Digital Humanities: Birds of a Feather session

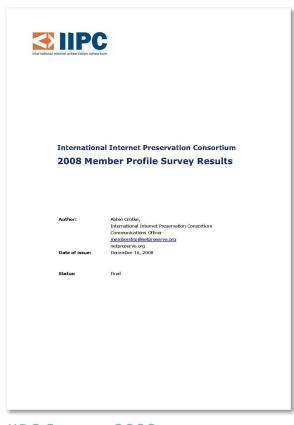
eResearch NZ 2019

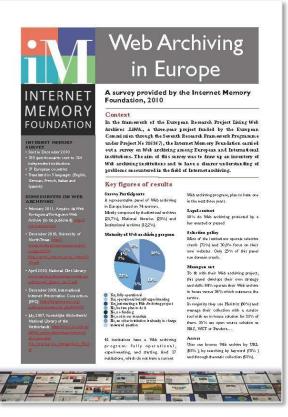
Auckland 18-20 February 2019

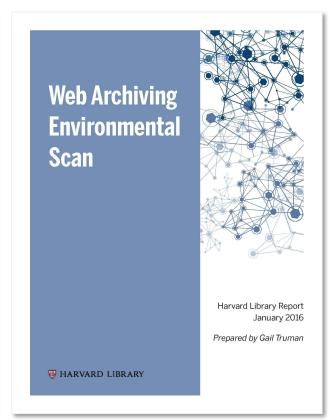
Today - 3.30 - 4.30

- 3.30 Introduction and welcome
- 3.35 What w ewant to have a look at today
- 3.40 A whip round the room
- 3.45 Three brief commentaries
- 4.00 Group exercise
- 4.20 Wrap-up and next steps

Landscape of web archiving activities







National Digital Stewardship Alliance
Web Archiving Surveys
2011, 2013, 2016, 2018

Born Digital Legal Deposit Policies and Practices, 2017



Preserving Online Multiple Information: Towards a Belgian Strategy, 2018

Internet Memory Foundation, 2010

Harvard Library, 2016

IIPC Survey, 2008 IIPC Survey, 2018

Case studies

LINK ANALYSIS

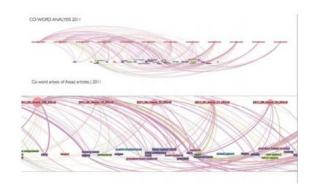


Hannes Mühleisen

Visualization of linking between websites of different languages,
Babel 2012 Web Language Connections

https://github.com/norvigaward/2012-naward25/wiki/Babel-2012---Web-Language-Connections

LINK ANALYSIS



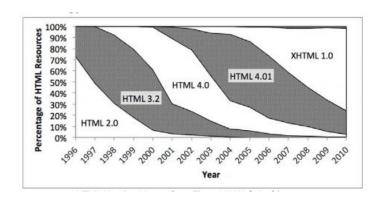
N-gram Search, UK Web Archive (British Library)

Searching the (News) Archives, Web Archive Retrieval Tools (University of Amsterdam)

Sentiment Analysis and the Reception of the Liverpool Poets, Helen Taylor (Royal Holloway)

Footprint of the world top companies, Alexandre Marah and Ferenc Szabó (University of Tewnte)

ANALYSIS OF TECHNOLOGY TRENDS



HTML Version Usage Over Time, UK Web Archive

Format Profile, UK Web Archive (British Library)

Web Data Commons, Christian Christian Bizer et al. (University of Mannheim & Karlsruhe Institute of Technology) http://webdatacommons.org/

An analysis of the use of JavaScript libraries on the web, Dennis Pallett et al. (University of Twente)

Researching web archives

SURVEYS, REPORTS, PRESENTATIONS (selected):

- Maria-Dorina Costea. Report on the scholarly use of web archives.
 NetLab. 2018.
- Emily Maemura. Explorations of Netarkivet: Preliminary Findings. 2018.
- Janne Nielsen, **Using web archives in research**, NetLab 2017.
- Web Archives as Scholarly Sources: Issues, Practices and Perspectives.
- Harriet Riley & Mark Crookston. <u>Awareness and use of the New Zealand</u> <u>Web Archive</u>. 2015.
- Meghan Dougherty, Eric T. Meyer, Christine McCarthy Madsen, Charles van den Heuvel, Arthur Thomas, and Sally Wyatt. <u>Researcher</u> <u>Engagement with Web Archives: State of the Art</u>. JISC Report, 2010.
- Miguel Costa & Mario J Silva. <u>Understanding the Information Needs of Web Archive Users</u>. 2010.
- Jane Winters. <u>Big UK Domain Data for the Arts and Humanities</u>. IIPC WAC 2015.
- Helen Hockx-Yu. <u>Up close and personal Researchers and the UK Web</u>
 Archive Project. IIPC WAC 2011.

PROJECTS, NETWORKS, SERVICES, CASE STUDIES (examples):

- ARS: Archive-It Research Services
- AU: Archives Unleashed Project
- RESAW.eu: Research Infrastructure for the Study of Archived Web Materials, 2012-
- **BnF**: <u>Néonaute</u> 2018
- ATI & UKWA: Detecting semantic shift in large corpora, 2018
- Arquivo.pt: <u>Investiga XXI</u>, 2017 & <u>Awards</u>, 2018
- Niels Brügger and Ralph Schroeder, eds., <u>The Web as History: Using Web</u>
 <u>Archives to Understand the Past and the Present</u>. London: UCL Press. 2017.
- BUDDAH: <u>Big UK Domain Data for the Arts and Humanities</u>, 2013-4 □
 <u>SHINE</u>
- WebART: Web Archive Retrieval Tools, 2012-2016

• Jefferson Bailey. Program Models for Research Services. IBRCWAC 2016s, NLNZ, 16 Nov 2018

Program Models for Research Services, 2016 – lessons learned

- Researchers don't always know what they want
- Researchers default to wanting access to raw/all data
- Researchers will have varying levels of technical resources or support
- Address upfront issues of technical proficiency, nonarchive technical support and/or methodological stuff
- Will require reference/resources to explain and contextualize web archive tools and processes
- More data doesn't equal better analysis

- Focus on derivation, portability, and access
- Focus on scalable partnerships & decentralization
- Research support expectations often !=
 with available resources or services
- Research methodologies (conceptual, practical, technical) often != with data, collecting, tools
- Service models or death (though yet to emerge for most data-driven LAM-ish research)

Use cases: Buddah

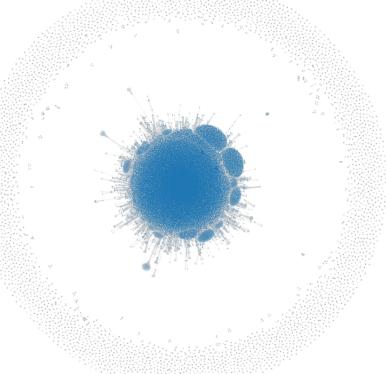
Topics

disability
Euroscepticism
public archaeology
Ministry of Defence
companies, corporations
reception of Beat literature
French expatriates in London
poetry community & networks

Data: the UK web domain crawl 1996-2013

Big UK Domain Data for the Arts and Humanities

Institute of Historical Research, UoL
Oxford Internet Institute
Aarhus University
British Library



Eric Meyer Ralph Schroeder Niels Brügger Jonathan Blaney

Andrew Jackson Peter Webster

Project team

Jane Winters

Helen Hockx-Yu

Rainer Simon: Visualisation of links between websites from the UK crawled during 1996, Discovery & Access, NLNZ, 16 Nov 2018

Arquivo.pt

- DIOGO DUARTE, The Study of punk culture through the Portuguese Web Archive
- DIOGO SILVA DA CUNHA, Today's news to be forgotten tomorrow?
- RICARDO BASÍLIO, Memory of the online presence of a Faculty: an exhibition

netpreserveblog.wordpress.com/tag/investiga-xxi



Questions to dhn researchers



DATA

- What to archive (seed selection)?
- Thematic crawls mainstream,
 "alternative" or both?
- Types of datasets: raw data / WARC files?
- Crawling: frequency, depth, width, completeness (formatting, images, etc.) – is documentation concerning this of interest to researchers? If so, how detailed? In the form of an overview or more closely attached to the harvested material?

CONTENT

- How should we focus on validity and reliability of the archives?
- How should we document the way our archives (and single crawls) have been constructed?

TOOLS

- Our tools or your tools?
- Are there any tools you want us to make available which would be useful without stepping into legal issues (e.g. N-gram services)?



WEB ARCHIVES WHAT'S IN THEM FOR DIGITAL HUMANISTS?

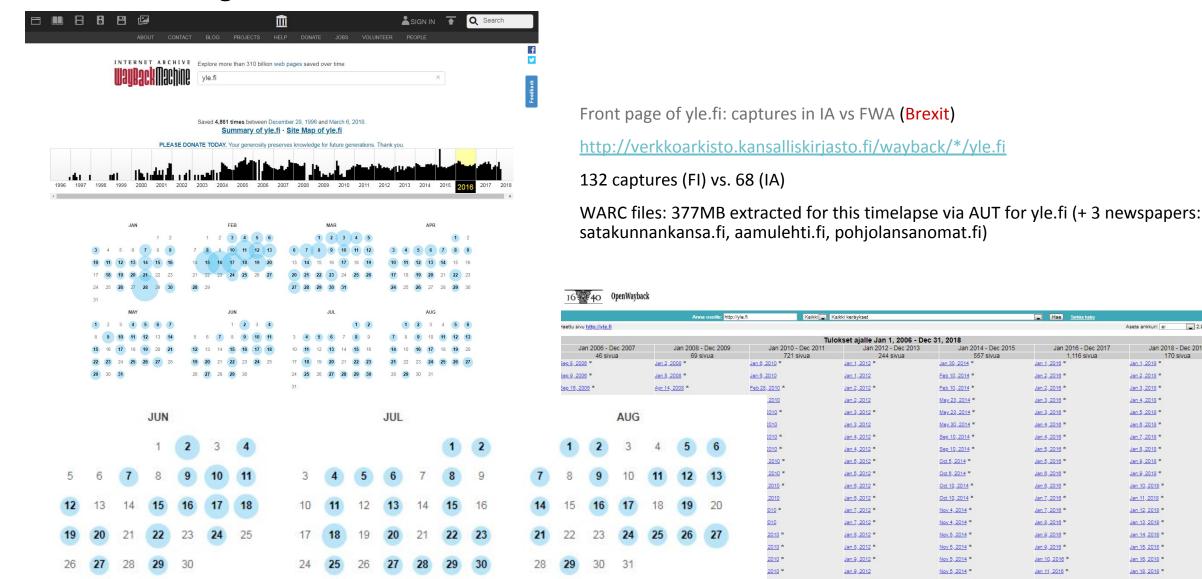
PANEL ON WEB ARCHIVING IN THE NORDIC COUNTRIES

National Library of Finland, Lassi Lager
National Library of Norway, John Erik Halse
National Library of Sweden, Pär Nilsson
The Royal Danish Library, Caroline Nyvang

Looking for Brexit in the Finnish web archive DHN2018: Hacking the News

31

Your use of the Wayback Machine is subject to the



DISCOVERY & Access, NLNZ, 16 Nov 2018

2010 *

Jan 10, 2012 *

Jan 10, 2012 *

Hae Tarkka haku

Jan 1, 2016 *

Jan 2, 2016 *

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Jan 11, 2016 *

Jan 11, 2016 *

Jan 2016 - Dec 2017

Jan 2014 - Dec 2015

557 sivua

Feb 10, 2014 *

Feb 10, 2014 *

May 23, 2014 *

May 23, 2014 *

May 30, 2014 *

Sep 10, 2014 *

Sep 10, 2014 *

Oct 6, 2014 *

Oct 10, 2014 *

Oct 10, 2014 *

Nov 4, 2014 *

Nov 4, 2014 *

Nov 5, 2014 *

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Nov 5, 2014 *

Nov 5, 2014 *

Nov 6, 2014 *

Nov 6, 2014 *

Aseta ankkuri: ei

Jan 1, 2018

Jan 2, 2018 *

Jan 3, 2018 *

Jan 4, 2018 *

Jan 5, 2018 *

Jan 6, 2018 *

Jan 7, 2018 *

Jan 8, 2018 *

Jan 9, 2018 *

Jan 9, 2018 *

Jan 10, 2018 *

Jan 11, 2018

Jan 12, 2018 *

Jan 13, 2018 *

Jan 14, 2018 *

Jan 15, 2018 *

Jan 16, 2018 *

Jan 18, 2018 *

Jan 19, 2018 *

Jan 20, 2018 *

Jan 2018 - Dec 2019

JISC Report, 2010: Key points

- ☐ gap between the *potential* community of researchers who have good reason to engage with creating, using, analysing and sharing web archives, and the *actual* (generally still small) community of researchers currently doing so
- Encourage the creation of communities that increase the accessibility and usability of web archiving tools
- Efforts should be made to diversify tool and interface development beyond preservation and into use
- Tools should be developed that are able to execute query searches over multiple web archives
- Standards, protocols and methods of quality control are need for interoperability, but not at the cost of flexibility
- The possibilities of web archives should be communicated to a much broader research community

Meghan Dougherty, Eric T. Meyer, Christine McCarthy Madsen, Charles van den Heuvel, Arthur Thomas, and Sally Wyatt. Researcher Engagement with Web Archives: State of the Art. JISC Report, 2010.

RESEARCH WORKING GROUP

http://bit.ly/iipcRWG

Scope

- The Research Working Group seeks to promote the use of web archives and IIPC collections among researchers, share information about web archiving research projects at IIPC member organisations, including workflows and lessons learnt, and facilitate ways for dissemination and discussion of use cases.
- The group will collaborate with relevant research communities to help make the IIPC collaborative collections and IIPC member collections available to researchers. The Research Working Group will include not only IIPC members but it will be open to researchers.

The toolkit

Platform/UI	Extraction	Textual analysis	Graphing
Shine https://github.com/ukwa/shine	Web-archive discovery https://github.com/ukwa/webarchive-discovery	Spacy https://spacy.io/	Gephi https://gephi.org/
SolrWayback https://github.com/netarchivesuite/solrwayback	Archives Unleashed Toolkit https://github.com/archivesunleas-hed/aut	Sem https://github.com/YoannDupont/SEM	SigmaJS http://sigmajs.org/
Warclight https://github.com/archivesunle-2 eashed/warclight	Web-archive indexing https://github.com/ikreymer/weba rchive-indexing	Open NER http://www.opener-project.eu/	
UKWA UI https://github.com/ukwa/ukwa-ui ui		Stanford CoreNLP https://stanfordnlp.github.io/CoreNLP/ne r.html	
AUT Cloud https://github.com/archivesunleashed/aut		Voyant Tools https://voyant-tools.org/	
		http://tapor.ca/home	
		https://cloud.archivesunleashed.org/derivatives/text-sentiment	
		https://cloud.archivesunleashed.org/derivatives/text-antconc	