



# cobWeb

Collaborative Collection  
Development for Web Archives

*#cobwebarchive*

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**Kathryn Stine**

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*California Digital Library*

Peter Broadwell

Andrew Wallace

*UCLA*

Lindsay Deal

Janet Taylor

Ann Whiteside

*Harvard University*



# CDL and Web Archiving

CDL has been involved in web archiving since 2005

- NDIIPP Web-at-Risk  
*<http://www.cdlib.org/services/uc3/partners/webatrisk.html>*
- Web Archiving Service (WAS)
- End-of-Term Archive  
*<http://eotarchive.cdlib.org/>*
- CA.gov Archive  
*<https://archive-it.org/collections/5763>*

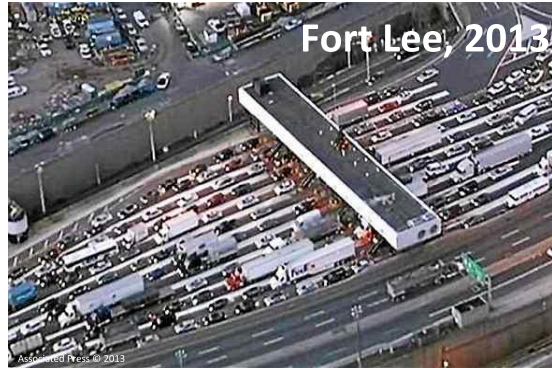
The 2015 decommissioning of WAS in favor of Archive-It decentralized web archiving activities at the University of California, so we are particularly interested in ways of promoting collaboration

So ...

# Imagine ...

... a fast-moving event unfolding online as much as on the ground

How can we respond as a community appropriately and responsibly?



# *Imagine ...*

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Harnessing the domain knowledge and technical capabilities of the entire *community*

Enabling *local* collection development decisions based on *global* information

*Complementary, cooperative,* and *collaborative* collecting

Institutional participation at a level *commensurate* with local expertise and capacity

Increasing scholarly and public *awareness*

Establishment of thematic collecting *projects*

Open *nomination* of topical seed URLs by interested stakeholders

*Claiming* of seeds by archival institutions intending to harvest

*Holdings* records for seeds actually harvested

Thematic *discovery* of web archives of interest

Centralized *catalog* of collection- and seed-level metadata

# Why cobWeb ?

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The demands of archiving the web in comprehensive breadth or thematic depth *exceeds* the technical and financial capacity of any one institution

Curators cannot make rational collection development *decisions* without knowledge of what others have collected or intent to collect

Relevant seed URLs can be meaningfully *contributed* by various stakeholders: curators, archivists, subject area specialists, scholars, journalists, event participants, and the public

Apportioning collection responsibility into granular pieces encourages *participation* by smaller institutions and programs

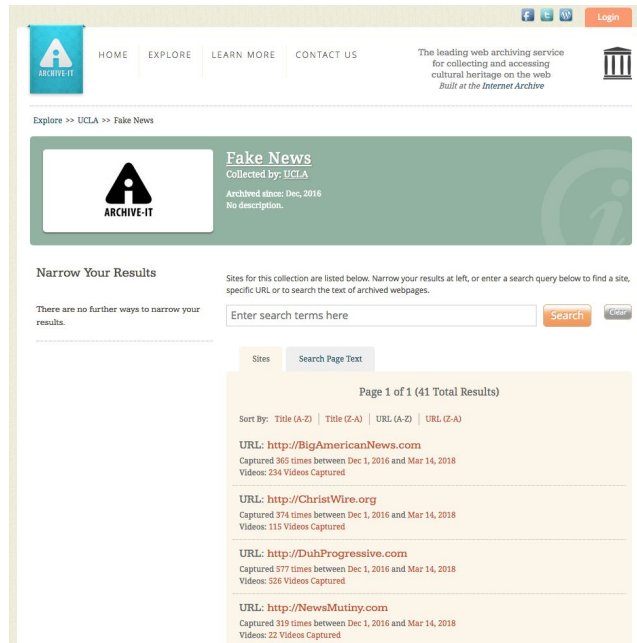


**Archive of the California Government Domain, CA.gov**  
Collected by: [University of California Libraries](#)  
Archived since: Apr, 2015  
**Description:** This archive preserves access to hundreds of California state agency sites. State agencies utilize their websites to publish everything from press 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. The archive is maintained by government information specialists and web curators across several UC campuses, the Stanford University Libraries and the California State Library.  
**Subject:** [Government - US States](#), [Politics & Elections](#), [Government](#)

## CA.gov archive of the California state government domain

- Collaborative effort of government information librarians at UC and Stanford and the CA State Library and CA State Archive
- More than 700 seeds (URLs) captured total
- Collecting 2007-present, major content refresh 2016-2017
- Coordinating workflows, approaches to QA and metadata

Peter Broadwell at UCLA was well into collecting “fake” news sites before it occurred to him to wonder if anyone else was doing something similar



The screenshot shows the Archive-It website interface. At the top, there is a navigation bar with links for HOME, EXPLORE, LEARN MORE, and CONTACT US. A tagline reads: "The leading web archiving service for collecting and accessing cultural heritage on the web Built at the Internet Archive". Below this, the breadcrumb trail shows "Explore >> UCLA >> Fake News".

The main content area features a green header for "Fake News" with the Archive-It logo and text: "Collected by: UCLA", "Archived since: Dec, 2016", and "No description".

Below the header, there is a "Narrow Your Results" section. It states: "There are no further ways to narrow your results." and includes a search input field with the placeholder "Enter search terms here" and "Search" and "Clear" buttons.

The search results are displayed in a table with the following data:

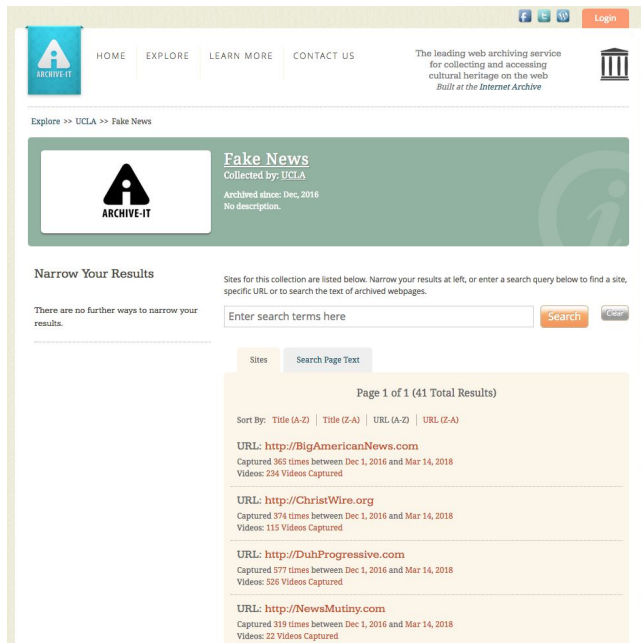
Sort By:	Title (A-Z)	Title (Z-A)	URL (A-Z)	URL (Z-A)
URL:	<a href="http://BigAmericanNews.com">http://BigAmericanNews.com</a>			
Captured:	365 times between Dec 1, 2016 and Mar 14, 2018			
Videos:	234 Videos Captured			
URL:	<a href="http://ChristWire.org">http://ChristWire.org</a>			
Captured:	378 times between Dec 1, 2016 and Mar 14, 2018			
Videos:	115 Videos Captured			
URL:	<a href="http://DuhProgressive.com">http://DuhProgressive.com</a>			
Captured:	577 times between Dec 1, 2016 and Mar 14, 2018			
Videos:	526 Videos Captured			
URL:	<a href="http://NewsMutiny.com">http://NewsMutiny.com</a>			
Captured:	319 times between Dec 1, 2016 and Mar 14, 2018			
Videos:	22 Videos Captured			



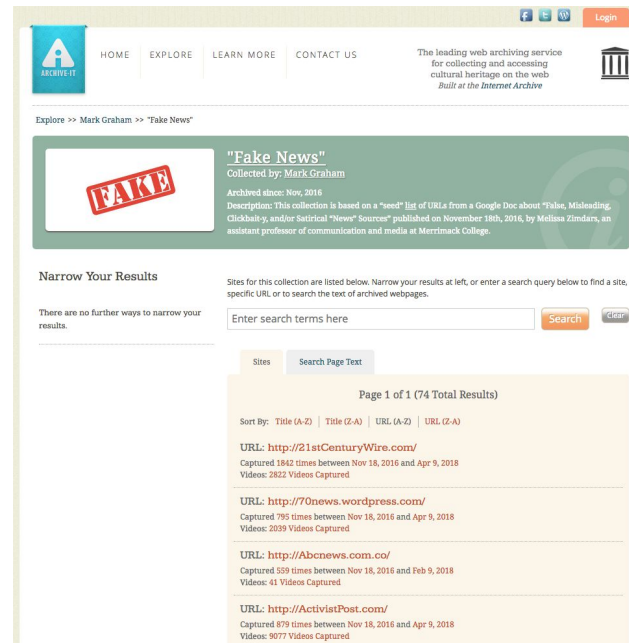
# Why cobWeb ?

Peter Broadwell at UCLA was well into collecting “fake” news sites before it occurred to him to wonder if anyone else was doing something similar

There was; Mark Graham at IA



The screenshot shows the Internet Archive interface for a collection titled "Fake News" collected by UCLA. The breadcrumb trail is "Explore >> UCLA >> Fake News". The collection description states it was archived since December 2016 and has no description. Below the "Narrow Your Results" section, there are search filters for "Sites" and "Search Page Text". The results list shows "Page 1 of 1 (41 Total Results)" with sorting options for Title (A-Z), Title (Z-A), URL (A-Z), and URL (Z-A). The first result is for "http://BigAmericanNews.com", captured 365 times between Dec 1, 2016 and Mar 14, 2018, with 234 videos captured. Other results include "http://ChristWire.org" (113 videos), "http://DuhProgressive.com" (526 videos), and "http://NewsMutiny.com" (22 videos).



The screenshot shows the Internet Archive interface for a collection titled "“Fake News”" collected by Mark Graham. The breadcrumb trail is "Explore >> Mark Graham >> “Fake News”". The collection description states it was archived since November 2016 and includes a description: "This collection is based on a “seed” list of URLs from a Google Doc about “False, Misleading, Clickbait-y, and/or Satirical “News” Sources” published on November 18th, 2016, by Melissa Zimdars, an assistant professor of communication and media at Merrimack College." Below the "Narrow Your Results" section, there are search filters for "Sites" and "Search Page Text". The results list shows "Page 1 of 1 (74 Total Results)" with sorting options for Title (A-Z), Title (Z-A), URL (A-Z), and URL (Z-A). The first result is for "http://21stCenturyWire.com/", captured 1842 times between Nov 18, 2016 and Apr 9, 2018, with 2822 videos captured. Other results include "http://70news.wordpress.com/" (2039 videos), "http://Abcnews.com.co/" (41 videos), and "http://ActivistPost.com/" (9077 videos).

## Collaborative Web Archiving Projects

- UC Libraries, Stanford, CA State Library, CA State Archives
  - CA.gov
- Ivy Plus Libraries Web Resources Collection Program
  - CAUSEWAY, Contemporary Composers
- New York Art Resources Consortium (NYARC)
- IIPC Content Development Group
  - Olympics, Global News
- Internet Archive, LoC, Stanford, CDL, et al.
  - End of Term
- Canadian Web Archiving Coalition (CWAC)
- Preservation of Electronic Government Information (PEGI)

One-year collaborative project between CDL, Harvard University, and UCLA,  
funded by IMLS #LG-70-16-0093-16

Public online service hosted at CDL

Targeting initial production release in conjunction with the November 2018  
IIPC General Assembly and Web Archiving Conference

*<https://cdlib.org/services/cobweb/>*

*<https://github.com/CobwebOrg/cobweb>*





# cobWeb timeline

Activity	Dates
Develop user personas and user stories, user data gathering	August – October 2017
Establish functional requirements, refine metadata specifications	August 2017 – January 2018
Develop core functionality, import sample holdings metadata	September – November 2017
Draft workflows and wireframes	October – November 2017
First prototype rollout	November 2017
User testing, data gathering	December 2017 – July 2018
Iterative development on prototype refinements, continue importing holdings metadata	December 2017 – July 2018
Prototype rollouts	May 2018, July 2018
Beta testing	April - September 2018
Production system rollout	September/October 2018
Sustainability planning	July – October 2018

### **Conferences/Professional Associations:**

Archive-It Partner Meeting, AoIR, Dodging the Memory Hole, ARLIS/NA, UC-DLFX, CNI, SAA (Web Archiving Section), DLF, IIPC

### **Platforms/Communities:**

Internet Archive's Archive-It, Rhizome's webrecorder.io

### **Collaborative Web Archiving Projects we've been talking to:**

- UC Libraries, Stanford, CA State Library, CA State Archives
  - CA.gov
- Ivy Plus Libraries Web Resources Collection Program
  - CAUSEWAY, Contemporary Composers
- New York Art Resources Consortium (NYARC)



# cobWeb roles and collaboration

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## The Team

Project and Outreach Management

CDL

Development and Technical Oversight

UCLA

UI/UX Development and Testing

Harvard

## Team Intersections

- Data model
- Functional requirements
- Metadata flows, requirements, specs
- User data, feedback
- Wireframe review
- Prototype review and walkthroughs



## Our Process

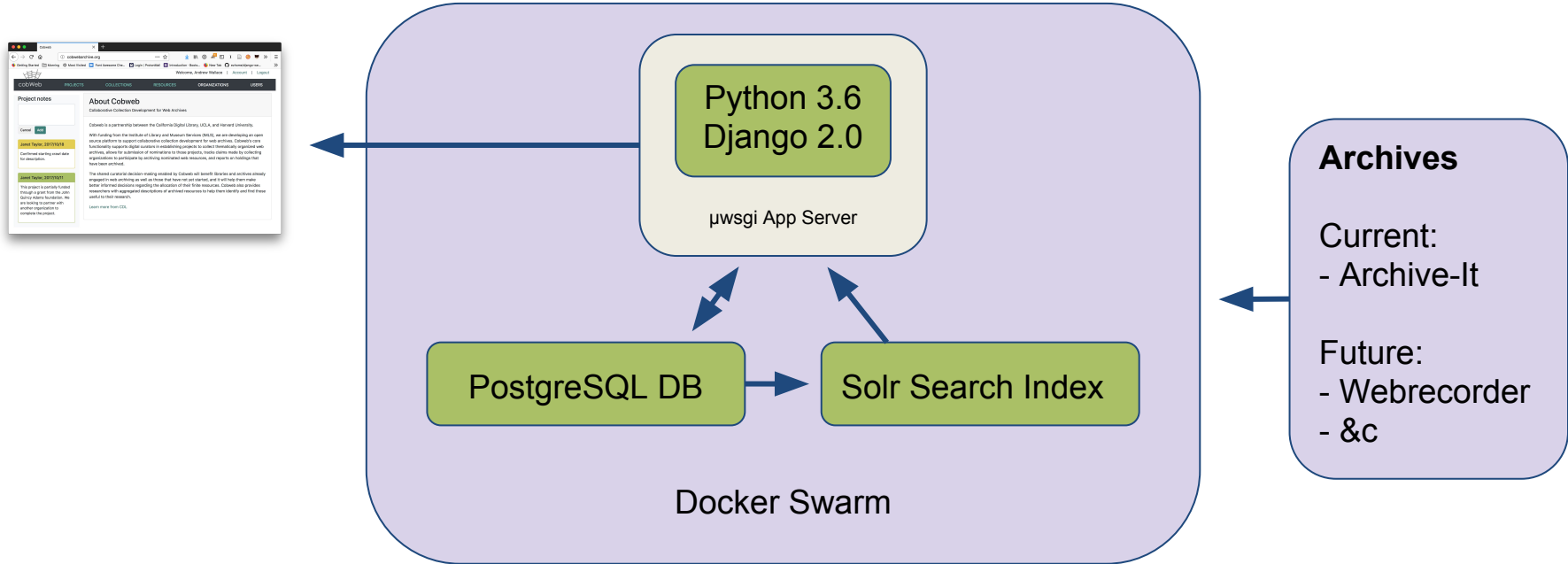
Agile approach (two-week sprints), iterative and collaborative approaches:

- collecting user data
- translating user data -> workflows -> functionality/interfaces
- confirming functional reqs
- sprint prep/retros

## Collaboration Tools

- bi-weekly Zoom calls
- Slack for day-to-day check ins
- Google suite for doc drafting and sharing
- GitHub for source control, planning boards, and issue tracking

# cobWeb technical stack



Agile, sprint-based development

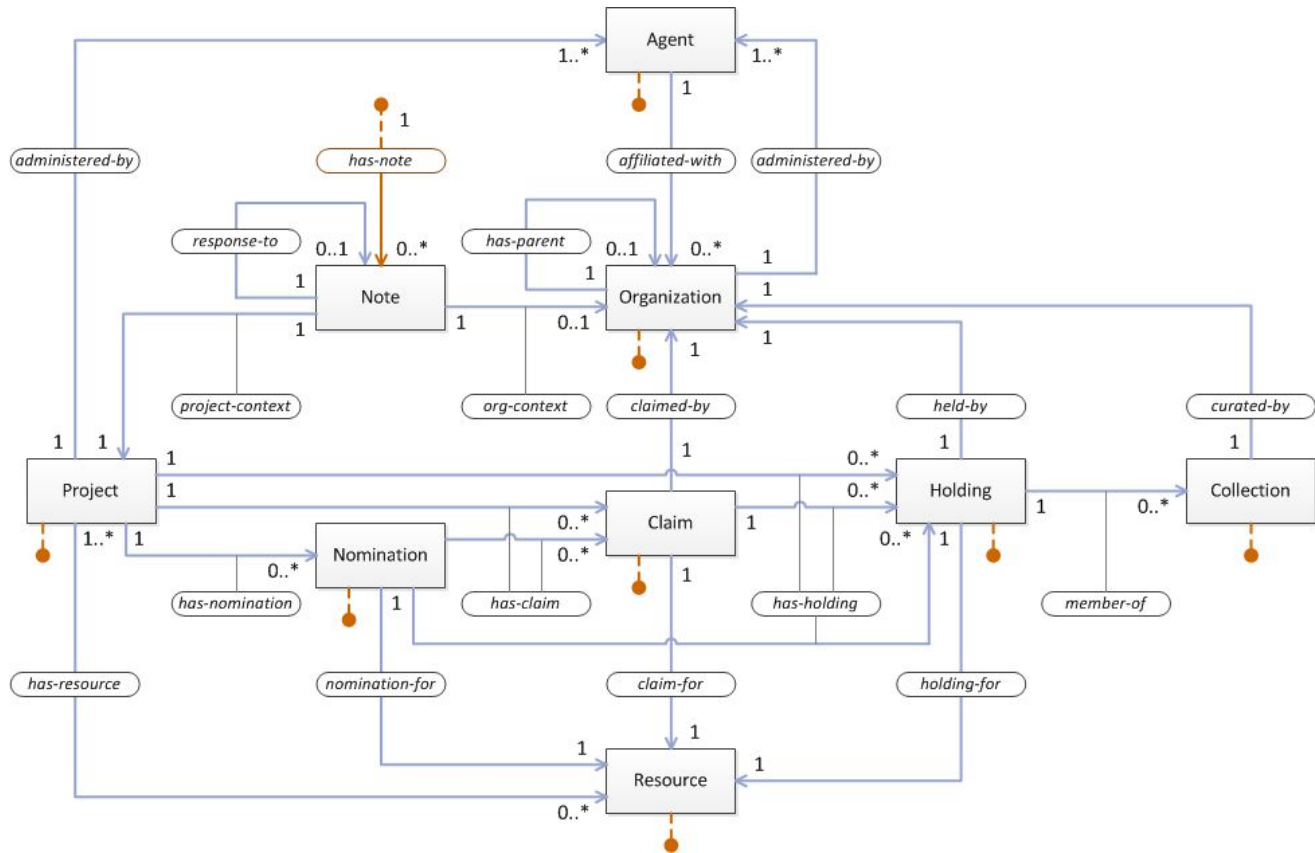
MIT software license

<https://github.com/CobwebOrg/cobweb>





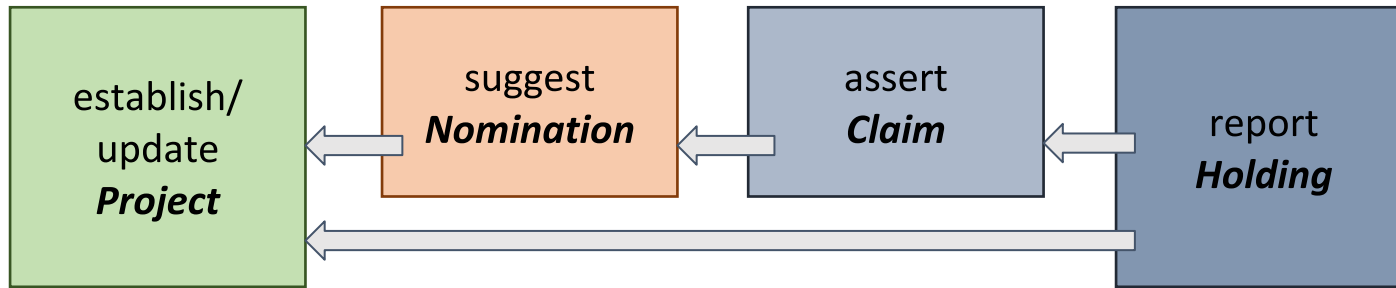
# cobWeb data model



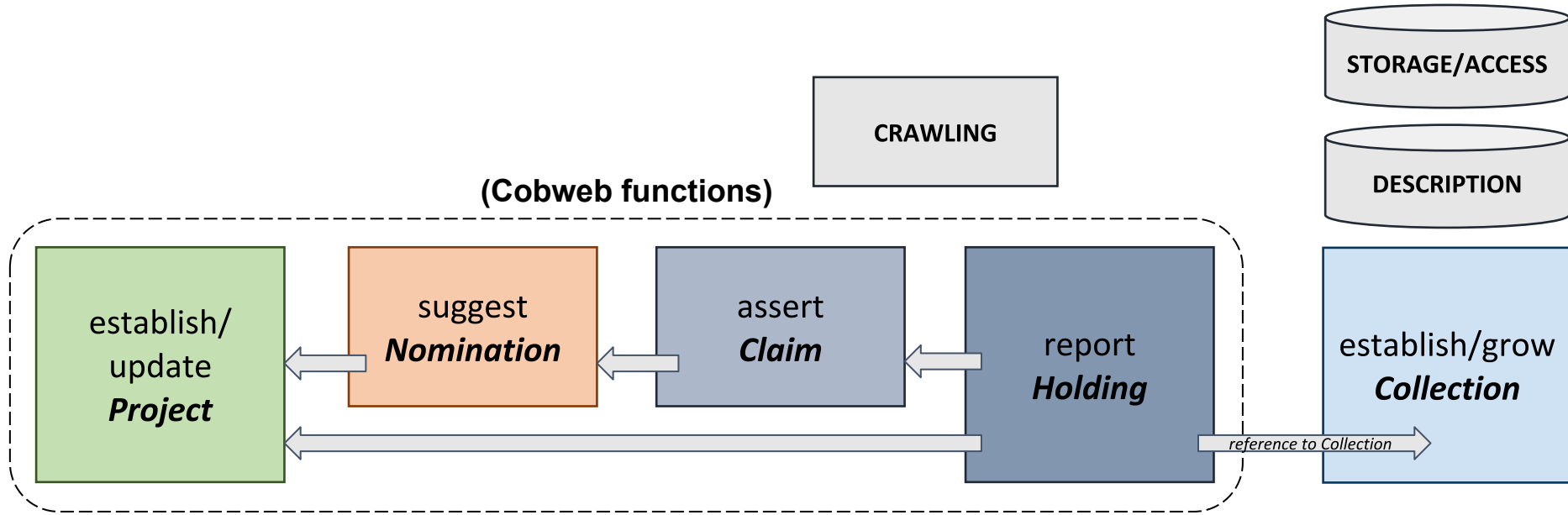


# cobWeb functionality - core activities

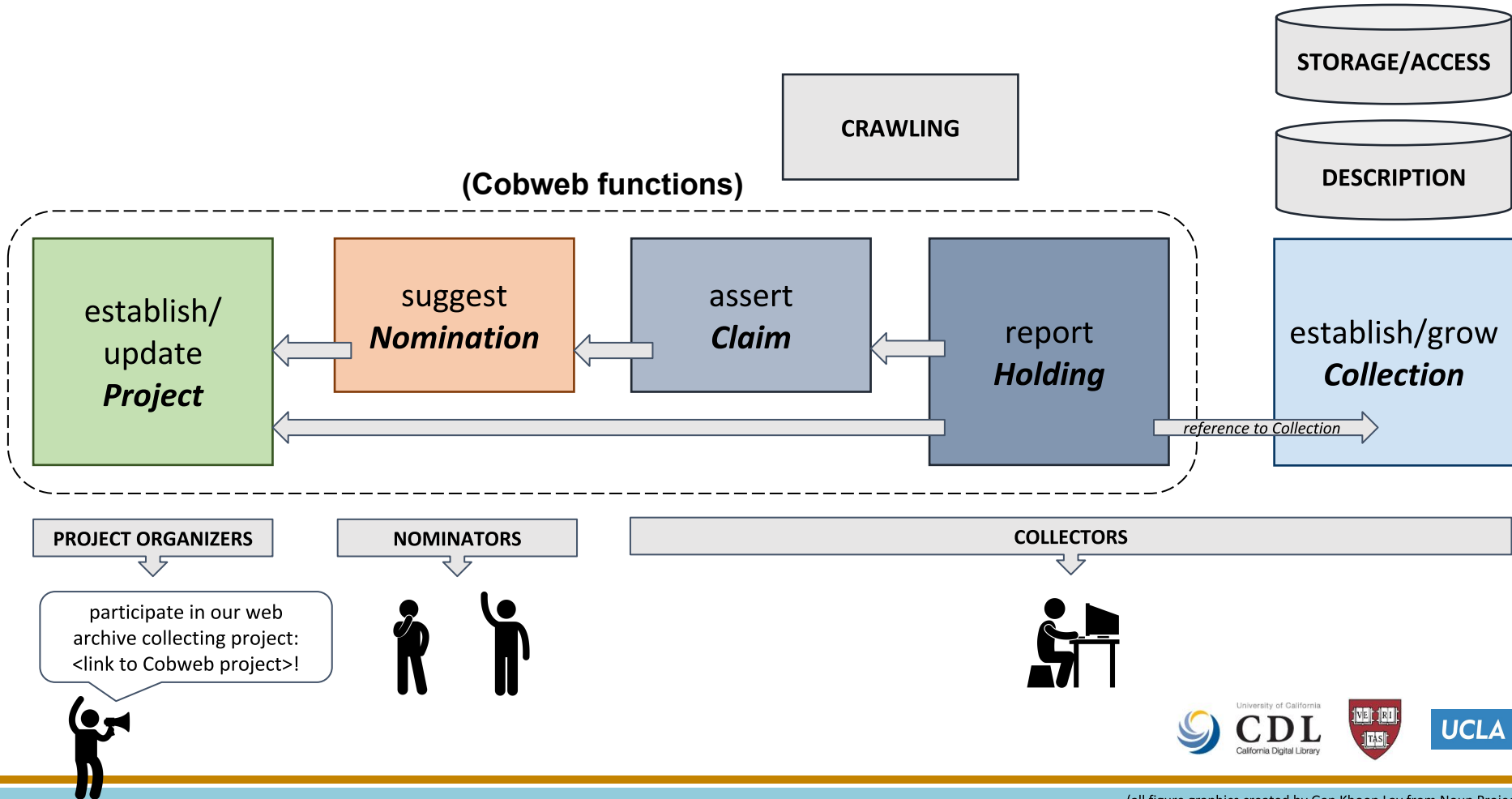
---



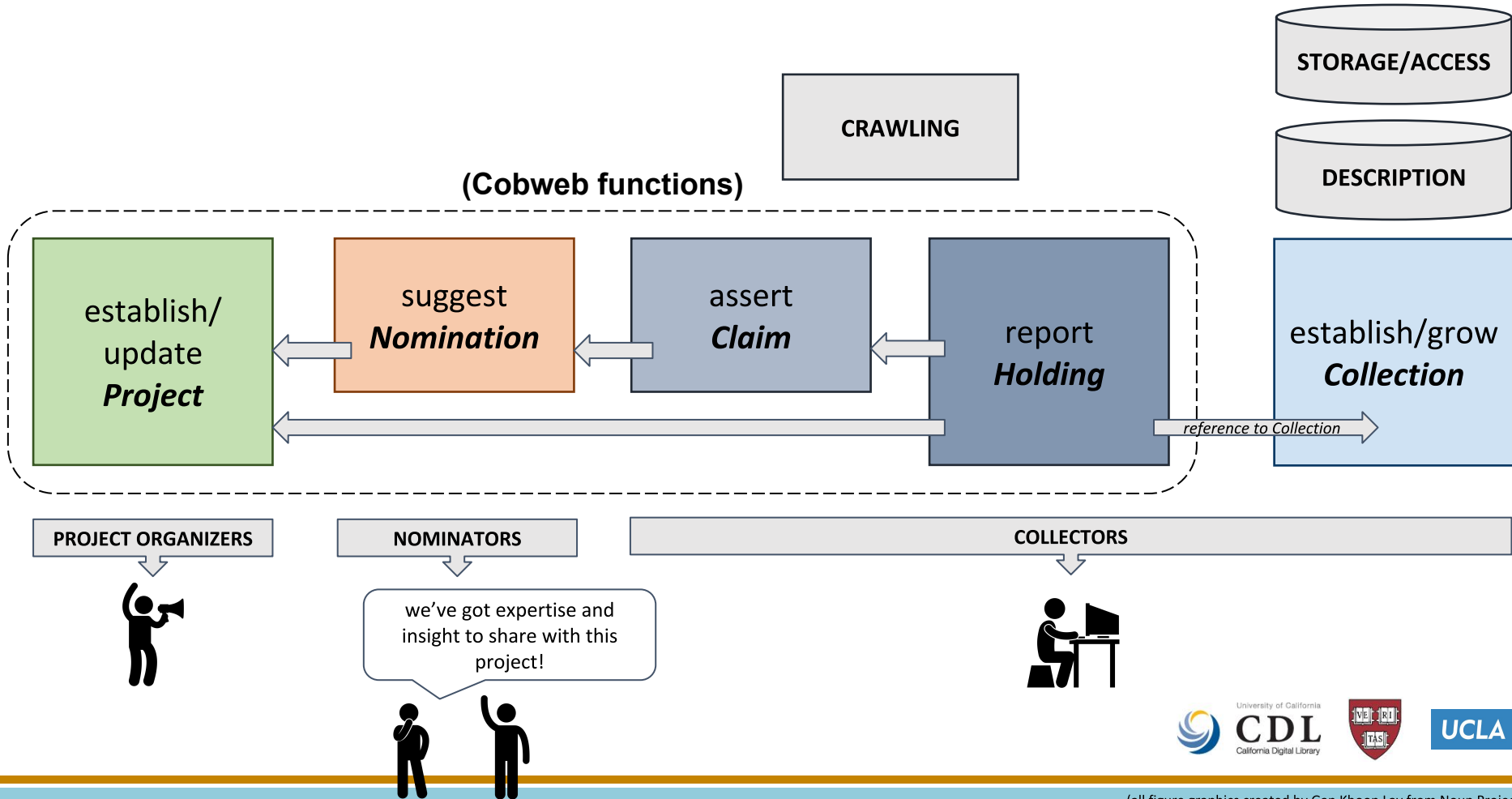
# cobWeb functionality - related external activities



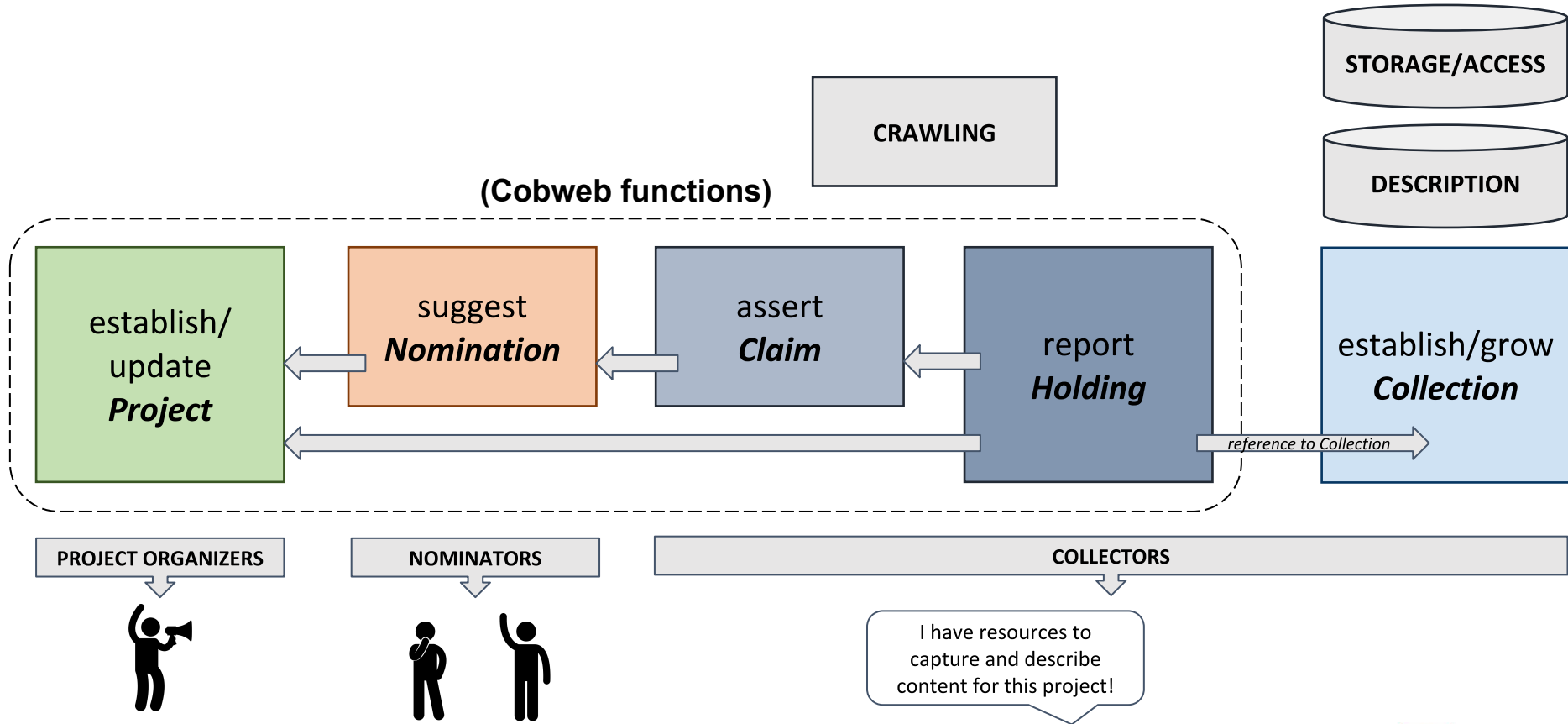
# cobWeb functional user roles



# cobWeb functional user roles



# cobWeb functional user roles



University of California  
**CDL**  
California Digital Library



**UCLA**



# cobWeb functionality - addressing current workflows

pre-Cobweb collaboration approaches			
Collecting Scope	Nomination Management	Crawling Distribution	Holdings Description
<ul style="list-style-type: none"> <li>- negotiated through ad-hoc communication channels</li> <li>- established without good visibility into others' collecting activities</li> <li>- shared publicly on independent websites or nomination recruitment forms</li> </ul>	<ul style="list-style-type: none"> <li>- input via shared spreadsheets or forms (e.g., Google products) or UNT nomination tool</li> <li>- seed list grooming via shared spreadsheets</li> <li>- need for addressing time-sensitive nominations</li> </ul>	<ul style="list-style-type: none"> <li>- not well supported by any existing tools</li> <li>- many collaborative web archiving projects centralize crawling activities, though some distribute labor within a team (e.g., multi-agent access to a shared AIT account)</li> </ul>	<ul style="list-style-type: none"> <li>- typically part of thematic collections, established within crawling/storage/access platforms</li> <li>- typically described by DC or MARC metadata at the collection and seed level within one or more discovery environments</li> </ul>



## Project

### Project notes

Cancel **Add**

#### Janet Taylor, 2017/10/18

Confirmed starting crawl date for description.

#### Janet Taylor, 2017/10/11

This project is partially funded through a grant from the John Quincy Adams foundation. We are looking to partner with another organization to complete the project.

## Projects

- Open nominations project. 1 ⚙ 2 ⚙
- Milton, Massachusetts 1 ⚙
- Mount Holyoke College 1 ⚙
- Hague, New York
- Dodging the memory hole project
- Propaganda, disinformation, parody, dismissal: Making sense of "Fake News". 996 ⚙
- Zlata Praha
- Zlata Praha
- Recusandae quo autem earum.
- Nulla sed odit porro dicta consectetur nisi fugit.
- Blanditiis laborum asperiores suscipit fugit vero quam.
- Accusantium animi tenetur temporibus.
- Accusantium culpa architecto aspernatur ullam.
- Pariatur vitae eaque.
- Accusantium quo facilis veniam voluptatum rem.
- Temporibus perspiciatis aspernatur aperiam labore totam totam voluptates.
- Nostrum fugit at cum sapiente.
- Ducimus sed vel adipisci numquam.
- Modi odit voluptates dignissimos.
- FAKE News!!!
- Organization Project to Organize 1 ⚙ 2 ⚙







# Project

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Cancel

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# Propaganda, disinformation, parody, dismissal: Making sense of "Fake News".

Status:  
Active

Administrators:

Description: This project captures and categorizes online sources that purport to provide news coverage of current events.

Keywords:

Nomination policy: Open

Nominators:

## Nominations

- <http://100percentdedup.com/>  -   [claim]
- <http://16wmpo.com/>  -   [claim]
- <http://21stcenturywire.com/>  -   [claim]
- <http://24newsflash.com/>  -   [claim]
- <http://24wpm.com/>  -   [claim]
- <http://365usanews.com/>   -   [claim]
- <http://4therevolutionarywar.wordpress.com/>   -   [claim]
- <http://770news.wordpress.com/>  -   [claim]
- <http://82.221.129.208/>   -   [claim]
- <http://aanirfan.blogspot.co.uk/>  -   [claim]
- <http://abcnews.com.co/>  -   [claim]
- <http://abcnewsgo.co/>  -   [claim]
- <http://abeldanger.net/>  -   [claim]
- <http://abovetopsecret.com/>   -   [claim]
- <http://abriluno.com/>   -   [claim]
- <http://aceflashman.wordpress.com/>  -   [claim]
- <http://actforamerica.org/news>  -   [claim]
- <http://acting-man.com/>   -   [claim]
- <http://activistpost.com/>  -   [claim]
- <http://actualidadpanamericana.com/>  -   [claim]
- <http://addictinginfo.org/>   -   [claim]
- <http://adffegal.org/media>  -   [claim]
- <http://adobochronicles.com/>  -   [claim]
- <http://advocate.com/>   -   [claim]
- <http://aheadoftheherd.com/>  -   [claim]





# Project

## Project notes

Cancel

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# Propaganda, disinformation, parody, dismissal: Making sense of "Fake News".



Status:  
Active

Administrators:  
[Janet Taylor](#) [Peter Broadwell](#) [Stephen Abrams](#) [Kathryn Stine](#)

Description: This project captures and categorizes online sources that purport to provide news coverage of current events.

Keywords: [misinformation](#) [online news](#) [fake news](#) [bias in news](#)

Nomination policy: Open  
Nominators:

## Nominations

[+ Add a nomination](#)

- <http://100percentfedup.com/> [bias](#) - [0](#) [✓](#) [claim]
- <http://16wmpo.com/> [fake](#) - [0](#) [✓](#) [claim]
- <http://21stcenturywire.com/> [conspiracy](#) - [0](#) [✓](#) [claim]
- <http://24newsflash.com/> [fake](#) - [0](#) [✓](#) [claim]
- <http://24wfn.com/> [fake](#) - [0](#) [✓](#) [claim]
- <http://365usanews.com/> [bias](#) [conspiracy](#) - [0](#) [✓](#) [claim]
- <http://4threvolutionarywar.wordpress.com/> [bias](#) [conspiracy](#) - [0](#) [✓](#) [claim]
- <http://70news.wordpress.com/> [fake](#) - [0](#) [✓](#) [claim]
- <http://82.221.129.208/> [fake](#) [conspiracy](#) - [0](#) [✓](#) [claim]
- <http://aanirfan.blogspot.co.uk/> [unreliable](#) - [0](#) [✓](#) [claim]
- <http://abcnews.com.co/> [fake](#) - [0](#) [✓](#) [claim]
- <http://abcnewsgo.co/> [fake](#) - [0](#) [✓](#) [claim]
- <http://abeldanger.net/> [conspiracy](#) - [0](#) [✓](#) [claim]
- <http://abovetopsecret.com/> [conspiracy](#) [rumor](#) - [0](#) [✓](#) [claim]
- <http://abriluno.com/> [fake](#) [satire](#) - [0](#) [✓](#) [claim]
- <http://aceflashman.wordpress.com/> [satire](#) - [0](#) [✓](#) [claim]
- <http://actforamerica.org/news> [hate](#) - [0](#) [✓](#) [claim]
- <http://acting-man.com/> [conspiracy](#) [unreliable](#) - [0](#) [✓](#) [claim]
- <http://activistpost.com/> [conspiracy](#) - [0](#) [✓](#) [claim]
- <http://actualidadpanamericana.com/> [satire](#) - [0](#) [✓](#) [claim]
- <http://addictinginfo.org/> [unreliable](#) [clickbait](#) - [0](#) [✓](#) [claim]
- <http://adfllegal.org/media> [hate](#) - [0](#) [✓](#) [claim]
- <http://adobochronicles.com/> [satire](#) - [0](#) [✓](#) [claim]
- <http://advocate.com/> [political](#) [reliable](#) - [0](#) [✓](#) [claim]
- <http://aheadoftheherd.com/> [bias](#) - [0](#) [✓](#) [claim]





## Nomination

### Project notes

Cancel

Add

#### Janet Taylor, 2017/10/18

Confirmed starting crawl date for description.

#### Janet Taylor, 2017/10/11

This project is partially funded through a grant from the John Quincy Adams foundation. We are looking to partner with another organization to complete the project.

Title

Resource\*

Project\*

Status\*

Description

Keywords

Cancel

Submit





## Project

### Project notes

[Cancel](#) [Add](#)

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- <http://abovetopsecret.com/> [conspiracy](#) [rumor](#) - [0](#) [✓](#) [claim]
- <http://abriluno.com/> [fake](#) [satire](#) - [0](#) [✓](#) [claim]
- <http://aceflashman.wordpress.com/> [satire](#) - [0](#) [✓](#) [claim]
- <http://actforamerica.org/news> [hate](#) - [0](#) [✓](#) [claim]
- <http://acting-man.com/> [conspiracy](#) [unreliable](#) - [0](#) [✓](#) [claim]
- <http://activistpost.com/> [conspiracy](#) - [0](#) [✓](#) [claim]
- <http://actualidadpanamericana.com/> [satire](#) - [0](#) [✓](#) [claim]
- <http://addictinginfo.org/> [unreliable](#) [clickbait](#) - [0](#) [✓](#) [claim]
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- <http://adobochronicles.com/> [satire](#) - [0](#) [✓](#) [claim]
- <http://advocate.com/> [political](#) [reliable](#) - [0](#) [✓](#) [claim]
- <http://aheadoftheherd.com/> [bias](#) - [0](#) [✓](#) [claim]





# Claim

## Project notes

Cancel

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Confirmed starting crawl date for description.

**Janet Taylor, 2017/10/11**

This project is partially funded through a grant from the John Quincy Adams foundation. We are looking to partner with another organization to complete the project.

### Nomination\*

<http://americablog.com/> – Project Propaganda, disinformation, parody, dismissal: Making sense of "Fake News".

### Collection\*

### Description

### Keywords





# Project

## Project notes

Cancel **Add**

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Title

Status\*

Active ▾

Administrators\*

x Kathryn Stine

Description

Keywords

Nomination policy\*

- Anonymous: anyone can nominate, even if they're not logged in.
- Open: anyone with a Cobweb account can nominate.
- Restricted: only selected users can nominate.

Nominators

Nominator blacklist

Cancel **Submit**





## Resource

### Project notes

Cancel **Add**

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#### Janet Taylor, 2017/10/11

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## http://newsmutiny.com/

Nominate to another project.

### Nomination

in Propaganda, disinformation, parody, dismissal: Making sense of "Fake News".

#### Keywords

fake  satire

### Holding

in Fake News

#### Identifier:

http://wayback.archive-it.org/81717/http://NewsMutiny.com





## Resource

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## <http://folklore.gmu.edu/>

Nominate to another project.

### Holding

in Open Folklore Web Archive  
Mason's Folklore Studies Program is a leading center for the study of vernacular cultures and the historical, cultural and social context in which these cultures are rooted. The program has a distinguished 35-year history that offers students of all levels opportunities to study the broad range of human expression including narrative, dance, material culture, verbal art, cultural performances, foodways, and sense of place. Our diverse course offerings provide theoretical and historical grounding in the study of folklore with a strong emphasis in writing and ethnographic research methods.

**Type:**  
Web Archive

**Creator:**  
George Mason University

**Subject:**  
Post-Secondary Education, Dance, Arts, Performance, Foodways, Storytelling

**Publisher:**  
George Mason University

**Identifier:**  
<http://wayback.archive-it.org/28437/http://folklore.gmu.edu/>





Cobweb is a tool for collecting communities...

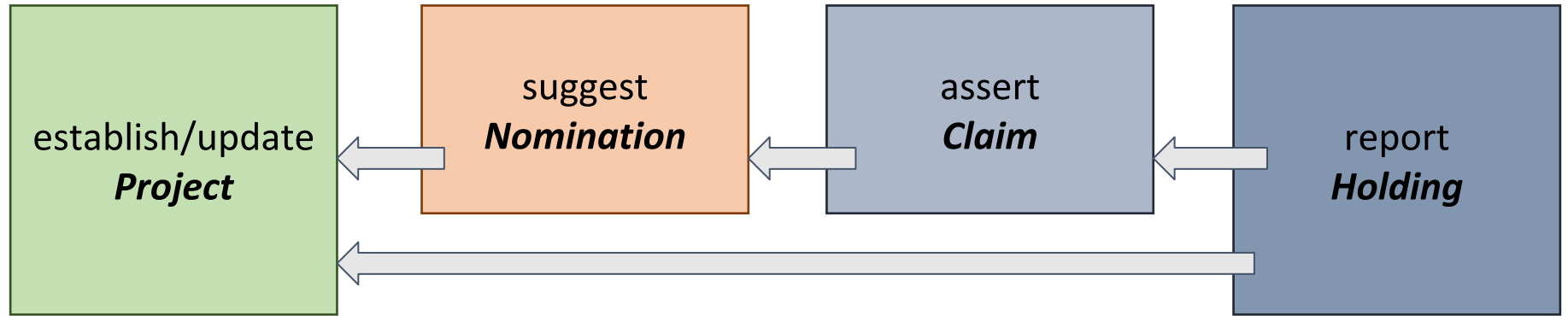
- Keep learning about collaborative web archive collecting projects and workflows
  - April: Interviews about workflows (focus on roles and collaboration)
  - May: Task-based prototype testing
- Functional requirements -> wireframing -> next prototype development
- Responding to user testing findings
- Considering how Cobweb fits with other tools and workflow steps
- Focusing on metadata inputs, outputs

Cobweb is a tool for collecting communities  
and perhaps not just those collecting web resources...



# cobWeb functionality - core activities

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## Cobweb affordances for:

- Establishing collecting projects
  - collection development?
  - collection management?
- Nominating resources for...
- Claiming intentions for nominated resources
- Reporting holdings

# Q & A

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Questions?

Institute for Museum and Library Services (IMLS) #LG-70-16-0093-16

Cobweb Advisory Board:

- Jefferson Bailey, Internet Archive
- Andrea Goethals, National Library of New Zealand
- Michael Nelson, Old Dominion University
- Mark Phillips, University of North Texas
- Alex Thurman, Columbia University
- Herbert Van de Sompel, Los Alamos National Lab

Martin Klein, Los Alamos National Lab

Rosalie Lack, UCLA

## *Collaborative Collection Development for Web Archives*

*#cobwebarchive*

*<https://cdlib.org/services/cobweb/>*

*<https://github.com/CobwebOrg/cobweb>*

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California Digital Library

*<https://www.cdlib.org/>*

Harvard University Library

*<http://library.harvard.edu/>*

UCLA Libraries

*<http://www.library.ucla.edu/>*