Information sharing about Columbia University Library's recent web archiving conference
Web Archiving Collaboration: New Tools and Models

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2015 Archive-It Partner Meeting
August 18, 2015

- This conference was part of a set of projects within a Mellon funded project

- About 10 slide decks on associated Mellon supported web archiving collaborations are available on SlideShare: http://www.slideshare.net/annaperricci

THE ANDREW W. MELLON FOUNDATION

We had a conference
(it was pretty awesome)

Conference: why & how

- This conference was a follow up to incentive awards program for improving web archiving tools

- Goals:
  - Share results of funded projects and foster conversations about application & extensibility of work done
  - Provide information about other new collaborative models for web archiving
- Space limitations - Day 1 and Day 2
  - Videos: https://www.youtube.com/playlist?list=PLf1Dab4lwQhBpFRB1dpUnKLglmM2iScjl
- Co-organizers
  - Bob Wolven, Alex Thurman and Anna Perricci
  - Thanks also to many volunteers and those kindly conscripted

Keynote address

https://www.youtube.com/watch?v=kr82McjQGyQ&index=1&list=PLf1Dab4lwQhBpFRB1dpUnKLglmM2iScjl

We need radical collaborative models to do a better job preserving & making available born digital materials

Incentive award winners: Preserving online law content

https://www.youtube.com/watch?v=t_qZ4hNtmyw&index=2&list=PLf1Dab4lwQhBpFRB1dpUnKLglmM2iScjl

Free Law Project

Free Law Project & developments

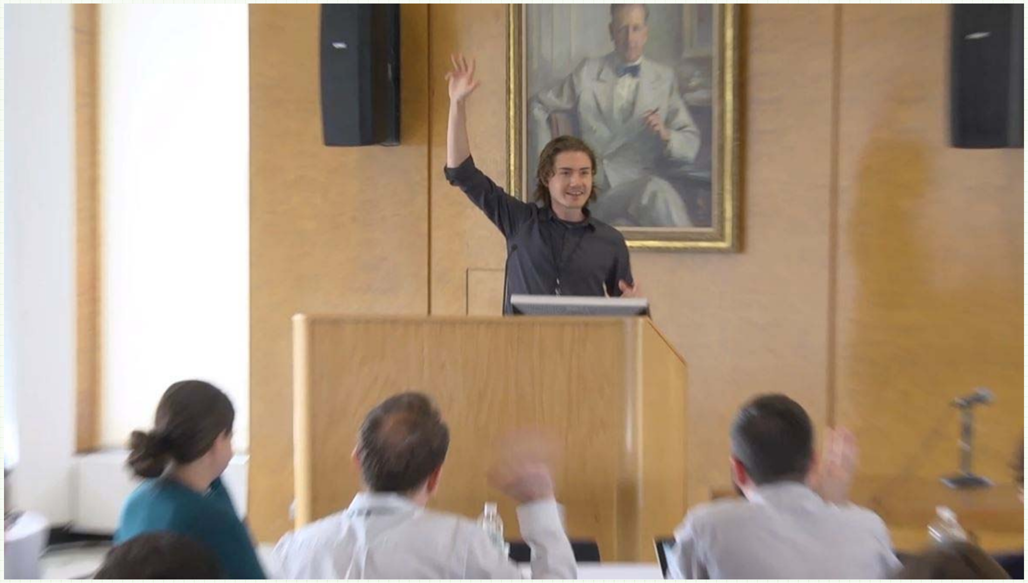
Free Law Project goals:

- Put entirety of US Case Law online for the public for free
- Develop web-based legal research tools
- Support academic research on legal corpora
- See CourtListener: https://www.courtlistener.com

Results from grant

- Expanded capacity of Juriscraper to harvest opinions on appellate court websites & involve wider community in scraping work
  - https://github.com/freelawproject/juriscraper
  - Over 200 web pages checked every weekday, harvest when changes detected
  - Federal circuit courts and Supreme Court; now covers all state courts of last resort & most intermediate appellate state courts
- Capture oral arguments
- Collaborative work with RECAP

Perma.cc



Perma.cc

- Premise: https://perma.cc/about
  - Per http://dx.doi.org/10.2139/ssrn.2329161 “approximately 70% of all links in citations published between 1999 and 2011 no longer point to the same material. Broken links in journal articles undermine the citation-based system of legal scholarship by obscuring the evidence underlying authors’ ideas.”
- “Any author can go to the Perma.cc website and input a URL. Perma.cc downloads the material at that URL and gives back a new URL (a “Perma.cc link”) that can then be inserted in a paper.”
- There are some more steps to read about on their website, including some stats: https://perma.cc/stats

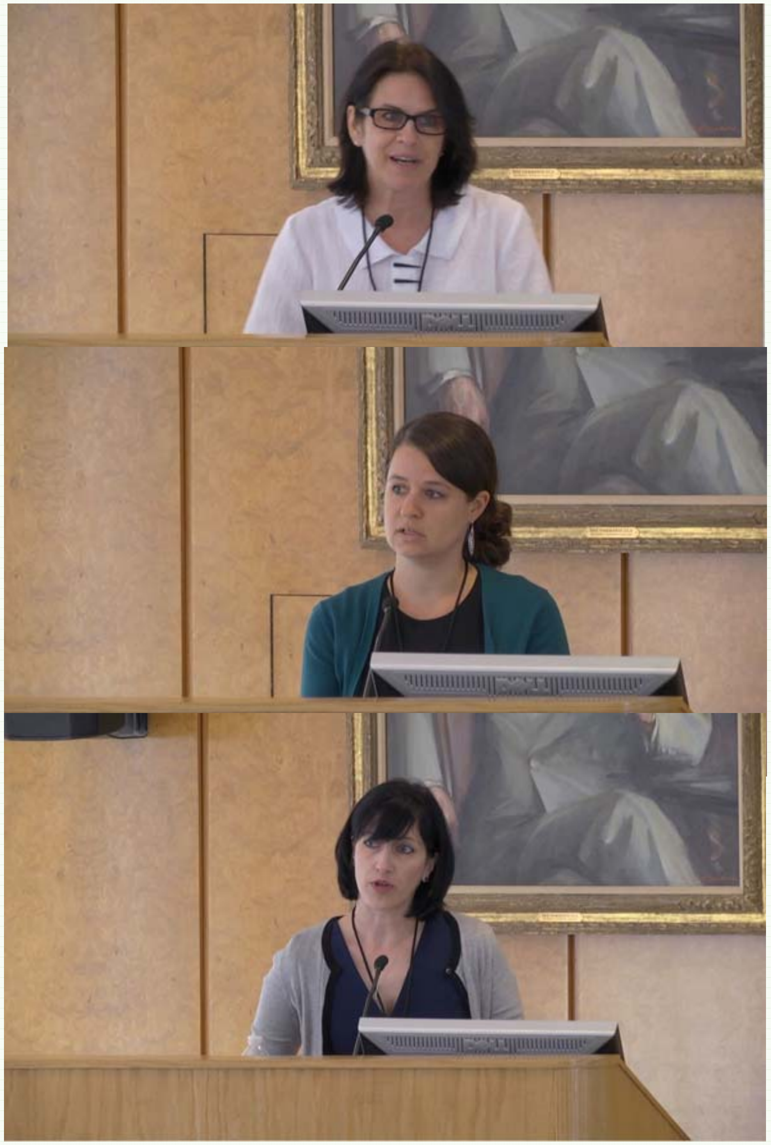
Results

Better APIs for greater extensibility of tools and wider use of technology in other settings / for other services

New collaborative models

https://www.youtube.com/watch?v=ntAP064ZdBM&list=PLf1Dab4lwQhBpFRB1dpUnKLglmM2iScjl&index=3

New York Art Resources Consortium (NYARC)



- NYARC is a consortium of museum libraries at the Frick Collection, the Museum of Modern Art and the Brooklyn Museum

- With Mellon funding they are preserving and making available websites on themes ranging from artists websites to their own institutions' websites to resources for restitution related research

- Cutting edge work on access via a discovery layer is in progress

- They are leaders in work on quality assurance
  - Excellent resource created by NDSR resident: http://wiki.nyarc.org/web-archiving/quality-assurance

Collaborative collecting with Ivy Plus

International Internet Preservation Consortium (IIPC) collaborative collections

- Access working group of the IIPC is leading an initiative to collaboratively collect websites on topics of international interest

- Complications and challenges arose particularly in determining collecting themes and given variations in laws governing intellectual property

- Archive-It chosen as tool for creating collection

- No spoiler alert: watch the video to see historic moment in IIPC's collaborative collecting

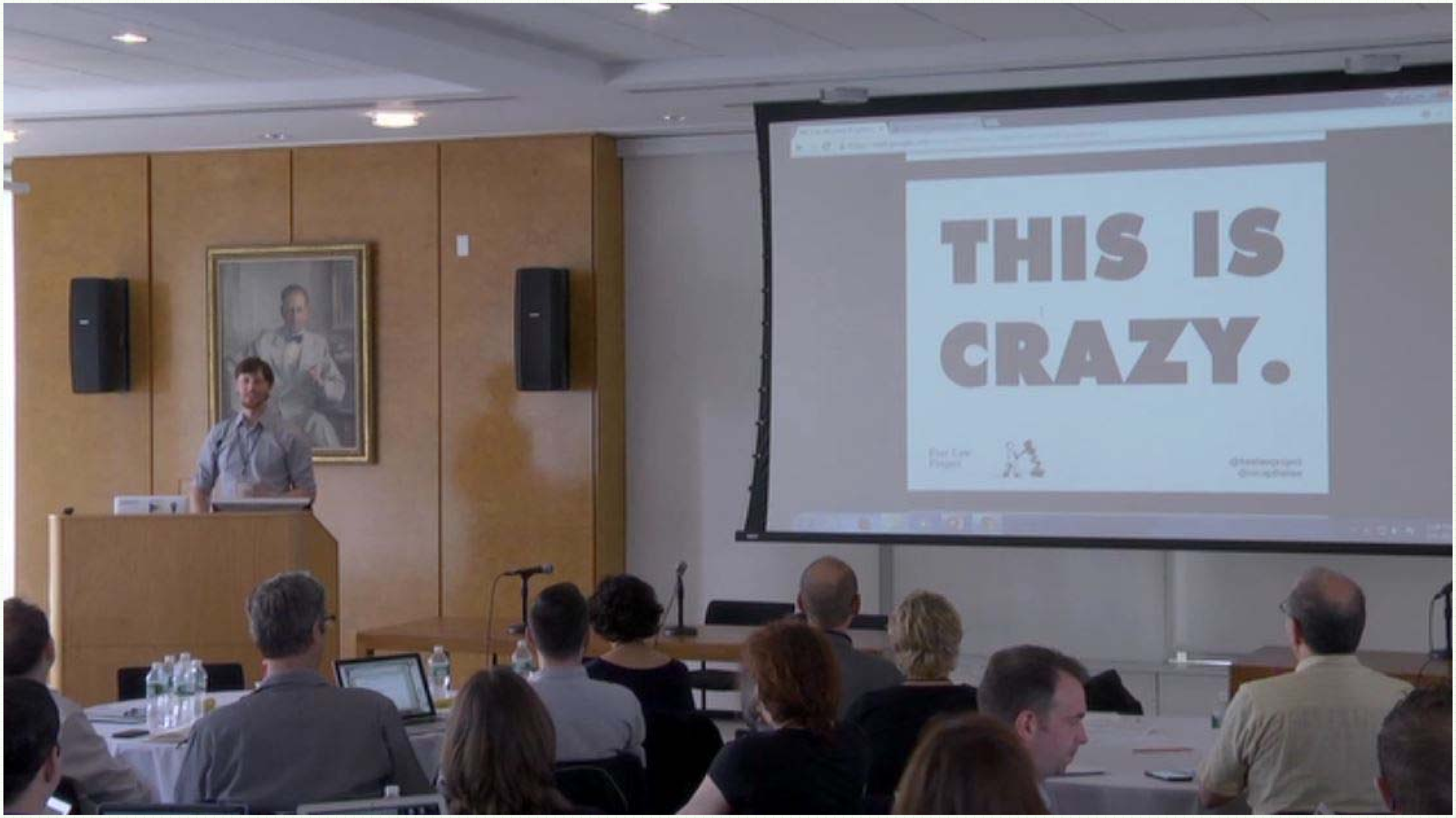
Lunch

Image source: http://www.omgcatsinspace.com/post/38940531331

Lightning Talks

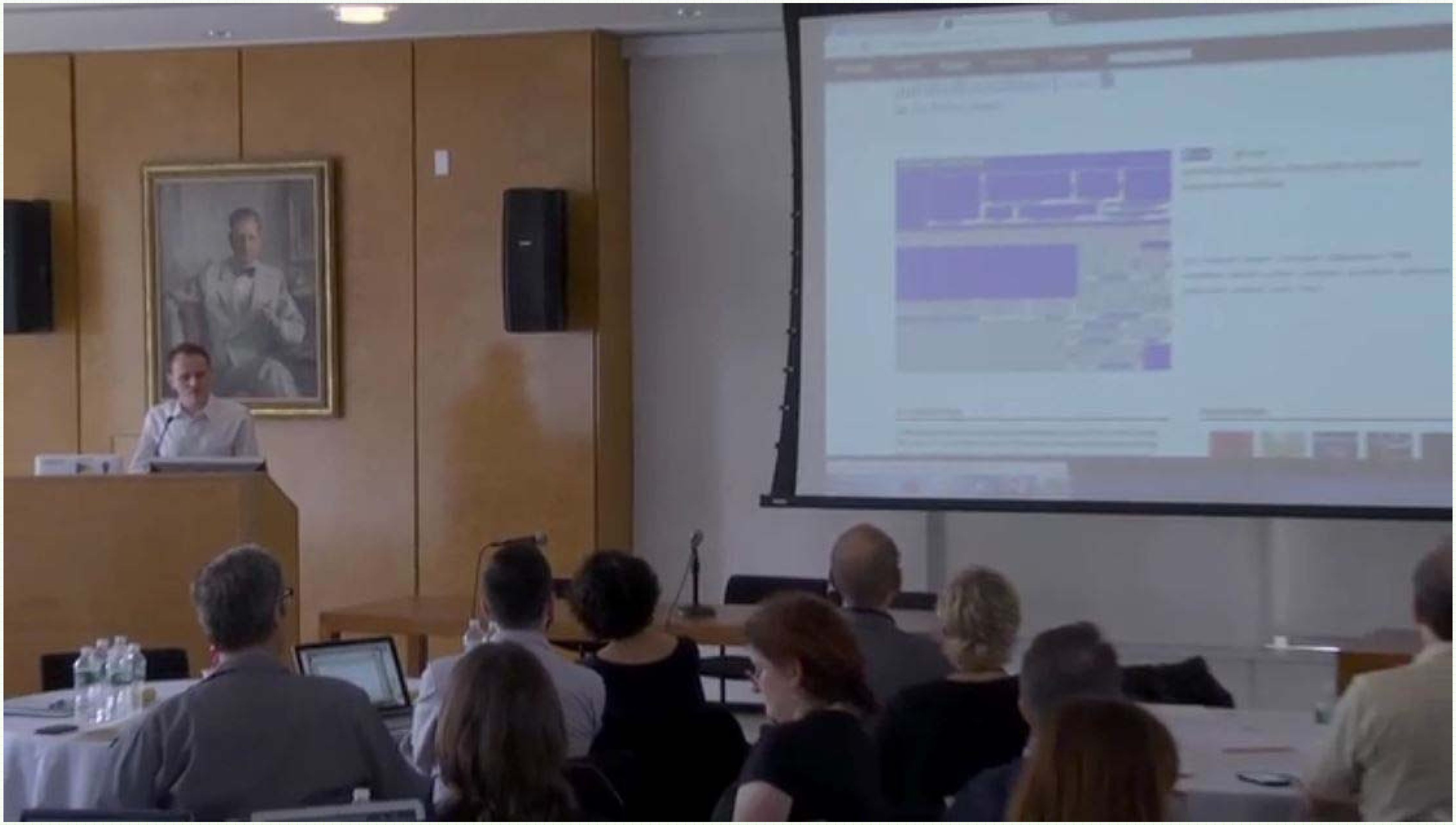
https://www.youtube.com/watch?v=jqrC0Ygdc-M&list=PLf1Dab4lwQhBpFRB1dpUnKLglmM2iScjl&index=4

Lightning talks: Michael Lissner on RECAP



Lightning talks: Jefferson Bailey on Archive-It Researcher Services

Lightning talks: Dragan Espenschied on Rhizome's web archiving work



Lightning talks: Dan Chudnov on Social Feed Manager

Lightning talks: Jack Cushman on Tools for Time Travel

Incentive award winners: New platforms

https://www.youtube.com/watch?v=6h8MohBSEtI&index=5&list=PLf1Dab4lwQhBpFRB1dpUnKLglmM2iScjl

Warcbase: Building a scalable platform on HBase and Hadoop

Desiderata
Scalable storage of archived data
Efficient random access
Scalable processing and analytics
Scalable storage and access of derived data
hadoop
APACHE
HBASE

Warcbase

Warcbase is an open-source platform for storing, managing, and analyzing web archives using current “big data" infrastructure and tools (e.g. HBase for storage, Hadoop for data analytics)

-further applications on ‘wimpy hardware’ (Raspberry Pi) also demonstrated for personal digital archiving

For more information on Ian’s work:
http://ianmilligan.ca/

For more information on Warcbase:
https://github.com/lintool/warcbase

Archiving transactions towards an uninterruptible web service

Webmasters can benefit from web archiving!

Archiving transactions towards an uninterruptible web service

Goal: create and leverage existing tools so when a web resource is unavailable due to some interruption of a key service an archived copy will be provided to an end user

- Web archives can serve as a value-added collection to motivate web archiving as a tool for day-to-day IT operation

For more information see: https://www.cs.vt.edu/node/7650

Incentive award winners: New curation tools for web archivists

https://www.youtube.com/watch?v=yeuk_vIOXcw&list=PLf1Dab4lwQhBpFRB1dpUnKLglmM2iScjl&index=6

Tools for managing seed URIs

Tools for managing seed URIs

- Results: developed tool to enable curators to evaluate and detect when their web archives are off topic or discover new seed sites to include in collections
- For more information see: https://github.com/yasmina85/offtopic-Detection

Visualizing Digital Collections of Web Archives

Visualizing Digital Collections of Web Archives

Results: developed tool for showing how a single web page changes over time

For more information see:
https://github.com/machawk1/ArchiveThumbnails,
http://thumbnails.cs.odu.edu:15421,
https://github.com/machawk1/ArchiveThumbnails/blob/master/CalendarResults.jsp

Exploring a national collaborative model for web archiving

https://www.youtube.com/watch?v=6f1Vj5cNAIU&index=7&list=PLf1Dab4lwQhBpFRB1dpUnKLglmM2iScjl

Day 2: smaller group discussions

- **Capture beyond traditional crawling**
  - subtopics: transactional archiving; direct ingest of publisher files; web recording
- **Collection development / Descriptive metadata & access**
  - subtopics: collaborative collection development; institutional archives; metadata workflows; non-document collections
- **Tools/APIs: integration into systems and standardization**
  - subtopics: development of tools/APIs; integration into vendor and local systems; goal of network of standardized components
- **Analysis of web archive datasets**
  - subtopics: tools; researcher perspectives
- **Preservation of scholarly & legal record / Long-term preservation**
  - subtopics: preservation of scholarly record; reference rot; long-term preservation

It was a really busy and productive day but we only have one picture

Check out the slides and videos and let us know what you think!

- See the slides, watch the videos:

https://library.columbia.edu/bts/web_resources_collection/Conferences/program.html

Feedback welcome!

Attendees of the conference are especially encouraged to keep us posted on resulting work

Thanks!

Unless otherwise noted, all images in this presentation are from the CUWARC Flickr album: https://flic.kr/s/aHskfjd54s

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