Computational Philosophy and the Examined Text
(a tale of two encyclopedias)
(and more)

Colin Allen
<colallen@indiana.edu>

Additional programming by Alex Frost, Sam Waggoner, Evan Boggs, Wesley Pettyjohn and Architectural work by Mark Jenne

Network analysis & visualization support from Brent Kievit-Kylar, Katy Börner, Scott Weingart

Funding from New Frontiers in the Arts and Humanities
Preservation and Access: Humanities Collections and Resources
What might philosophers do with millions of words?

12m IEP 4m philpapers 21m (titles/abstracts)

Read them all?

= 2,467 hrs @ 250 w/min (≈ 1 s.y.)

Read them selectively ...?
What might philosophers do with millions of words?

- 12m IEP
- 4m philpapers
- 21m (titles/abstracts)

- Read them all?
  - = 2,467 hrs @ 250 w/min ( = 1 s.y.)
- Read them selectively ...?
- Add 2.6m HT public domain volumes?

Search by keyword
From year
Amount
Geographic Map
USDA
NIH
DEBA

Digging by Debating

Mock up to show how the science map might display penetration of philosophical terms into the different disciplines, with specific links to resources from sources such as Hathi Trust.

'Consciousness' produces hits in various areas of science and then clicking on a specific shape, e.g., Brain Research provides a list of Hathi Trust public domain volumes across the various areas of science and then could then be explored further (your arrows).

Labels for the 13 scientific disciplines and at the lower level clusters.

Records (matched by journal name or keyword) are aggregated both at the upper level of 13 broad scientific disciplines, with specific links to resources from sources such as Hathi Trust.

Maps also allow users to drag the basemap to expose a lower level on each map will display the high level clusters appearing on the background tiles.

Radio buttons toggle the markers c shape, e.g., e.g., Brain Research provides a list of Hathi Trust public domain volumes across the various areas of science and then could then be explored further (your arrows).

Brain Research: 34 records
The maps also allow users to drag the basemap to expose a lower level on each map will display the high level clusters appearing on the background tiles.

Clicking on the c links to list of the titles of the records or another c shape, e.g., e.g., Brain Research provides a list of Hathi Trust public domain volumes across the various areas of science and then could then be explored further (your arrows).

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Where's ... anything?!
Where's... anything?!
What philosophers can do with millions of words.
What philosophers can do with millions of words.
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**Spearman = 0.7371087**
Coming July 2013: Digging by Debating

- Joint project with InPhO, Katy Börner (IU), Andrew Ravenscroft (U. East London), Chris Reed (Dundee), David Bourget (U. of London)
- 2.6 m volumes from HathiTrust/Google Books
- 2.6 m books x ~350 pages/book x ~250 words/page = ~230 BILLION words

Scaling challenges

- Context-sensitivity (more not always better)
Digging by Debating

- Scaling challenges
- Context-sensitivity (more not always better)
- Need: multi-scale model comparisons

Also coming in 2013: LinkedHumanities

- Joint project between InPhO and Mathias Niepert (U. Mannheim=>U. Washington)
- Automated matching of InPhO entities to Linked Open Data Cloud

Research Avenues

- Model comparison
- Context Switching
- Domain Expertise
- Corpus comparisons
- State of profession
- Controversy analysis
- Historical tracking
  (and more!)

http://inpho.cogs.indiana.edu/