Digital Humanities (DH) and Libraries

Measuring the involvement of libraries and other core contributors to DH through an authorship study

Academic Librarianship 4, June 2-3, 2016

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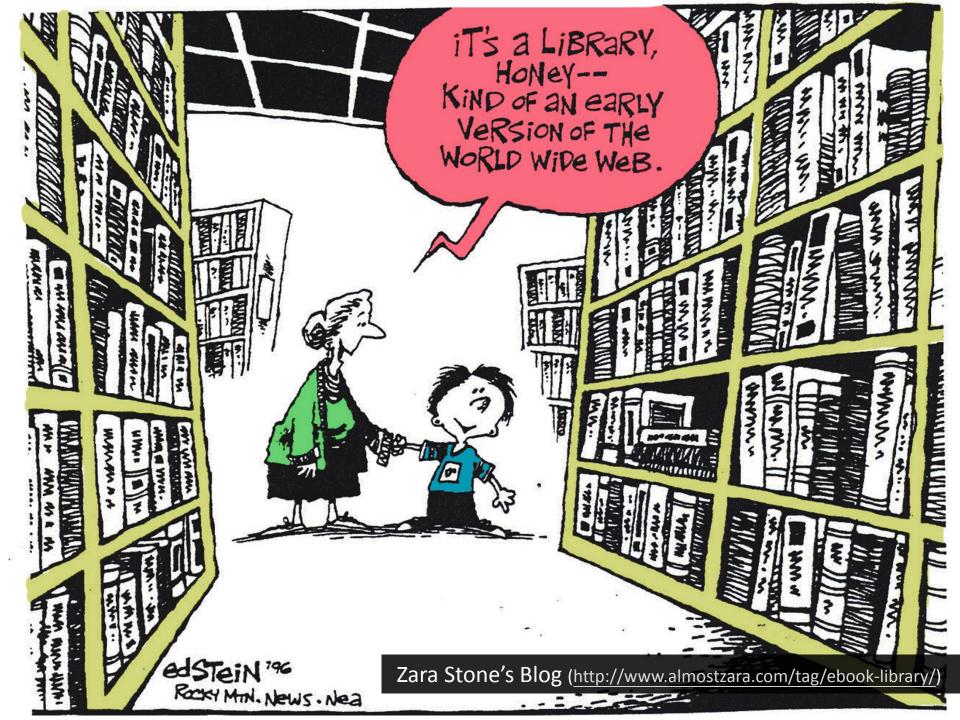
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DH Conference 2015

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(intel)

MAKING LIFE: The Art & science of



Research Questions

Are librarians actually participating in DH development?

Do libraries have an important role to play in DH?

Outline

- Methodology

 Journal Selection
- Results
 - Co-authorship Trend
 - Overall Distribution of 13 Professions
 - Comparison of 3 Special Areas
 - Geographic Distribution
- Discussions / Observations
- The Current Status of the HKBU's Development

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Journal Selection

Criteria

- DH is one of the major themes
- Coverage is broad enough
- Commonly selected as a core or recommended reading
- Peer-reviewed & currently active
- Author information is freely accessible

Journal Selection

hor	ne 1 submissions 1 about dhg 1 dhg people 1 contact					
Current Issue	A Construction of the and body of the second					
+ 2015 9 3	2015 Volume 9 Number 3					
Preview Issue	Voune a Number 3					
+ 2015 9.4	2015 9.3 (2016 O Decuse (0 Commental					
Provinces Issues	A shall be a paint of a list of a list of a shall be in					
> 2015 9.2	Archival Liveness: Designing with Collections Before and During					
= 2015 9 1	Cataloguing and Digitization					
+ 2014 8.4	Tom Schofield -tom dot schofield at not dot ac dot uk>. Culture Lab, Newcastle University					
* 2014 8.3	David Kirk «david dot kirk at not dot ac dot uk», Digital interactions Group. Newcastle University Teimo Amarai «teimo dot amarai at not dot ac dot uk», Digital interactions Group. Newcastle University					
+ 2014 B 2	Marian Derk «doerk at th-potsdam oot de». Potsdam University of Applied Sciences, Institute for Urban					
# 2014 8.1	Futures					
-2012 7.3	Mtchell Whitelaw Mtchell Whitelaw at canberra_dot_edu_dot_au>, Faculty of Arts and Design, Utiversity of Carberra					
+2012.7.2	Gay Schofield <guy ac="" at="" dot="" not="" schofield="" us=""> Digital Interactions Group. Newcastle University</guy>					
+ 2013 7.1	Thomas Ploetz «thomas_dot_Ploetz_at_nci_dot_ac_dat_ulo». Digital Interactions Group. Newcastle University					
+2012.6.3						
= 2012 6.2	Abstract					
⇒ 2012.6.1						
+ 2011:53	We present "archival liveness" as a concept in design and the Digital Humanities and describe its development within a Research Through Design process. Working with a newly acquired archive of					
>> 2011 5.2	contemporary neetry as conduced designs that both manifested and "assued in to" EDurant 2013					
₩2011.5.1	[Curvitisch 107] the temporal rhythms of the work and infrastructure of archiving. Drawing on user- centred work with participants, often poets themselves, we focused on marginaka as a material feature					
+ 2010 4.2	of the archive, developing a drawing machine and live Twitter bot. Our work addresses institutional					
= 2010 4.1	concerns for outreach and engagement while also acknowledging and exploiting the inevitably incomplete or live character of archival collectors. For designers working with digital archives, we					
₩ 2009: 3.4	demonstrate the programmer and instance of the design and the programmer working was appeared with a demonstrate the programmer and instance value of the design appeared with a design process.					
* 2029: 3.3						
= 2009-3.2 = 2009-3.1						
# 2009 3.1 # 2008 2.1						
= 2007. 1.2	INTRODUCTION					
# 2007 1.1	INTRODUCTION					
Indexes	Digital interfaces to archives and cultural collections have, in recent years, become a crucial means of					
- Die	accessing our heritage and their design has become a subject of interest in interaction design (Dors)					
* Itin * Autor	2014] [Dirk 2011] [Feinberg, Carter, and Bulard 2014] [Feinberg 2012]. With a weath of digital material					
A CARENCE	being made available by institutions many have produced rich and innovative interfaces of their own e.g.					
	(Smthsonian Design Museum n.d.) or in collaboration with researchers [WhiteJaw 2013]. A number of					
	methodologies have been applied to such design processes including engaging potential users of the					
	interface in its design [Povincili 2011] [Huvia 2019], or developing interfaces as critical lenses on cultural					
155N 1938-4122	collections [Dark 2014] [Fenterg 2012] [Fenterg, Carler, and Bullard 2014] Despite the popular image of archives as static and authoritative, digital archives and cultural collections are dynamic. Cataloguing.					

Digital Humanities Quarterly

2007, 1:1 – 2015, 9:4 The Alliance of DH Organizations 26 Issues ; 213 Articles ; 374 Authors



Journal of Digital Humanities

2011, 1:1 – 2014, 3:2 George Mason University

9 Issues ; 118 Articles ; 225 Authors



Journal of the Text Encoding Initiative

2011, 1 – 2015, 8 Text Encoding Initiative Consortium 8 Issues ; 54 Articles ; 132 Authors

True varies y attributions of the second sec

Int'l Journal of Humanities & Arts Computing

2007, 1:1 – 2015, 9:2 Edinburgh University Press

15 Issues ; 158 Articles ; 316 Authors



Literary & Linguistic Computing

2011, 26:1 – 2014, 29:4 Oxford University Press

16 Issues ; 197 Articles ; 420 Authors

Journal Selection

Summary

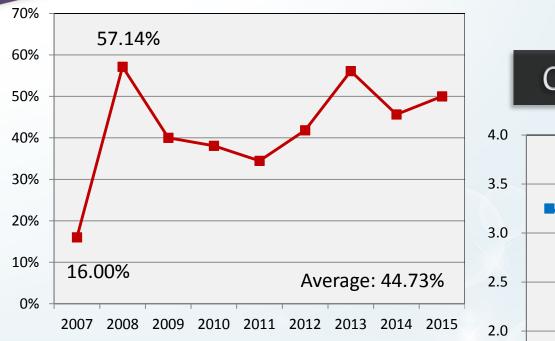
- 740 original articles
- 9 years (2007 2015)
- 1,467 duplicated authors
- 1,148 unique authors



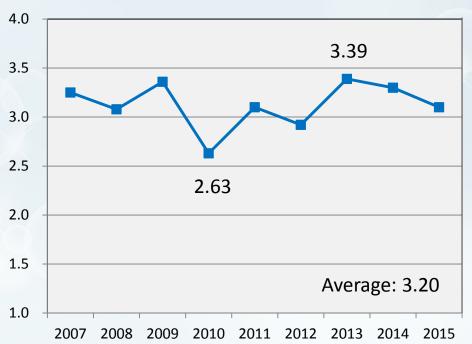
• Incidence of co-authorship

- The percentage of articles with multiple authors
- Collaboration Rate
- Extent of co-authorship
 - The average number of authors per co-authored article
 - Collaboration Extent

Collaboration Rate



Collaboration Extent



Result 1

Comparison of 10 Areas

		Busi	ness	Science			Info Tec	chnology	Social Sciences	
	DH	Mgt ¹	Econ ²	Biomed ³	Math ³	Phys ³	Comp⁴	Info Sys ⁵	Socio ⁶	Library ⁷
Time Period	2007 - 2015	1980 - 2002	1960 - 2010	1995 - 1999	1940 - 2004	1995 - 1999	1995 - 1999	1980 - 2012	1963 - 1999	2003 - 2008
Articles	543	11.022	20,321	2,163,923		98,502	13,169	3,821	281,090	8,320
Unique Authors	844	10,176		1,520,251	253,339	52,909	11,994	4,174	197,976	10,760
Articles per Author	1.24	2.04		6.4	6.9	5.1	2.55		2.08 ^{6a}	
Collabrati on Rate	45%		38%	79%	34% ^{3a}			81%	33%	19%
Collabrati on Extent	3.20	1.88		3.75	1.45	2.53	2.22	2.38	2.4 ^{6b} – 2.7 ^{6c}	

[1] Acedo, F. J., Barroso, C., Casanueva, C., & Galán, J. L. (July 2006). Co-authorship in management and organizational studies: An empirical and network analysis. Journal of Management Studies, 43(5), 957-983

[2] Kosnik, L. R. (2015). What have economists been doing for the last 50 years?: A text analysis of published academic research from 1960-2010. Economics: The Open-Access, Open-Assessment E-Journal, 9(2015-13), 1-38

[3] Newman, M.E.J. (2004). Coauthorship networks and patterns of scientific collaboration. PNAS Early Edition, 101(1), 5200-5205. doi: 10.1073/pnas.0307545100

[4] Newman, M.E.J. (2001). Scientific collaboration networks I: Network construction and fundamental results. Physical Review E, 64(016131), 1-8. doi: 10.1103/PhysRevE.64.016131

[5] Xu, J., Chau, M., & Tan, B. C. Y. (2014). The development of social capital in the collaboration network of information systems scholars. Journal of the Association for Information Systems, 15(12), 835-59

[6] Moody, J. (2004). The structure of a social science collaboration network: Disciplinary cohesion from 1963 to 1999. American Sociological Review, 69(2), 213-38

[7] Danesh, F., Abdulmajid, A. H., Afshar, M., & Farhadi, F. (2009). Correlation between scientific output and collaboration among LIS scholars around the world. Iranian Journal of Information Processing and Management, 25(1), 5-22

- DH can provide more co-authorship / collaborative opportunities for...
 - Librarians
 - Scholars of theoretical areas

"collaborative authorship is more common in DH [than 'traditional' humanities]."

Spiro, L. (2009, April 21). Collaborative authorship in the humanities [Web log post]. Retrieved from https://digitalscholarship.wordpress.com/2009/04/21/collaborative-authorship-in-the-humanities/

		Business		Science			Info Technology		Social Sciences	
	DH	Mgt ¹	Econ ²	Biomed ³	Math ³	Phys ³	Comp ⁴	Info Sys ⁵	Socio ⁶	Library ⁷
Collabrati on Rate	45%		38%	79%	34% ^{3a}			81%	33%	19%

• DH is an experimental practice

CE may reflect how research is done in a field. Purely theoretical papers tend to have fewer co-authors; experimental papers tend to have more co-authors.

Newman, M.E.J. (2001). Scientific collaboration networks I: Network construction and fundamental results. *Physical Review E, 64*(016131), 1-8.

"The language of experimentation runs throughout DH, demonstrating its support of risk taking... and innovation."

Spiro, L. (2012). "This is why we fight": Defining the values of the digital humanities. In M. K. Gold & L. F. Klein (Eds.), *Debates in the digital humanities* (pp. 16-34).

		Business		Science			Info Tec	hnology	Social Sciences	
	DH	Mgt ¹	Econ ²	Biomed ³	Math ³	Phys ³	Comp ⁴	Info Sys ⁵	Socio ⁶	Library ⁷
Collabrati on Extent	3.20	1.88		3.75	1.45	2.53	2.22	2.38	2.4 ^{6b} – 2.7 ^{6c}	

13 Profession Groups

- 1. Employees of **DH centers**
- 2. University **teachers** or **independent scholars** in DH or related fields
- 3. Employees of libraries
- 4. University **teachers** or **independent scholars** in information science or related fields



Info Sci Specialists



DH Specialists

- 5. Employees of **IT departments** of universities
- 6. University **teachers** or **independent scholars** in computer science or related fields
- Computer programming specialists hired by individual projects

13 Profession Groups

- Scholars -Other
- 8. University **teachers** or **independent scholars** in all fields other than DH, info science, & IT

9. Employees of archival centers or museums

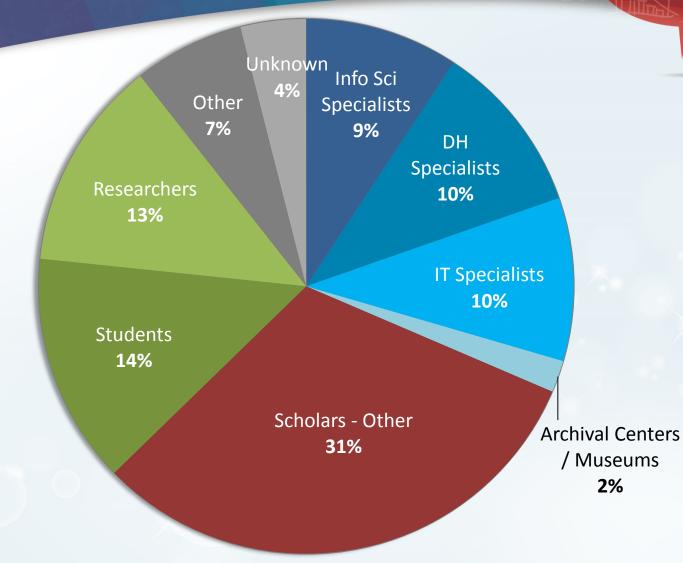


Archival Centers / Museums



 Independent researchers or researchers hired by individual projects

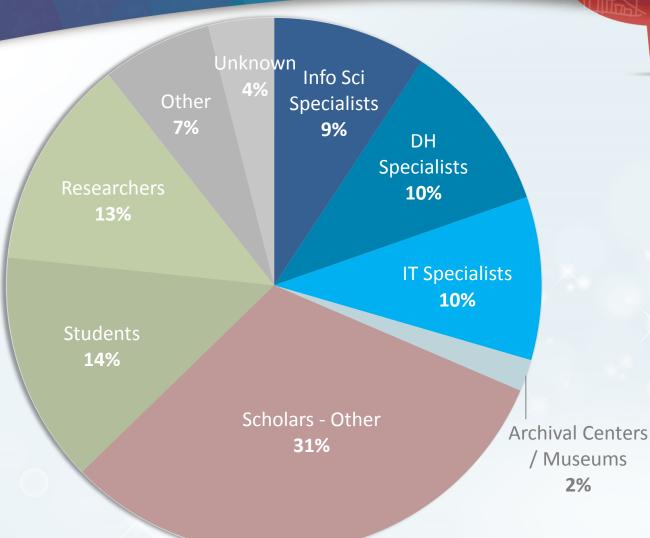
11. Students



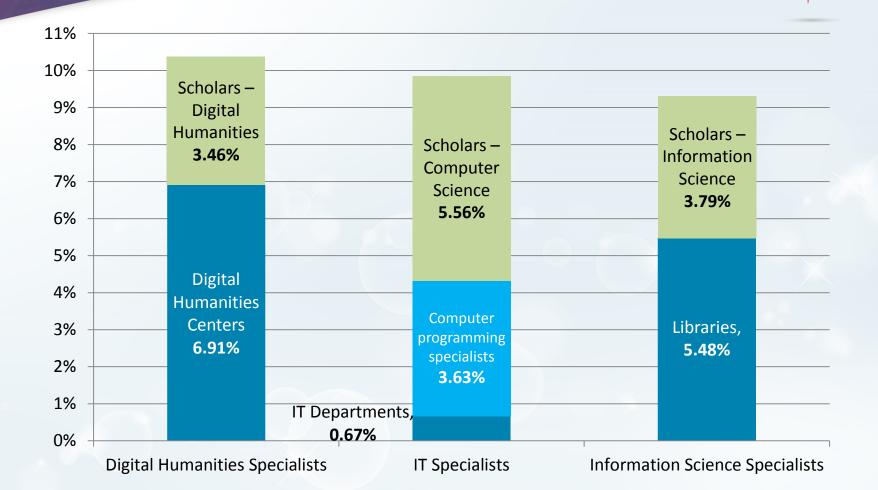
Unknown Info Sci Other Specialists 7% 9% DH Specialists 10% 13% 10% Students 14% Scholars - Other **Archival Centers** 31% / Museums 2%

Unknown Info Sci Other Specialists 7% 9% DH Specialists Researchers 10% 13% 10% Students 14% Scholars - Other 31%

Archival Centers / Museums **2%**



Comparison of 3 Special Are Result 3

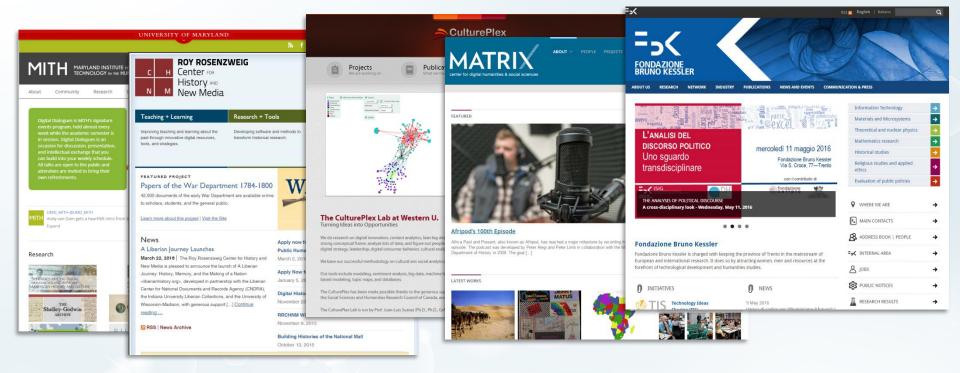


- An unclear role of IT departments
 - Provide IT infrastructure
 - May not directly involve in publishing

IT Services of the University of Oxford "help with the technical aspects of a funding [DH] proposal, support for making audio/video presentations, [and] help to scope and design web applications and websites for research projects."

> University of Oxford. (2016). *Digital Humanities @ Oxford: Support*. Retrieved from https://digital.humanities.ox.ac.uk/support

 Among the 3 types of functional units, DH centers accounts for the greatest proportion



• Their specific strength in pedagogical service

Libraries have our own edge

Libraries have a wider user group

"The directors of DHCs... most often report to an academic or administrative dean of a school, college, or division at the university."

Zorich, D. M. (2008). A survey of digital humanities centers in the United States.

Libraries have our own edge

• "Shared appointments" are common in DH centers

"92% of university-based centers have staff with faculty appointments... 88% [of joint positions] are fully funded by the academic department (not the center)"

Zorich, D. M. (2008). A survey of digital humanities centers in the United States.

"shared appointments also occur between the centers and various administrative departments and research centers"

Zorich, D. M. (2008). A survey of digital humanities centers in the United States.

Libraries have our own edge

• Libraries enjoy a more stable funding

"Most DH centers are established following some successful research grants... [their] pressing issues of sustainability are... securing reliable longterm funding to keep the center's staff in place."

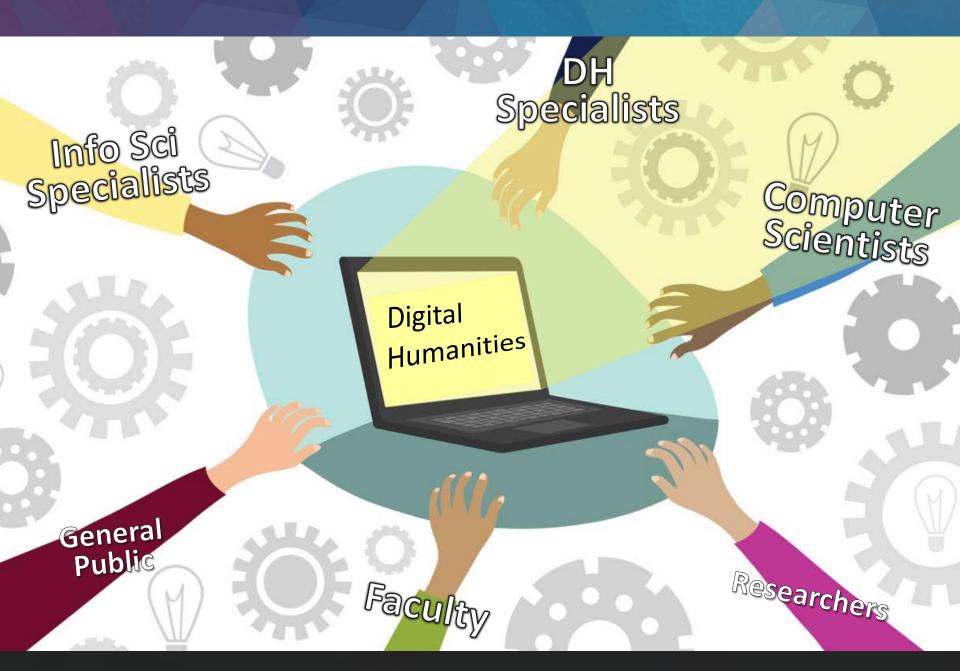
> Andrew Prescott, "Beyond the Digital Humanities Center: The Administrative Landscapes of the Digital Humanities," in A New Companion to Digital Humanities (UK: John Wiley & Sons, 2016), 461-75.

"It is difficult for DH centers to keep going 10/20 years."

Andrew Prescott, "Beyond the Digital Humanities Center: The Administrative Landscapes of the Digital Humanities," in *A New Companion to Digital Humanities* (UK: John Wiley & Sons, 2016), 461-75.

DH Centers are important

Libraries have our own edge



GCF Learn Free (http://www.gcflearnfree.com/)

Geographic Distribution

Algeria Australia Austria Azerbaijan Belgium Botswana Brazil Canada China Croatia Cyprus Denmark Estonia Finland France Germany

Greece

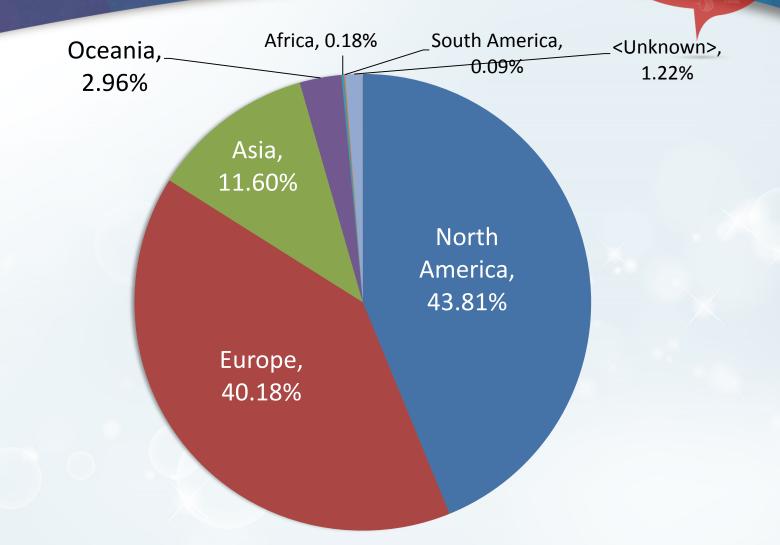
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0.09% 2.61% 0.61% 0.09% 1.05% 0.09% 0.09% 7.84% 0.61% 0.09% 0.17% 0.17% 0.26% 0.78% 1.66% 6.10% 1.05%

Hong Kong	0.17%
Hungary	0.09%
Iran	0.44%
Ireland	1.66%
Israel	0.44%
Italy	2.44%
Japan	3.75%
Malaysia	0.35%
Mexico	0.52%
Netherlands	4.88%
New Zealand	0.35%
Norway	0.44%
Philippines	0.09%
Poland	0.35%
Portugal	0.78%
Serbia	0.09%
Slovenia	0.44%

Spain	1.66%
Sweden	0.78%
Swiss	0.17%
Switzerland	0.26%
5 Taiwan	5.49%
Thailand	0.17%
\rm 🕗 UК 🛛 🗸 👘	14.20%
1 USA	35.45%
<unknown></unknown>	1.22%

Geographic Distribution



Geographic Distribution

- DH is a global movement
- North America and Europe are leading
- Asia is picking up



What Have HKBU Lib Done?



12 Academic Departments (41%)

29 Academic Departments

What Have HKBU Lib Done?



South & South-East Asia Documentary Film Research Website

http://digital.lib.hkbu.edu.hk/documentary-film/



中山公園數據庫 http://digital.lib.hkbu.edu.hk/sunyatsen/



Corpus of Political Speeches

http://digital.lib.hkbu.edu.hk/corpus/



<mark>貢品數據管理</mark> http://digital.lib.hkbu.edu.hk/history/



HKBU Heritage http://heritage.lib.hkbu.edu.hk/



The Aleksis Kivi Brothers Seven Translation Assessment Project

http://digital.lib.hkbu.edu.hk/translate/

What Have HKBU Lib Done?

Grants received — Teaching Grants X 3 — Research Grants X 1 — Conference grants / soft money X 3

Digital Scholarship Grant















Digital Humanities, the next big thing in higher education

Digital Scholarship Gr

A. Background

Digital scholarship is an area of research and teaching that uses digital technologies to extend the life of scholarly sources, facilitate information sharing, serve as research and teaching looks, and help yield new findings. Sponsored by the University's Research Committee, the Digital Scholarship Grant aims to share the valuable scholarship sources acidemics creates or gathers throughout their research activities with the community. These primary sources, data, or academic information have a significant value beyond usage for the original research.

- Sharing scholarly sources can contribute to the overall notability of the university via
- Raising the visibility of the university and the corresponding academic department
 Promoting the research and its outcomes
- Promoting the research and its outcomes
 Providing a direct credit to the researchers
- Leading to new collaborations between source material users and researchers

It can also benefit the academia through:

- Promoting innovation and potential new uses of the source materials
- Reducing the cost of duplicating source material collection
- Providing important resources for education
 Encouraging new interdisciplinary fields
- B. Application Criteria
- B1. Principal Investigators

Only full-time HKBU academics at the rank of Research Assistant Professor or above are eligible to apply. Academics from all disciplines are invited. All Principal Investigators can hold only <u>one</u> Digital Scholarship Grant project at a time.



NEWS





assessments!

What Have HKBU Li

- Teaching
 - A required Year 1 course of the SSCD
- Co-authorship
 - Article X1
 - Book chapter X 1
- Media Coverage
 - Campus magazines X 6
 - Local newspapers X 10



Using technologies for sustainable development

DH is one of the ways to sustain the value of libraries

THANK YOU!