. To nominate websites for inclusion in NYARC's collections, please email: [webarchive\[at\]frick\[dot\]org](mailto:webarchive[at]frick[dot]org)

Subject-based Collecting

Venice Biennale 2017 on the Web

Archived since: May, 2017

Description: This collection of blogs, social media sites, video, and organizational websites documents the international art exhibition, La Biennale di Venezia - 57th International Art Exhibition. The crawl began May 10, 2017 and continues through to the end of the exhibition in November. An initiative undertaken by the Sterling and Francine Clark Art Institute Library and its partner Archive-It, the Venice Biennale web project complements the Clark's Venice Biennale Collection of exhibition catalogues, press materials, and ephemera beginning with the 52nd Biennale in 2007.

Subject: [Arts & Humanities](#), [Society & Culture](#)

Venice Biennale 2019 on the Web

Archived since: Mar, 2019

Description: This collection of blogs, social media sites, video, and organizational websites documents the international art exhibition, La Biennale di Venezia - 58th International Art Exhibition. The crawl will begin May 8, 2019 and continues through to the end of the exhibition in November. An initiative undertaken by the Sterling and Francine Clark Art Institute Library and its partner Archive-It, the Venice Biennale web project complements the Clark's Venice Biennale Collection of exhibition catalogues, press materials, and ephemera beginning with the 52nd Biennale in 2007.

Subject: [Arts & Humanities](#), [Society & Culture](#), [Blogs & Social Media](#)

#Syllabus


ARCHIVE-IT

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



Explore >> Schomburg Center for Research in Black Culture >> #Syllabus


Schomburg Center
for Research
in Black Culture
The New York Public Library

#Syllabus

Collected by: Schomburg Center for Research in Black Culture

Archived since: Oct, 2017

Description: Inspired by the Hashtag Syllabi have been developed mostly by scholar-activists since 2014, the #HashtagSyllabusMovement web archive collection contains educational materials such as crowdsourced syllabi and public reading lists highlighting Black cultural production, race, police violence, and other social justice issues within the Black community.

Subject: Society & Culture, Blogs & Social Media, Politics & Elections, Syllabi, Reading Lists

Event-based Collecting



[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](#) >> [International Internet Preservation Consortium](#) >> [Novel Coronavirus \(COVID-19\)](#)



Novel Coronavirus (COVID-19)

Collected by: [International Internet Preservation Consortium](#)

Archived since: Feb, 2020

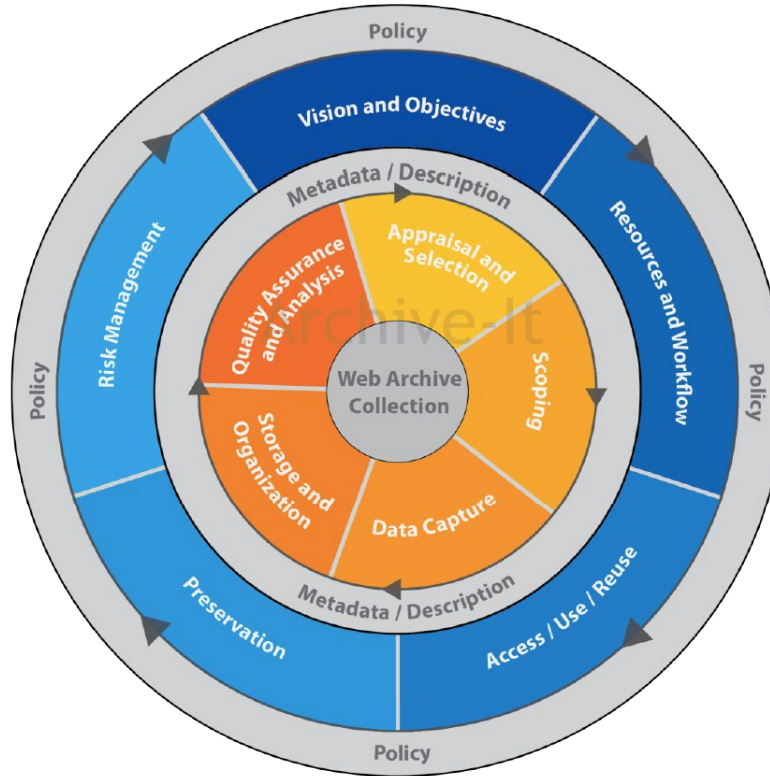
Description: A collection created by the Content Development Group of the International Internet Preservation Consortium in collaboration with Archive-It to preserve web content related to the ongoing Novel Coronavirus (Covid-19) outbreak. Identification of seed websites and initial web crawling began in February 2020, and the collection will continue to add new content as needed during the course of the pandemic and its containment. High priority subtopics include: coronavirus origins; information about the spread of infection; regional or local containment efforts, including vaccine development and implementation of vaccinations; medical and scientific aspects; social aspects; economic aspects; and political aspects. Websites from anywhere in the world and in any language are in scope.

Subject: [Science & Health](#), [Spontaneous Events](#), [Epidemics](#), [Coronavirus infections](#), [COVID-19 \(Disease\)](#), [COVID-19 Pandemic, 2020](#)

Creator: [International Internet Preservation Consortium](#)

Collector: [International Internet Preservation Consortium](#)

Web Archive Life Cycle Model



Purpose & Goals

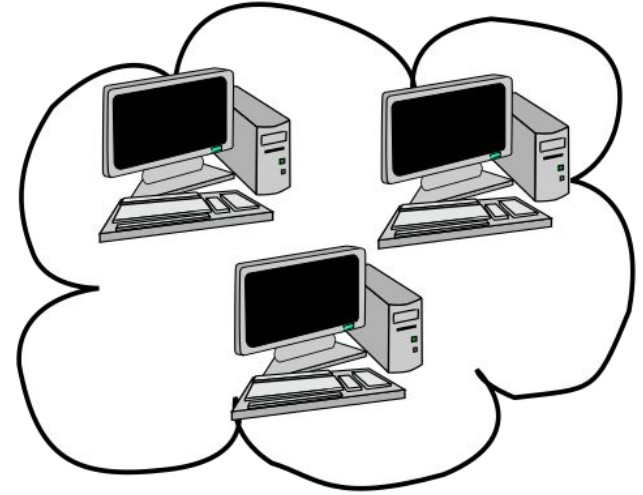
- What is the scope of this web archive and why?
- What types of web-published materials could be included?
 - What should *not* be included/considered as in-scope?
- What (if any) relationship does this web archive have to other collecting and/or preservation areas on this subject or for these collectors?
- Is there a mandate to collect comprehensively around this topic, to preserve institutional records, or to fill a gap in the historical record?

Purpose & Goals

- What is the institutional, regional, thematic scope/subject area of this collection?
 - Does this collection enhance an existing one?
- Are there areas of strength in your collections that have shifted entirely or partially to the web?
- Do you already have collection policies for digital content? For the web specifically?
 - Existing collecting policies may not need to change if they're format agnostic or already apply to the web.

Avoiding Duplication

- Survey and assess whether the content is already being adequately archived by another institution
- Review existing collection policies as benchmarks
- Nominate appropriate sites to existing collections (if accepted) and focus your resources on other topics



Stakeholders & Users

- Who exactly is responsible for defining the scope? For appraisal and selection of its contents moving forward?
- Who are the direct patrons of this web archive? What are their goals?
- Consider internal stakeholders in your institutions or consortia, such as curators, faculty, publishers and IT.
- What agency do artists, scholars, publishers, or other creators have in their inclusion in this archive?

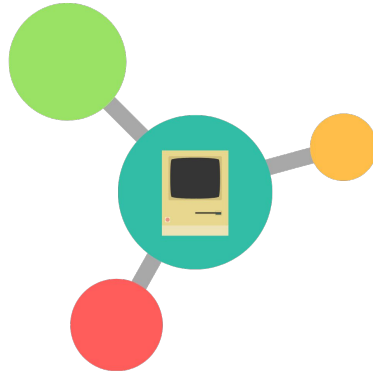
Access & Rights in Policies

- Are there any restrictions or limitations on the use of the archive?
- How does a typical primary patron find and explore the archive?
- Is it related to or integrated into any existing finding aid, catalog, discovery layer, or other access point?
- Is there a model or standard for the lifecycle of these collected materials as born-digital files?

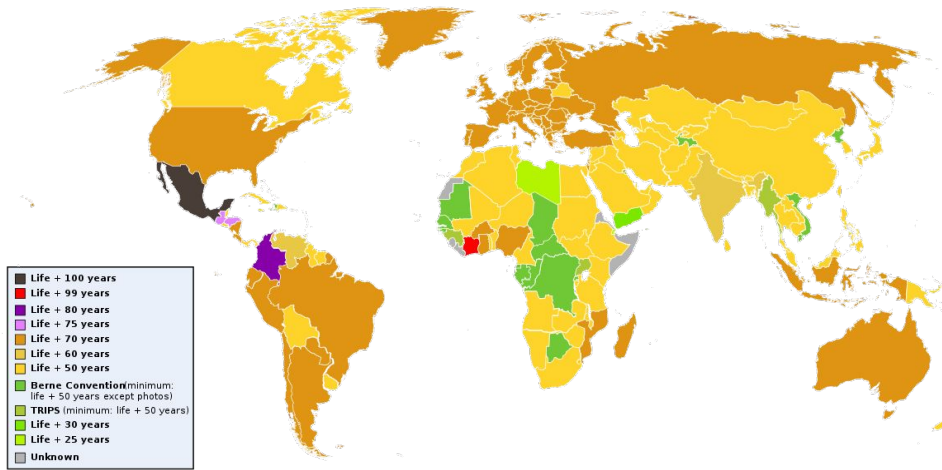
Starting Small & Building Incrementally



Questions?



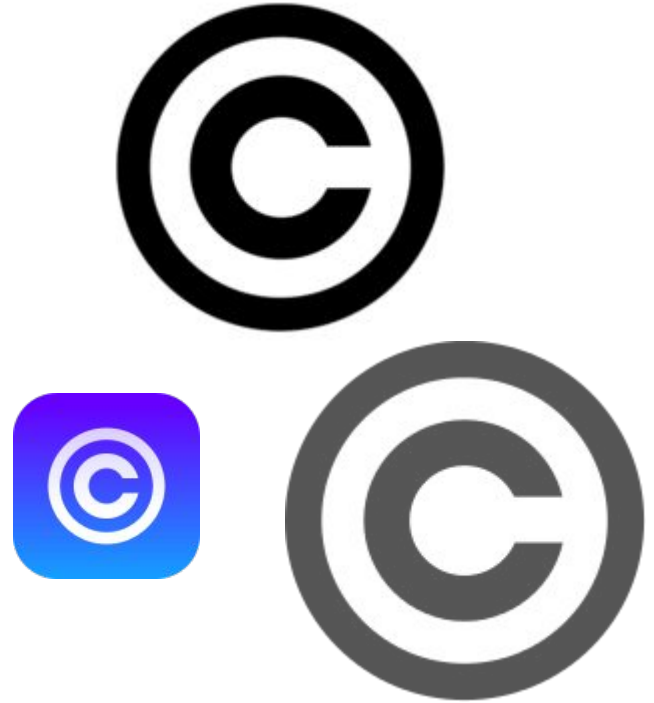
Copyright Considerations



- Domain (ie. “.fr” “.de” “.nz”)
- Legal deposit
- Permissions requirements

Approaches

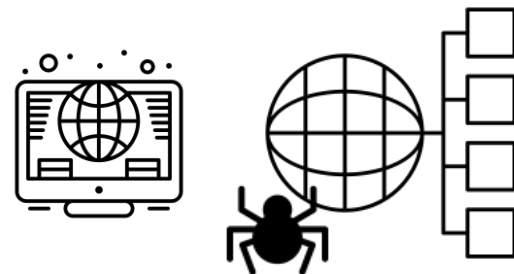
- Permissions
- Fair use
- Notification
- Opt-out
- Robots.txt
- Embargo periods



A Question of Scale

Large Scale

- Individual permissions not feasible
- Obey robots.txt



Small Scale

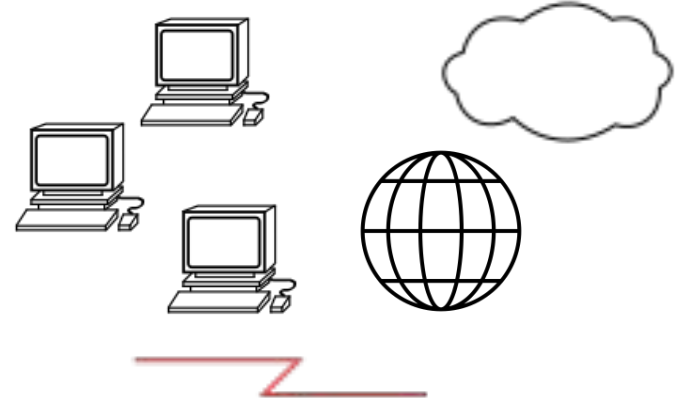
- May circumvent robots.txt
- Able to handle notices, take-downs



Access

Local Access

- Less risk
- Registered users

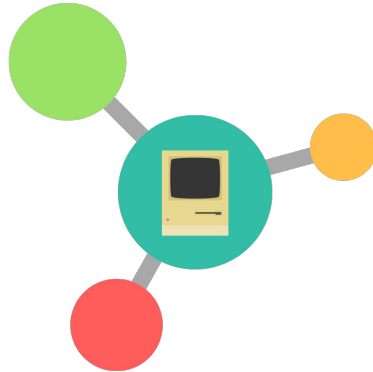


Online Access

- Obtain permissions
- Robot exclusions



Questions?



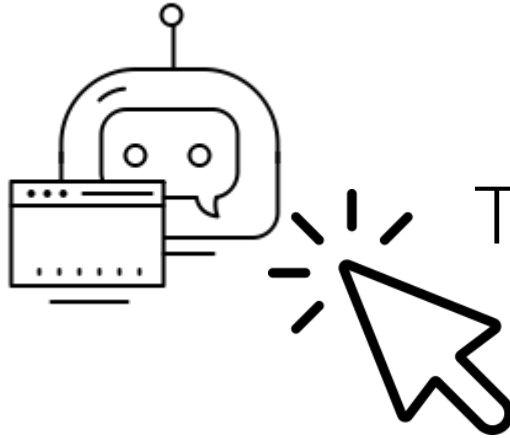
Ethical Considerations

The emphasis on legal accountability, while useful in the case of atrocities, ignores more subtle forms of discrimination and harm.

- Michelle Caswell and Marika Cifor

Ethical Considerations

Archival Ethics

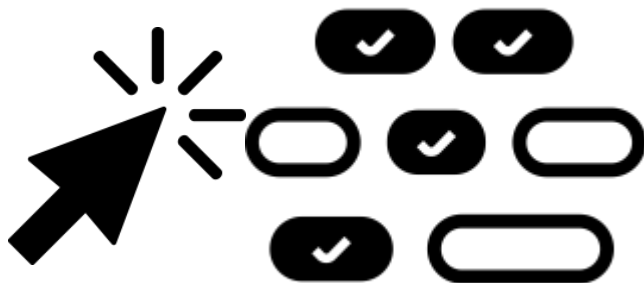


Terms of Service

Web Archiving as Appraisal

Web archiving is fundamentally an appraisal process.

- Amy Wickner



Representation

For digital collections, who gets represented is closely tied to who writes the software, who builds the tools, who produces the technical standards, and who provides the funding or other resources for that work.

- Bergis Jules

Representation



Potential for Re/Producing Harm

Knowledge of how marginalized communities exist on the web is one of the most important ethical considerations and a powerful check against causing harm to those communities through archiving practices.

- Bergis Jules, Ed Summers, Dr. Vernon Mitchell

Potential for Re/Producing Harm

- Surveillance
- Hate speech
- Online Harassment



Feminist Ethics of Care

Radical empathy as a means of shifting affective responsibilities within archival practice may be mapped to the specificities of web archiving:

- Archivist + Record Creator
- Archivist + Subjects of Records
- Archivist + User
- Archivist + Community

Feminist Ethics of Care

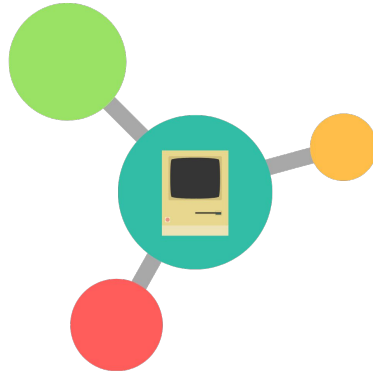
“Who gets to become an archivist, how archives get organized, and even what counts as an archive have a profound racial impact on what endures as valued historical research. Expansive, digital archives can still be locked behind paywalls or library turnstiles at elite universities. Brick and mortar archives stand in racially segregated parts of town. In the most concrete ways possible, racial politics determine how we locate the past.”

- N.D.B. Connolly

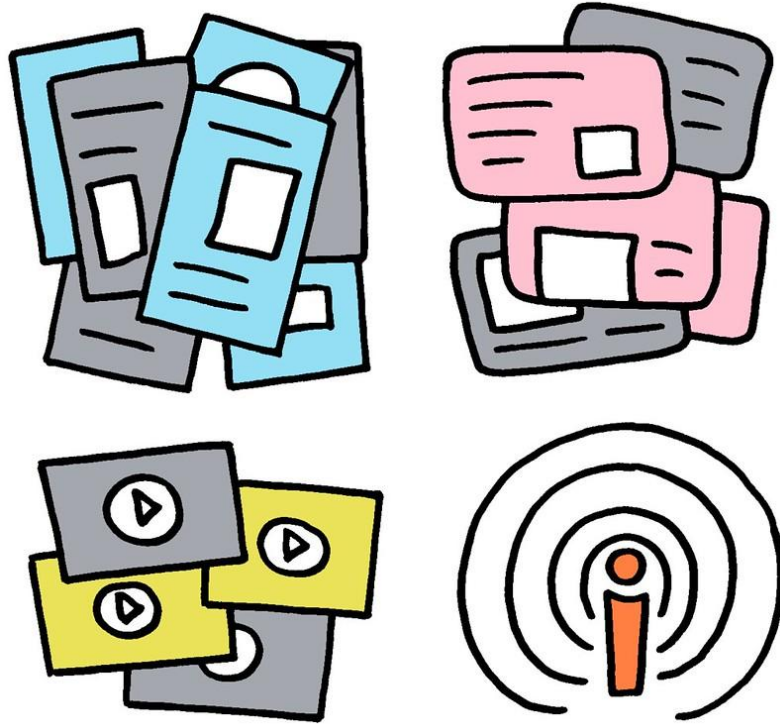
Web Archiving Ethics

The work we do as archivists, as librarians, as digital preservationists, have real consequences for marginalized people because who is remembered and how they're remembered dictates who gets violence perpetrated against them. - Bergis Jules

Questions?



Capacity Considerations



*** 13. What are the top considerations for the development of your web archiving program? Choose three.**

- ☐ Access and use (e.g., researcher interactions, web analytics, use cases)
- ☐ Cost (e.g., budgeting, service allowance utilization, staffing level requirements)
- ☐ Data volume (e.g., data volume collected, objects collected, acquisitions statistics)
- ☐ Institutional buy-in (e.g., programmatic growth, stakeholder testimonials, resource commitments)
- ☐ Loss (e.g., link and/or reference rot of archived resources)
- ☐ Quality (e.g., accuracy, completeness, replay fidelity)
- ☐ Risk management (e.g., permission responses, takedown requests, policy conflicts)
- ☐ Other (please specify)

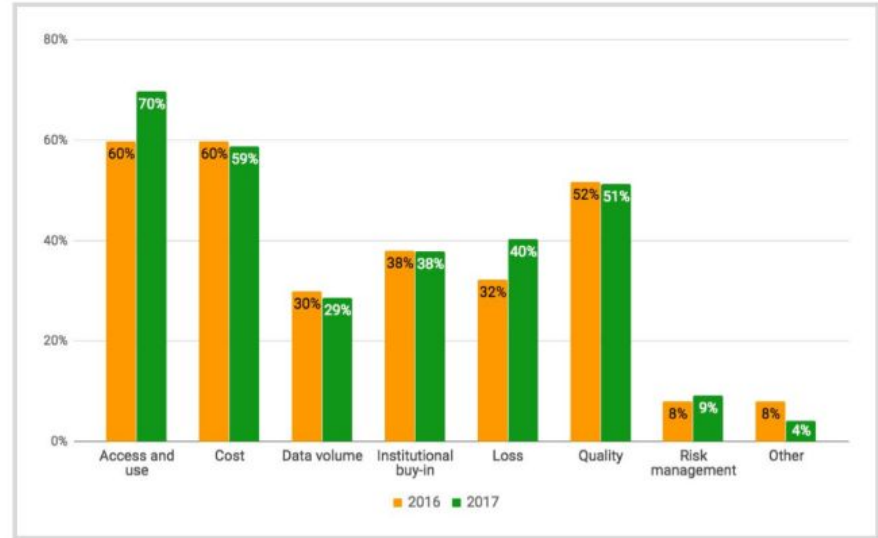


FIGURE 9: Top considerations for the development of respondents' programs

For publication

Advancing Art Libraries and Curated Web Archives: A Community Survey



November 14, 2018

Internet Archive

New York Art Resources Consortium

Persistent URL: <https://archive.org/details/AALCWACommunitySurvey>

Barriers to web archiving

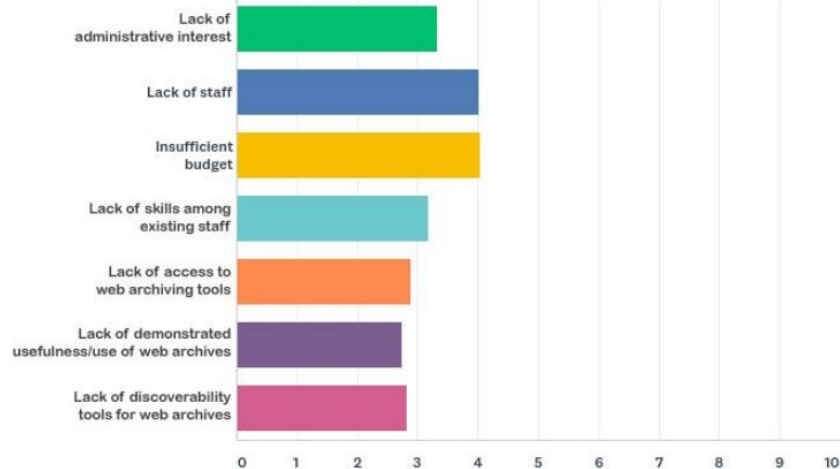
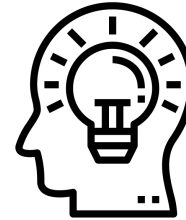
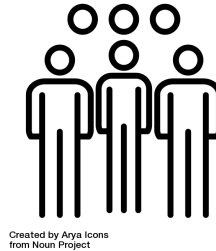


Fig. 12: Significance of barriers to web archiving

Capacity Considerations

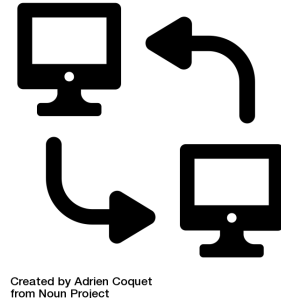
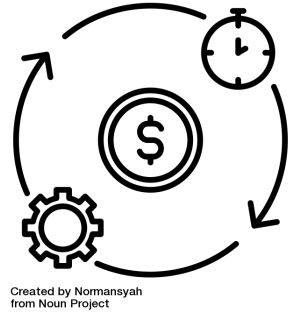
- Identify barriers to entry:
 - Buy-in or administrative support
 - Knowledge and experience with web archiving practice
 - Resources and what you can budget for:
 - Funds
 - Available staff



Emoji One, CC BY-SA 4.0
<<https://creativecommons.org/licenses/by-sa/4.0>
>, via Wikimedia Commons

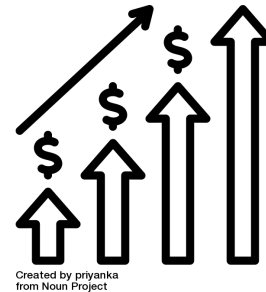
Capacity Considerations

- Focus on ways to overcome those barriers:
 - Repurposing of budget
 - Training
- Evaluate existing strengths within the institution/current workflows:
 - Systems and tools presently in use
 - Extension of workflows to incorporate web-based materials



“Making the case” to your administration

- What are you asking for?
- Why do we need to do it?
- Who else is doing this (peer institutions)?
- How much will it cost/resources required?



“Making the case” to your administration

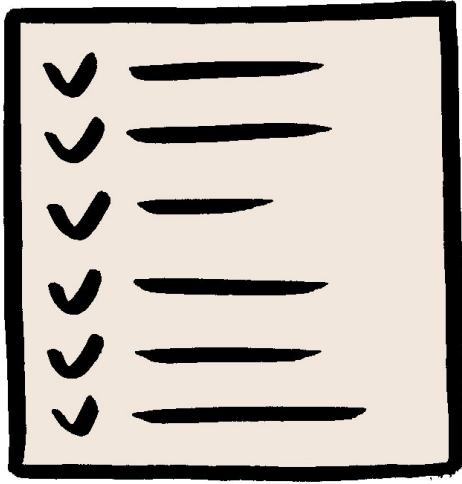
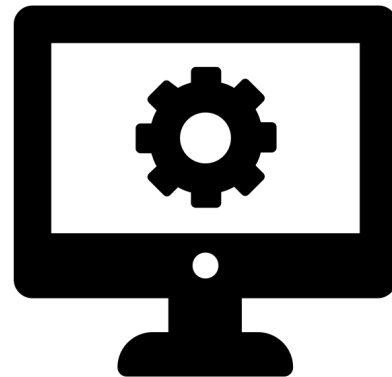


Image: Jurgen Appelo <https://creativecommons.org/licenses/by/2.0/>

- Compile scenarios for establishing programs
- Tie into mission & existing collecting practice
- Share “good” practice
- Develop cost modeling

Resources for “making the case”

- Narrative and use cases to convince stakeholders/admin that web-based information is highly ephemeral *and* valuable
- Pivotal times to frame a significant argument for web archiving:
 - Website redesign
 - Shuttering of an organization
 - Events/local and community issues
- Metrics from prior surveys
- Benchmarking and estimates

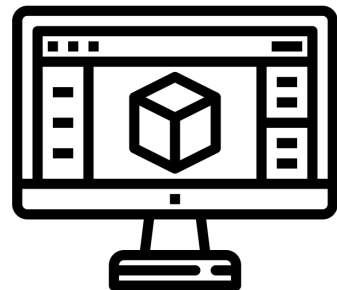


Resources for “making the case”

- Examine areas where you presently collaborate with other organizations that may transition well to addressing web archiving
- Determine what resources you already have that might be made more available (financial, staff, and systems/tools)
- Look at areas of flexibility within your budget
- Consider strategies for allocating acquisitions funds to web archive collection building

Tools & Software Subscriptions

- Examine your needs and capacity in relation to available tools:
 - Paid versus free or open source
 - Scale & frequency of capture
 - Quality assurance



Created by tulpahn
from Noun Project

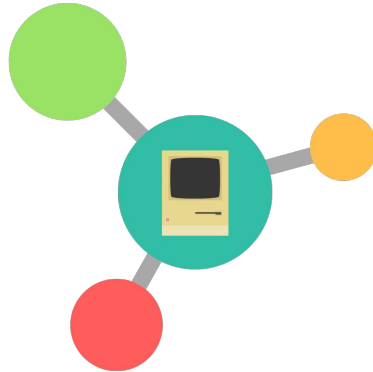


Created by Adrien Coquet
from Noun Project

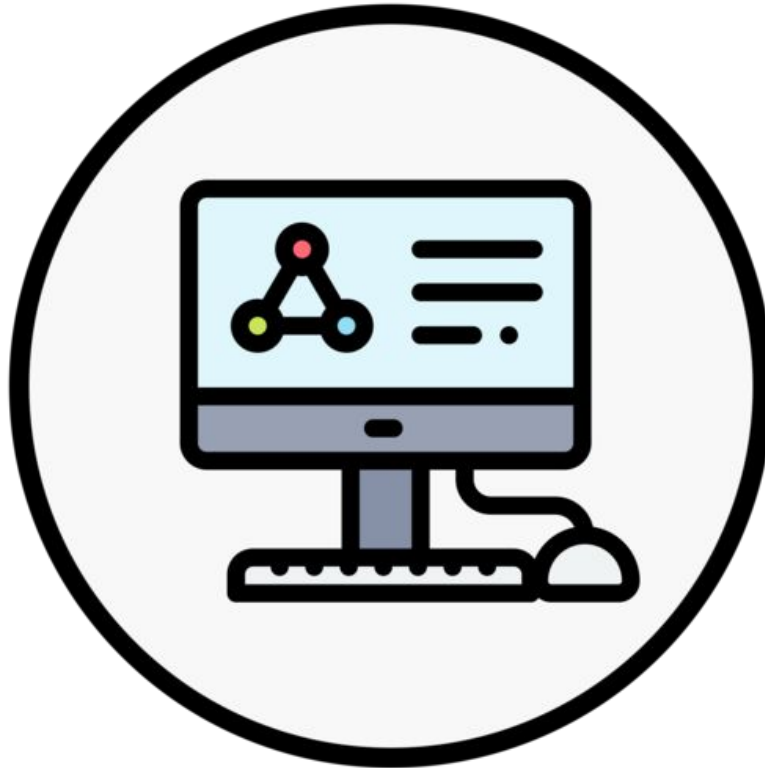


Created by Icons
from Noun Project

Questions?

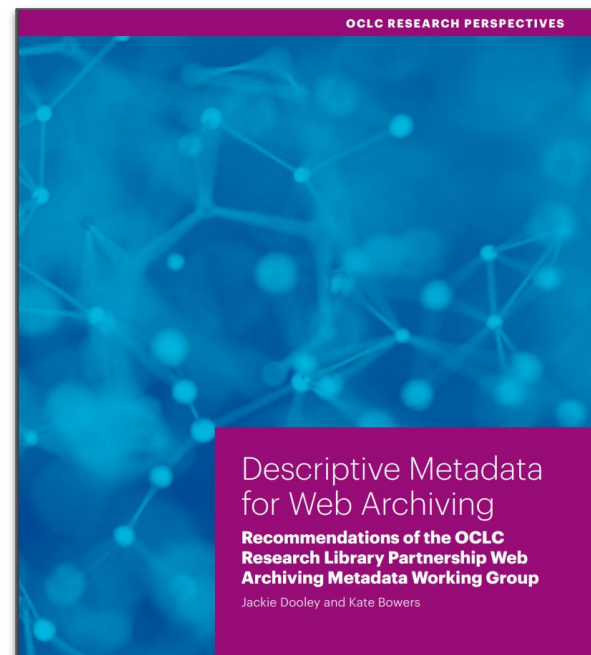


Description, Metadata & Access



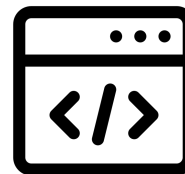
Archival vs. Bibliographic Description

- Bibliographic description approaches:
 - Collection level vs. seed level records
 - Item level records
- Finding Aids

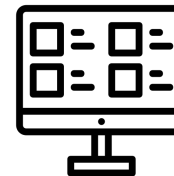


Metadata & Systems

- Archive-It:
 - Built-in template for Dublin Core fields (standard + custom fields)
 - OAI-PMH metadata:
 - OCLC WorldCat for collection-level records
 - ArchivesSpace integration



Created by iconpixel
from Noun Project



Created by Ahmad Rosayala
from Noun Project

Title: Julie Covello

URL: <http://www.campjulie.com>

Captured 6 times between May 5, 2017 and Jul 28, 2017

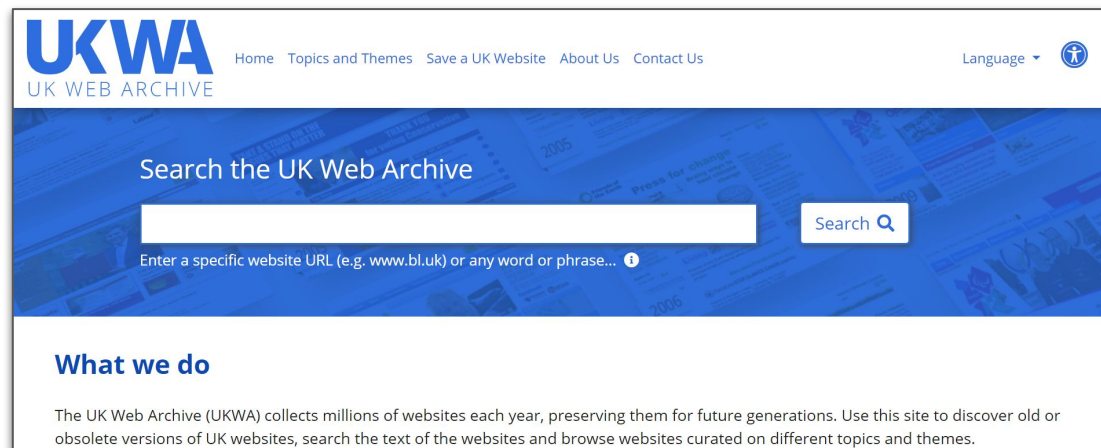
Related Archival Materials

Julie Covello Papers

Extent: 36 Digital Objects

Search Interfaces & API Integration

- UK Web Archive search portal
- Princeton Theological Seminary: CDX/C API
- NYARC Discovery: OpenSearch API



UK Web Archive: Topics and Themes

Topics and Themes are groups of websites brought together on a particular theme by librarians, curators and other specialists, often working in collaboration with key organisations in the field.



British Stand-up Comedy Archive

Collection owned and administered by Elspeth Millar.



French in London

This collection of websites has been selected by Saskia Huc-Hepher.



News Sites

558 titles are included in this collection.

[View all Topics and Themes](#)

Princeton Theological Seminary

Web Archive

Collecting and preserving web content for the educational mission of Princeton Theological Seminary.



[Seminary](#) / [Library](#) / [Digital Collections](#) / [Web Archive](#)

The Princeton Theological Seminary Web Archive preserves selected websites of organizations and individuals whose mission and activities parallel those of PTS and whose physical papers or records are archived in PTS Special Collections. Also archived are websites on subjects that mirror PTS collecting areas and sites of related organizations and individuals whose content is at risk. Because web sites change frequently, ephemeral but valuable online resources can disappear if not preserved. [More...](#)

Princeton Theological Seminary Collections



Princeton Theological Seminary Institutional Content

Content created by Princeton Theological Seminary as part of its official institutional identity on the web.



Princeton Theological Seminary Related Content

This collection represents websites that relate to Princeton Theological Seminary and includes PTS faculty sites.

Princeton: CDX/C API

Title	new jersey — Tags — Browse — Presbyterian Mission Agency
Site	www.presbyterianmission.org
URL	https://www.presbyterianmission.org/browse/ministries-ministrycontent/tag/new%20jersey/
Type	Web page
Collection	Religious Organizations
<p>Continue reading Saturday, August 16 8 The Presbytery of New Brunswick New Jersey The Rev. Anand Veeraraj and Sanjay Alexander provide leadership for the New Jersey Indian Church.</p> <p>This document was captured on April 27, 2014</p> <p>See more results from www.presbyterianmission.org</p>	
Title	Princeton Historic District (Princeton, New Jersey) - Wikipedia
Site	en.wikipedia.org
URL	https://en.wikipedia.org/wiki/Princeton_Historic_District_(Princeton,_New_Jersey)
Type	Web page
Collection	Princeton Theological Seminary Related Content
<p>National Register of Historic Places listings in Mercer County, New Jersey List of National Historic Landmarks in New Jersey References [edit] ^ "New Jersey and National Registers of Historic Places</p> <p>This document was captured on January 22, 2019</p> <p>See more results from en.wikipedia.org</p>	

NYARC Discovery

nyarc discovery

New York Art Resources Consortium

Books, Articles & More

Arcade

Search

Advanced Search

Browse Search

All items

▼

keywords

▼

NYARC Discovery is a new research tool from the libraries of the [Brooklyn Museum](#), [The Frick Collection](#), and [The Museum of Modern Art](#). It is a gateway to a trove of rich and varied materials, much of it unique, on art and cultural history spanning the spectrum from ancient Egypt to contemporary art.

Find books, exhibition catalogs, auction sale catalogs, artists' books, images, online journal articles, historical newspapers, archives, web archives, photoarchives, and more.

What is NYARC?

The [New York Art Resources Consortium \(NYARC\)](#) is a collaboration among the libraries of three museums in New York City: Brooklyn Museum, The Frick Collection, and The Museum of Modern Art.

What is Arcade?

[Arcade](#) is the catalog of over 1 million bibliographic records combining the holdings of the NYARC libraries, and you may already be familiar with it under

Books, Articles & More

Arcade	
journal articles	books & e-books
newspaper articles	journal titles
dissertations	auction catalogs
images	archives
nyarc web archives	photoarchives & more

NYARC Discovery: OpenSearch API

The screenshot displays the NYARC Discovery interface. At the top, the logo 'nyarc discovery' is in blue, with 'New York Art Resources Consortium' in red below it. A navigation bar contains 'Books, Articles & More' and 'Arcade'. A search bar has 'rembrandt' entered, with a 'Search' button. Below the search bar are dropdowns for 'All items' and 'keywords'. A banner asks to 'Help us improve NYARC Discovery by sending'. On the left, the 'Include More Results' section has a red circle around the 'Display Web Archive Collection results' checkbox, which is checked. Below this is the 'Show only' section with links for 'Peer-reviewed Journals (4,028)' and 'Full Text Online (32,196)'. The 'Refine My Results' section has a 'Creation Date' filter with 'From' and 'To' input fields and a 'Refine' button. The main results area shows 'Results 1 - 10 of 35,157 for Arcade + Primo Central'. The first result is 'Rembrandt' by Harmenszoon van Rijn, 1606-1669, from the St. Gallen Kunstverein collection. It includes an 'Exhibition Catalog' icon and links for 'Request', 'Locations & Availability', 'Details', and 'Virtual Browse'. Below this, the 'Web Archive Results for "rembrandt"' section shows an 'ARCAblog: Rembrandt' entry from May 28, 2014, with links to 'View NYARC Captures' and 'View All Captures'. A 'more web archive results ...' link is at the bottom.

nyarc discovery
New York Art Resources Consortium

Books, Articles & More Arcade

rembrandt Search

All items keywords

Help us improve NYARC Discovery by sending

Include More Results

- ☐ Display citation only results
- ☒ Display Web Archive Collection results

Show only

- Peer-reviewed Journals (4,028)
- Full Text Online (32,196)

Refine My Results

Creation Date

From To Refine

500

Results 1 - 10 of 35,157 for Arcade + Primo Central

1 **Rembrandt**
Rembrandt Harmenszoon van Rijn, 1606-1669.
St. Gallen : Kunstverein St. Gallen Kunstmuseum c2005

Exhibition Catalog

[Request](#) [Locations & Availability](#) [Details](#) [Virtual Browse](#)

Web Archive Results for "rembrandt"

ARCAblog: Rembrandt
ARCAblog: Rembrandt Showing posts with label Rembrandt
Wednesday, May 28, 2014 - ARTnews , Donna...

Website [View NYARC Captures](#) [View All Captures](#)

more web archive results ...

NYARC Discovery: OpenSearch API

Include More Results

☐ Display citation only results
☒ Display Web Archive Collection results ⓘ

Show only

Peer-reviewed Journals (4,028)
Full Text Online (32,196)

Refine My Results


Creation Date

From To **Refine**

500


Results 1 - 10 of 35,157 for **Arcade + Primo Central**

1




Rembrandt
Rembrandt Harmenszoon van Rijn, 1606-1669.
St. Gallen : Kunstverein St. Gallen Kunstmuseum c2005

Exhibition Catalog

[Request](#)  [Locations & Availability](#) [Details](#) [Virtual Browse](#)

Web Archive Results for "rembrandt"



ARCAblog: Rembrandt
ARCAblog: *Rembrandt* Showing posts with label *Rembrandt*
Wednesday, May 28, 2014 - ARTnews , Donna...


Website

[View NYARC Captures](#) [View All Captures](#)

[more web archive results ...](#)


NYARC: Seed Level Records

Results 1 - 10 of 6,009 for Arcade + Primo Central Sorted by: Relevance ▼



Website

Bruce Silverstein.
Bruce Silverstein Gallery.

[View Online](#)  [Details](#)

Save/Share

Title: Bruce Silverstein.

Author/Artist: Bruce Silverstein Gallery.

Description: 1 online resource : color illustrations

Notes: Bruce Silverstein Gallery is an art gallery in the Chelsea section of Manhattan, New York City specializing in 20th-century and contemporary art and photography. Web site contains a list of gallery artists, exhibitions, fairs, publications and news.

Subjects: Bruce Silverstein Gallery
Art galleries, Commercial -- New York (State) -- New York
Art, Modern -- 20th century
Art, Modern -- 21st century
Photography, Artistic -- 20th century
Photography, Artistic -- 21st century

Genre/Form: Web sites.

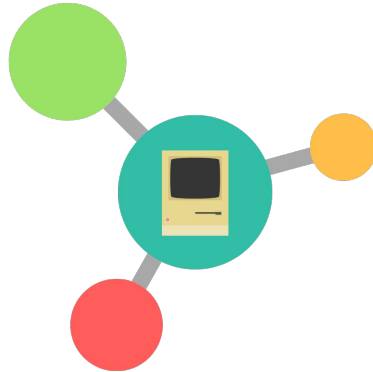
Source: Arcade Catalog

Links

- > Live site
- > Archived site
- > View Arcade record
- > View WorldCat record

1

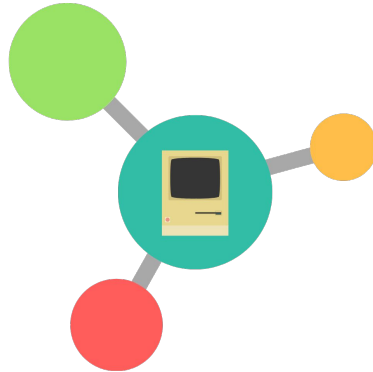
Questions?



Break: 15 minutes

Worksheets

Discussion/Questions



Thank you!

