Essential for research?
Are libraries necessary for digital research in the humanities?

Sally Chambers, DARIAH-EU
• What is digital scholarship?
• What are research infrastructures?
• Is the library essential for digital research in the humanities?
What is digital scholarship?
What is digital scholarship?

• ‘Allowing scientists to do faster, better or different research’
• ‘new forms of data- and information-intensive, distributed, collaborative scholarship’
• ‘Intersection of scholarly behaviour and technology’

Christine L. Borgman (2007)
Scholarship in the digital age: information, infrastructures and the internet
http://mitpress.mit.edu/books/scholarship-digital-age
What is digital humanities?

Kings College: ‘to study the possibilities of computing for arts and humanities scholarship and, in collaboration with local, national and international research partners across the disciplines, to design and build applications which implement these possibilities, in particular those which produce online research publications’

www.kcl.ac.uk/artshums/depts/ddh
What is digital humanities?

UCL: ‘Digital Humanities research and teaching takes place at the intersection of digital technologies and humanities…’

http://blogs.ucl.ac.uk/dh/2012/01/20/infographic-quantifying-digital-humanities/
What is digital humanities?

GCDH: ‘Digital Humanities (DH) is an area of research, teaching, and development concerned with the intersection of computing and the various disciplines of the humanities...’

www.gcdh.de/en
3 Spheres of Digital Humanities

- **Digital Humanities**: Individual subject, transcending traditional disciplines, focus on theory and methods

- **Digital <Subject>**: Disciplines which were fundamentally changed through digital media and methods (e.g. Computer Linguistics, Archaeoinformatics, ...)

- **<Subject> with DH**: Disciplines which incorporate digital methods and tools and consider them a part of their traditional canon

*Thanks to: Patrick Sahle, Walter Scholger*
Digital Lexicography


http://lecture2go.uni-hamburg.de/konferenzen/-/k/14017
Digital Archaeology

Viewing platform of the Domus Severiana on the Palatine in Rome as in its construction phase in Flavian time (about 80 CE). Visualisation of the visual axis of the Domus Severiana over the city of Rome – German Archaeological Institute

www.dainst.org/en/
NetLab

research infrastructure project

RESAW

P1 – A net archive corpus for education, learning and training
P2 – Danish internet favorites, 2009
P3 – Digital Footprints
P4 – Network Analysis of the Danish parliamentary Elections 2001-2011
P5 – Cross media production and communication
P6 – Fundamental Tools for web Archive research (FUTARC)
P7 – Harvesting the digital Music Revolution – the Case of Sys Bjerre

http://www.netlab.dk
Digital Textual Scholarship

A virtual research environment for researchers in the text-based humanities to create, analyse, edit, store and publish their research data.

TextGrid: Digital editing – research – archiving

www.textgrid.de/en
Multimedia Research

LARM Audio Research Archive

... a digital infrastructure to facilitate researchers’ access to the Danish radiophonic cultural heritage including appropriate tools and a bibliography

www.larm-archive.org/about-larm/
What are research infrastructures?
What is research infrastructure?

Pan-European research and education network

GÉANT is the pan-European research and education network that interconnects Europe’s National Research and Education Networks (NRENs).
What is research infrastructure?

secure, world-wide roaming access service developed for the international research and education community

www.eduroam.org
European Strategy Forum for Research Infrastructures (ESFRI)

http://ec.europa.eu/research/infrastructures/index_en.cfm?pg=esfri
The end of humanities?

DARIAH-EU General Meeting, Vienna, November 2012
Humanities and Social Sciences Research Infrastructures

Language is the Key to the Understanding of Language Behaviour
CLARIN ERIC The Common Language Resources and Technology Infrastructure

Social Sciences and Humanities

Public Attitudes Matter in Democratic Societies
ESS European Social Survey

The European Social Survey finds out what people believe, want, fear and prefer.

However, public attitudes are difficult to measure. They are often unexpressed, and cannot be inferred from electoral choices or momentary media opinion polls. As a response to the absence of academically rigorous cross-national data about these items, social scientists designed the European Social Survey (ESS) in the late 1990s. Every two years since 2001 over 30,000 people in up to 34 European countries are interviewed with the help of a scientifically developed questionnaire. They are asked about topics like socio-political values, trust in institutions, demographic composition, financial circumstances as well as immigration and citizenship.

As a unique research infrastructure, ESS provides scientists as well as policy makers with these data. It coordinates the work of leading institutions in each country which are responsible for collecting the data. The data are made immediately and freely
DARIAH on the ESFRI Roadmap

European Research Infrastructures with global impact

Enabling Digital Research in the Arts and Humanities
DARIAH The Digital Research Infrastructure for the Arts and Humanities

DARIAH will create a Europe-wide e-infrastructure for the diverse needs of arts and humanities researchers.

While closely cooperating with existing projects that focus on specific research communities, like CIDAR, the Collaborative European Digital Archive Infrastructure of EHRI, the European Holocaust Research Infrastructure, DARIAH aims at integrating and coordinating the different e-activities in the arts and humanities in the European countries. Therefore, it strongly relies on the participation and the input of the researchers who are encouraged to share their e-developments and e-experiences with the community via DARIAH.

www.dariah.eu

PARTICIPANTS
Host Country: France
Number of participating countries: 10

TIMELINE
Start of construction: 2013
Start of operations: 2017

ESTIMATED COSTS
Construction: 20 M€
Operations: 2.4 M€/year
European Science Foundation Report

Controversies around the Digital Humanities

The Cologne Dialogue on Digital Humanities 2012

Thu, 01/12/2012 - 13:33 — ceh

Controversies around the Digital Humanities: Proceedings of a Workshop

If you would like to add comments to the "controversies", please send an informal eMail requesting a Userid to WahnDialogue-info@uni-koeln.de.

All papers have been published in special issue 37 of "Historical Social Research Vol. 37 (2012), No. 3".

http://hsozkult.geschichte.hu-berlin.de/zeitschriften/ausgabe=6950

Online versions of all revised papers are published on this website and can be downloaded from the respective author's page below.

Manfred Thaler, University at Cologne: Setting the Agenda

Controversy 1: Do the Digital Humanities have an intellectual agenda or do they constitute an infrastructure?

Controversy 2: Are all approaches towards interdisciplinary research between the Humanities and Computer Science meaningfully represented by the current concept of Digital Humanities?

Controversy 3: What is the scope of the Digital Humanities? What is the relationship between individual disciplines served by them?

Controversy 4: What is the appropriate role of markup?

Controversy 5: Big structures or lightweight webs. What is the most sensible technical template for research infrastructures for the
The humanities infrastructure controversy

Controversy 5

Tue, 04/03/2012 - 13:41 — cceh

April 24th, 2012, 11:00 – 12:30
Fifth controversy: Big structures or lightweight webs. What is the most sensible technical template for research infrastructures for the Digital Humanities?
Opponents: Sheila Anderson, & Joris J. van Zundert

Anderson & Blanke: ‘the future for humanities infrastructure is best framed around the idea of a humanities specific ecosystem’

Van Zundert: ‘big institutionally based digital infrastructures are a dead end for information technology development and application in the humanities.’

www.cceh.uni-koeln.de/events/CologneDialogue/Controversy5
What is DARIAH?
What is DARIAH?

DARIAH aims to enhance and support digitally-enabled research and teaching across the humanities and arts...

...a connected network of tools, information, people and methodologies for investigating, exploring and supporting research across the digital arts and humanities...

...for researchers, by researchers...
Who is DARIAH for?

A wide variety of research communities across the arts and humanities

Image source: http://www.utsa.edu/today/images/graphics/diversity2.jpg
A quick history of DARIAH

• **2006**: DARIAH included in the ESFRI Roadmap

• **2008 – 2011**: Preparatory Phase project, *Preparing DARIAH*

• **2011 – 2013**: ‘Transition Phase’, establishing the DARIAH-ERIC, integrating national activities

• **2014+**: DARIAH-ERIC
## Network of Members

### Founding Members

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### 2014 +

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Network of Contributions

Contributions

DARIAH aims to offer a wide range of contributions to the DARIAH community.

Search our contributions:  

isidore

DIGHUMLAB

Service integration, data interconnect research and education

Denmark's first digital humanities laboratory

digital arts & humanities PhD

the structured PhD
Network of Services

Open access repository

Academic blogging

Scholarly events
Network of Services

Multilingual training materials

Summer Schools

Scholarly Methods Ontology
Network of Services

Collaboration Tools

Persistent Identification

AAI Infrastructure
"Community Management is also infrastructure, it’s social infrastructure" says @christof77, wisely DARIAHeu
Network of research communities

Research projects within the humanities that have received national or European funding and whose work programme comprises of an important move towards using digital methods are a core stakeholder group for DARIAH activities.

Network of research communities

- Archaeologists
- Medieval and Modern Historians
- Holocaust Researchers

Digital Textual Scholarship

- Digital Methods
Supporting the Holocaust research community by opening up a portal that will give online access to dispersed sources relating to the Holocaust, and by encouraging collaborative research through the development of tools.
is a research collaboration aimed at integrating digital archives and resources for research on medieval and modern European history.
Advanced Research Infrastructure for Archaeological Dataset Networking in Europe (ARIADNE)

www.ariadne-infrastructure.eu

...aims to integrate the existing archaeological research data infrastructures so that researchers can use the various distributed datasets with new and powerful technologies, as an integral component of archaeological research methodology.
Network for Digital Methods in the Arts and Humanities (NeDiMAH)  
www.nedimah.eu

Themes:
- Space and time
- Visualisation
- Linked data & ontologies
- Digital Data
- Large-scale text
- Scholarly digital editions
Digital Scholarly Editions Initial Training Network (DiXiT)

http://dixit.uni-koeln.de/

...an international network offering coordinated training and research in digital scholarly editing...
For researchers, by researchers...

Digital Literary Studies

Digital Medieval Studies
Is there a role for libraries in humanities research infrastructures?
Norbert Lossau: ‘Research libraries’ engagement with RIs (research infrastructures) has been low’. (p134)
ca. 100 DARIAH Partner Institutions

... 8% are libraries
Increasing engagement from libraries

Research infrastructures present major opportunities for research libraries

SCHOLARLY COMMUNICATION & RESEARCH INFRASTRUCTURES

Scholarly Research
The Scholarly Communication and Research Infrastructures Steering Committee will work within two broad areas:

Scholarly Communication: with emerging topics such as linking publications to research data, combining licensing with open access or enhancing repository networks through ‘services on top of repositories’ such as usage statistics, text/data mining, research profiles etc. All of these work towards extending the goal of ‘access’ to the support of ‘(re-)use’ of resources and metadata. Moreover, Gold Open Access holds opportunities to make OA publishing more comfortable for researchers and to combine this with deposit in repositories. Open Access policies on the level of the European Union – with a view towards the new funding programme Horizon 2020 – look promising to further enhance and align institutional, national and European approaches.

Research Infrastructures: the group will focus on those infrastructures which can support the development and evolution of new scholarly communication paradigms. This area will require new skill sets, for example, managing new information types such research data, as well as awareness of national/international standards and policies at a local level. Research infrastructures also present major opportunities, for example raising the profile of research libraries with universities and national/European policy making bodies, to re-gain close working relationships with researchers but also for new services such as linking research literature to research data. Libraries have the potential to contribute to the development of research infrastructures with their knowledge and practice of re-use of metadata and data, their repositories, knowledge of standards, formats, interoperability, authorities, ontologies, networks, consortia, etc.

www.libereurope.eu/committee/scholarly-research
Understanding research practice

Mixed methods approach
- Questionnaire survey
- Semi-structured interviews
- Case studies
- Leveraging cooperation with the Europeana Cloud project and NeDiMAH
What do humanities researchers want?

1. Make it easy to use
2. Make it easy to cite
3. Put it in their workflow
4. Provide clarity on objects and processes
5. Build a community
6. Provide research support
7. Make the information easily reusable
8. Offer ways to visualise collections
9. Think about linked data
10. Provide a critical mass of content

http://www.rin.ac.uk/humanities-case-studies
What do humanities researchers want?

What do humanities researchers want?

RDMF10: Research data management in the Arts and Humanities

3 - 4 September 2013
St Anne’s College, University of Oxford, Oxford

Overview
In recent times the principal focus for research data management protagonists has been upon scientific data, due perhaps to a combination of conspicuous Government or funder declarations with a bias towards the sciences and the very public consciousness of examples of 'big data', notably the output from CERN's Large Hadron Collider.

That is not to say that developments in the management of Arts and Humanities data have been absent, merely occluded. We aim to take

What do humanities researchers want?

A researcher’s view on Arts and Humanities data management/sharing (with a focus on infrastructure needs and wants) - Dr Julianne Nyhan, Lecturer in Digital Information Studies, University College London

Some personal needs and wants

- Bridging management and sharing of physical and digital resources
- Federated search (including e.g. blogs) and better interlinking of results
- More documentation of ‘interpretative’ processes and interventions
- More use of standards
- Appreciation of the bespoke and striking a careful balance

What do humanities researchers want?

How can we support the needs of humanities researchers?

Re-Skilling For Research

RLUK has published a major report by Mary Auckland on the changing needs of research staff and the subject liaison role within libraries.

As research activities evolve, research support must evolve with them. RLUK has been reflecting on what the new requirements of researchers are, and how best these needs can be met in the current context of libraries. The report must change to fulfill the new demands placed upon us.

This report, Re-skilling for Research, takes us a long way to mapping these requirements against researchers’ information needs and begins to outline the skills and knowledge that support those needs. The Report offers a comparison of different models of library support within RLUK and provides valuable comparisons of current job descriptions. Finally, issues around the training of subject librarians to acquire the additional skills and knowledge they will need to fully respond to these evolving roles.

http://www.rluk.ac.uk/content/re-skilling-research
Does the library have a role to play in the digital humanities?

Ben Showers: ‘exploring the evolving role of the library supporting researchers’

- Discovery and Dissemination
- Managing Data
- As ‘Embedded Librarians’
- Digitisation and Curation
- Digital Preservation

‘a researcher-centric approach needs to be adopted’

Does the library have a role to play in the digital humanities?

Miriam Posner: Blog

About Miriam  CV  Projects

Digital Humanities and the Library

A Bibliography

I originally prepared this bibliography for the Association of Research Libraries' Digital Humanities SPEC Kit, an abstract of which is available here. I try to update this list frequently. Additions welcome.

I know this list is a bit overwhelming, so I've placed in bold those resources that have been most influential on my own thinking — a very subjective measure!

Sections:

Libraries in the Digital Age
Digital Humanities and the Library
Digital Humanities: Infrastructure and Evolution

http://miriamposner.com/blog/digital-humanities-and-the-library
Supporting digital scholarship

Karen Calhoun: ‘advocating a fundamental rethinking of the research library service framework....’

Research libraries as ‘essential contributors to emergent, network-level scholarly research infrastructures.’

http://d-scholarship.pitt.edu/16084/
Opportunities for libraries

- Raise the **profile** of the research library
- Regain **close working relationships** with researchers
- **New services**, e.g. Linking publications and research data
- **Contributing knowledge** in metadata, repositories, ontologies etc.

[www.liber.europa.eu/committee/scholarly-research](http://www.liber.europa.eu/committee/scholarly-research)
360 degree research lifecycle

About

The Jisc-funded Research360 Project will develop technical and human infrastructure for research data management at the University of Bath, as an exemplar research-intensive university.

Key objectives

See also: project outputs

The project will:

› Build on a 360-degree institutional research lifecycle model which is transferable to other research-intensive HEIs;
› Focus in particular on issues and challenges that arise from private sector partnerships and research collaborations;
› Describe the roles and

http://blogs.bath.ac.uk/research360/about/
Ten recommendations for libraries to get started with research data management

1. Offer research data management support, including data management plans for grant applications, intellectual property rights advice and information materials. Assist faculty with data management plans and the integration of data management into the curriculum.

2. Engage in the development of metadata and data standards and provide metadata services for research data.

3. Create Data Librarian posts and develop professional staff skills for data librarianship.

4. Actively participate in institutional research data policy development, including resource plans. Encourage and adopt open data policies where appropriate in the research data life cycle.

5. Liaise and partner with researchers, research groups, data archives and data centers to foster an interoperable infrastructure for data access, discovery and data sharing.

6. Support the lifecycle for research data by providing services for storage, discovery and permanent access.

7. Promote research data citation by applying persistent identifiers to research data.

8. Provide an institutional Data Catalogue or Data Repository, depending on available infrastructure.

9. Get involved in subject specific data management practice.

10. Offer or mediate secure storage for dynamic and static research data in co-operation with institutional IT units and/or seek exploitation of appropriate cloud services.
Libraries and Research Data Management

How to Develop Research Data Management Services - a guide for HEIs
Sarah Jones, Graham Pryor and Angus Whyte

http://www.dcc.ac.uk/resources/how-guides/how-develop-rdm-services
Linking publications and research data

Enhanced publications: ‘an Enhanced Publication is a new form of communication in science, where researchers make publications available online in conjunction with other material’

www.narcis.nl
Enhanced publication: a doctoral theses

Doctoral Thesis: Beckett, Derrida and the event of Literature

Project

Tekst en transcendentie in Beckett en Derrida

Document

Doctoral thesis

Beckett, Derrida and the event of Literature

Aggregation

Doctoral Thesis: Beckett, Derrida and the event of Literature

Made by
DANS - NARCIS

Date Issued
2011-09-19

More info

Organization

University
Universiteit van Amsterdam

Person

Academic staff
H. Vries, de

PhD candidate
J.D. Szafraniec

www.narcis.nl
Enhanced publication: archaeological research

www.narcis.nl
Beyond Institutional Repositories

Beyond institutional repositories

*Laurent Romary, INRIA (Gemo research group) & Humboldt Universität zu Berlin (Institut für Deutsche Sprache und Linguistik)
laurent.romary@loria.fr
http://www.inria.fr/recherche/equipes/gemo.fr.html
Unter den Linden 6, 10099 Berlin - http://www.linguistik.hu-berlin.de/

Chris Armbruster, Max Planck Society (Max Planck Digital Library)
armbruster@mpdl.mpg.de
Invalidenstrasse 35, D-10115 Berlin - www.mpdl.mpg.de
Executive Director, Research Network 1989 - www.cee-socialscience.net/1989

Abstract
The current system of so-called institutional repositories, even if it has been a sensible

Danger of institutional repositories becoming digital cemeteries without good quality metadata...

http://hal.archives-ouvertes.fr/docs/00/39/98/81/PDF/IJDLS_V1.5.pdf
Publication repository for DARIAH

HAL: Human Sciences Repository

DARIAH Collection

http://halshs.archives-ouvertes.fr/
Increasing visibility of humanities research

http://repositories.webometrics.info/en/Europe
Scholarly work and open access

Scholarly blogging as a ‘first layer of scholarly publication’ ... ‘curated by librarians in a coherent way’ ... ‘changing the roles of research libraries, so they can provide the necessary editorial support in such environments’

http://tags.hypotheses.org/18
DARIAH across Europe

Publication platform for academic blogs, enabling researchers to provide real-time updates of developments in their own research

http://hypotheses.org/
The inside out library ...

the library as an actor in research and learning environments of its users

http://www.oclc.org/content/dam/research/presentations/dempsey/insideout.pptx
‘The success of the library is not when the librarians clap, but when the researchers do’

Norbert Lossau

DARIAH-EU General Meeting, Copenhagen, September 2013
Questions?

DARIAH-EU Coordination Office
dariah-info@dariah.eu