Web-Archiving: Preserving the Internet

Mark Phillips, Ph.D.

University of North Texas

UNT Libraries

February 18, 2015

The Web is the platform for communication for the 21st century.

Each year more and more content is created digitally.

And published to the world via the Web.

Ensuring the long-term preservation and access to these resources offer new challenges and opportunities to memory organizations such as libraries, museums, and archives.

Background:

Web archiving is the process of collecting portions of the World Wide Web to ensure the information is preserved in an archive for future researchers, historians, and the public.

It involves concepts that are core to libraries and archives.

Selection: Defining the scope of the Web for preservation.

National Domain
Federal Domain
State/Municipal Web
Subject Based
Event Based

Acquisition: Harvesting selected content by using Web crawlers such as Heritrix

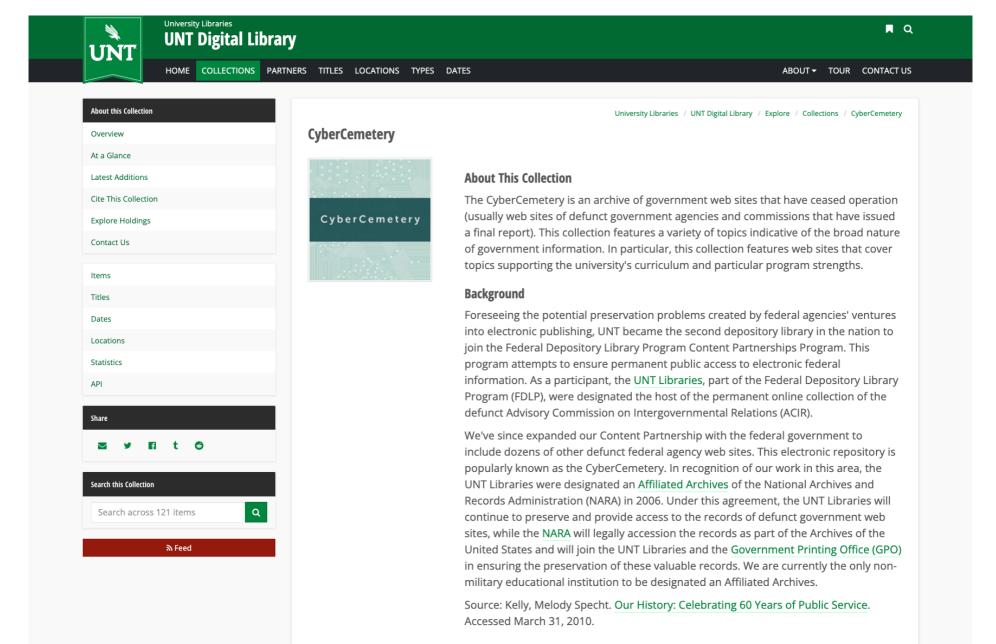
Access: Enabling interested users to accessing Web resources from the past.

Preservation: Ensuring the long-term access to these Web resources through systematic planning and curation.

These concepts enable memory organizations to align Web archiving with traditional collections, processes and missions

Examples:

UNT Libraries' CyberCemetery



https://cybercemetery.unt.edu/

How to Get Your Website in the CyberCemetery

If your agency or commission is closing, you can make sure that your website's

Archive of Federal commissions, committees and initiatives that are no longer active.

Started in 1997 with the Advisory Commission on Intergovernmental Relations (ACIR)



Welcome to The U.S. Advisory Commission on Intergovernmental Relations' Home Page

The Advisory Commission on Intergovernmental Relations (ACIR) is a permanent, independent, bipartisan intergovernmental agency established by Public Law 86-380 in 1959. As it was established, ACIR's mission is:

To strengthen the American federal system and improve the ability of federal, state, and local governments to work together cooperatively, efficiently, and effectively.

To learn more about ACIR, please click on one of the following subjects,

- WHAT IS ACIR?
- ACIR NOW
- SERVICES, PROGRAMS, AND FUNDING

scroll down this page, or contact us directly at: 800 K St., NW Suite 450 South Building Washington, DC 20575

WHAT IS ACIR?

The Advisory Commission on Intergovernmental Relations (ACIR) is a permanent, independent, bipartisan agency that was established under Public Law 86-380 in 1959 to study and consider the federal government's intergovernmental relationships and the nation's intergovernmental machination.

The Commission is composed of 26 individuals who represent the interests of the federal system's intergovernmental partners in matters of intergovernmental concern, and is the only established, freestanding part of the federal system in which the views of the federal government's intergovernmental partners are openly aired, and in which difficulties and inefficiencies in the federal system's Intergovernmental Relationship's are examined.

Intergovernmental Relations:

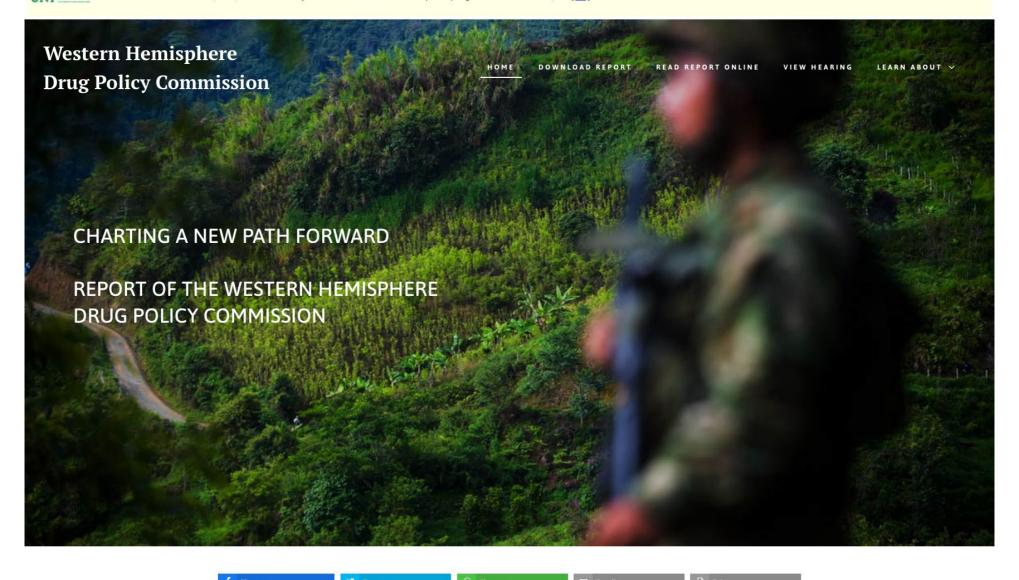
The studies of Intergovernmental Management and Intergovernmental Relations are fields in which researchers study how different levels of government interact with one another, and attempt to define how they should interact with one another in the context of The Constitution. Intergovernmental Relationships have profound effects on self-government in America, and determining the appropriate role for federal government within the governmental system is as high on the national agenda today as it was when The Constitution was written in 1787.

As the nation's foremost repository of experience and information on intergovernmental structure, finance, process, and practice, the challenge of studying the federal government's relationships with State, Local, and Tribal governments falls to ACIR.

ACIR works with State, Local, and Tribal governments, as well as other interested parties to:

- · Identify emerging intergovernmental issues, trends, and turning points;
- · Stimulate thought about American federalism and intergovernmental relationships;
- Educate leaders and the public about the impacts of intergovernmental reforms; and
- · Promote stronger intergovernmental communication, cooperation, and coordination as the critical basis for an effective federal system.

Currently, ACIR is the hub of the intergovernmental community and maintains relationships with many Intergovernmental organizations. Several related documents and other sources of information are:

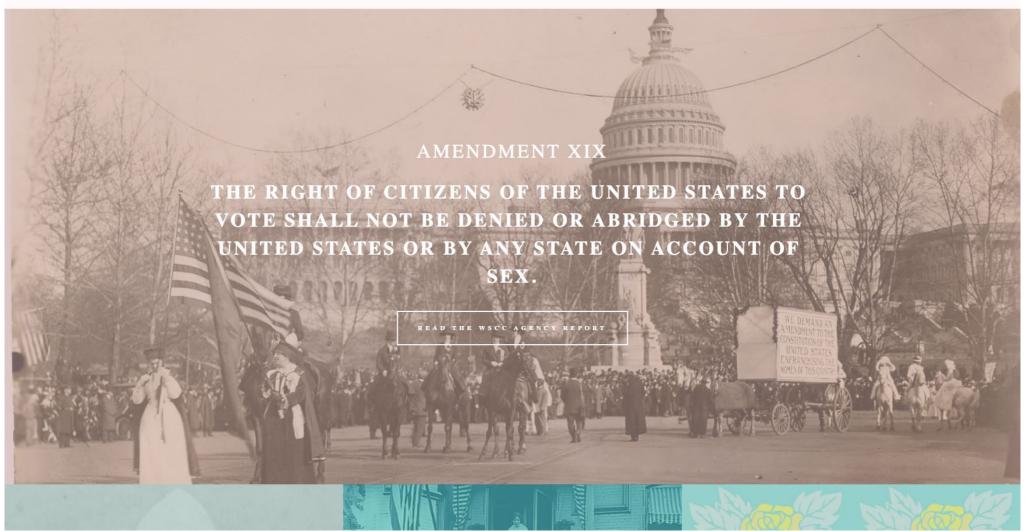


Executive Summary





ABOUT PROGRAMS LEARN
partners media federal commemorations







Introduction

The Cyberspace Solarium Commission (CSC) was <u>established</u> in the John S. McCain National Defense Authorization Act for Fiscal Year 2019 to "develop a consensus on a strategic approach to defending the United States in cyberspace against cyber attacks of significant consequences." The finished report was presented to the public on March 11, 2020.

Our Report

The Cyberspace Solarium Commission's proposes a strategy of layered cyber deterrence. Our report consists of over 80 recommendations to implement the strategy. These recommendations are organized into 6 pillars:

- 1. Reform the U.S. Government's Structure and Organization for Cyberspace.
- 2. Strengthen Norms and Non-Military Tools.
- 3. Promote National Resilience.
- 4. Reshape the Cyber Ecosystem.
- 5. Operationalize Cybersecurity Collaboration with the Private Sector.
- 6. Preserve and Employ the Military Instrument of National Power.

DOWNLOAD OFFICIAL REPORT

DOWNLOAD EXECUTIVE SUMMARY

DOWNLOAD LEGISLATIVE PROPOSALS





Commission on Evidence-Based Policymaking

REPORT ABOUT COMMISSIONERS MEETINGS HEARINGS LIBRARY NEWS

The Commission on Evidence-Based Policymaking (CEP) was established to develop a strategy for increasing the availability and use of data in order to build evidence about government programs, while protecting privacy and confidentiality.

Read More

The Commission on Evidence-Based Policymaking sunsets on September 30, 2017. While this website is no longer being updated, it will be available until July 1, 2018.

For updates on related evidence-based policymaking efforts, see the Evidence-Based Policymaking Initiative of the Bipartisan Policy Center at bipartisanpolicy.org/evidence.

■ CEP Final Report: The Promise of Evidence-Based Policymaking



Latest

News Meetinas Hearings Commission on Evidence-Based Policymaking Releases Final Report September 06, 2017 Members of the Commission on Evidence-Based Policymaking announce the Commission's final report and recommendations. Commission Meeting on March 13 March 01, 2017 The Commission on Evidence-Based Policymaking (CEP) will hold a public meeting on federal statistical and partnership infrastructure for evidence building. **Commission Meeting on February 24** The Commission will hold a public meeting on the role of legal standards and technology in maximizing data security and privacy.

View All News

Privacy Policy

Today contains over 120 websites

UNT Libraries is an Affiliated Archives with the U.S. National Archives and Records Administration (NARA) because of the CyberCemetery

End of Term Presidential Web Archives 2008, 2012, 2016, 2020

Purpose

The End of Term Web Archive captures and saves U.S. Government websites at the end of presidential administrations. The EOT has thus far preserved websites from administration changes in 2008, 2012, 2016, and 2020.







Whitehouse.gov captures from: September 15, 2008; March 21, 2013; and February 3, 2017.

Archive Scope

The End of Term Web Archive contains federal government websites (.gov, .mil, etc) in the Legislative, Executive, or Judicial branches of the government. Websites that were at risk of changing (i.e., whitehouse.gov) or disappearing altogether during government transitions were captured. Local government websites, or any other site not part of the federal government domain were out of scope.

U.S. Federal Government Domain End of Term 2020 Web Archive

For the End of Term 2020, The Library of Congress, University of North Texas Libraries, Internet Archive, Stanford University Libraries, and the U.S. Government Publishing Office (GPO) joined efforts again, this time with new partners Environmental Data & Governance Initiative (EDGI) and the National Archives and Records Administrationi (NARA), to preserve public United States Government websites at the conclusion of the presidential administration ending January 20, 2021. This web harvest – like its predecessors in 2008, 2012, and 2016 – was intended to document the federal government's presence on the World Wide Web during the transition of presidential administrations and to enhance the existing collections of the partner institutions. This broad comprehensive crawl of the .gov domain includes as many federal .gov sites as we could find, plus federal content in other domains (such as .mil, .com, and social media content) and FTP'd datasets.

Nominations made by individual URL for inclusion in the End of Term Presidential Harvest 2020 are availabe to view in the Nomination Tool. URLs submitted for consideration in bulk form via files were added to a separate bulk Nomination Tool instance. The files containing the bulk list URLs have also been added to a GitHub repository. The entirety of the archived content is currently being held by the Internet Archive.

Browse the End of Term Web Archive

- 2008-2009
- 2012-2013
- 2016-2017
- Browse All
- · Search Full Text

Collaboration between institutions throughout the United State to capture the Federal (.gov) Web at the end of each presidential term.



Good Evening



Welcome to the White House

Social Security Administration Announces New Online Retirement Planner



The President & Vice **President:**

Their accomplishments, their families, and how to send them electronic mail --



Interactive Citizens' Handbook: Your guide to

information about the Federal government



White House History and **Tours:**

Past Presidents and First Families, Art in the President's House and Tours -- Tour



Commonly Requested Federal Services:

Direct access to Federal Services



What's New:

What's happening at the White House -Expanding Opportunities for **America's Senior Citizens** -A National Call to Action to Close the Digital Divide



Site News:

Featured sections of our site -White House Easter Egg Roll -China Trade Relations Working

Help *

Close X

13,572 captures



President * News * Vice President * History & Tours * First Lady * Mrs. Cheney



YOUR GOVERNMENT KIDS ESPAÑOL CONTACT PRIVACY POLICY SITE MAP SEARCH

SEARCH

Issues

- Economy - Iraq
- Education
- National Security Homeland Security
- More Issues
- En Español

News

- Current News
- Press Briefings Proclamations
- **Executive Orders**
- Radio

Appointments

Nominations

Application

Offices Global Comm

- Freedom Corps
- Faith-Based &
- Community · OMB
- More Offices

Major Speeches

- Iraq Transition
- State of the Union Saddam Capture
- UN Address
- National Address
- Iraqi Freedom National Address



Photo Essays

July 20, 2004 | Last Updated 11:00 p.m. (EST)

Secretary Snow Discusses Economy on "Ask the White House"



Treasury Secretary John Snow on Tuesday discussed the economy on "Ask the White House".

Read the Full Transcript full story

Steady Job Growth Continues in States Across the Country

June's employment data indicate that the President's economic policies are creating jobs and driving steady economic growth, but there is still more work to be done. full story

President Bush Welcomes President Lagos of Chile



President Bush and Chilean President Lagos discussed trade issues on Monday at the White House. full story

Press Briefing by Scott McClellan



Watch Monday's Press Briefing with White House Press Secretary Scott McClellan, full story

President Bush Welcomes Malaysian Prime Minister to White House



President George W. Bush meets with Freedom Corps greeter Dean Gesme Sr. after arriving in Cedar Rapids, Iowa on July 20,



Help 1

13,572 captures 27 Dec 96 - 17 Feb 15



THE WHITE HOUSE

PRESIDENT GEORGE W. BUSH

Your Government | History & Tours | Kids | E-mail | En Español

PRESIDENT | VICE PRESIDENT | FIRST LADY | MRS. CHENEY | NEWS

Search



Last updated 2:35 p.m. (EDT)



November 26, 2008

M IN FOCUS

Afghanistan

Africa

Budget Management

Defense

Economy

Education

Energy

Environment

Global Diplomacy

Health Care

Homeland Security

Immigration

International Trade

Iraq

Judicial Nominations

Middle East

National Security

Veterans

more issues 📦

News

Current News

Press Briefings

Proclamations

Executive Orders

Radio

Setting the Record Straight

more news

Interact





الإنهام فينم الكنو الأمان كالراسيد الكريرة إلى الأنام النبير

+ more photos

White House Photo by Eric Draper

President George W. Bush waves to the troops at Fort Campbell, Kv., Tuesday, Nov. 25, 2008, after being introduced on stage during a Thanksgiving visit. Said the President, "Over the past seven years, folks from this base have done exactly what they were trained to do." "You have taken the battle of the terrorists overseas so we do not have to face them here in the United States. You have helped counter the hateful ideology of tyranny and terror with a more hopeful vision of justice and liberty. You're part of the great ideological struggle of our time. With the soldiers of Fort Campbell out front, the forces of freedom and liberty will prevail." White House photo by Eric Draper

President Bush Pardons "Pumpkin and Pecan" in **National Thanksgiving Turkey Ceremony**

President Bush on Wednesday said, "This is my final Thanksgiving as the President. Over the past eight years, I have been given many reasons to be thankful. I'm thankful to our men and women in uniform and I am incredibly proud to have been their Commander-in-Chief. I am thankful for the armies of compassion volunteers who feed the hungry and shelter the poor. I am



♦APEC 2008

On November 21-23, 2008, President Bush attended the 16th Asia-Pacific Economic Cooperation (APEC) Leaders' Meeting in Lima, Peru.



APEC 2008 -

Celebrate the 61st Annual Thanksgiving Turkey Pardon

This year marks the 61st anniversary of the National Thanksgiving Turkey presentation. Though live Thanksgiving turkeys have been presented intermittently to presidents since the Lincoln administration, the current ceremony dates to 1947, when the first National Thanksgiving Turkey was presented to President Harry Truman.

Thanksgiving at the White House 📦

♦ Presidential Transition

The peaceful transfer of power from one Presidential Administration to the next is a hallmark of American democracy. With our Nation at war, our homeland targeted by terrorist adversaries, and our economy facing serious challenges, the Administration

is committed to establishing and executing a transition plan that minimizes disruption, maintains continuity, and addresses the major changes in government since the 2000 transition, including the Intelligence

13,572 captures 27 Dec 96 - 17 Feb 15



Q

IN FOCUS

Helping Survivors of

November 11, 11:55am

Thank an American Hero

November 10, 5:45am

Weekly Address: Extending Middle Class Tax Cuts to Grow the Economy

the WHITE HOUSE PRESIDENT BARACK OBAMA

Contact Us

Get Email Updates -





BRIEFING ROOM

ISSUES

13,572 captures

27 Dec 96 - 17 Feb 15

THE ADMINISTRATION

PARTICIPATE

1600 PENN





POPULAR TOPICS



Net Neutrality

President Obama is asking the



2015 State of The Union

Did you miss this year's speech?



Immigration Action

The President is taking

TOP NEWS

February 12, 4:20pm

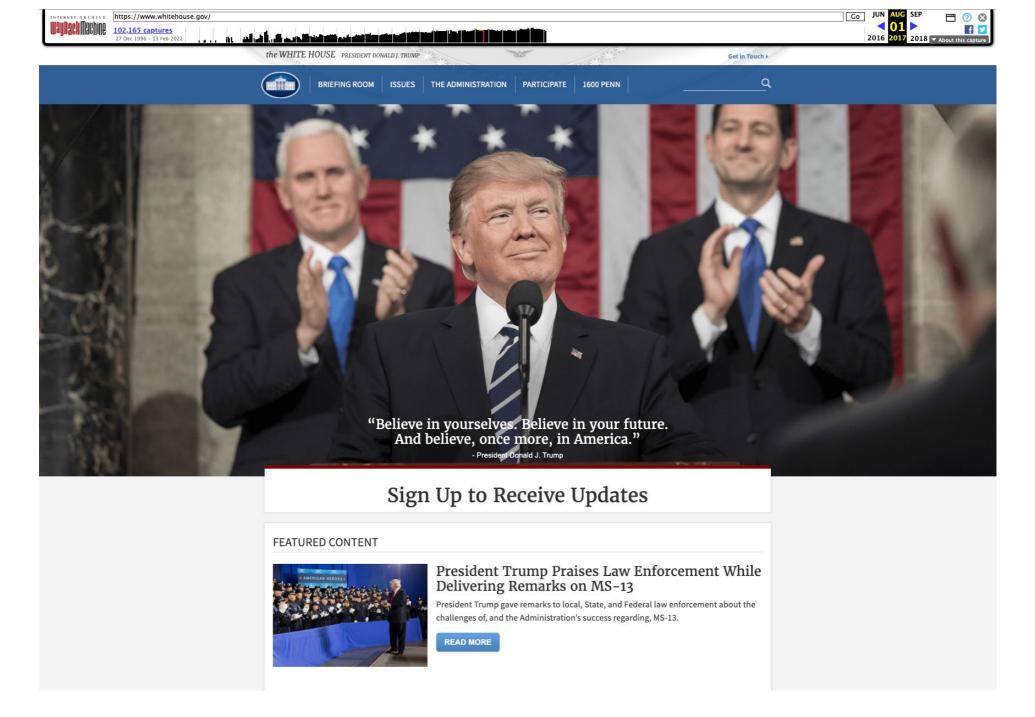
The Clay Hunt Act: What the President Just Signed

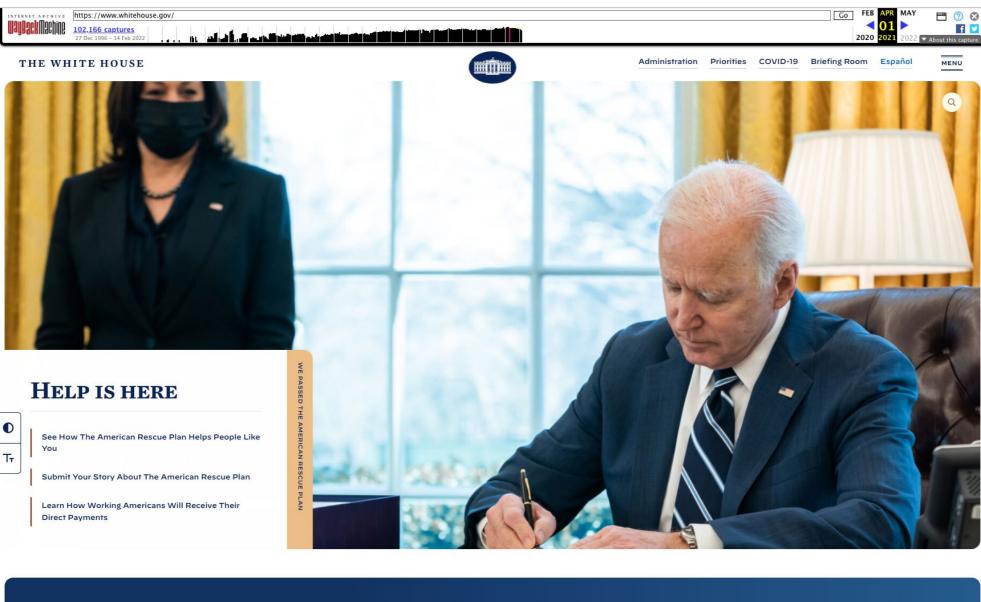
February 12, 5:32pm

President Obama, a Selfie Stick, and HealthCare.gov

February 11, 8:28pm

The Authorization of Military Force Against ISIL Terrorists: What You Need to Know





Selection, harvesting, archiving distributed to meet local collection needs.

Centralized access

UNT Libraries has acquired archive for 2008 and 2012 resulting in a 16TB and 30TB dataset

2016 - 159TB (HTTP) 150TB (FTP) 2020 - 300TB

Working to move a copy of EOT archives to Open Data on AWS

Based on the work by Common Crawl Designed for computational access to datasets.

Using Web Archives in scholarship, teaching and research

Collaborating Internationally

International Internet Preservation Consortium (netpreserve.org)

Log In Contact Become a Member

HOME ABOUT IIPC WEB ARCHIVING PROJECTS MEMBER ARCHIVES EVENTS FOR MEMBERS



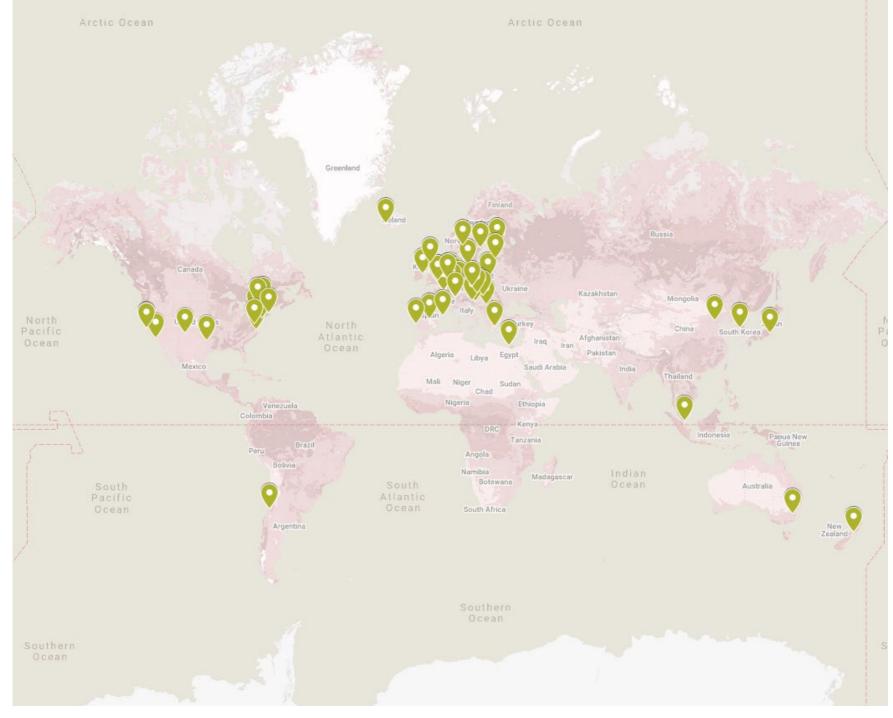


WHY ARCHIVE THE WEB?

Information published on the World Wide Web today will be the primary resources for future



55 member institutions



February 14, 2022

IEEE-Dallas Consultants Network Meeting

Members from 25 countries: North America, Europe, Asia, Africa

National Libraries
National Archives
Research Libraries
Government Agencies
Private Companies

Common goal to preserve the Web

Collaboratively develop tools for the community such as the Heritrix Web crawler and the Open Wayback system for replay of Web archives.

Search the history of over 452 billion pages on the Internet.



Q http://www.



Top Collections at the Archive

Lead work on the formalization of the WARC File Format (ISO 28500:2009)

Web archiving is an important component in preserving a national heritage for future generations.

Thank you.

Mark Phillips

mark.phillips@unt.edu

@vphill