Network Analysis of Libraries Used by Faculty, Staff, and APs

Arranged alphabetically

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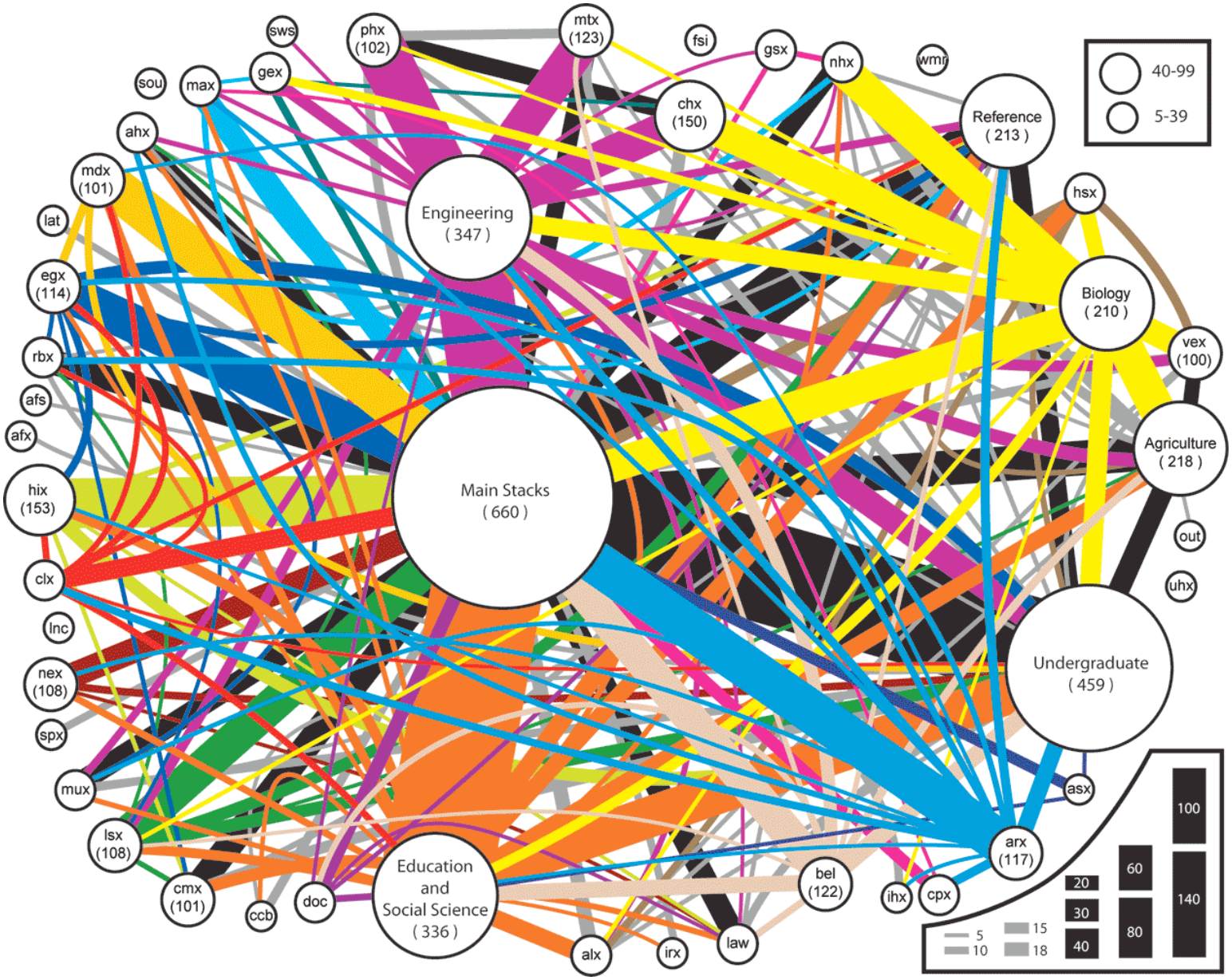
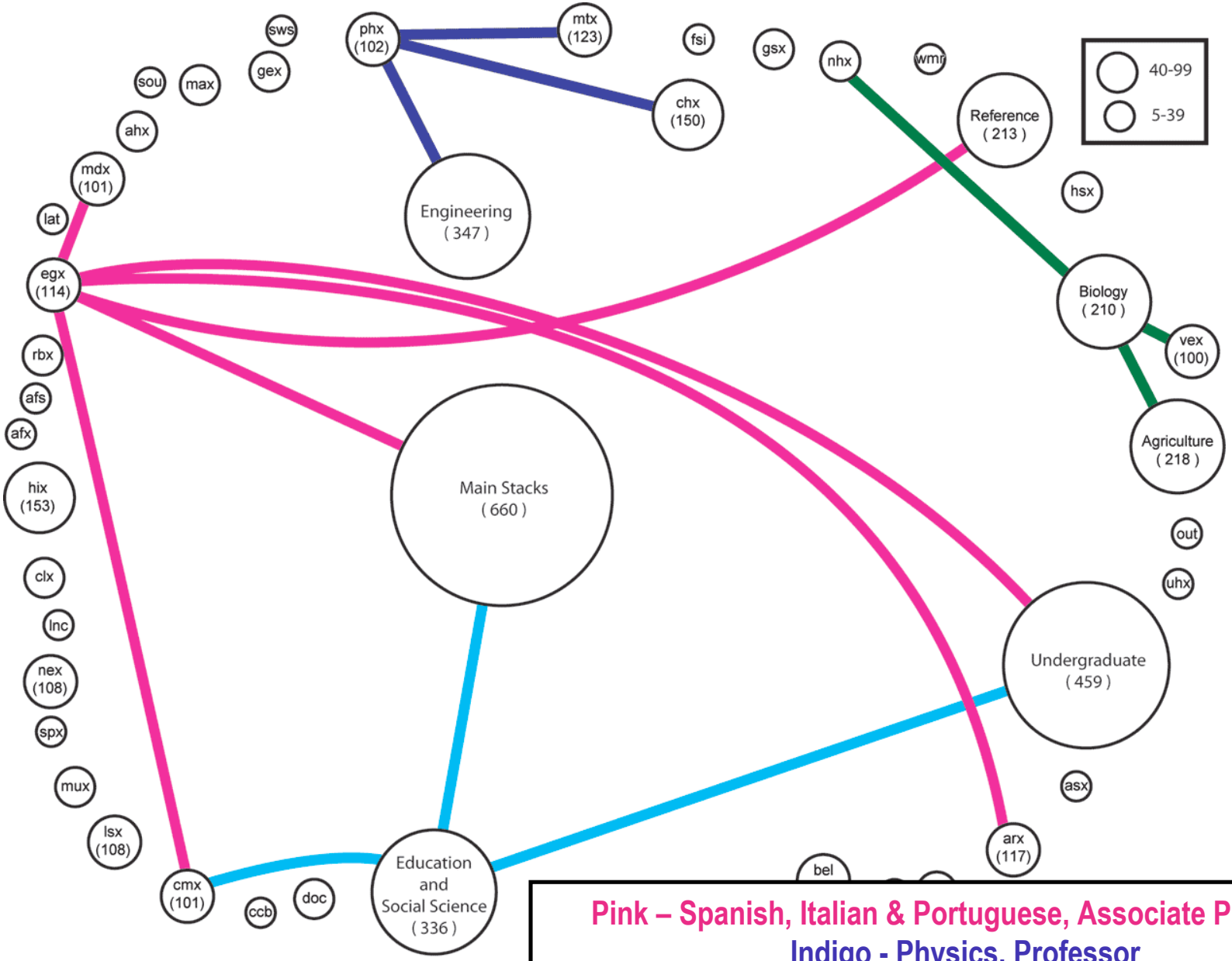
University Library
University of Illinois at Urbana-Champaign

Methods

- Data mined from the survey sent to all faculty & staff in Spring 2006 were used to create social network maps of UIUC Libraries
- Responses to “Indicate your primary library/ (ies)” were used to create network maps
  - Respondents could choose as many libraries as they pleased
- Reveals connections between departmental libraries from the users’ perspective



Network map of connections among all UIUC libraries. Lines were drawn when 5 or more respondents reported using both of the libraries. Selected nodes in color.



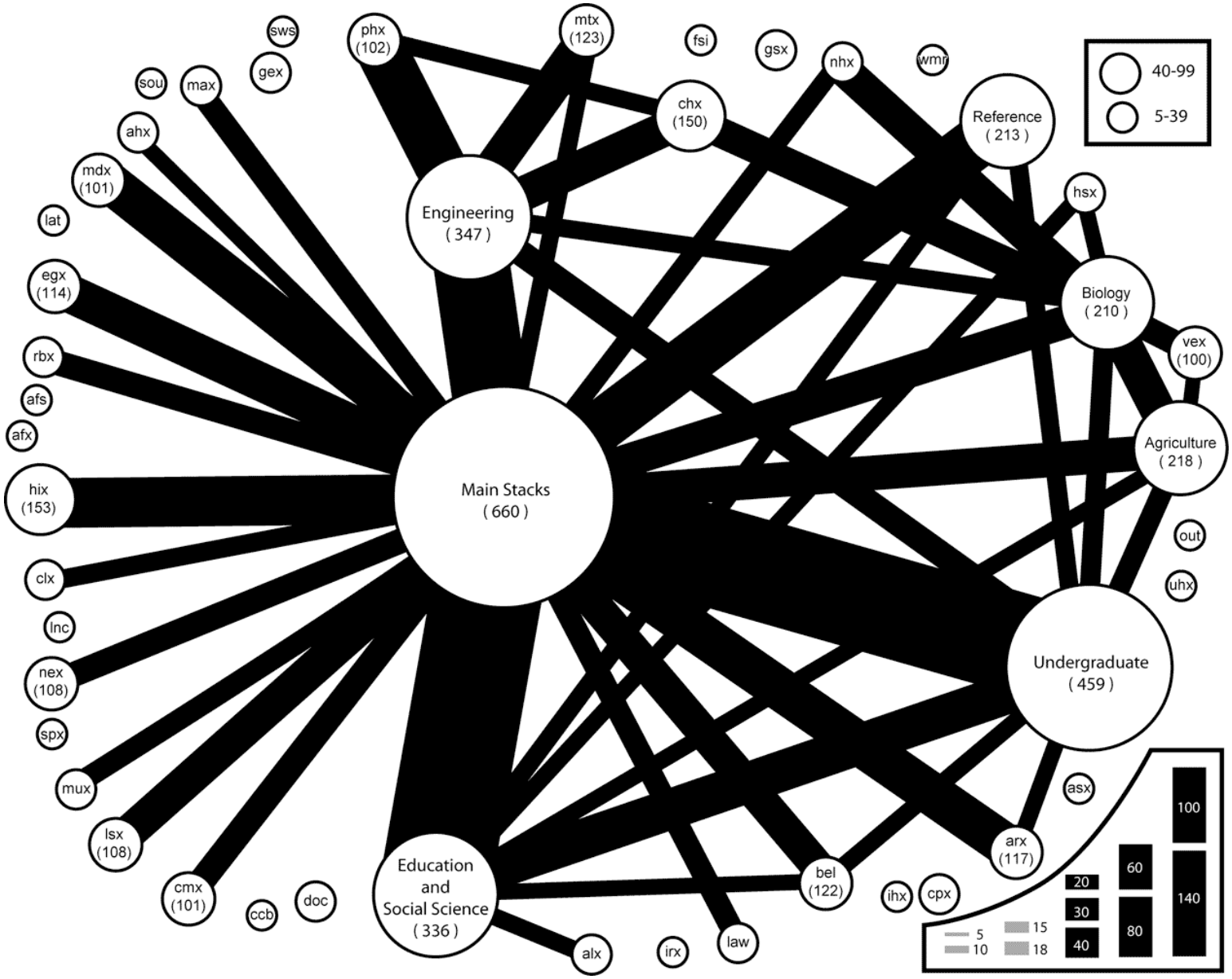
Some Individual Faculty

Pink – Spanish, Italian & Portuguese, Associate Professor

Indigo - Physics, Professor

Green - Agricultural Science (ACES), Academic Professional

Light Blue -Cinema Studies, Assistant Professor



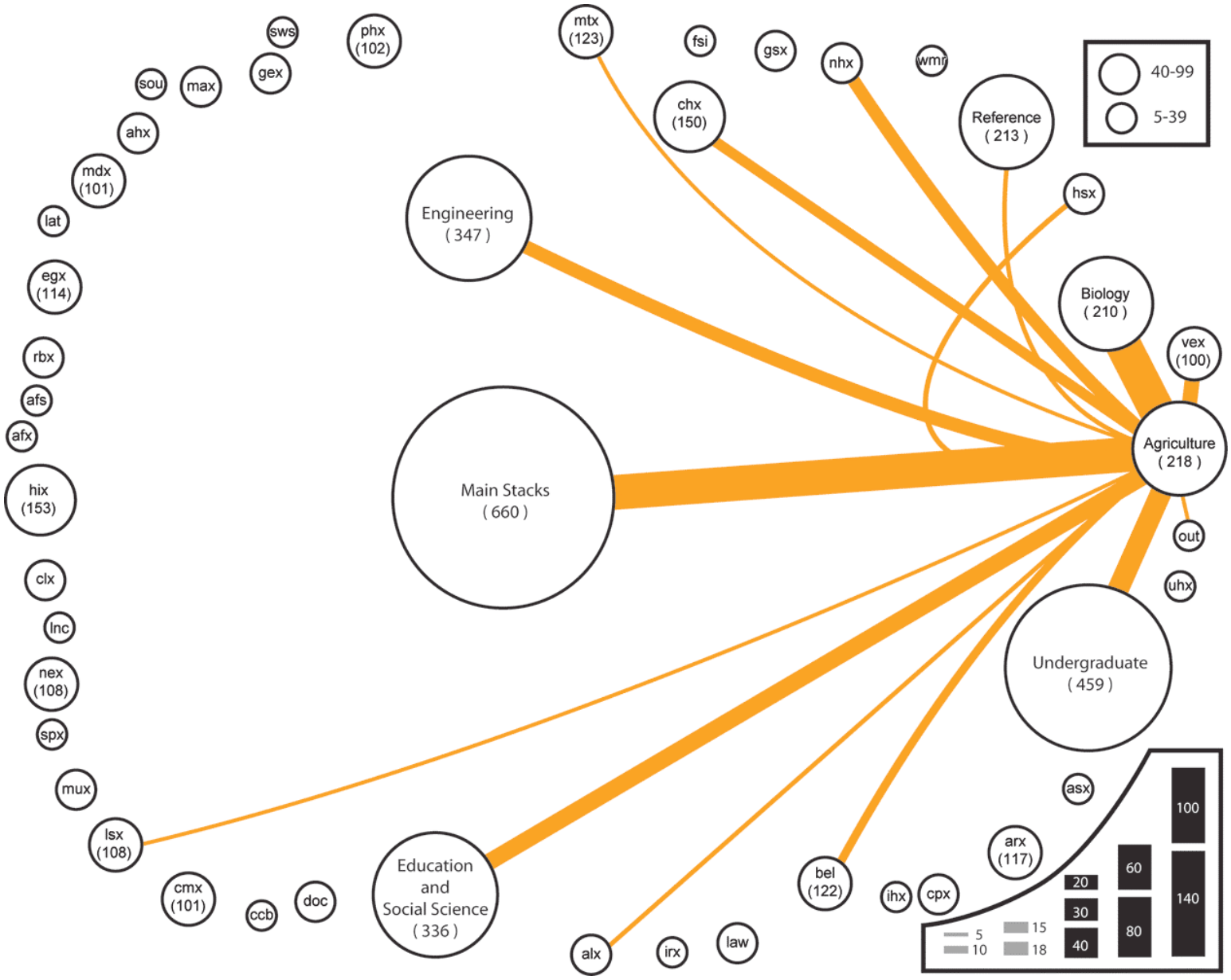
Major connections - 20 or more respondents.

Network Graphs By Library, Listed Alphabetically

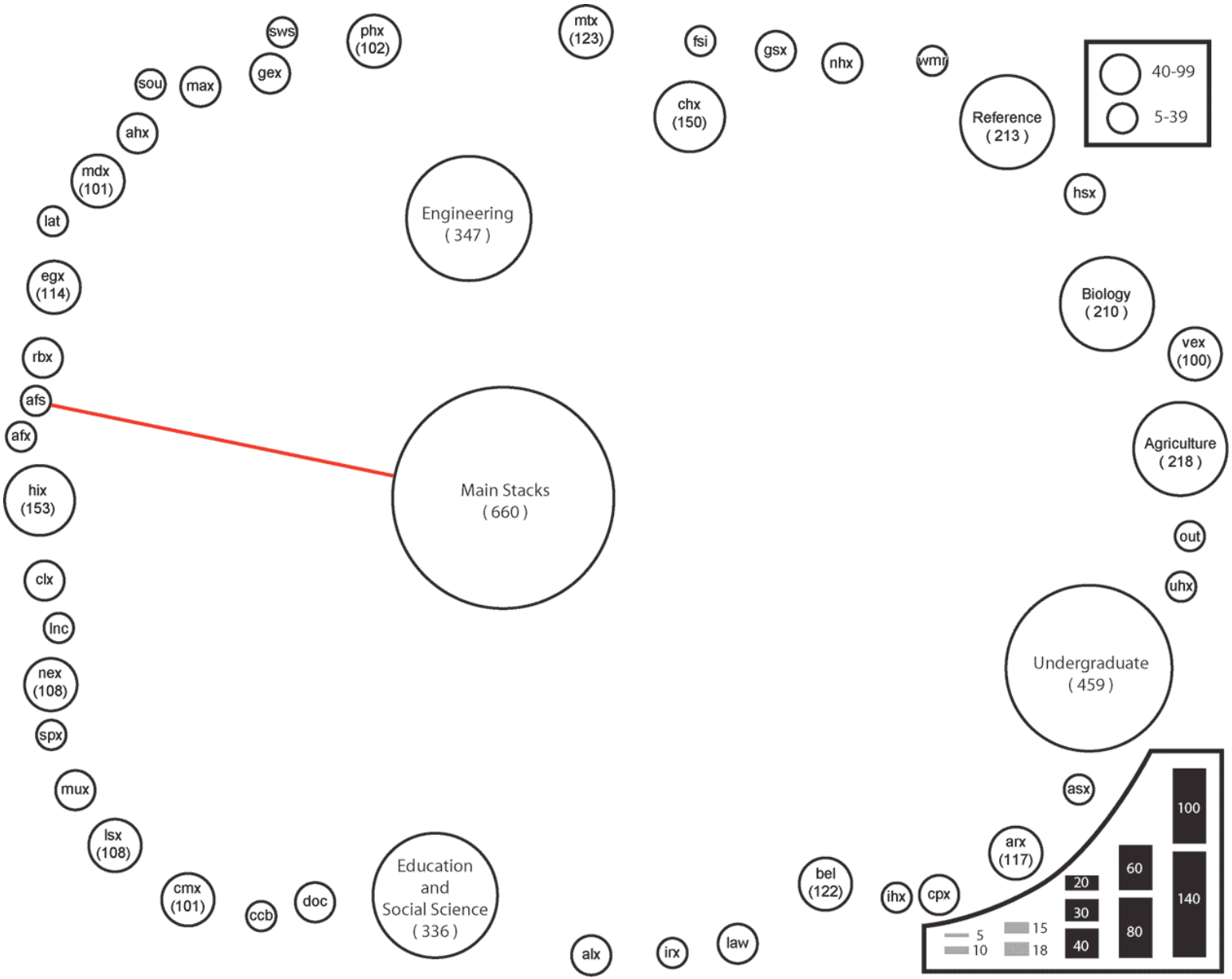
Note

Libraries with less than 5 connections to any other library are *not* displayed. These are:

- Fire Services Institute (affiliate)
- Lincoln Room
- Sousa Archives
- University High School Library
- Waste Management (affiliate)



ACES (Agricultural, Consumer & Environmental Sciences)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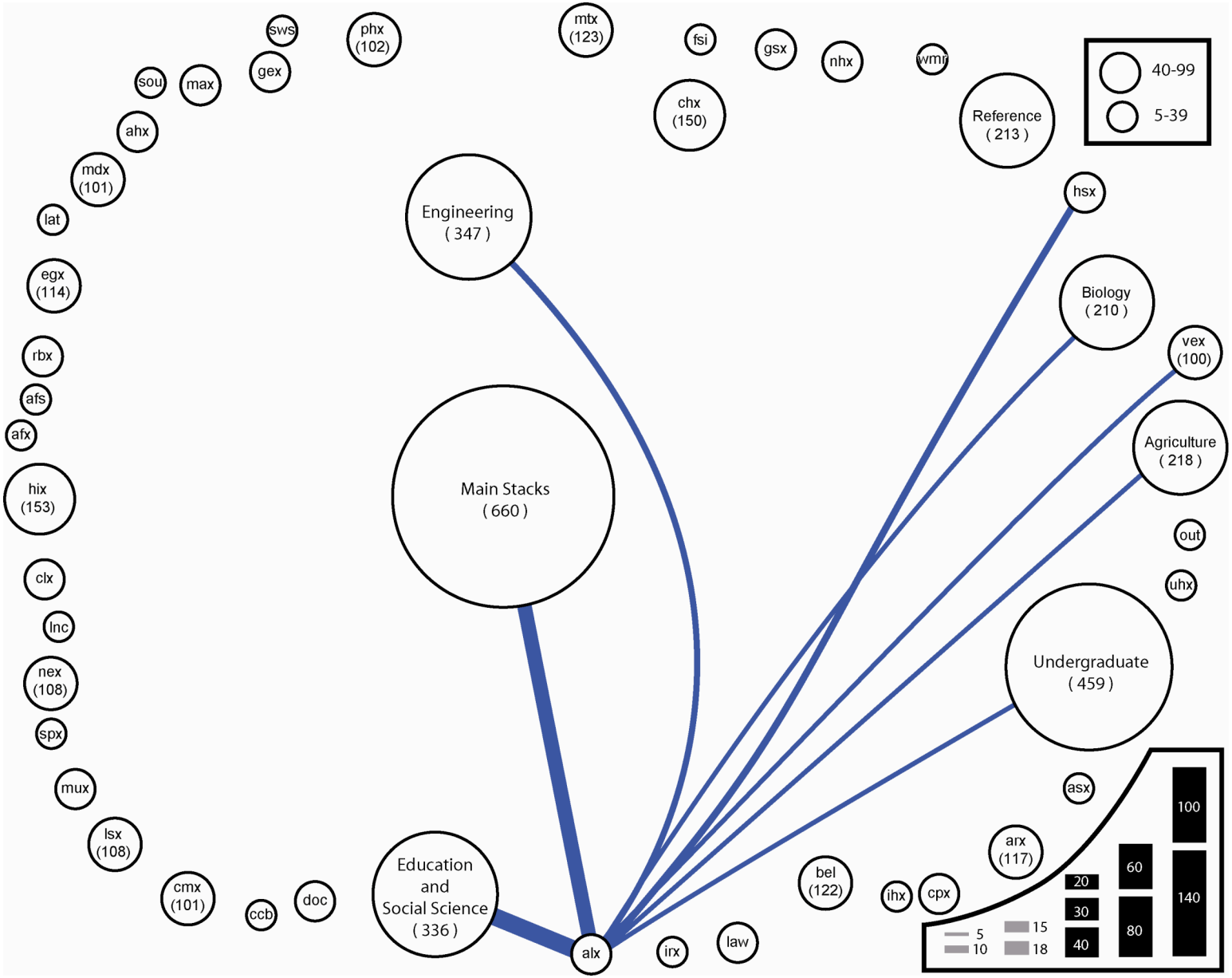
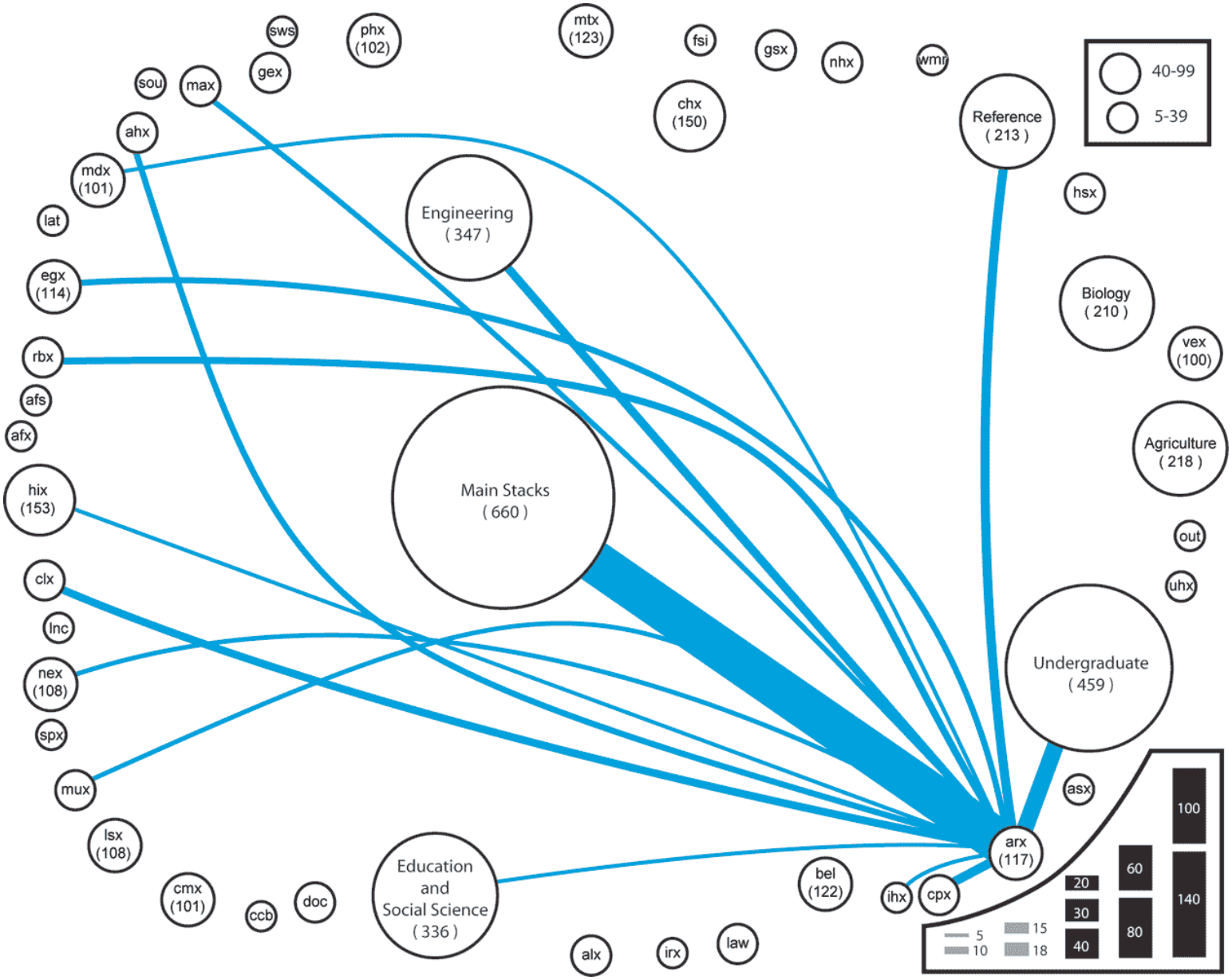
Africana

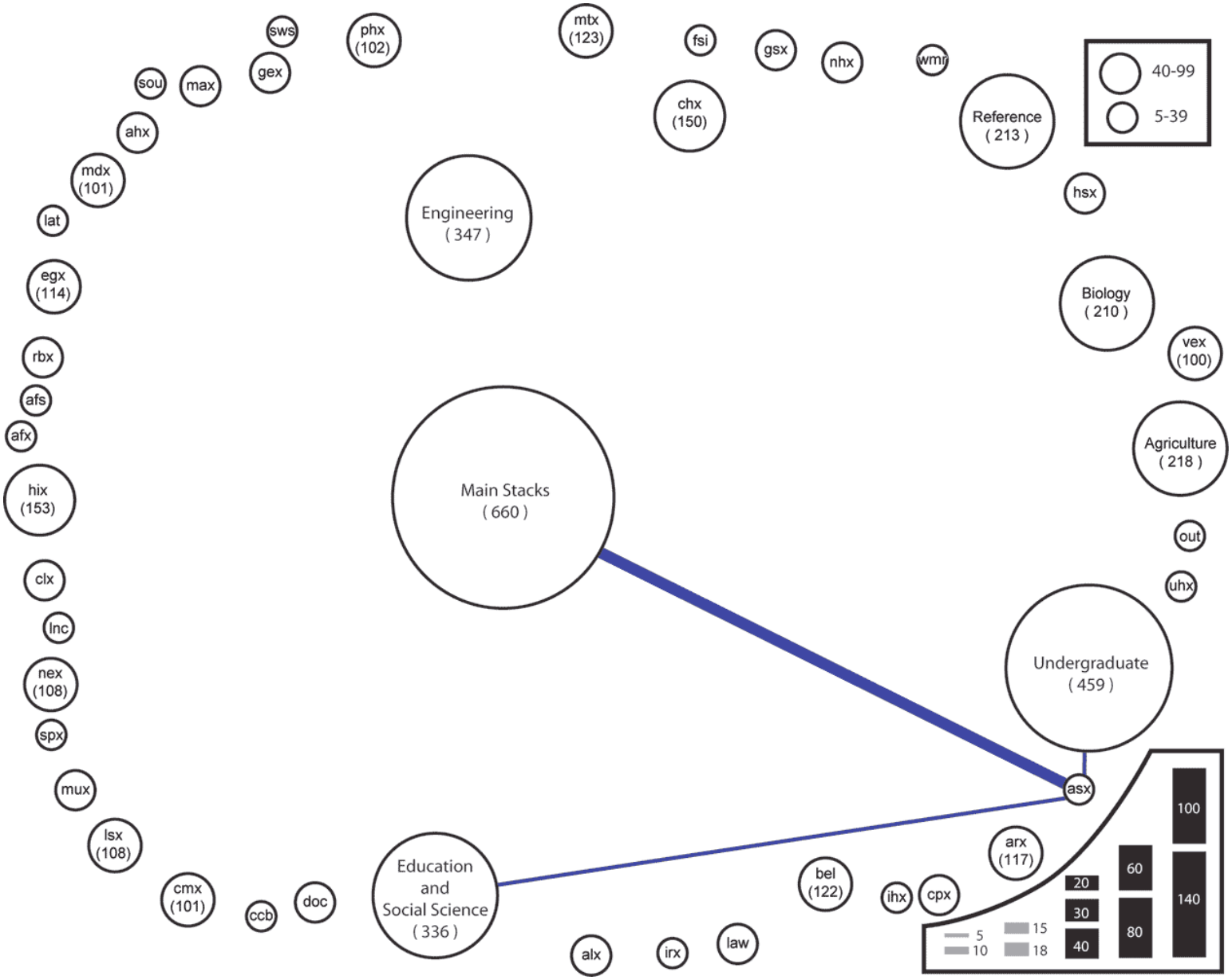


Applied Health Sciences

(formerly known as “Applied Life Studies”)



Art & Architecture



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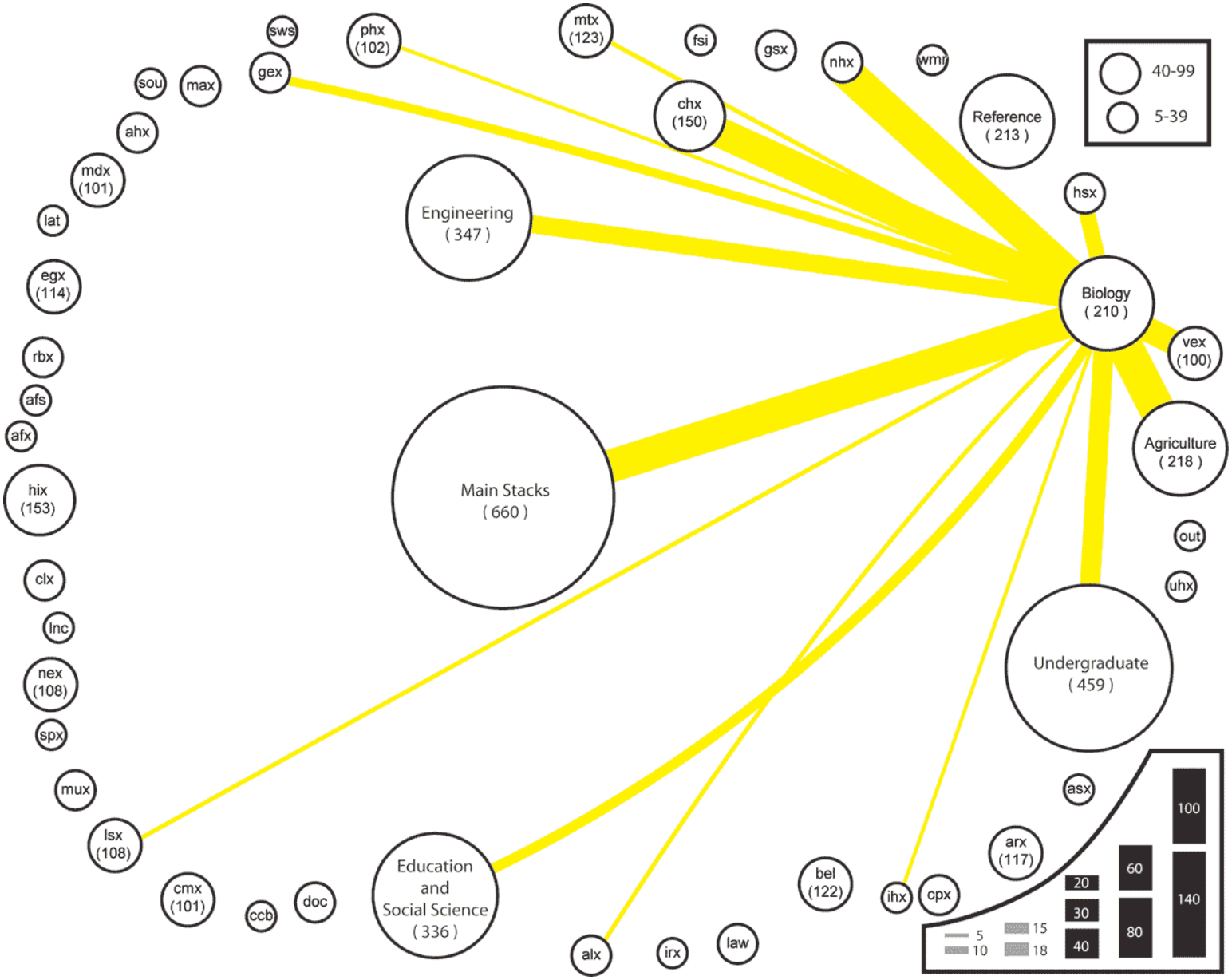
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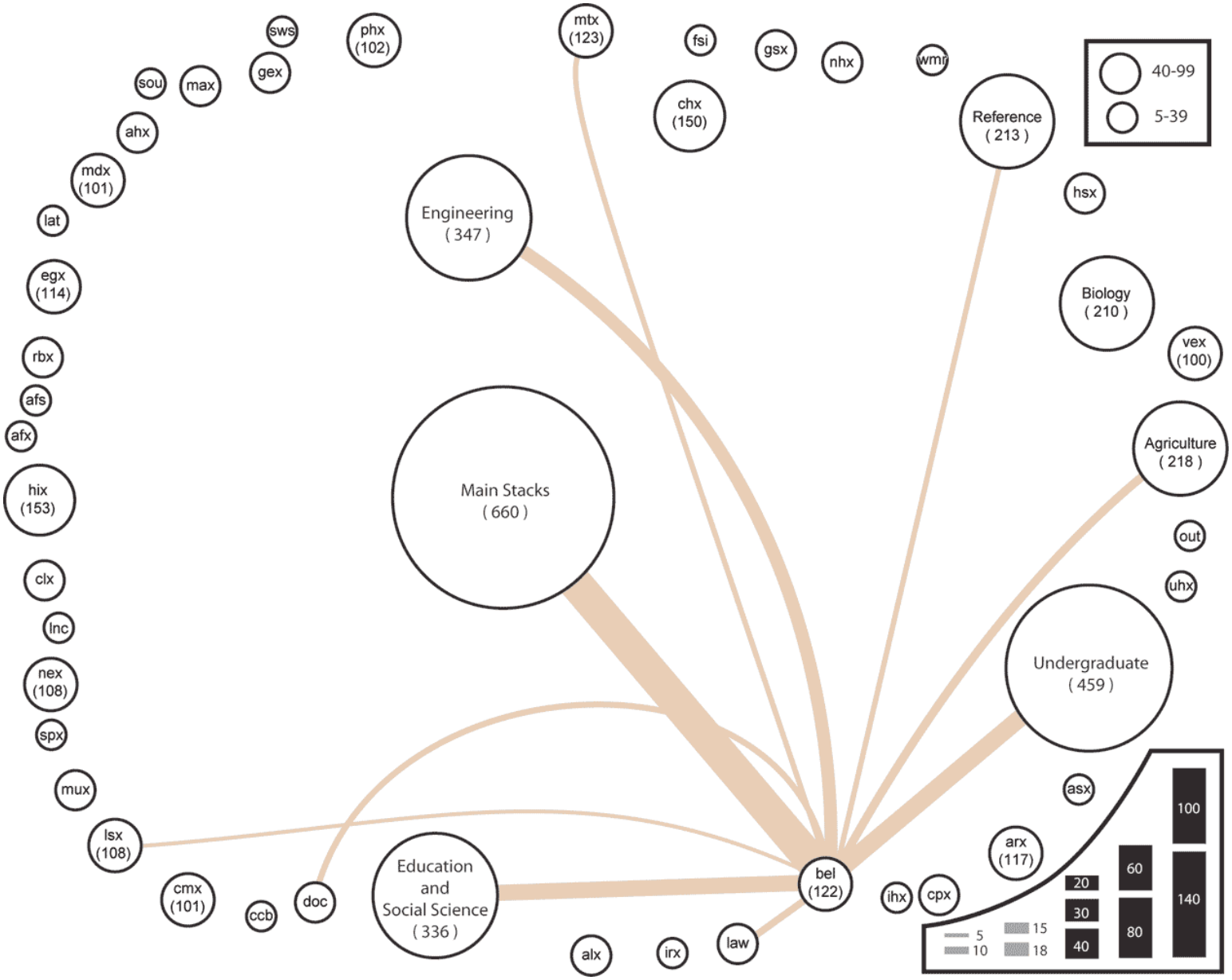

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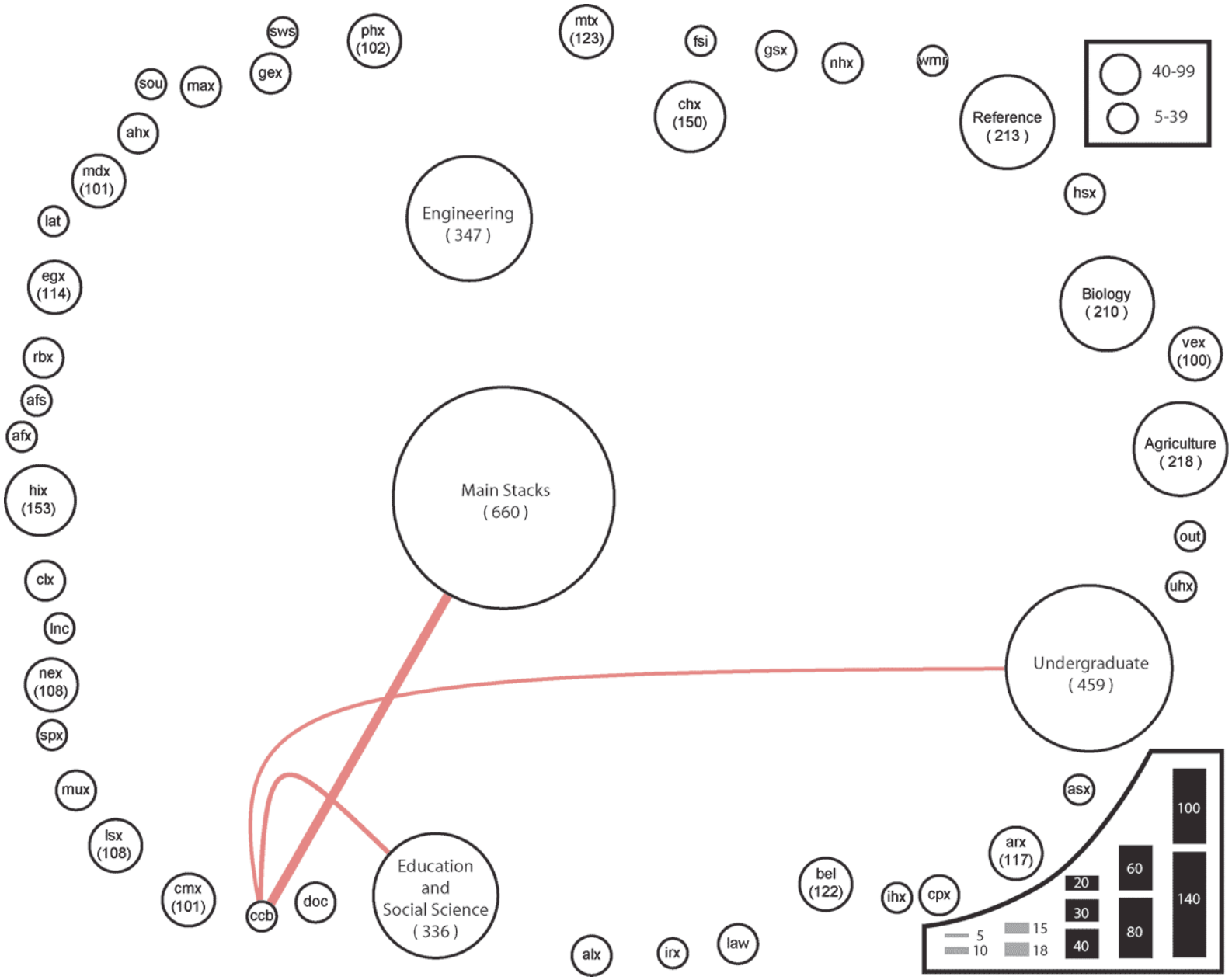
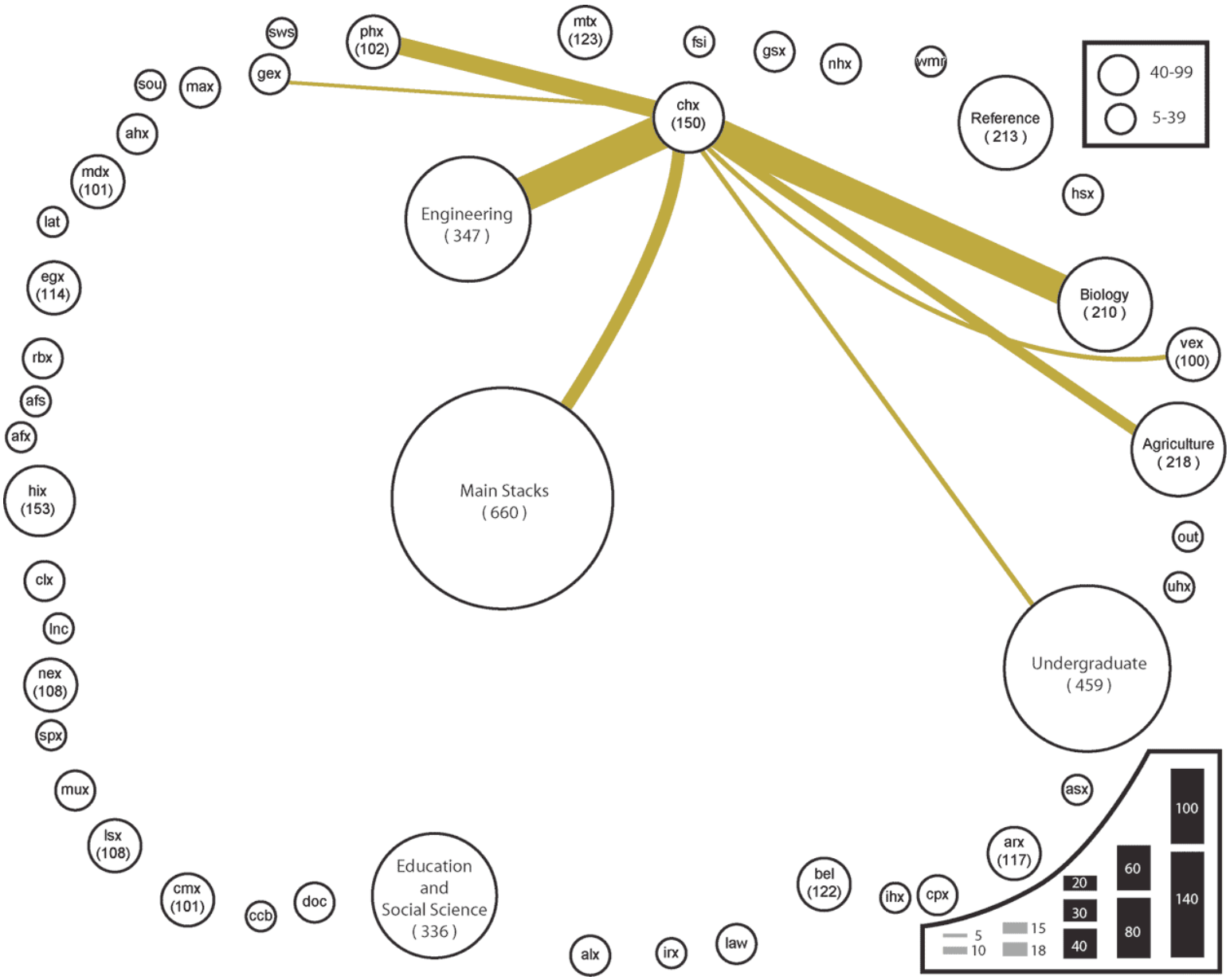


Center for Children's Books

(affiliate)



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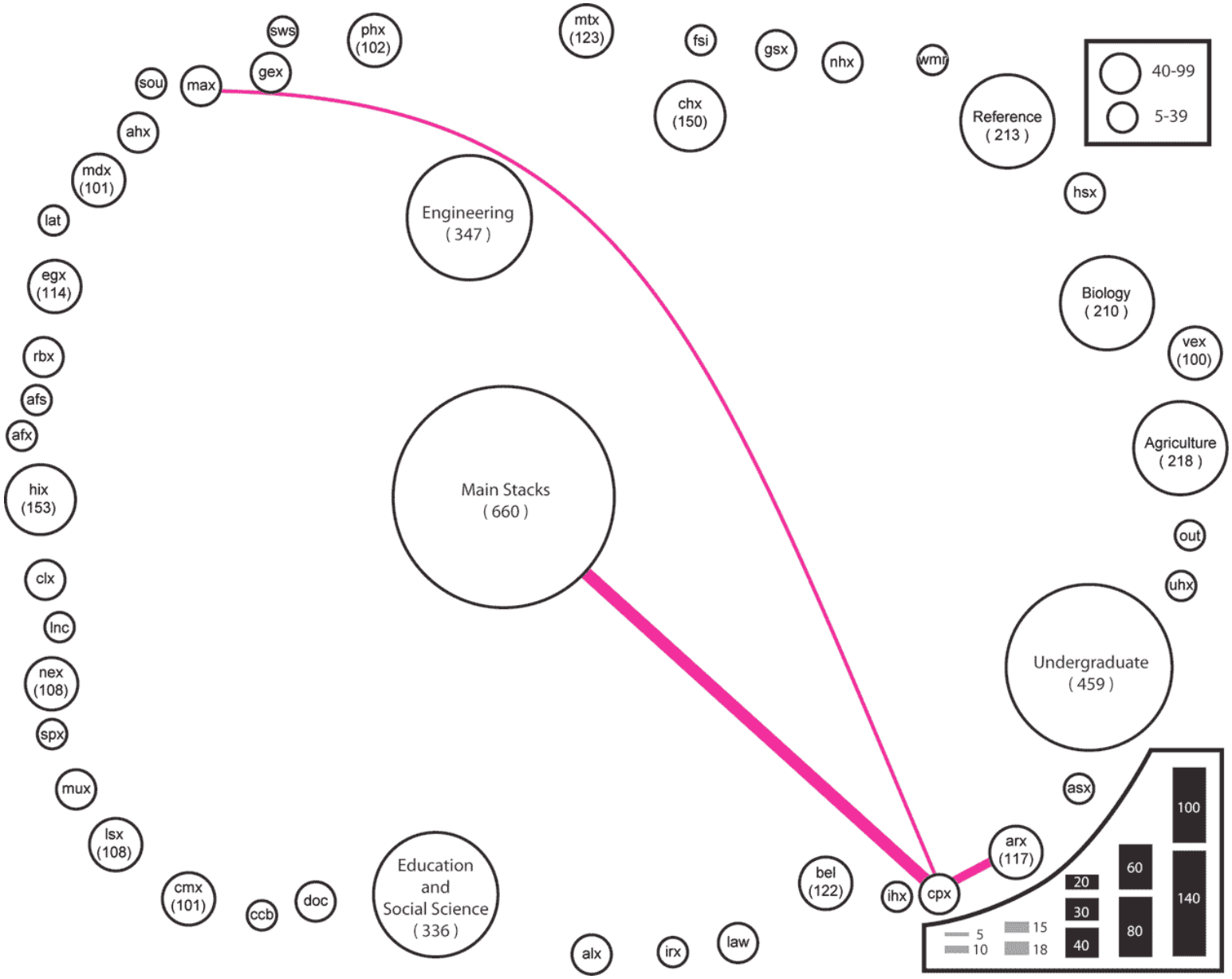
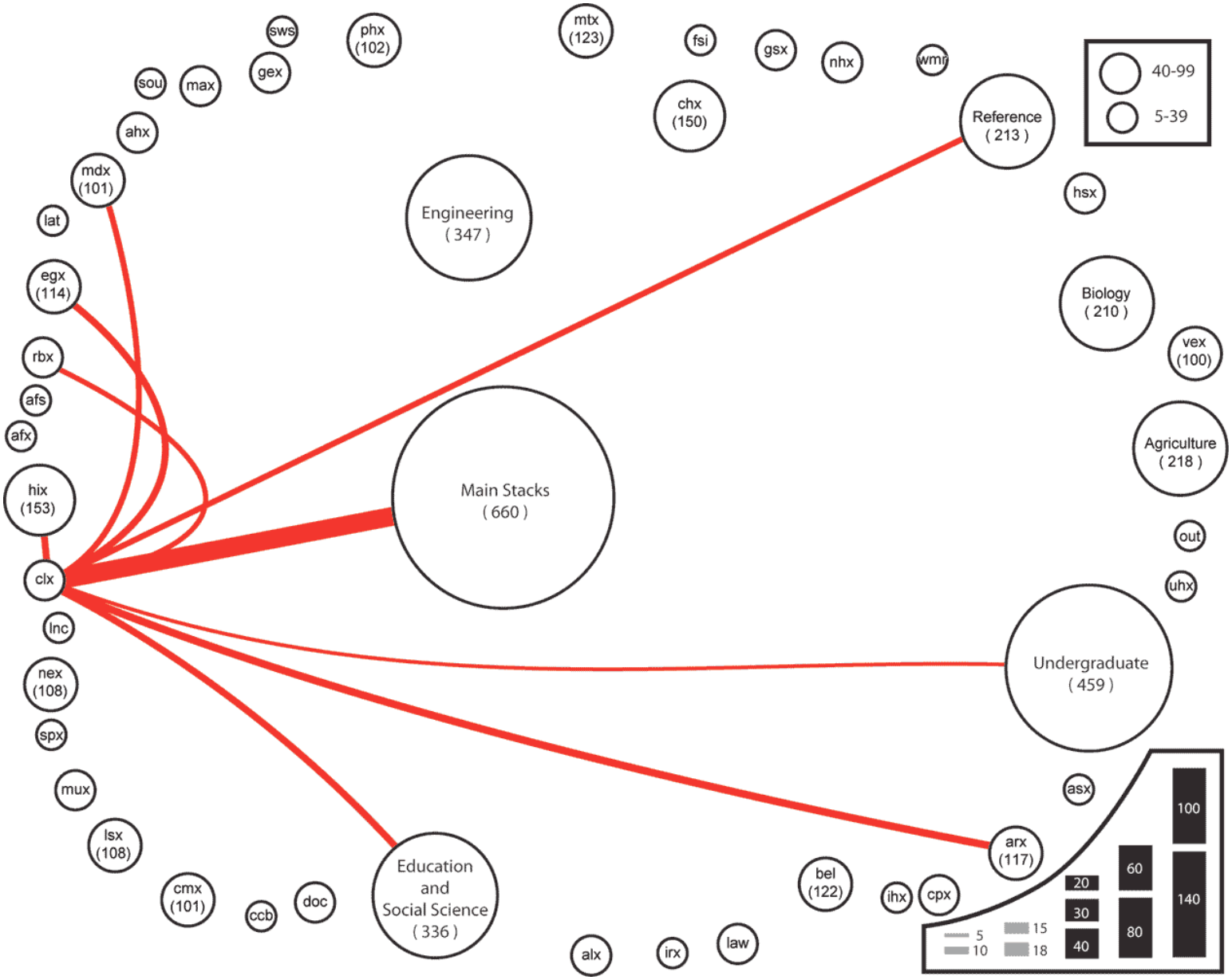


City Planning & Landscape Architecture

(part of ACES as of May 2008)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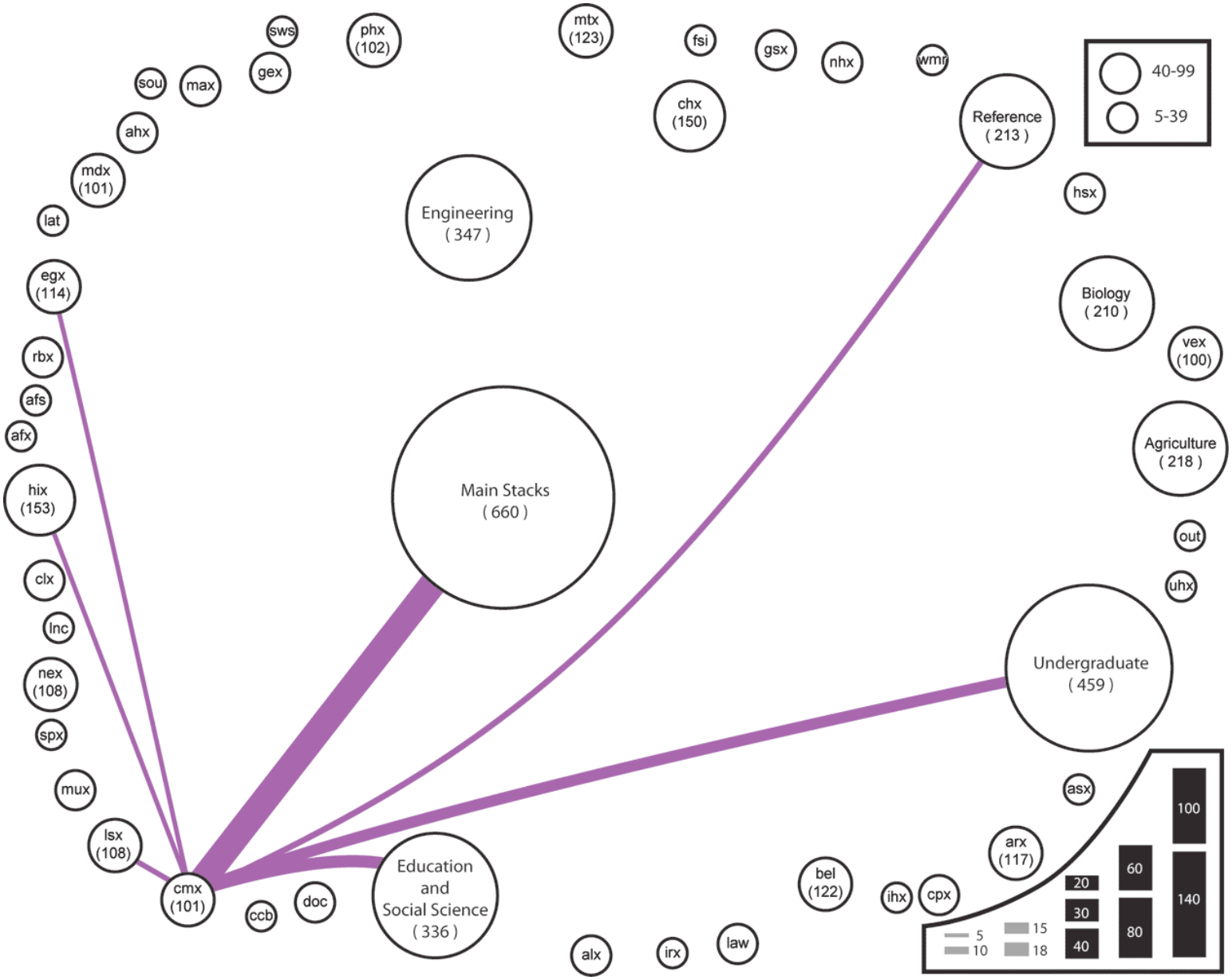

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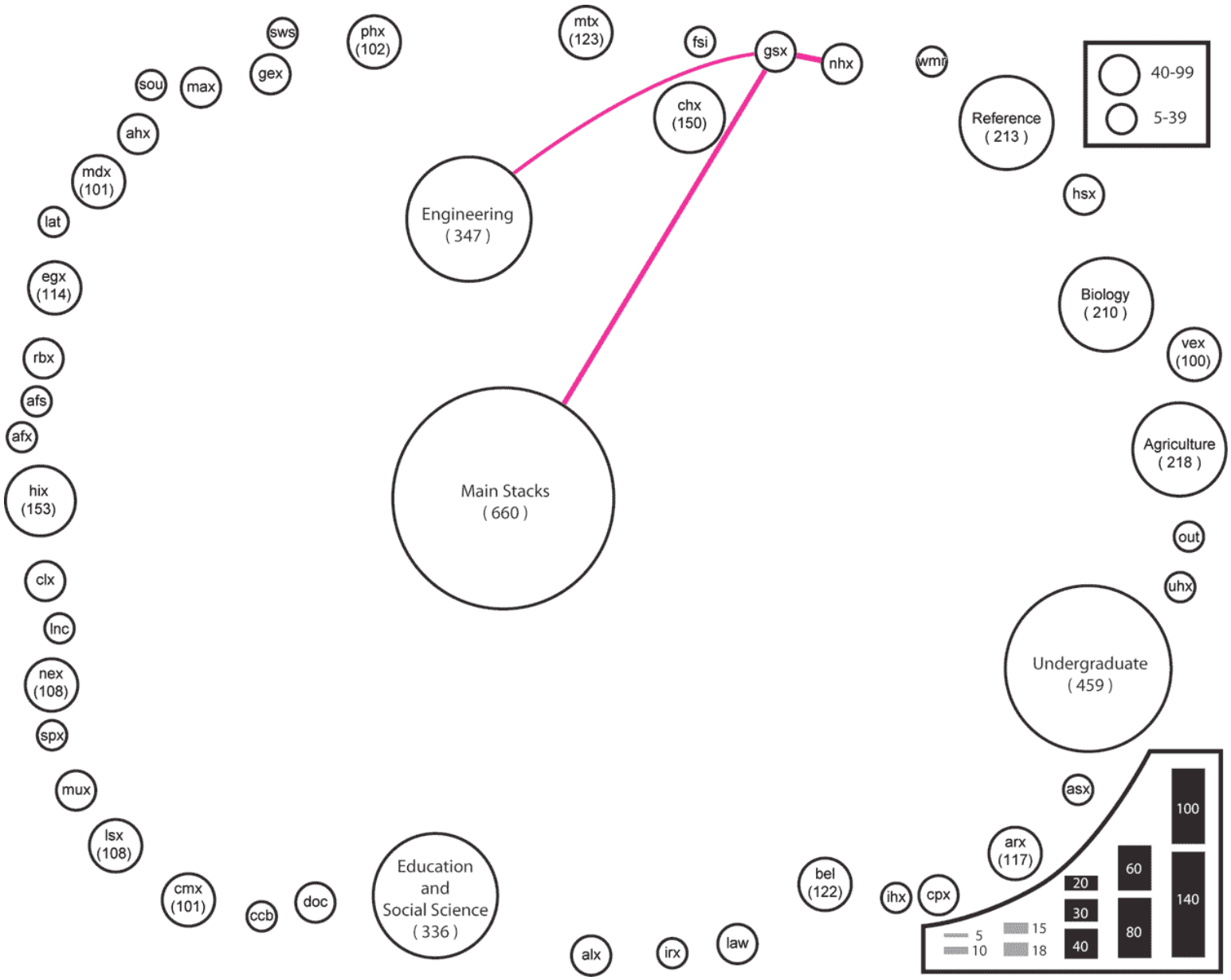
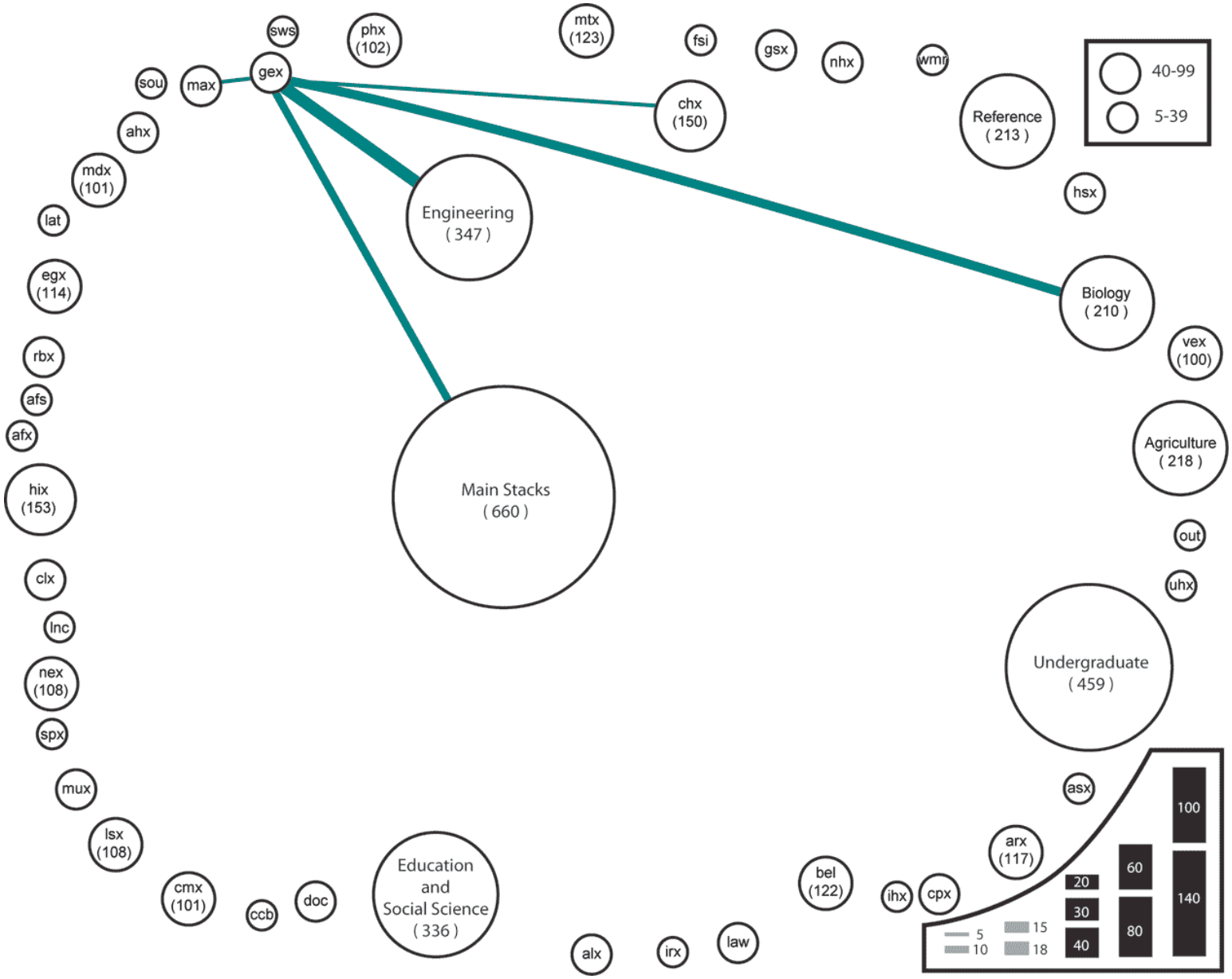


Geological Survey

(affiliate)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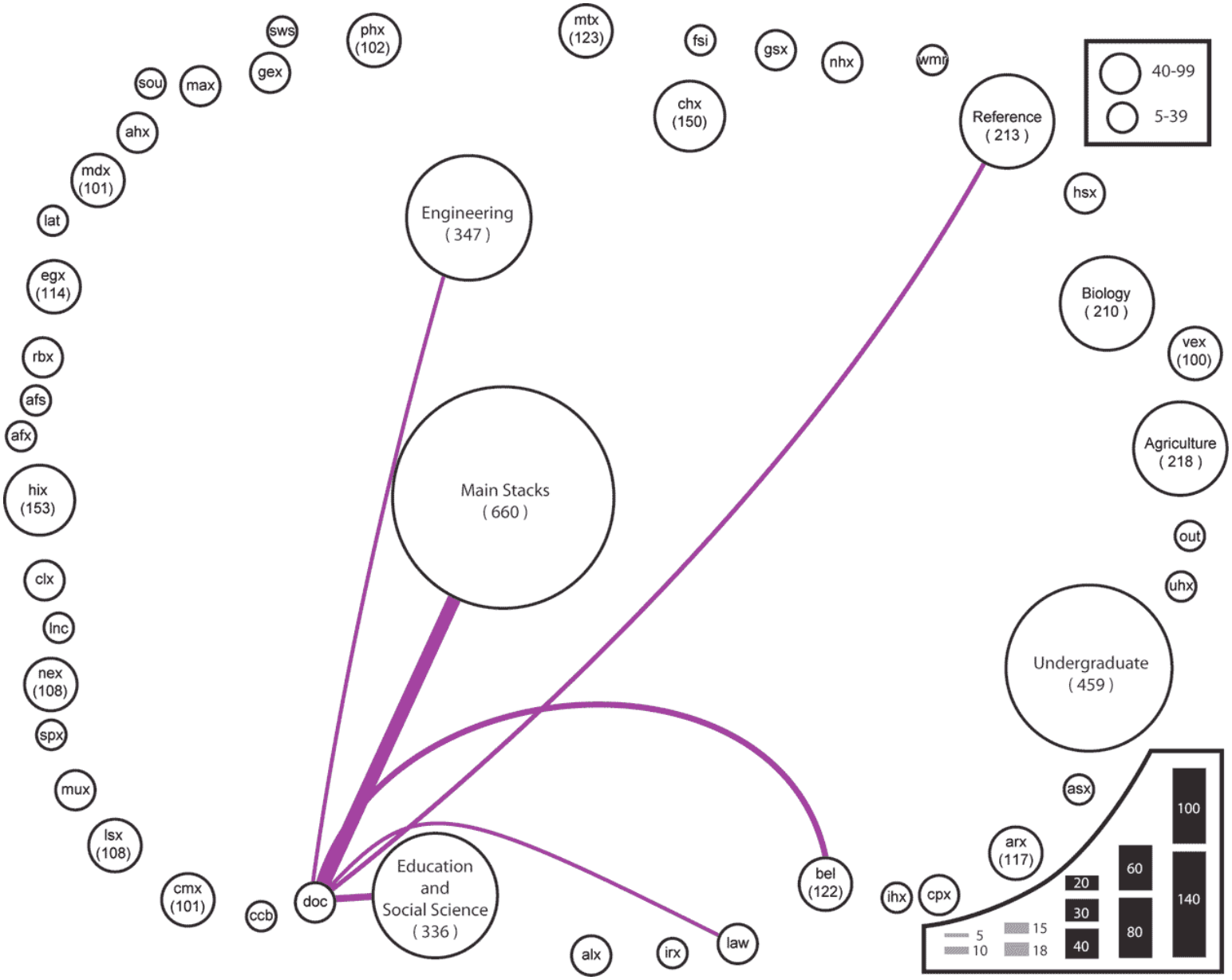
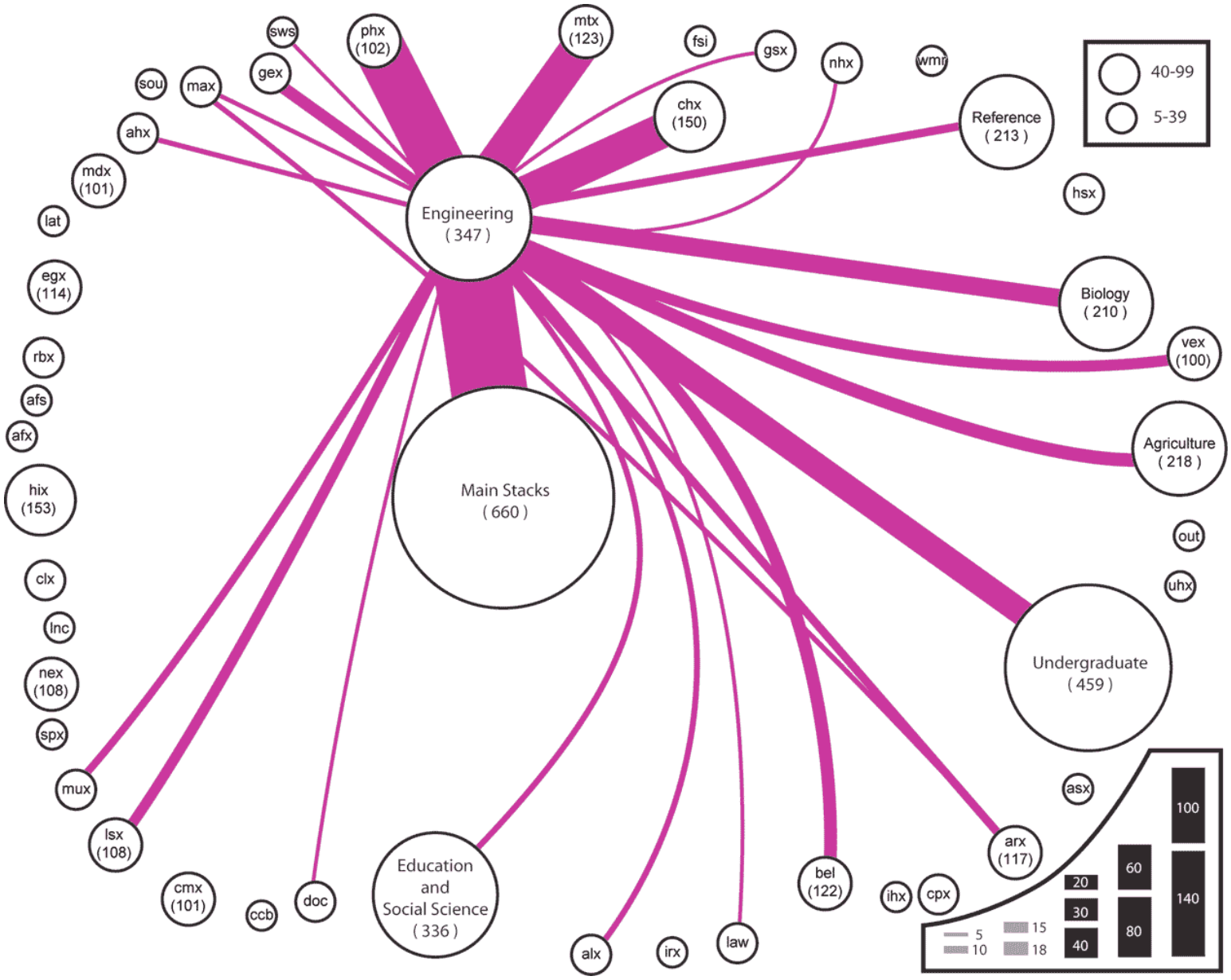
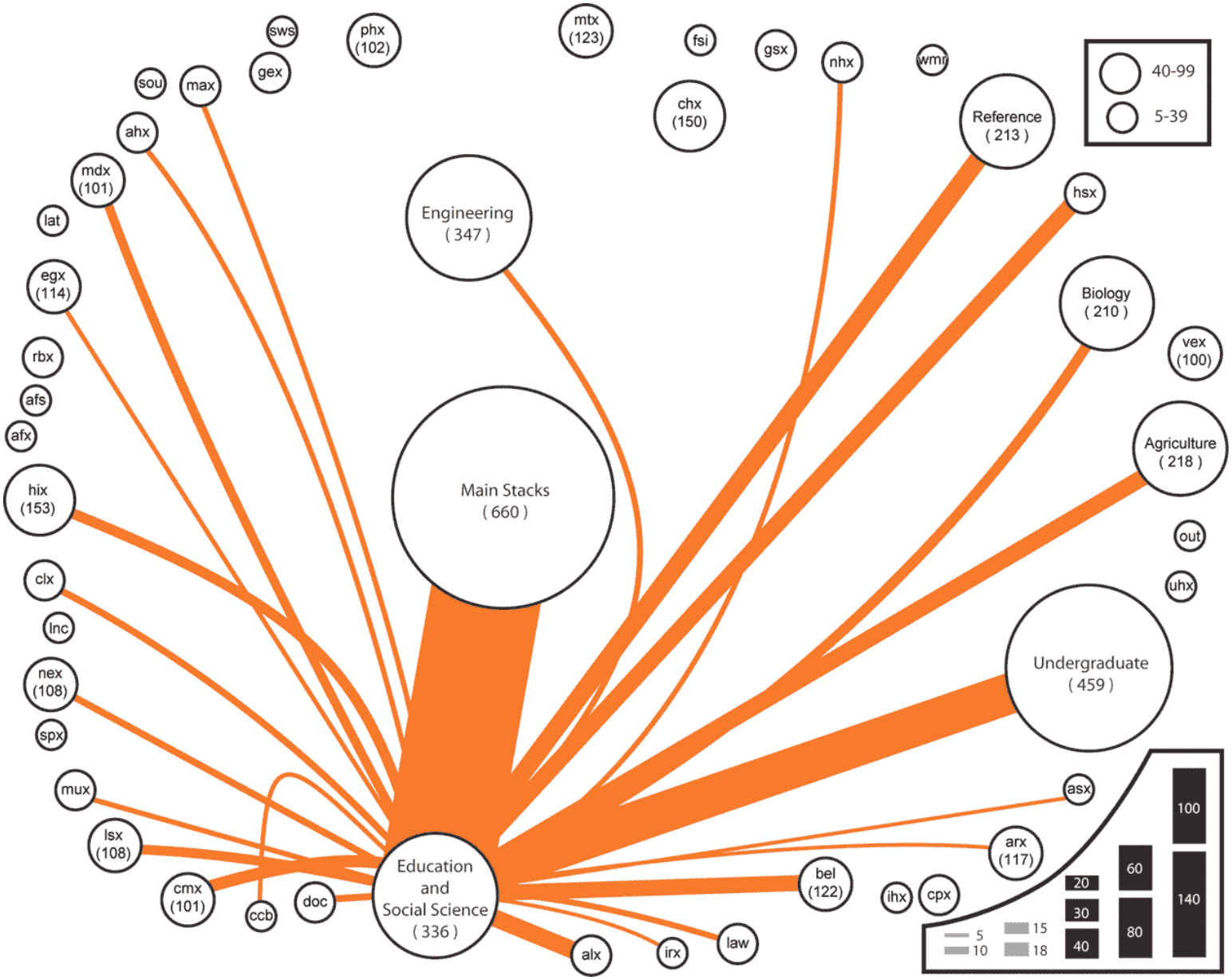


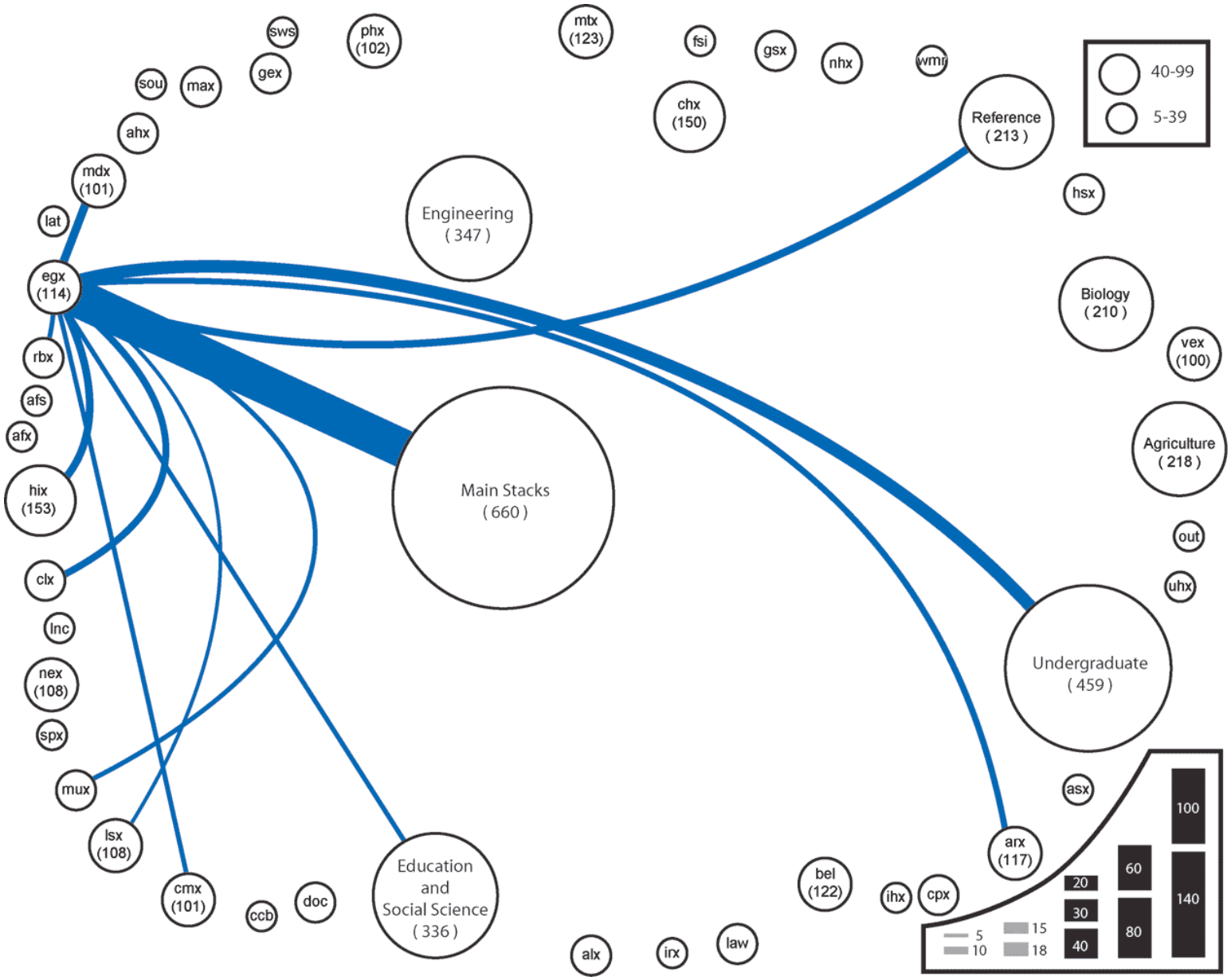
Government Documents



Grainger Engineering



Education & Social Science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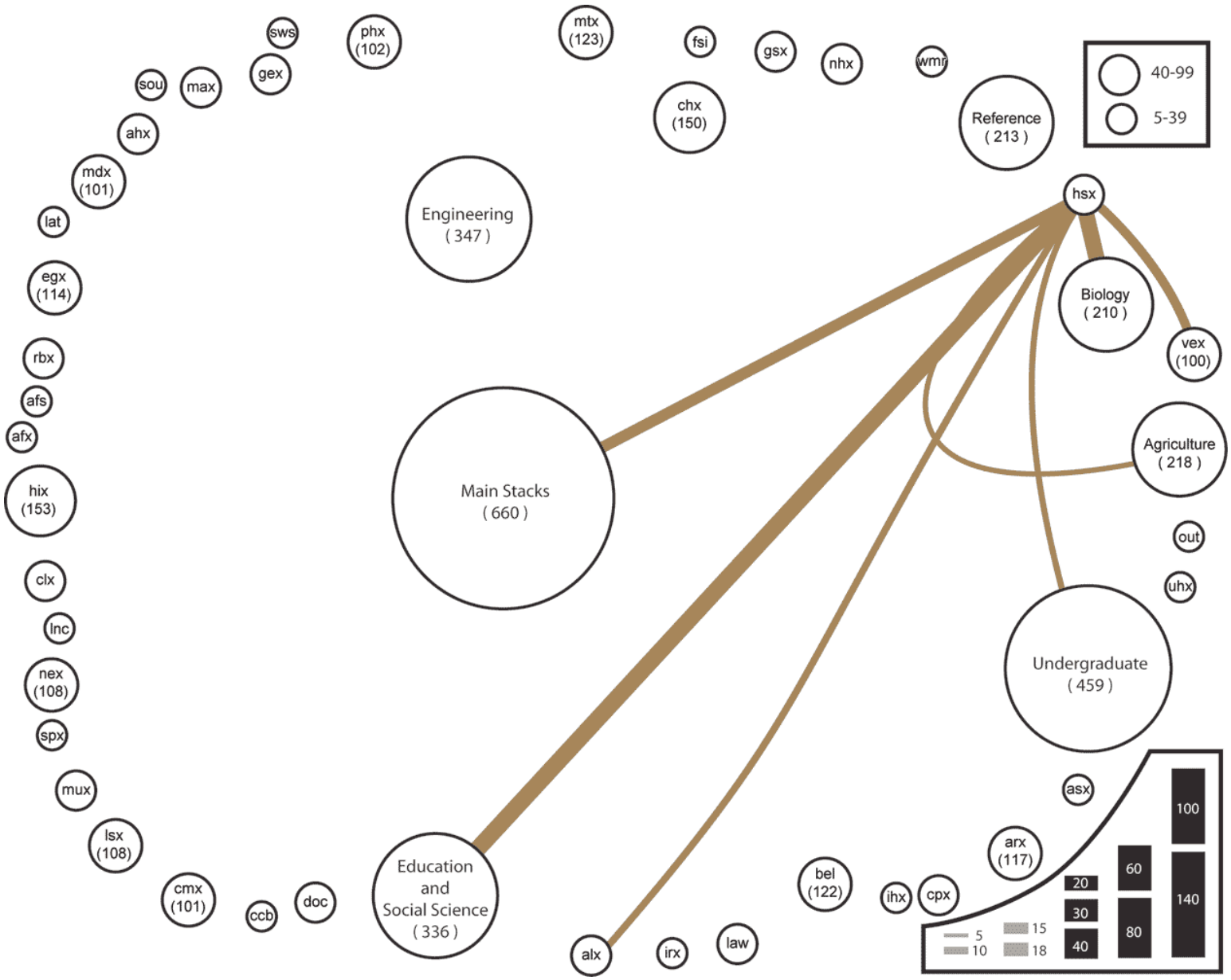
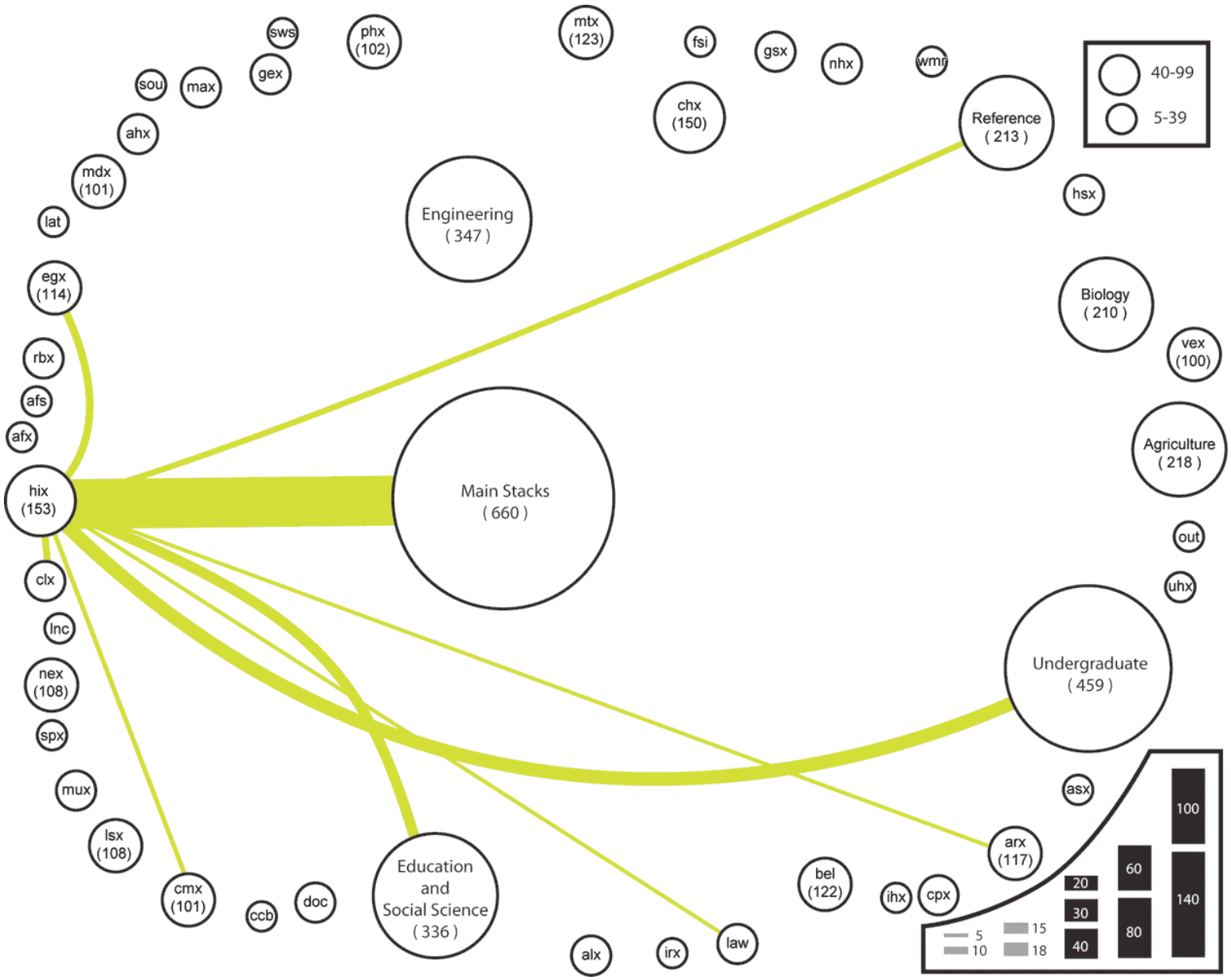
English

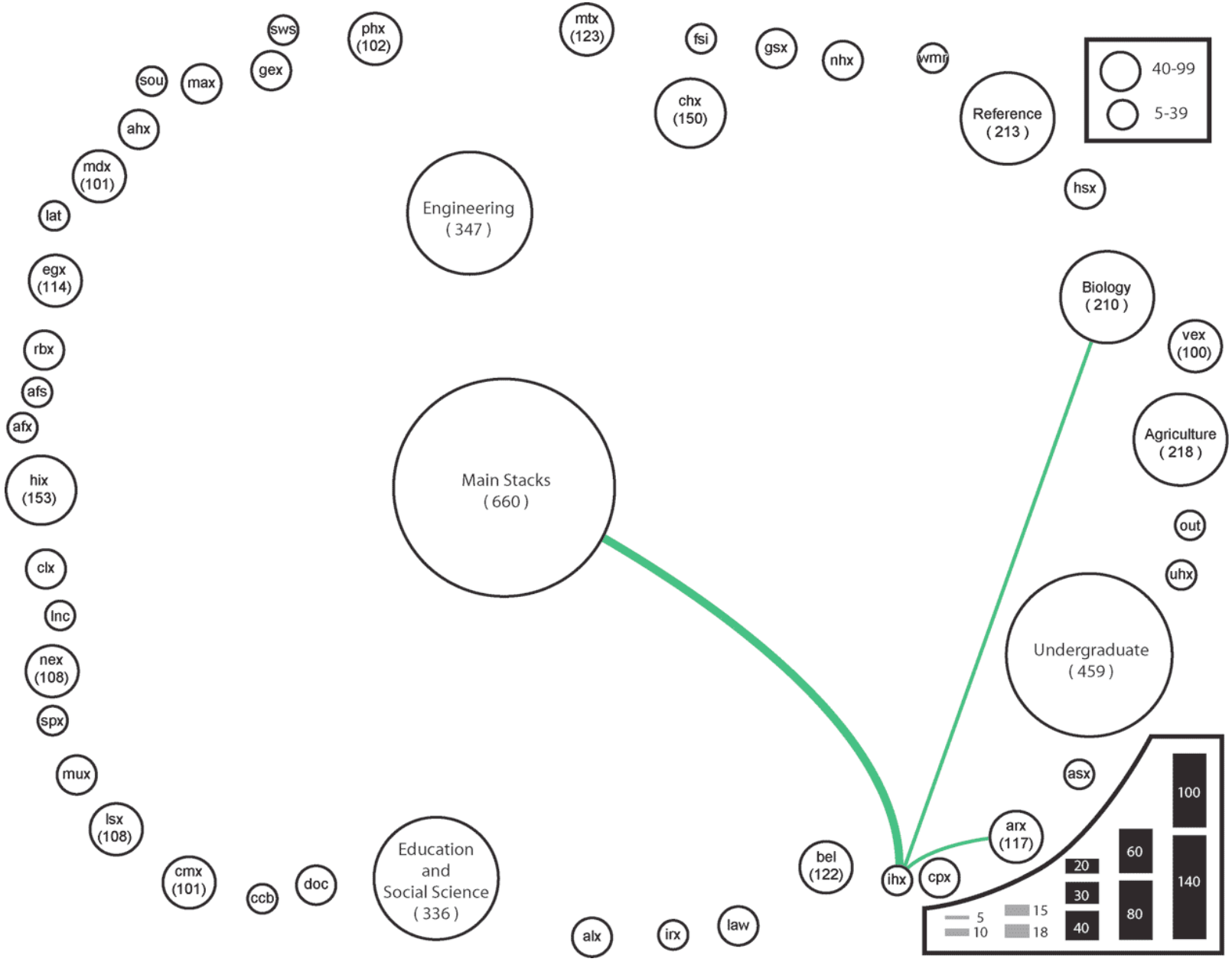


Health Sciences

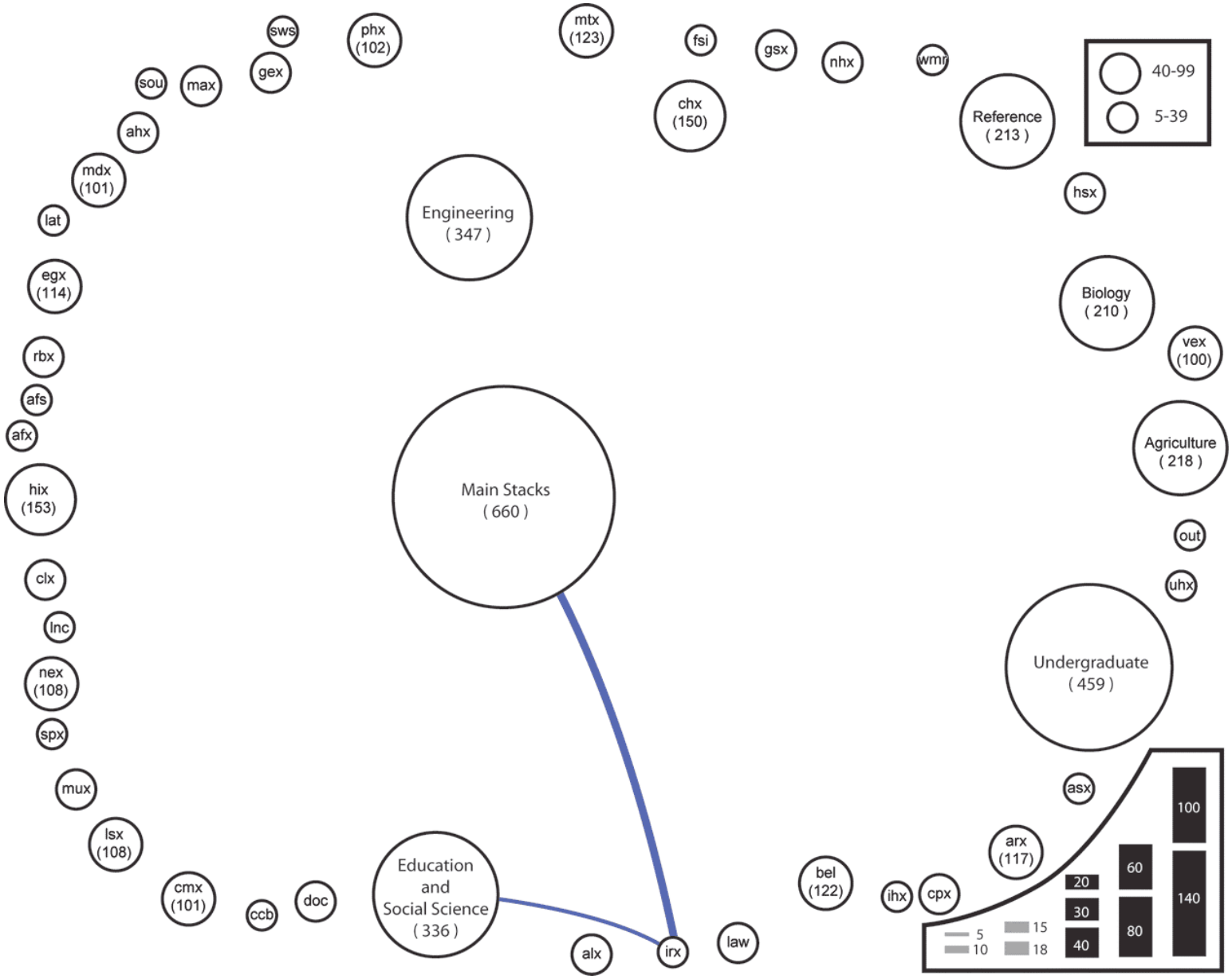
(administered by University of Illinois Chicago)



History, Philosophy & Newspaper

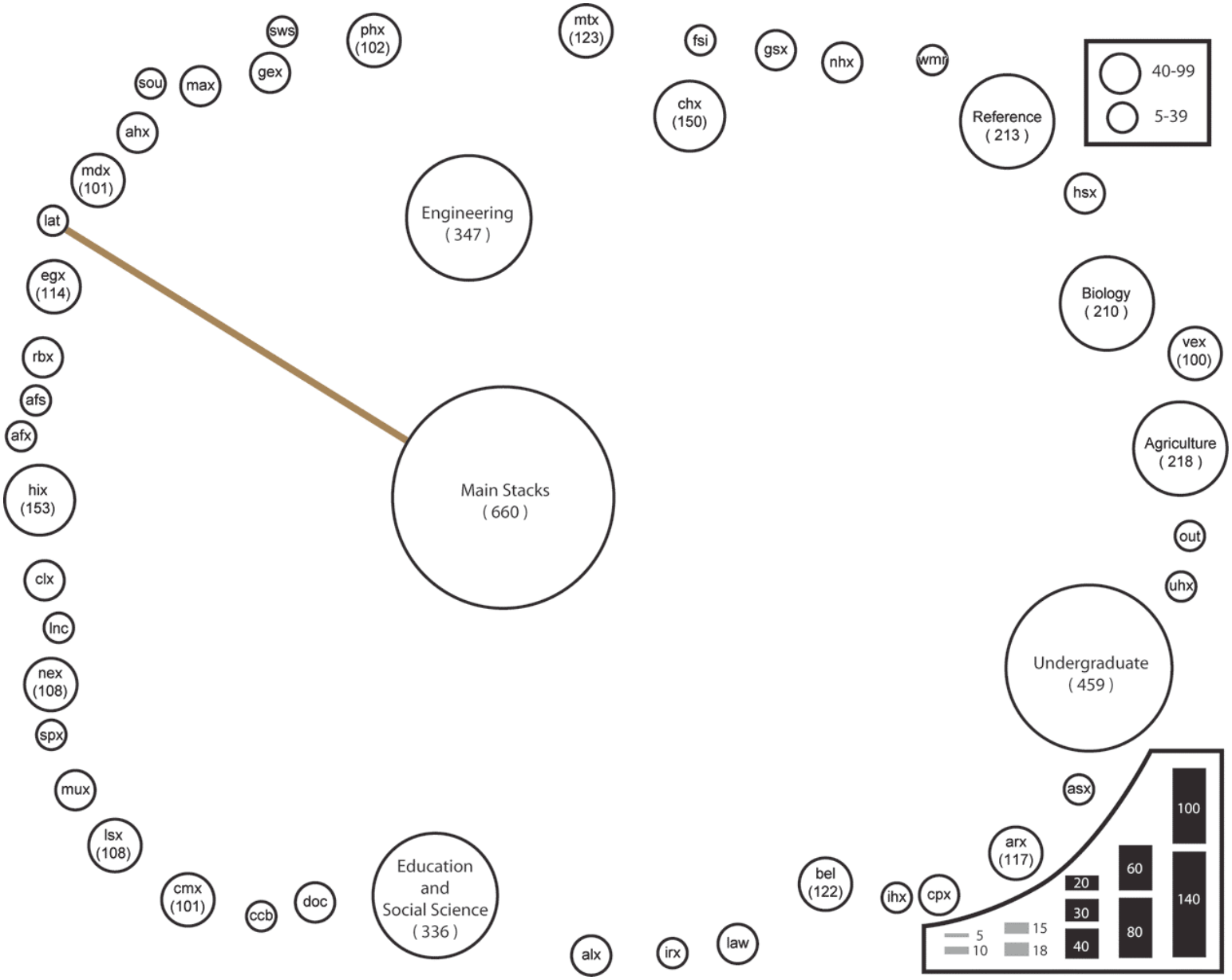


Illinois Historical Survey

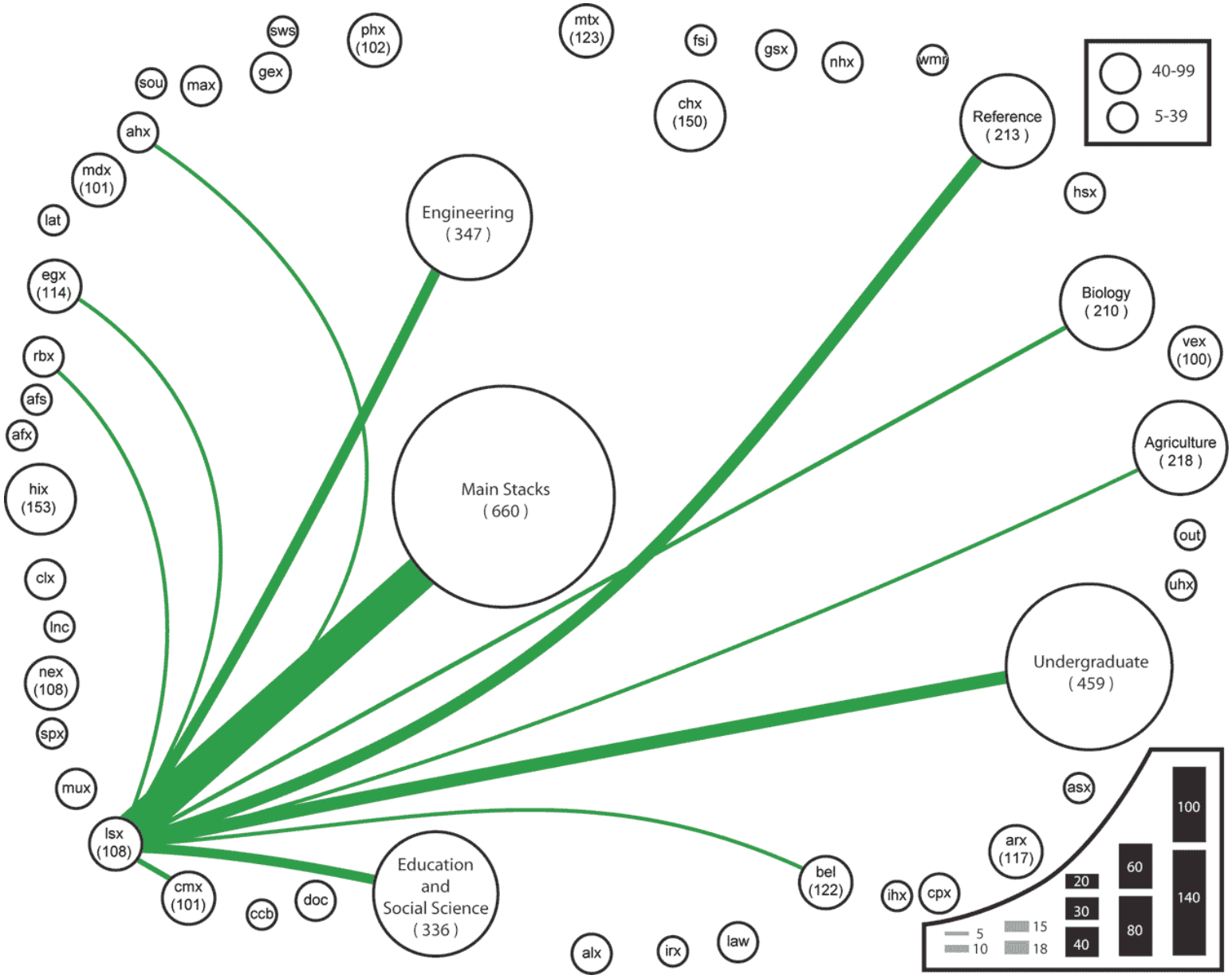


Labor & Industrial Relations

(virtual library starting Sept 2007)

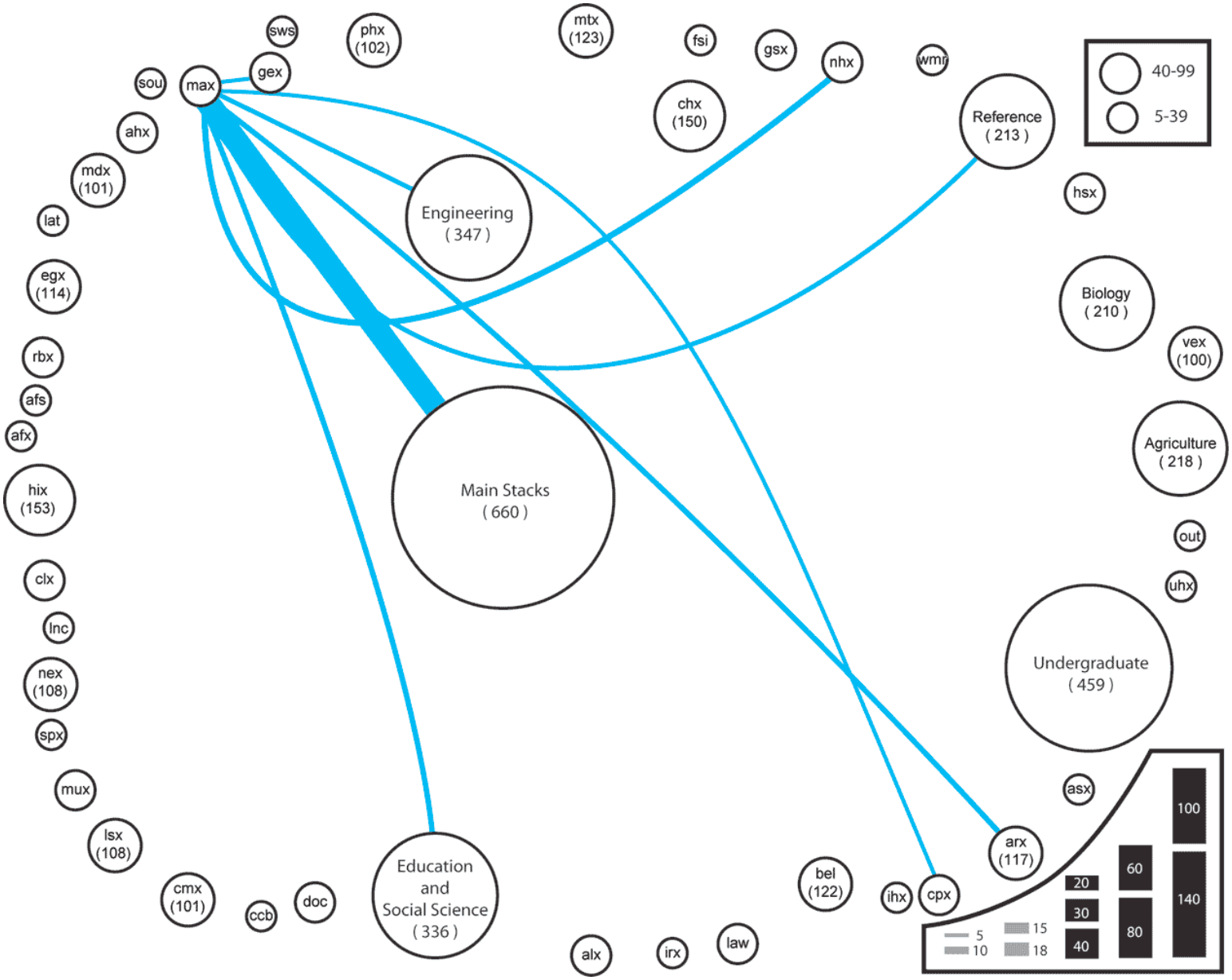


Latin American & Caribbean

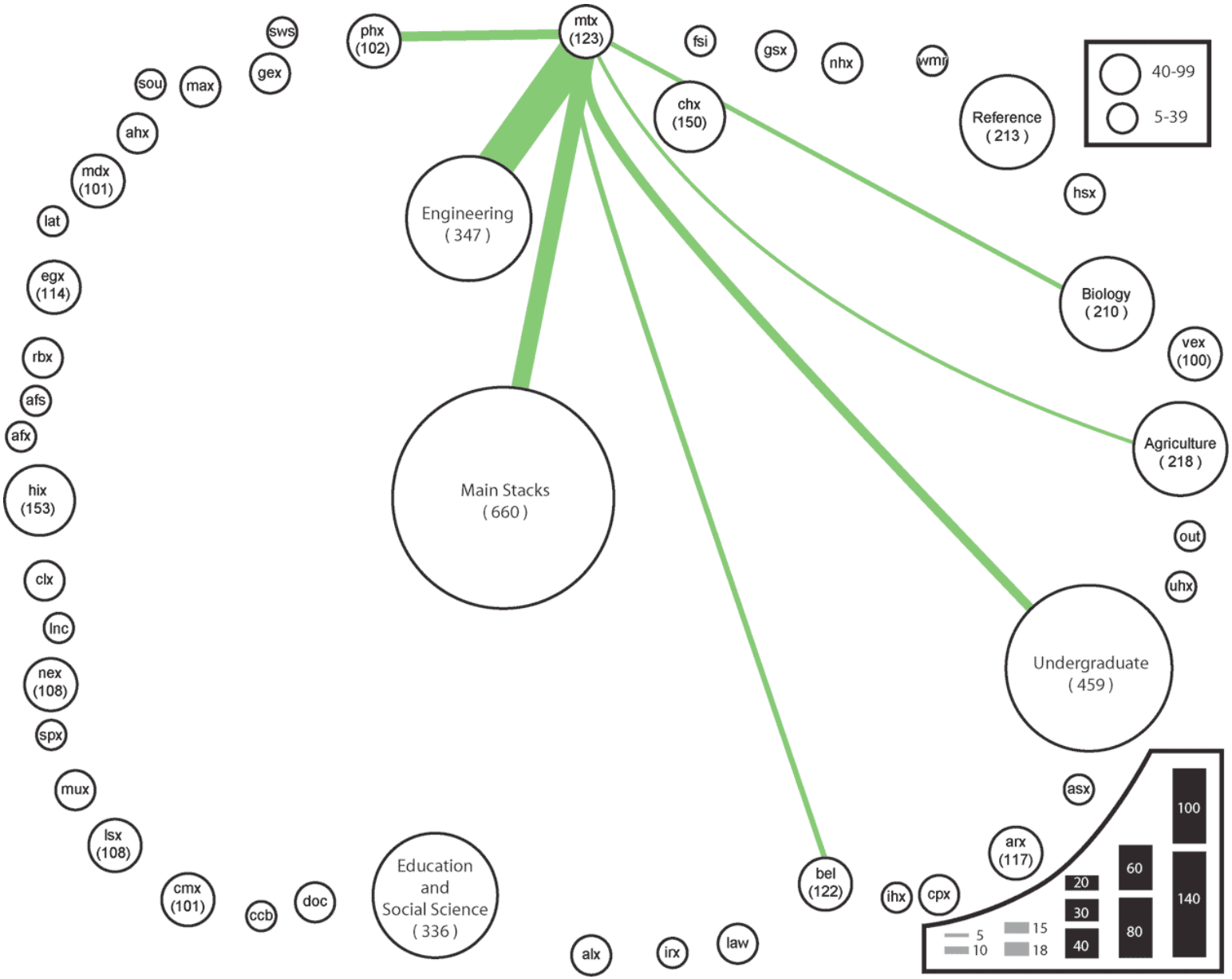


Library & Information Science

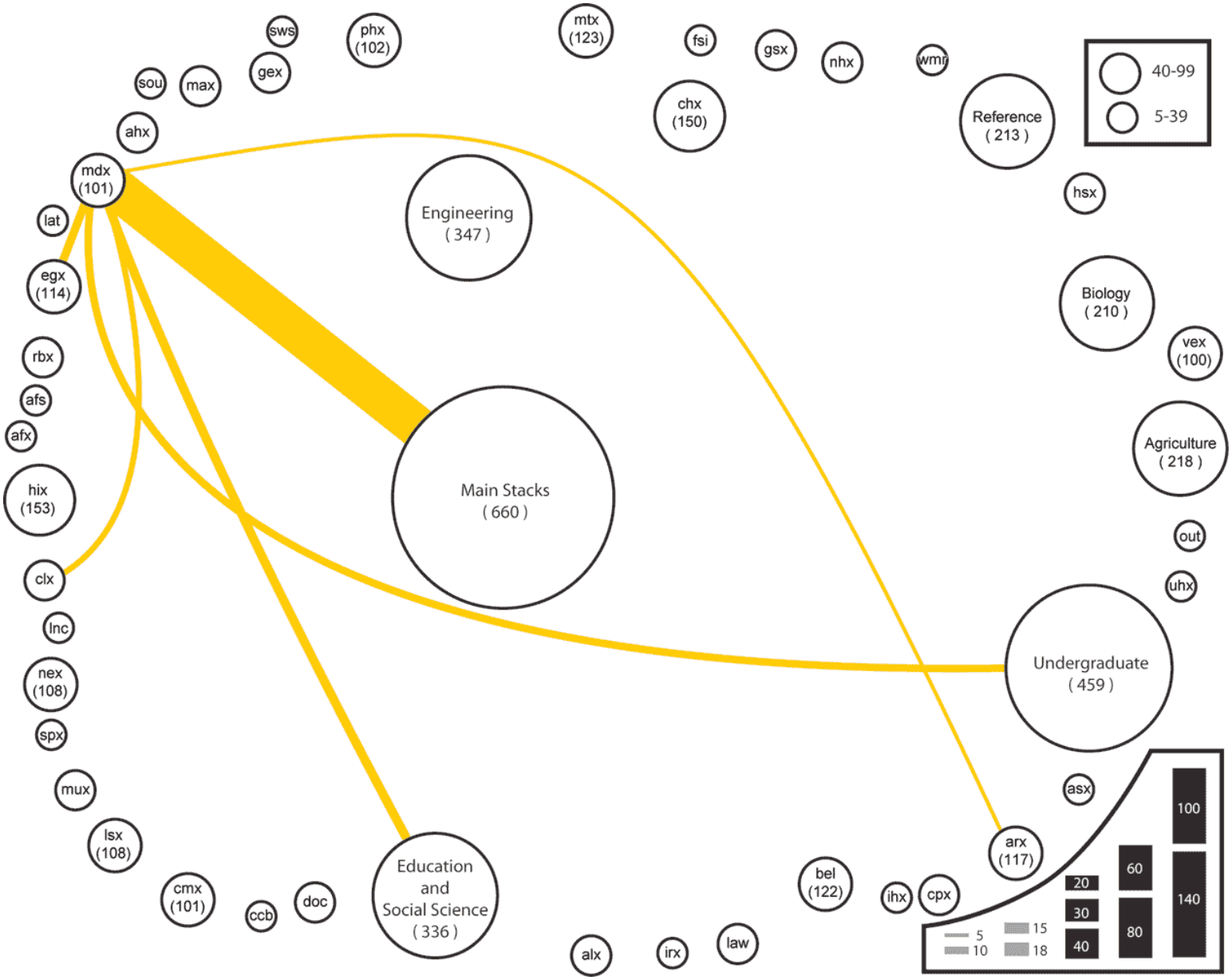
(virtual library starting May 2009)



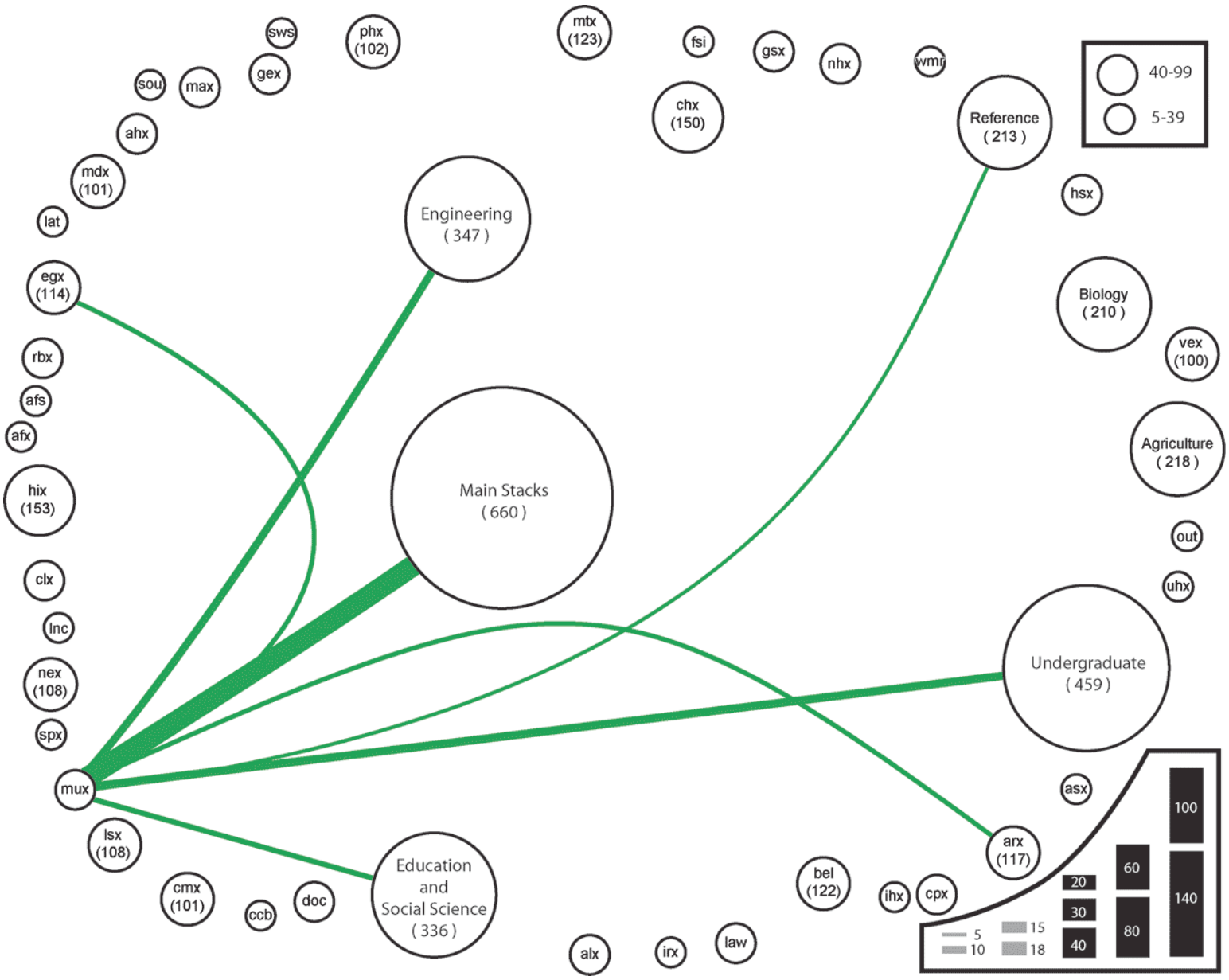
Map & Geography



Mathematics



Modern Languages & Linguistics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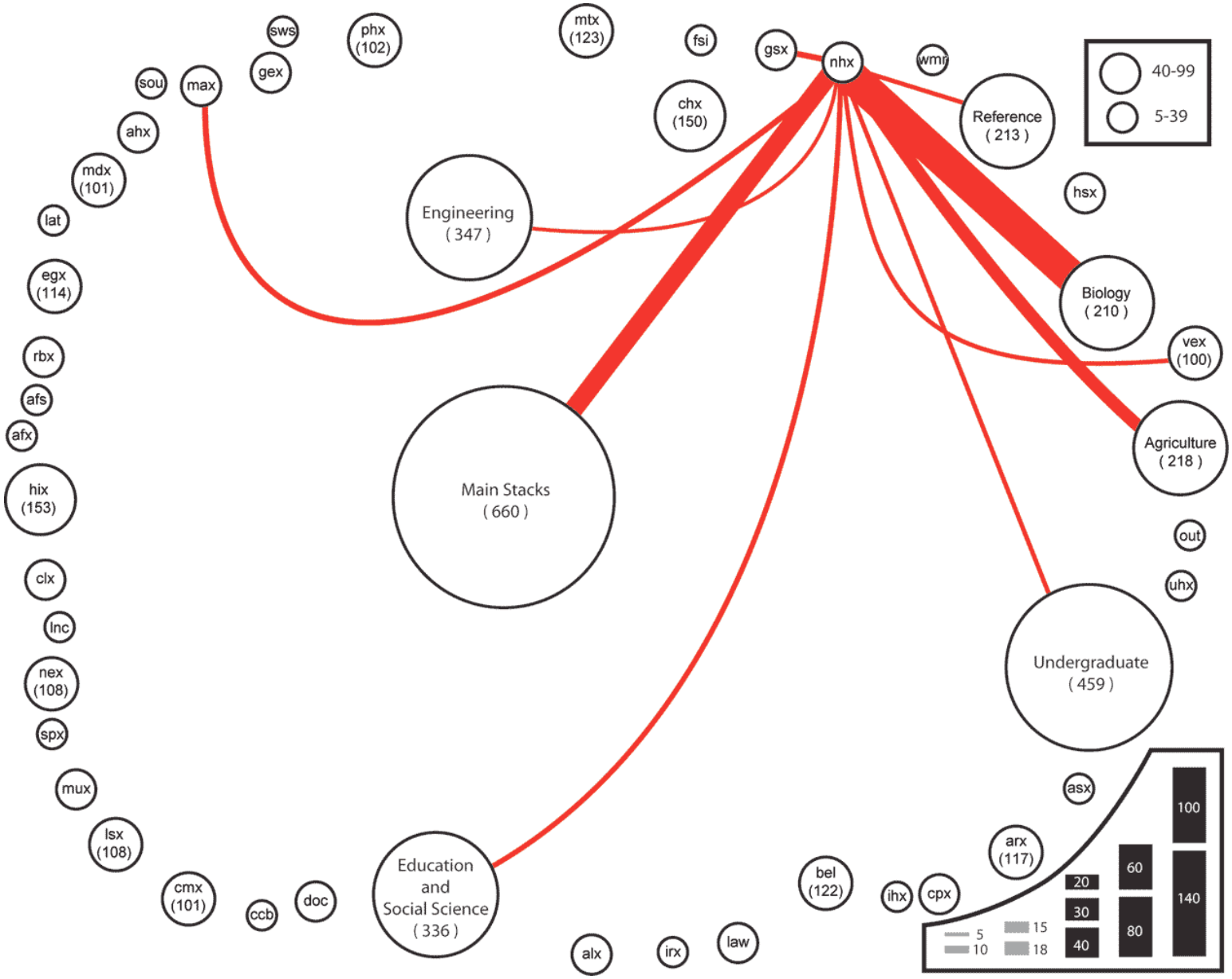
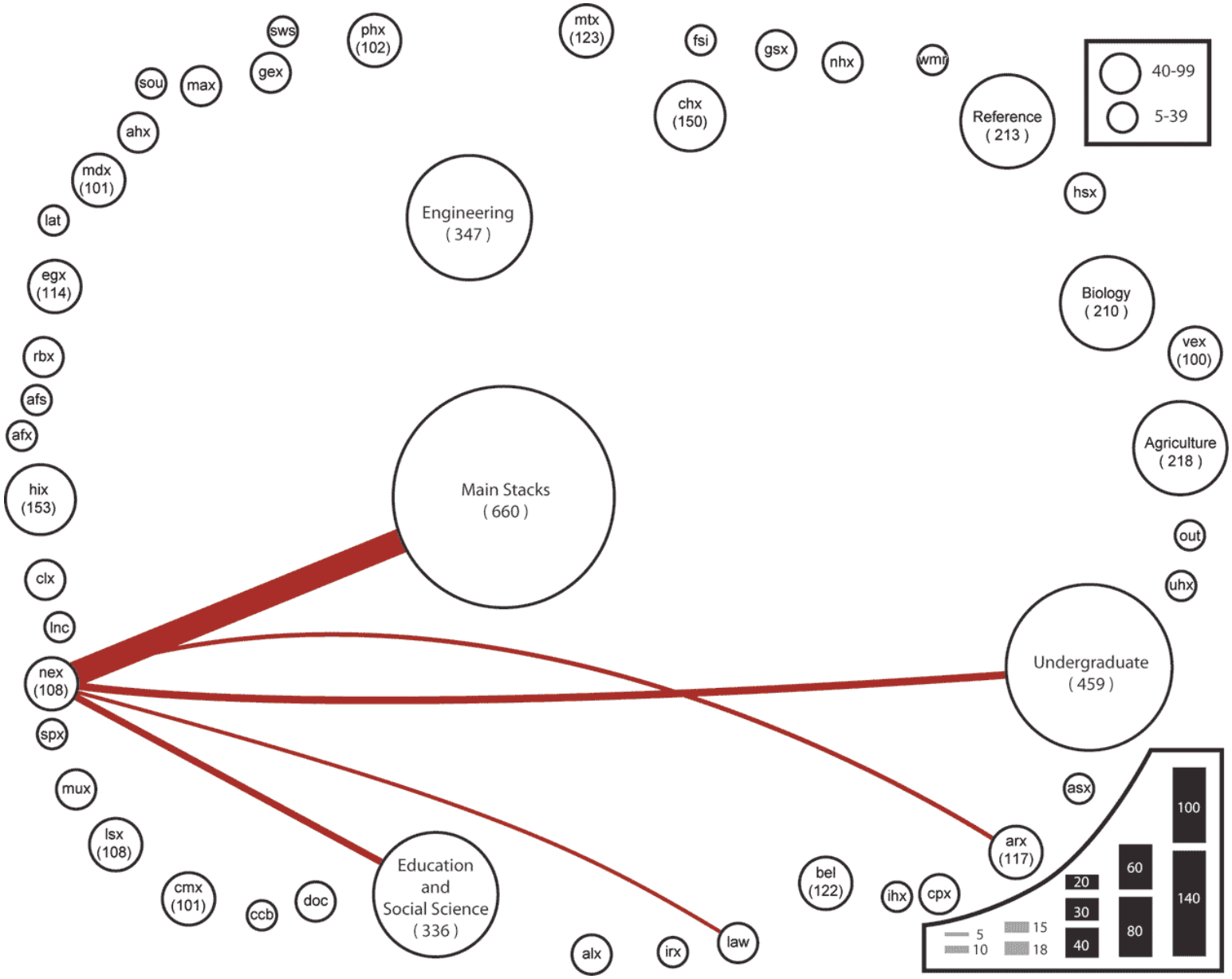
Music



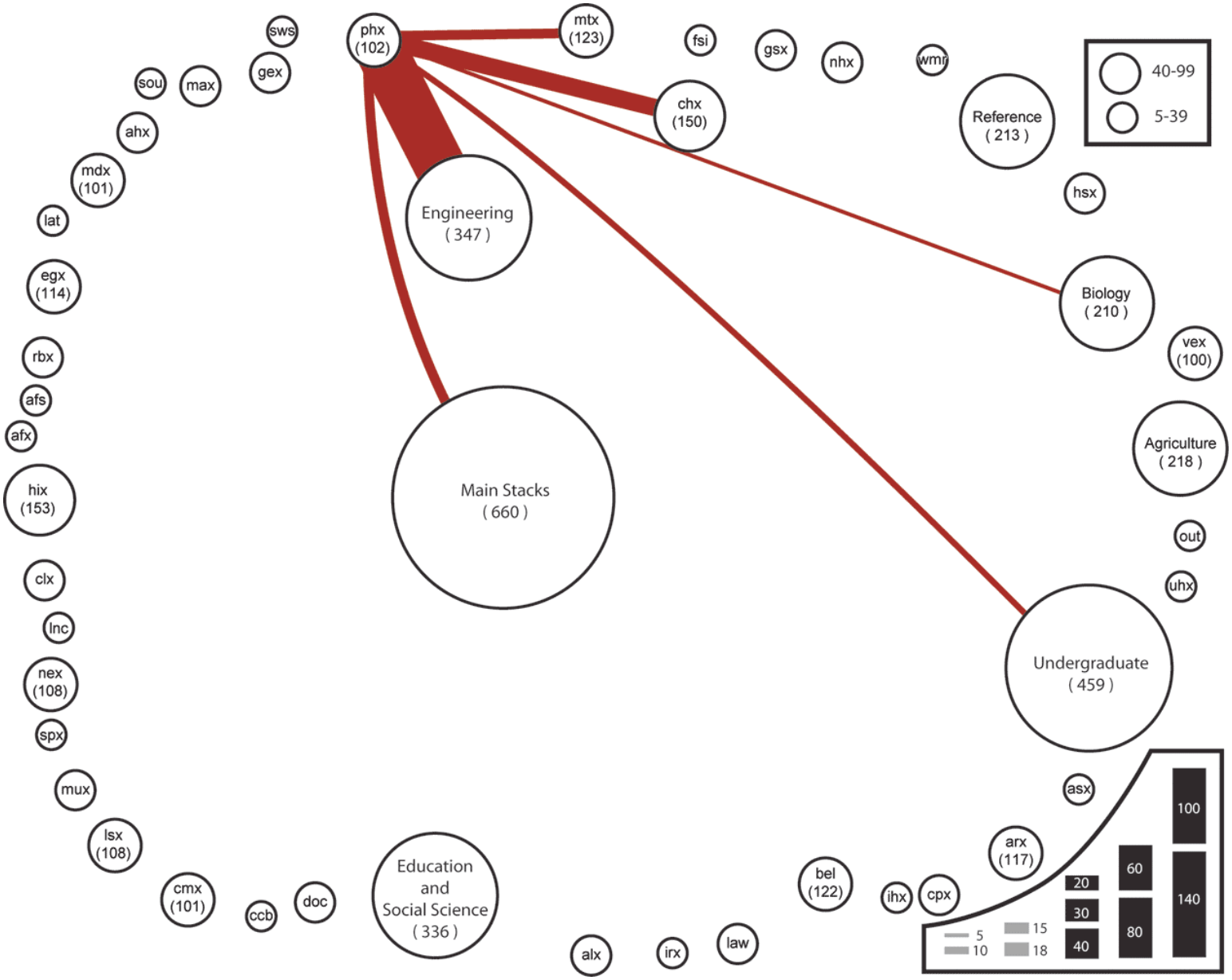
Natural History Survey

(affiliate; part of Life Science Division)



Newspaper

(part of History Philosophy & Newspaper Library as of Aug 2005)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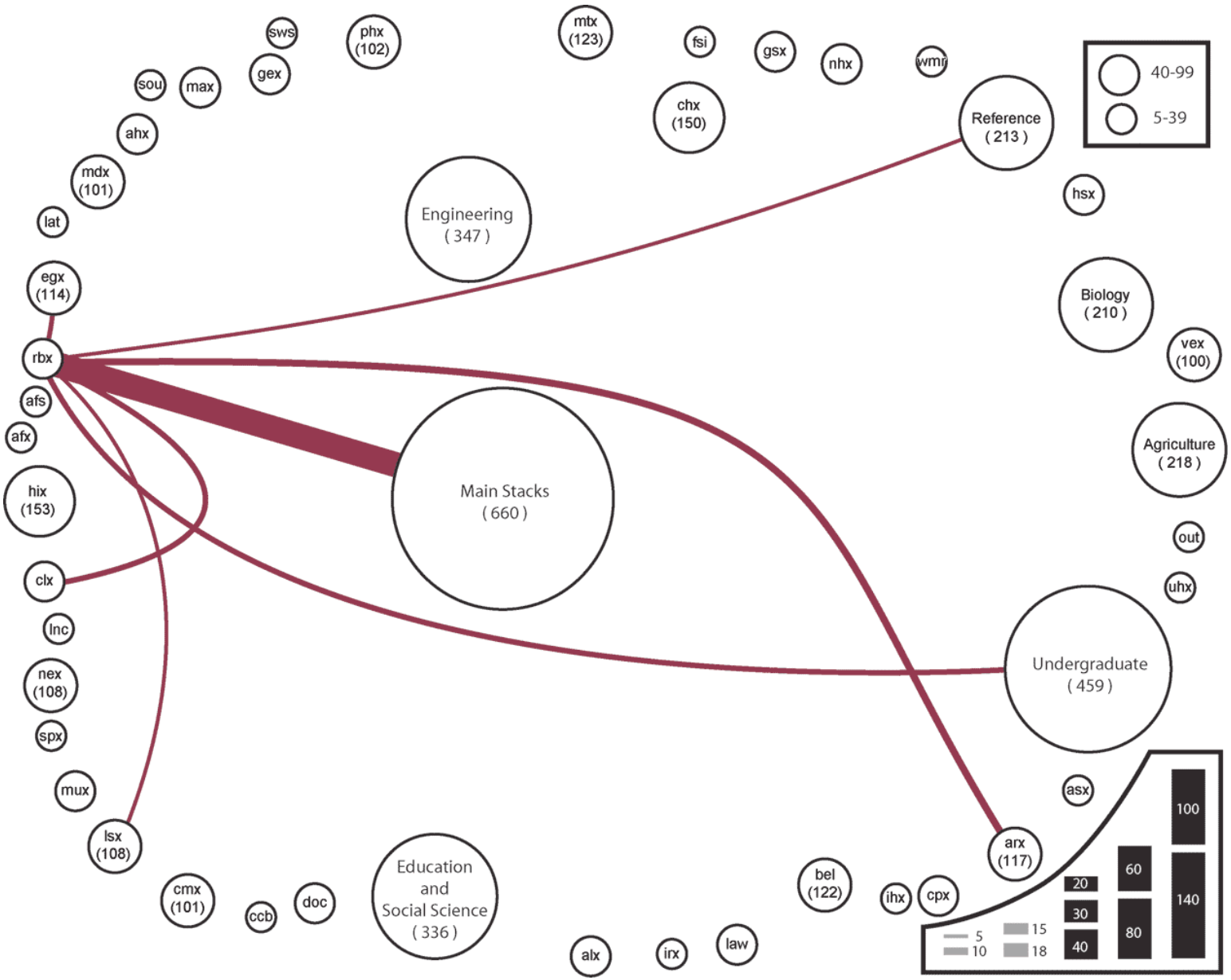
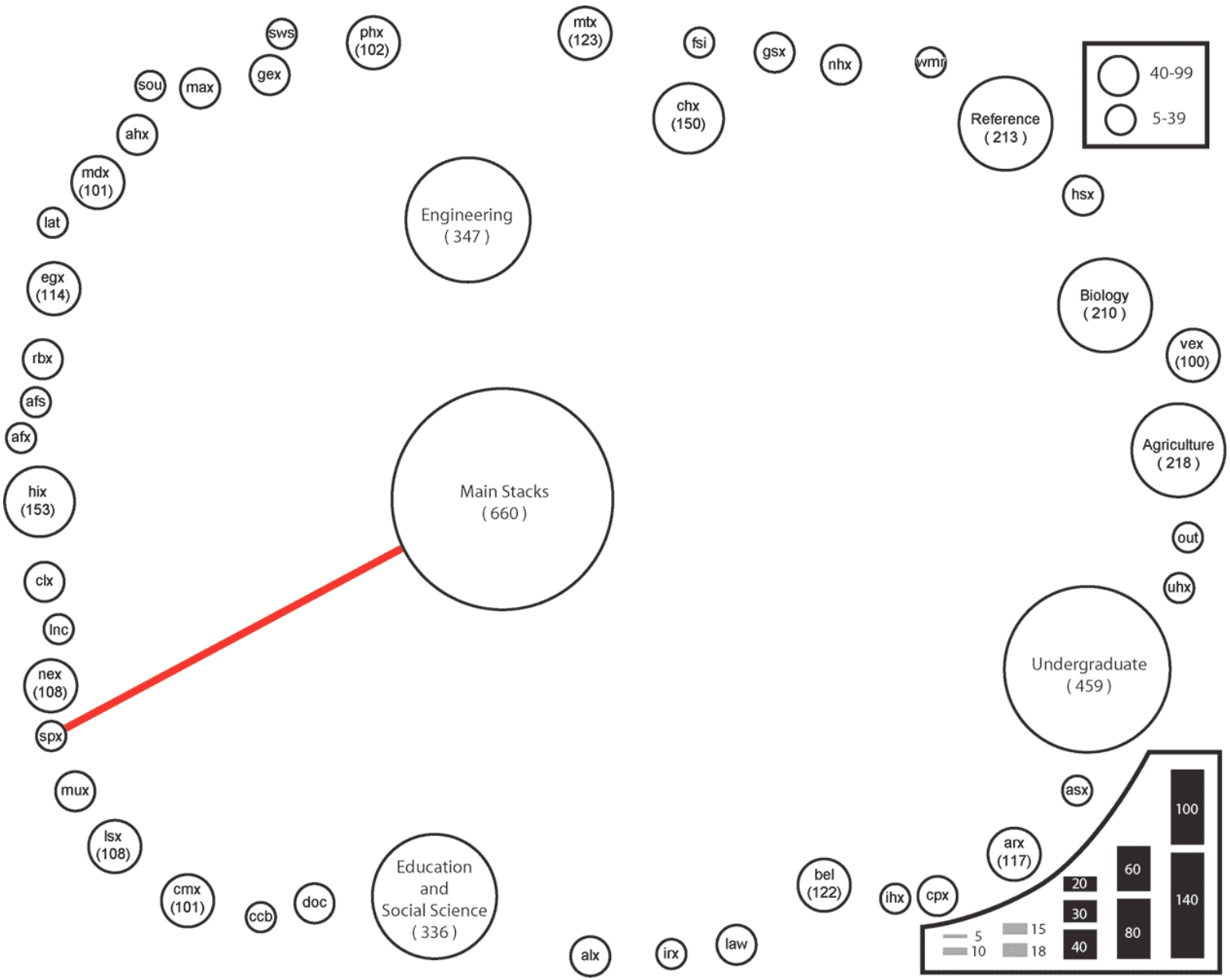
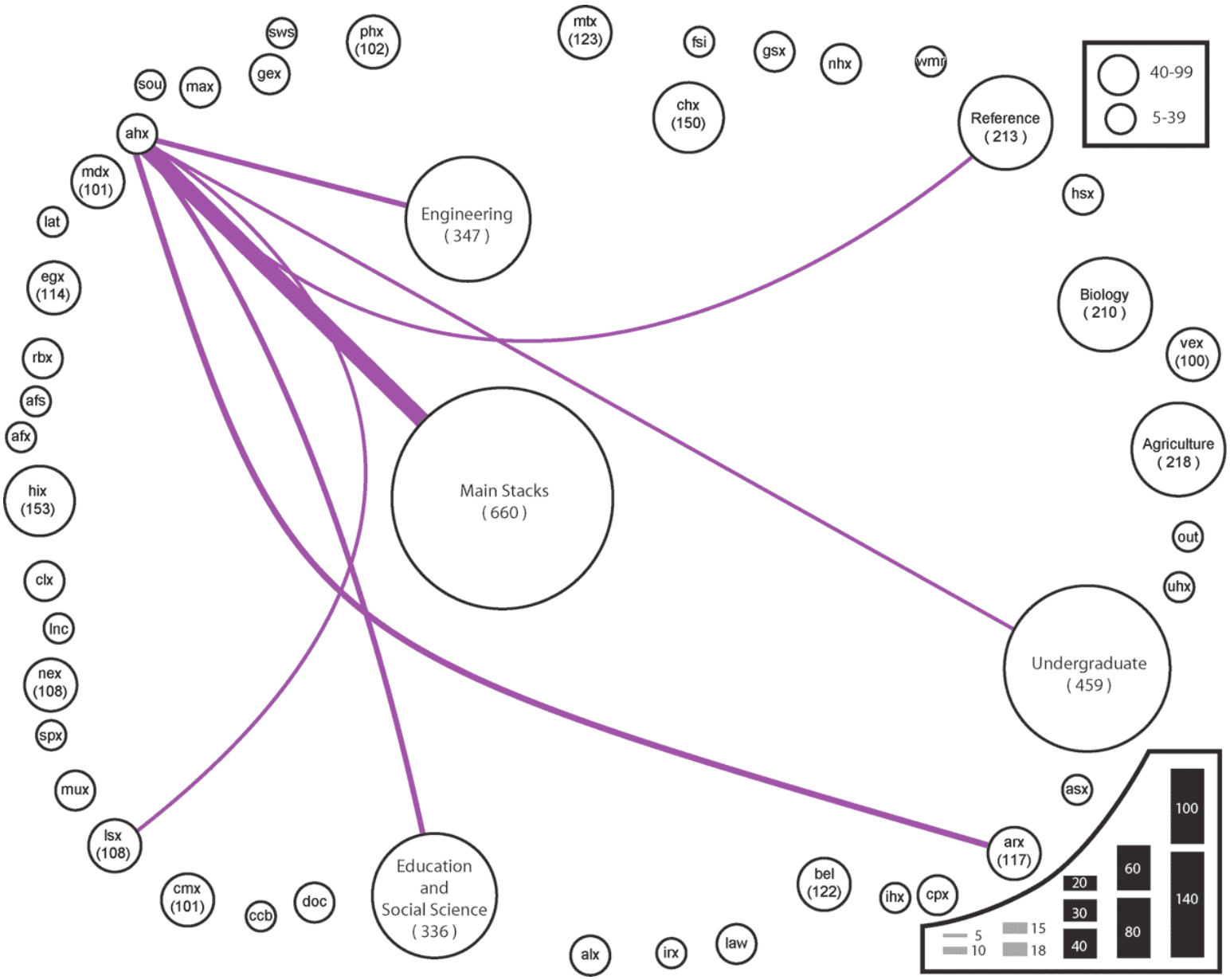
Physics



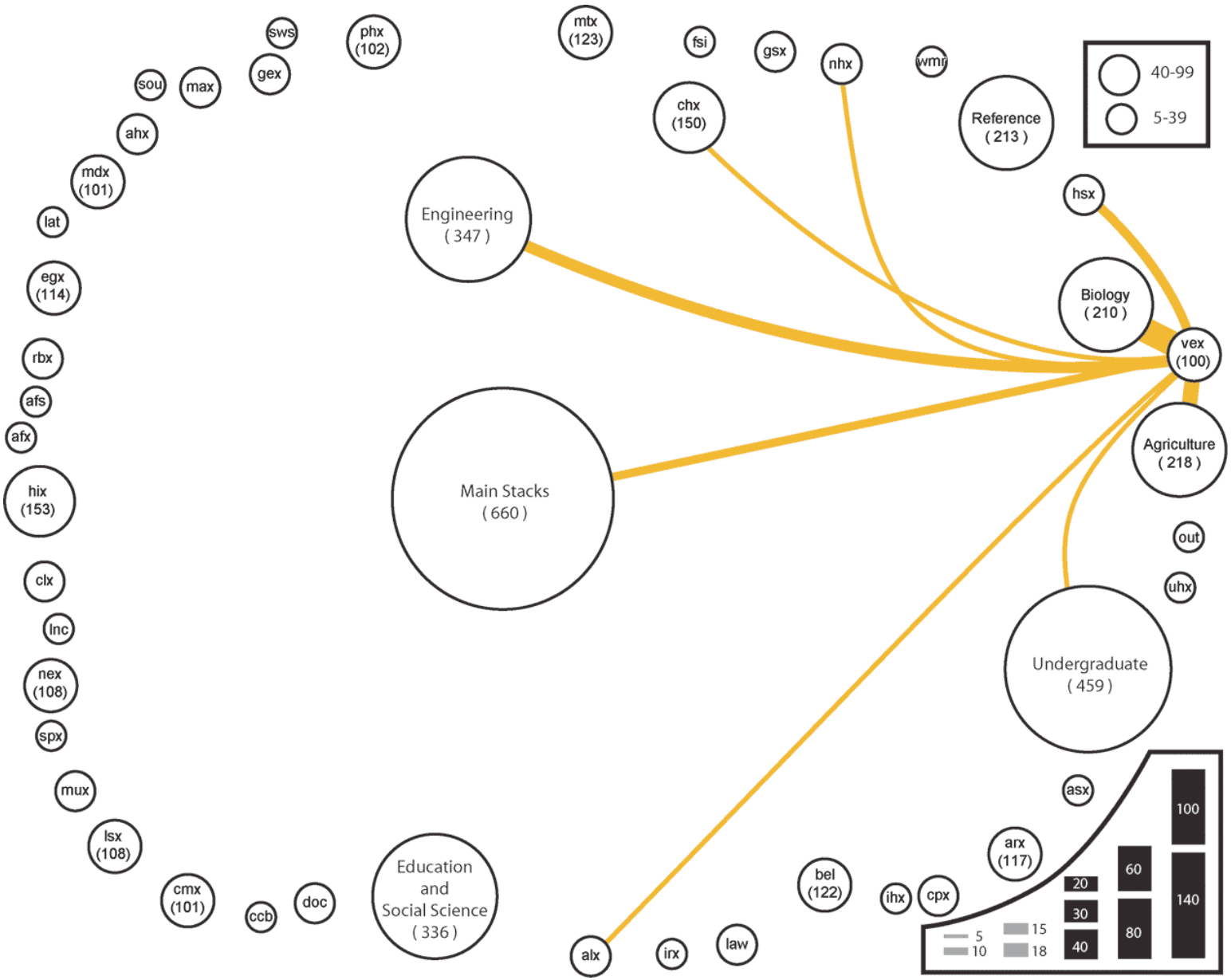
Rare Books & Manuscripts



Slavic & East European



University Archives

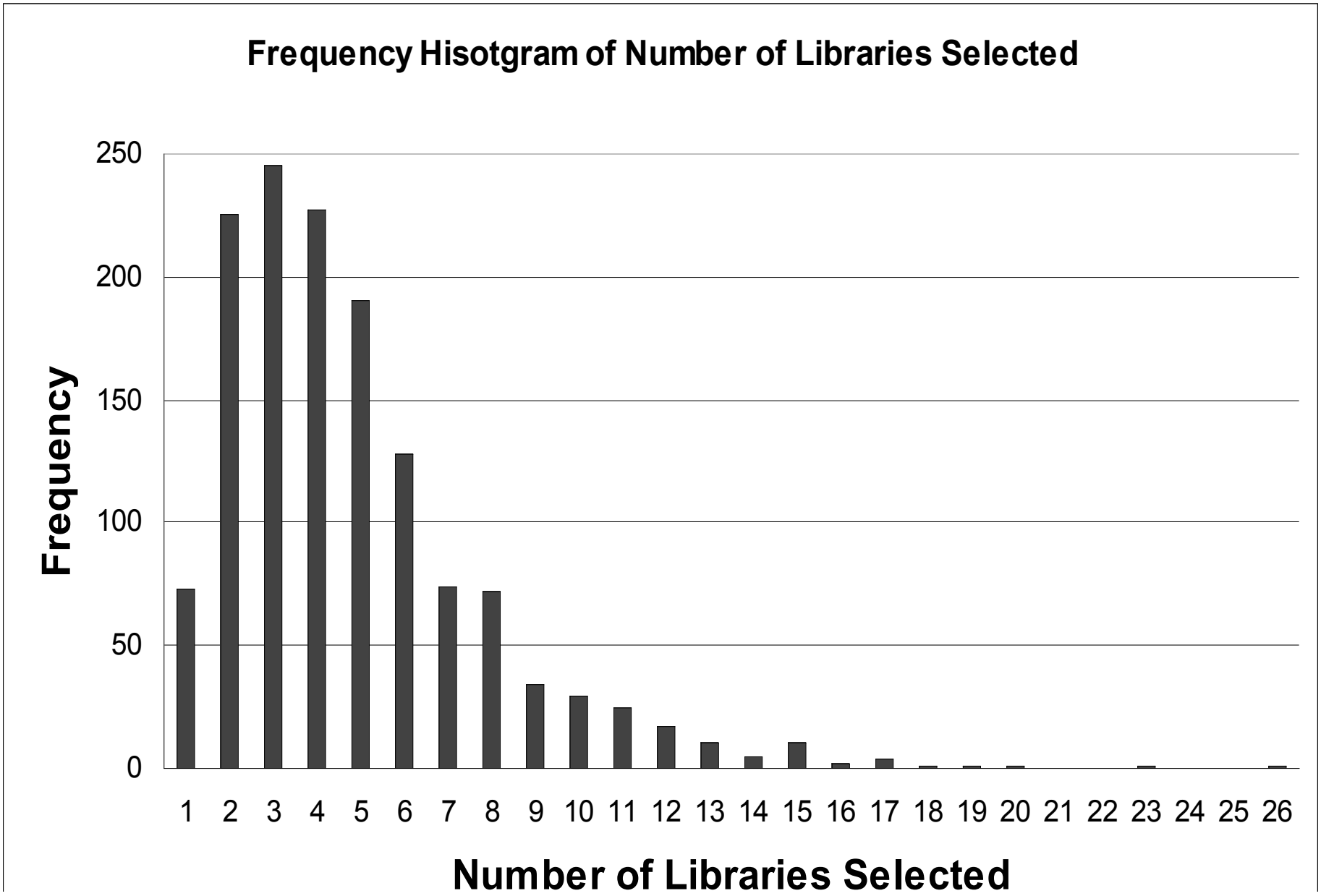


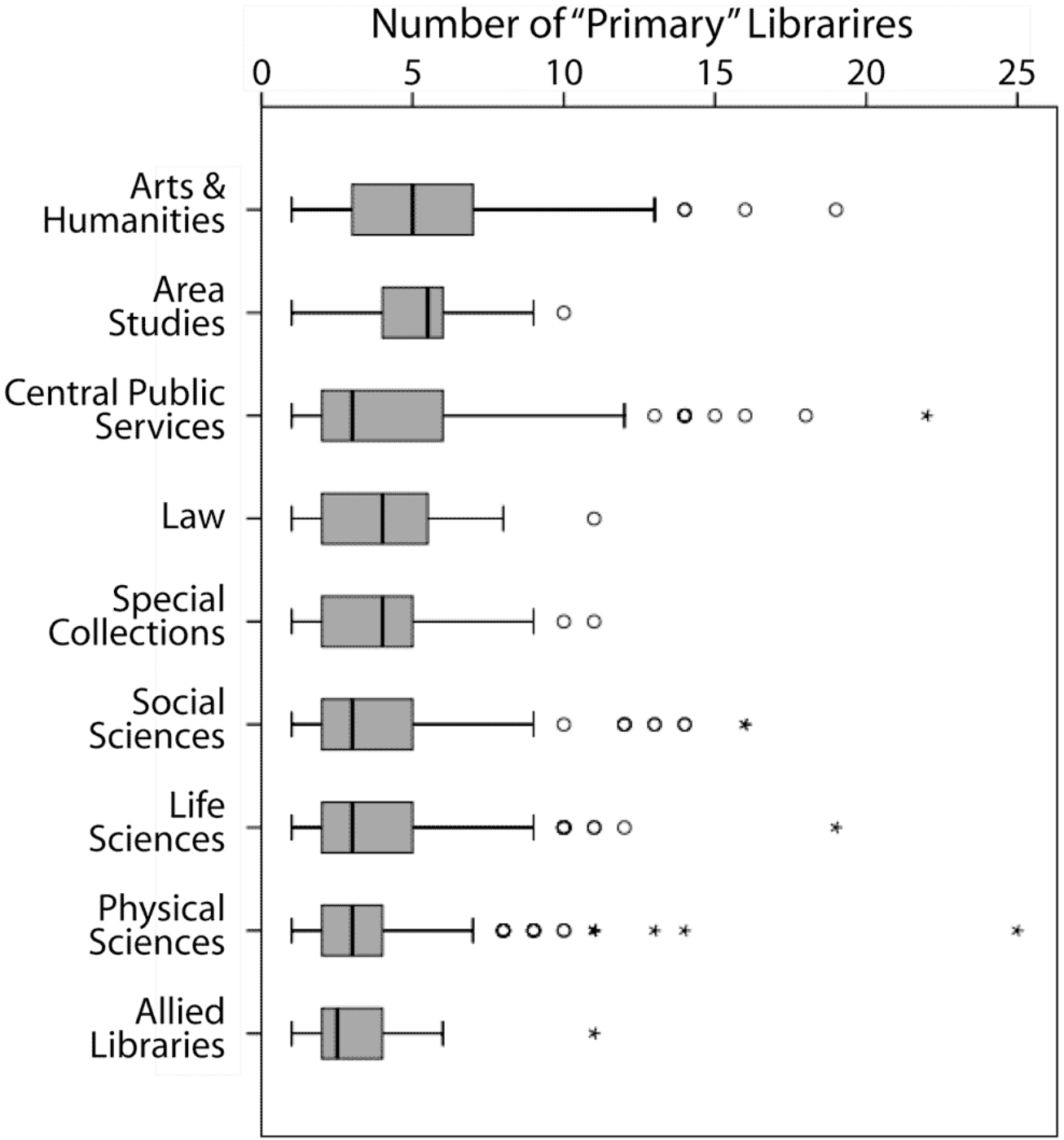
Veterinary Medicine

Analysis

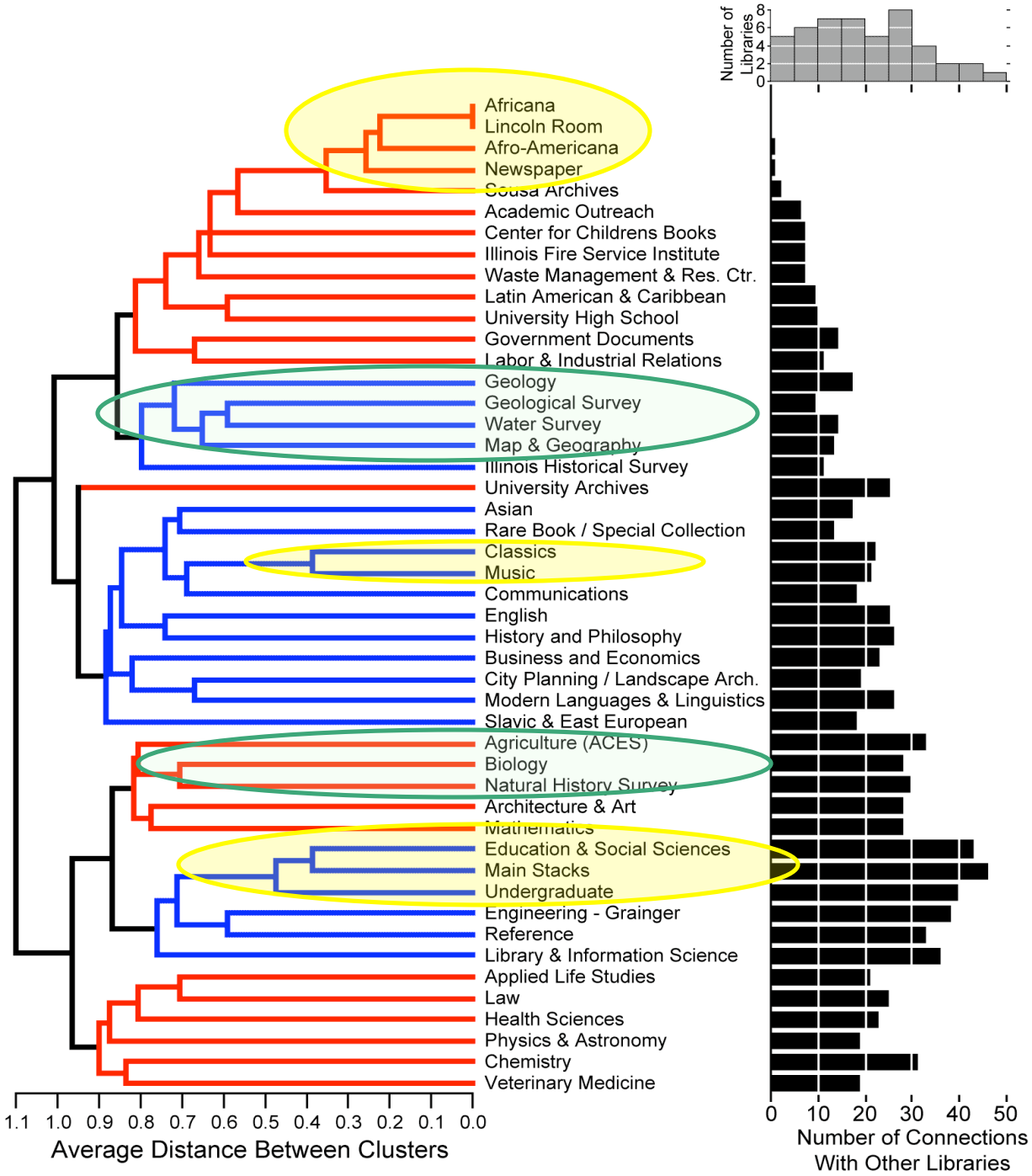
Status	2005-06 Total Head Count	Number of Respondents	Estimated Response Rate
Professors	862	181	21.0%
Assoc Professors	549	118	21.5%
Asst Professors	545	114	20.9%
Visiting Faculty	172	37	21.5%
Academic Professional	2133	647	30.3%
Other (Postdocs, GAs, Staff)	8763	253	2.9%
Headcount Staff/All funds	**13103***	**1350**	**10.3%**

* Distributed by a campus-mediated "massmail," the survey was sent to 12,399 (not 13103) individuals because the headcount at the time was less than the annual maximum. The response rate was therefore slightly higher than shown in this chart based on DMI figures.

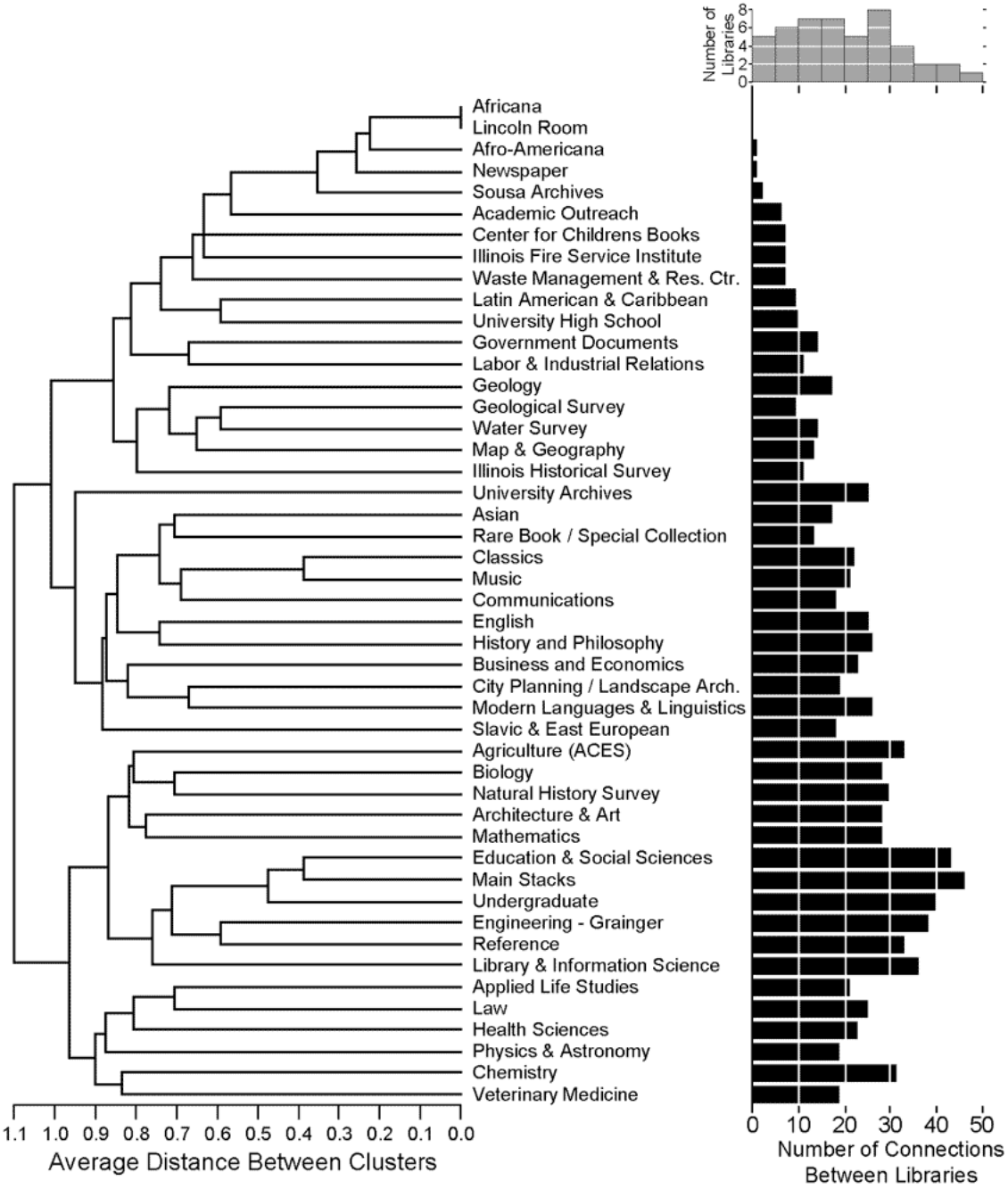

Frequency Hisotgram of Number of Libraries Selected
Frequency
250
200
150
100
50
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
Number of Libraries Selected

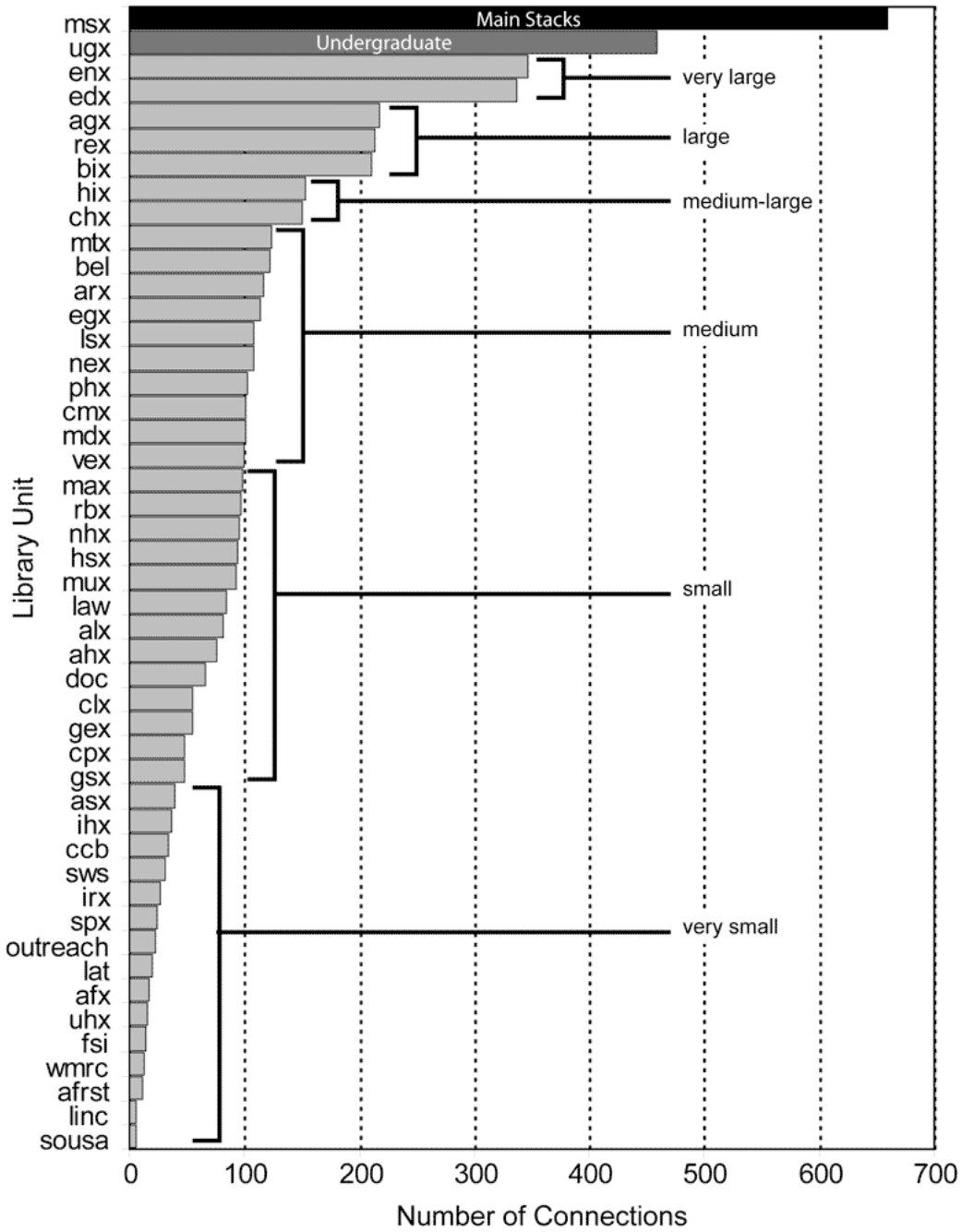

Number of "Primary" Librarires
0
5
10
15
20
25
Arts & Humanities
Area Studies
Central Public Services
Law
Special Collections
Social Sciences
Life Sciences
Physical Sciences
Allied Libraries

Cluster analysis of all libraries



Confirms some patterns in the network maps, but is of limited utility in identifying potential mergers


Number of Libraries
0
2
4
6
8
Africana
Lincoln Room
Afro-Americana
Newspaper
Sousa Archives
Academic Outreach
Center for Childrens Books
Illinois Fire Service Institute
Waste Management & Res. Ctr.
Latin American & Caribbean
University High School
Government Documents
Labor & Industrial Relations
Geology
Geological Survey
Water Survey
Map & Geography
Illinois Historical Survey
University Archives
Asian
Rare Book / Special Collection
Classics
Music
Communications
English
History and Philosophy
Business and Economics
City Planning / Landscape Arch.
Modern Languages & Linguistics
Slavic & East European
Agriculture (ACES)
Biology
Natural History Survey
Architecture & Art
Mathematics
Education & Social Sciences
Main Stacks
Undergraduate
Engineering - Grainger
Reference
Library & Information Science
Applied Life Studies
Law
Health Sciences
Physics & Astronomy
Chemistry
Veterinary Medicine
1.1 1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0
Average Distance Between Clusters
0 10 20 30 40 50
Number of Connections Between Libraries


Main Stacks
Undergraduate
msx
ugx
enx
edx
agx
rex
bix
hix
chx
mtx
bel
arx
egx
lsx
nex
phx
cmx
mdx
vex
max
rbx
nhx
hsx
mux
law
alx
ahx
doc
clx
gex
cpx
gsx
asx
ihx
ccb
sws
irx
spx
outreach
lat
afx
uhx
fsi
wmrc
afrst
linc
sousa
very large
large
medium-large
medium
small
very small
Library Unit
0
100
200
300
400
500
600
700
Number of Connections