The Published Numeracy Network

Len Vacher

Todd Chavez

Collection Analysis and Technical Services Director USF Libraries

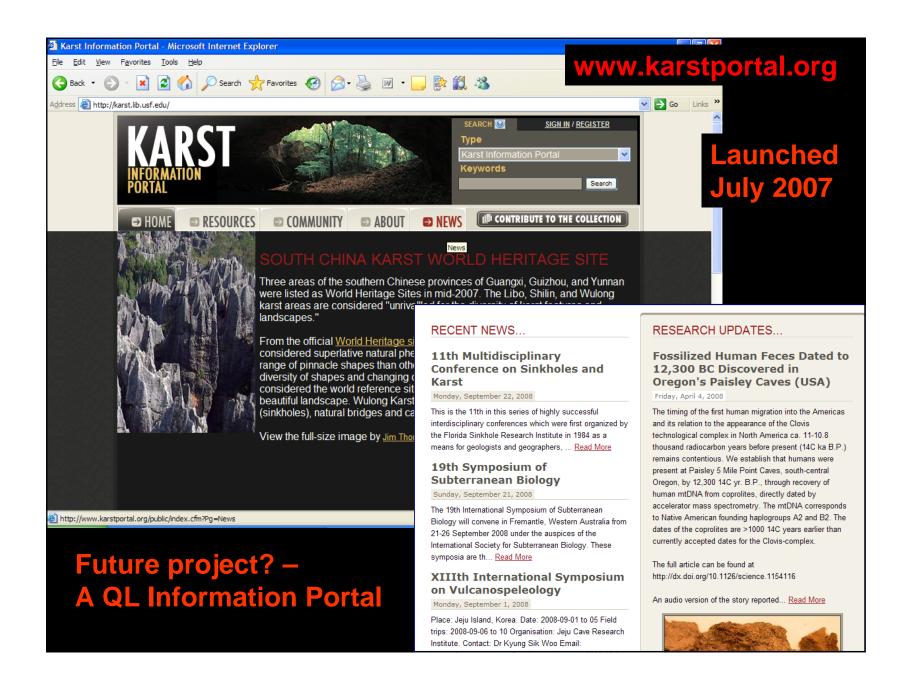
(i.e., assistant dean for information science)

Travels
with Todd,
the guy
behind
Numeracy



Our first project →

May 17 2008 Colby-Sawyer College



Conversation behind the scene (actually before the scene) April 2005

Len (introducing himself to Todd): I'm Len Vacher, from Geology.

Todd: I know who you are.

Len (thinking what now?): Oh?

Todd: You're the guy from the National Numeracy Network.

Len (thinking Good Grief!): How did you know?

Todd (thinking Dummie!): I Googled you.

Pause

Todd: So what is it you NNN people want to accomplish?

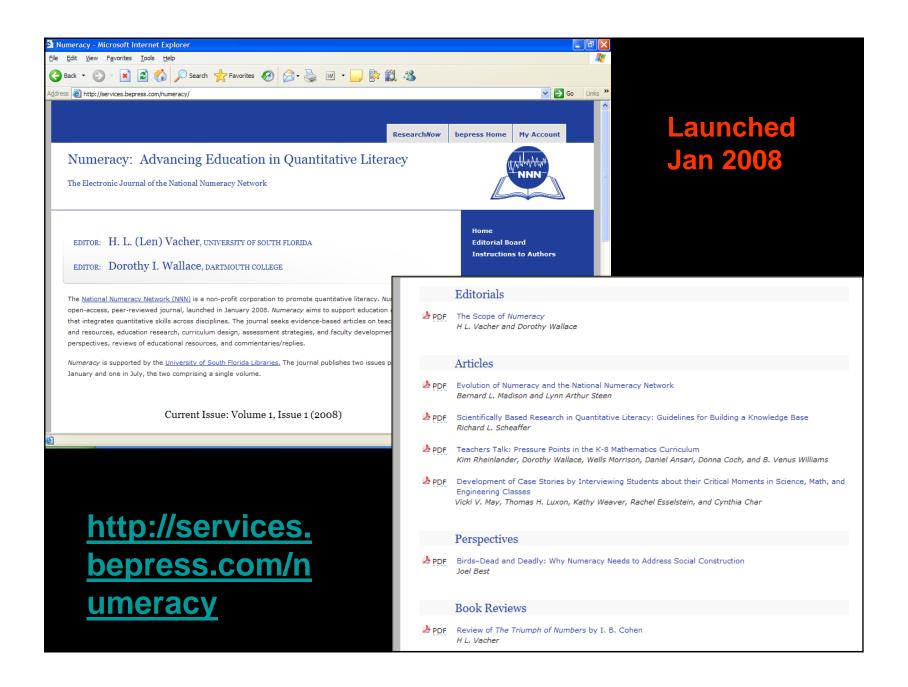
And Len recited the vision and mission statement, perhaps paraphrasing.

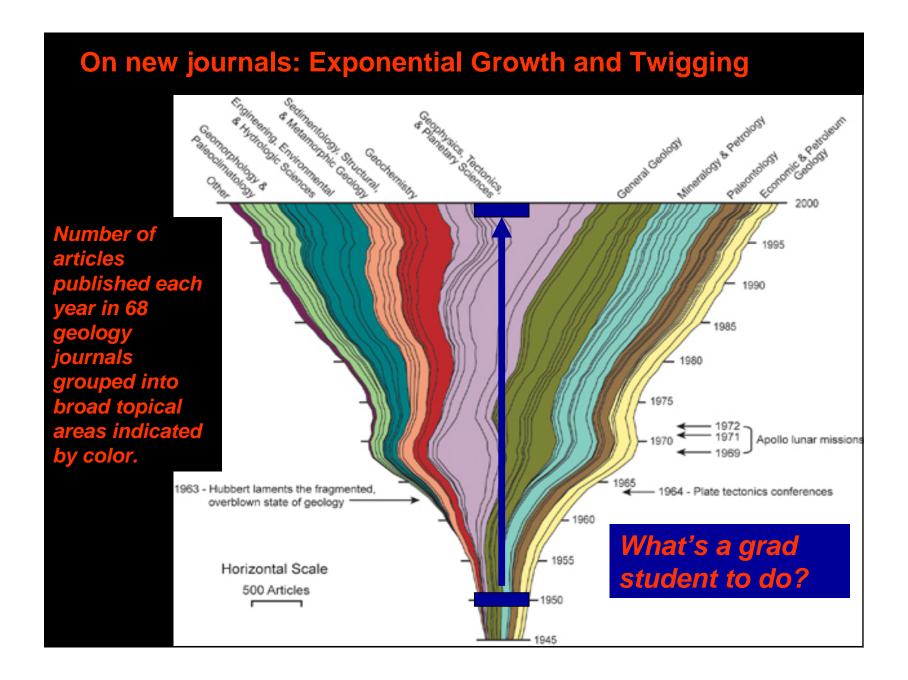
Todd: So what is it you really want to accomplish?

Len: I guess I'd like to see QL become its own academic discipline (transcending disciplines)

Todd: What you all need is a scholarly journal!

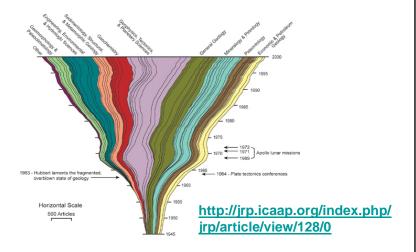
If it's open access, we'll help. (!!)





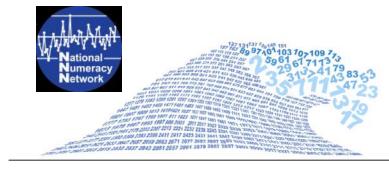
The 68 geology journals

Computational Geology	Journal of Geophysical Research
Mathematical Geology	Bulletin of the Seismological Society
	of America
Paleoceanography	Geophysics
Marine Geology	Precambrian Research
Palaeogeography, Palaeoclimatology, Palaeoecology	Quaternary Research
Earth Surface Processes and Landforms	Geology
Geoderma Geoderma	
	Canadian Journal of Earth Sciences
Environmental and Engineering	Geological Magazine
Geoscience	T 1 01 0 1 1 10 1 1
Hydrological Processes	Journal of the Geological Society of London
Quarterly Journal of Engineering Geology	Journal of Geology
Engineering Geology	Geological Society of America Bulletin
Soil Science Society of America Journal	European Journal of Mineralogy
Water Resources Research	Physics and Chemistry of Minerals
Ground Water	Lithos
Journal of Hydrology	Clays and Clay Minerals
Journal of Metamorphic Geology	Contributions to Mineralogy and
	Petrology
Journal of Structural Geology	Journal of Petrology
Sedimentary Geology	The Canadian Mineralogist
Sedimentology	American Mineralogist
Journal of Sedimentary Research	Mineralogical Magazine
Global Biogeochemical Cycles	Palaios
Applied Geochemistry	Journal of Vertebrate Paleontology
Organic Geochemistry	Journal of Foraminiferal Research
Chemical Geology	Palaeontology
Geochimica et Cosmochimica Acta	Micropaleontology
Meteoritics and Planetary Science	Journal of Paleontology
Geophysical Journal International	Journal of Geochemical Exploration
Tectonics	International Journal of Coal
	Geology
Bulletin of Volcanology	Journal of Petroleum Geology
Journal of Volcanology and	Mineralium Deposita
Geothermal Research	
Physics of the Earth and Planetary	American Association of Petroleum
Interiors	Geologists Bulletin
Tectonophysics	Economic Geology



More information: Fratesi and Vacher, 2008, Scientific Journals as Fossil Traces of Sweeping Change in the Structure and Practice of Modern Geology. *Journal of Research Practice* (online).

More artwork by Beth Fratesi



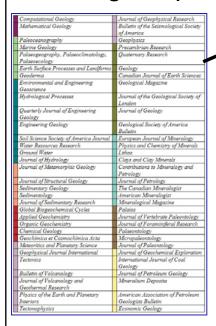
What's a grad student to do?→

Todd: Priority role of our Library is to prepare USF PhD students to write the literature review for their dissertations.

Len to Todd: What we (Geology) need is a course! (Sep 2007)

First major component:

Finding the peer-reviewed research literature in impact journals



Indexed by Web of Science (Science Citation Index)
9300 journals

256 subject classes (tags) source of "impact journal" (IF)

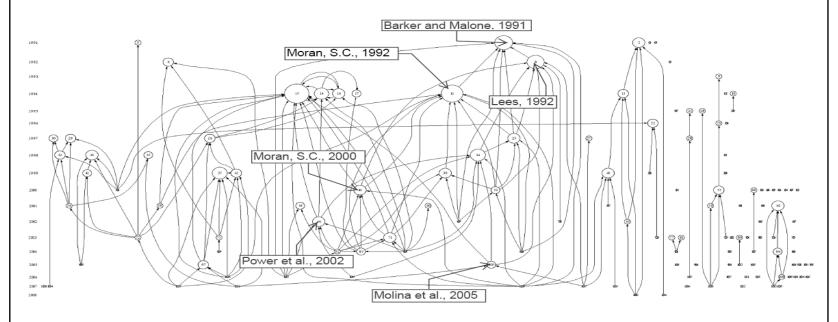
Concepts for graduate students:

- It doesn't count as research until it's published.
- It's not "published" if it's not published in an impact journal.

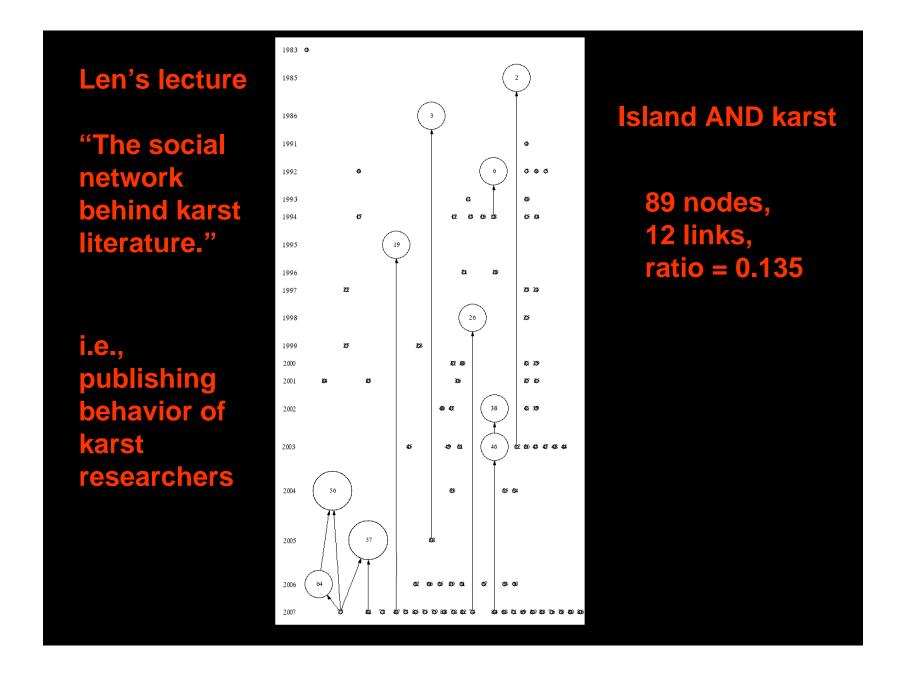
Caveat: WoS does not include all journals, nor (in general), monographs or books, edited volumes, grey literature, Web sites.

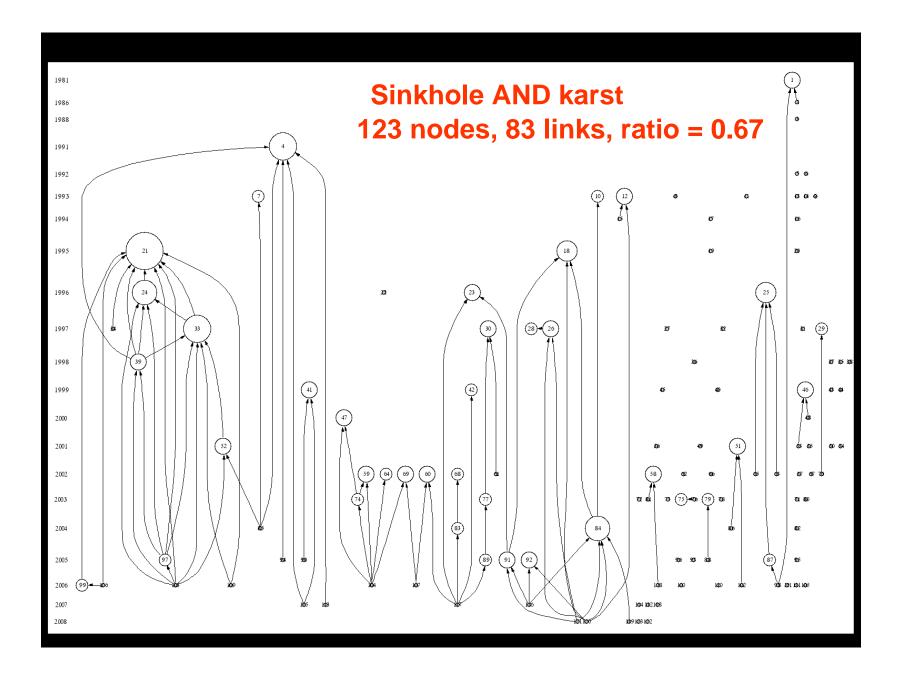
Heather's graph, April 2008

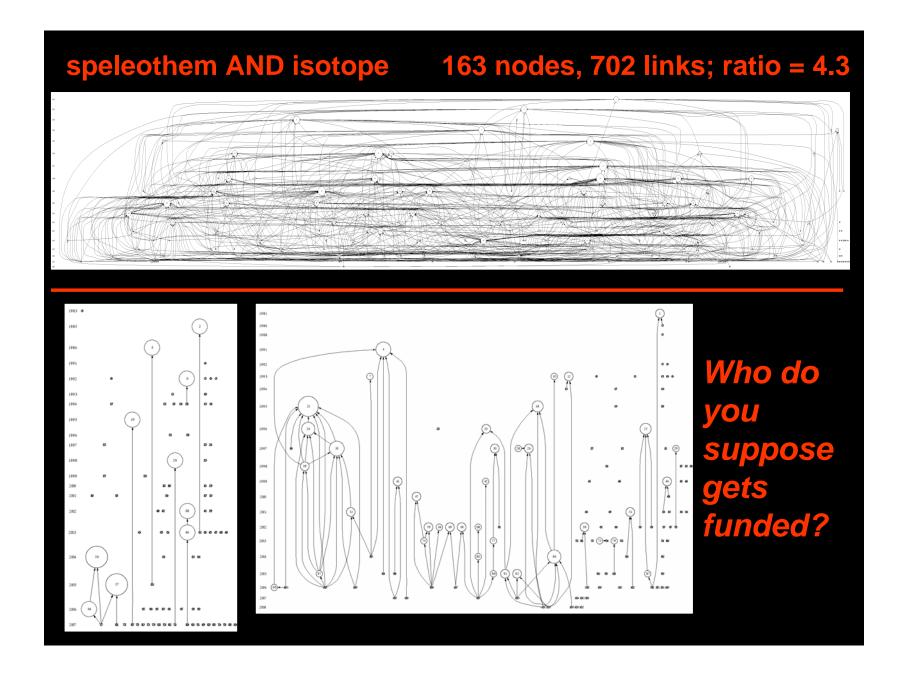
Search Strategy: Imaging AND magma AND seismology

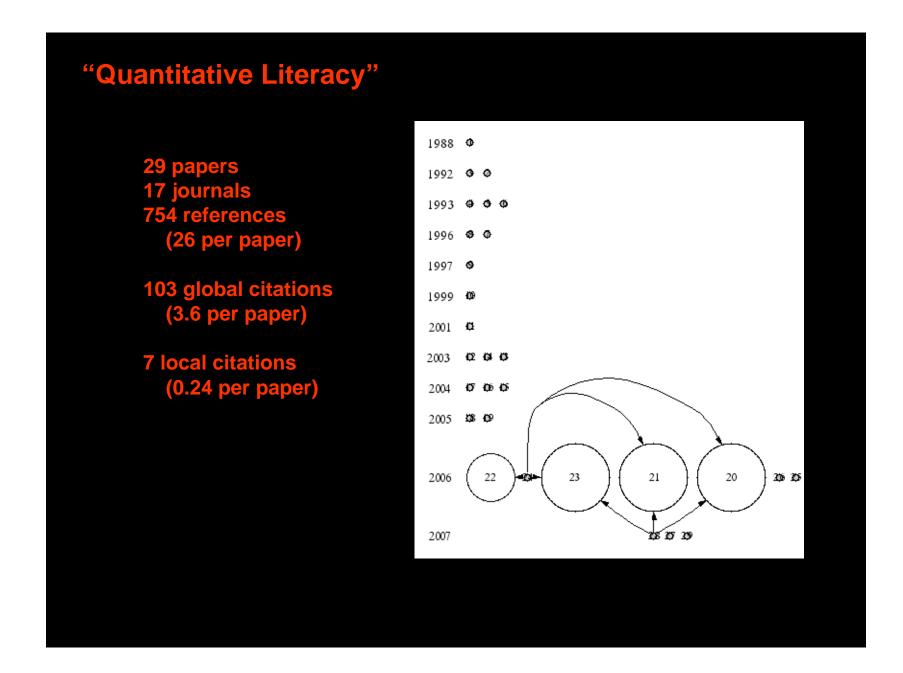


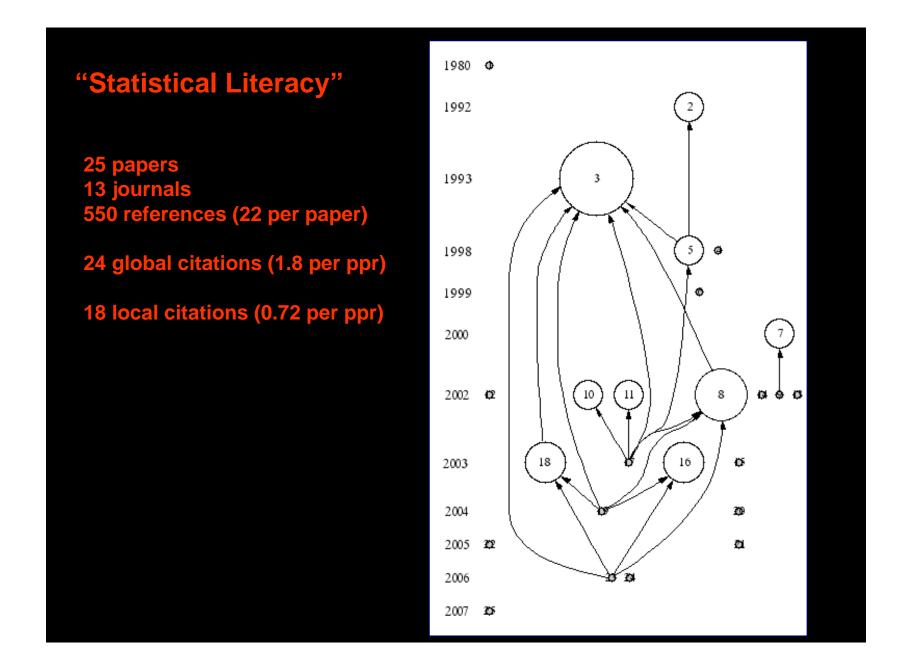
HistCite graph of research aimed at imaging magmatic systems using seismology. Benchmark papers for this search are records number 4, 8, 11, 43, 66, and 100

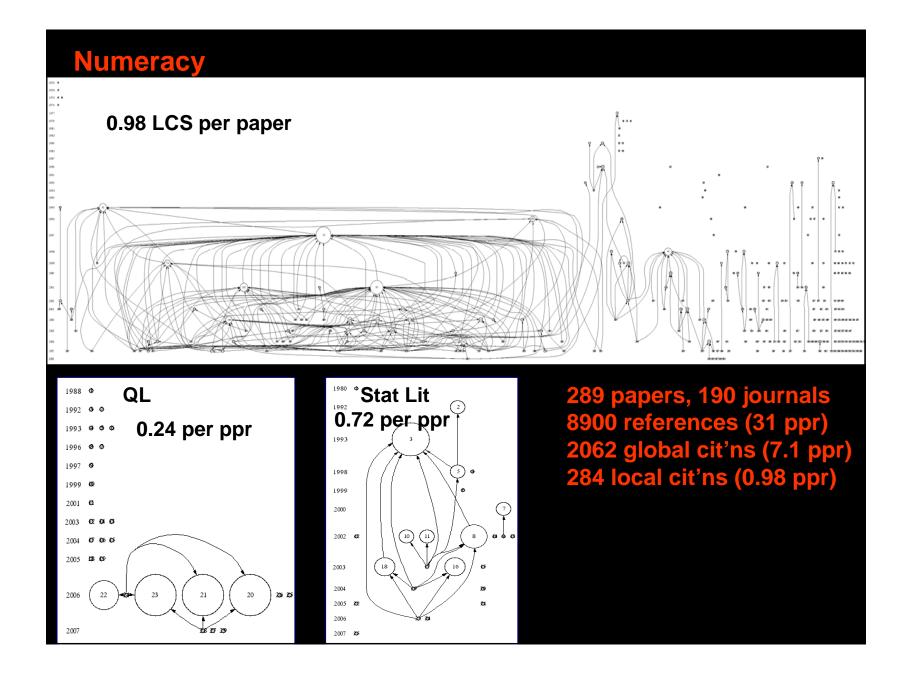


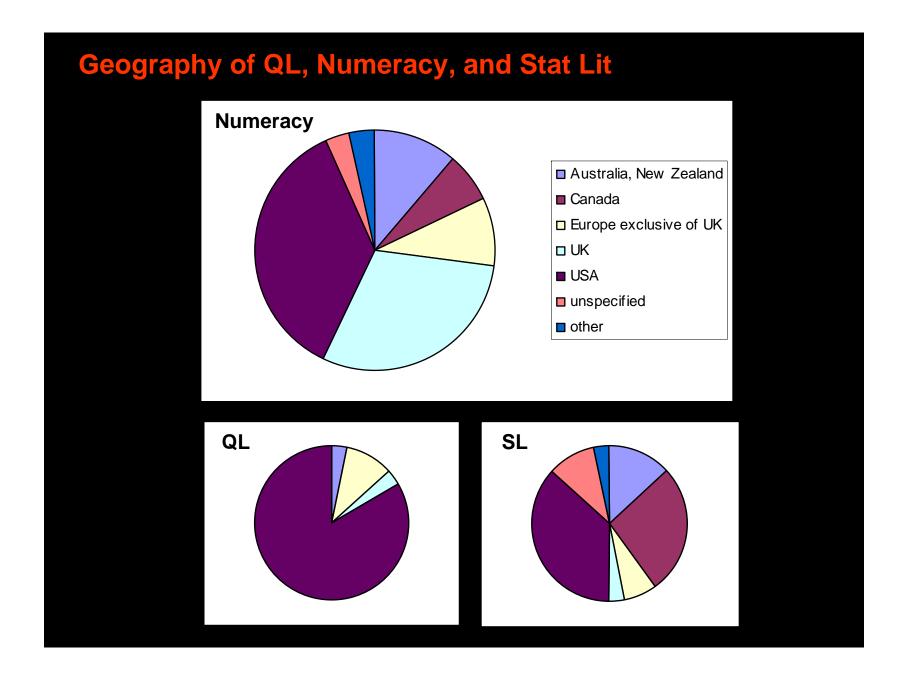


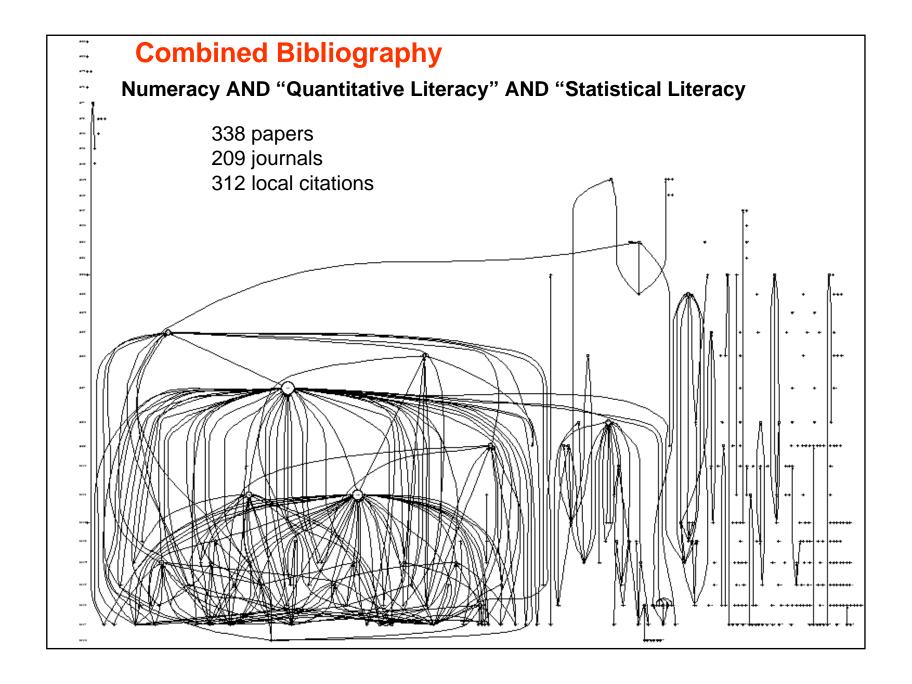








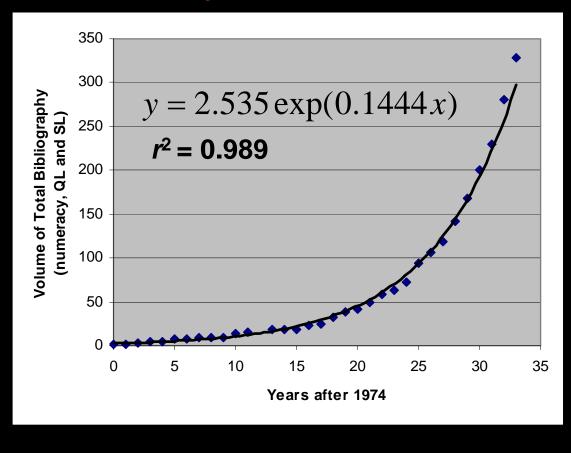


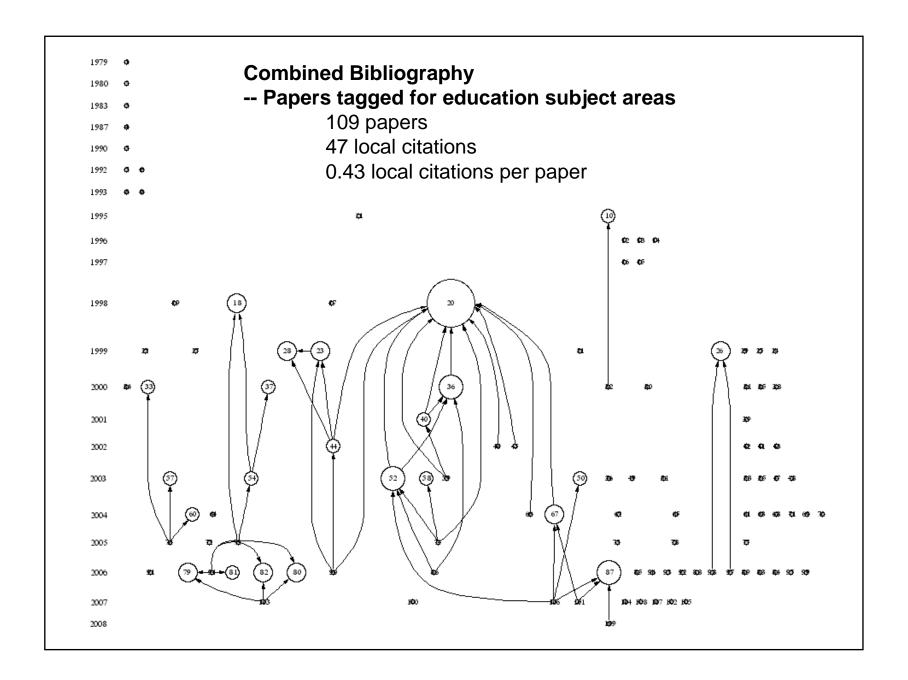


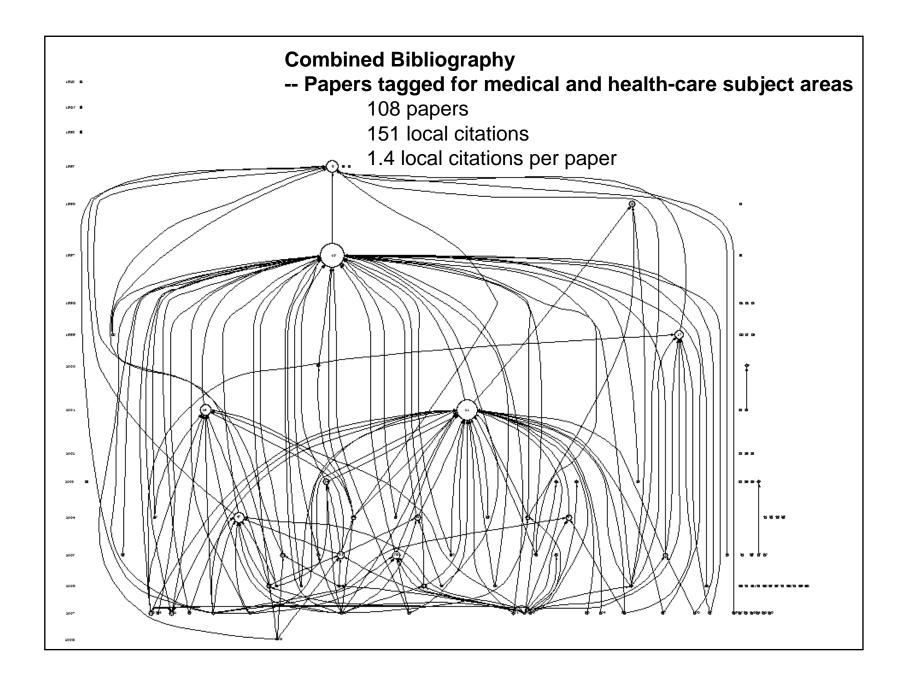
Exponential Growth

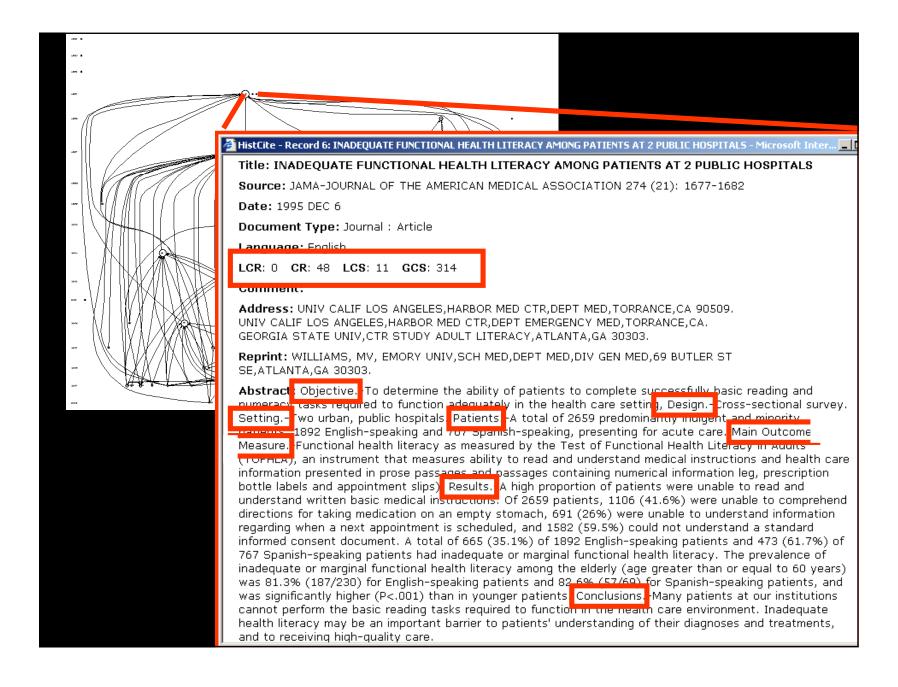
y = Number of articles in combined literature

x = Number of years since 1974









As a *Numeracy* editor, What have I learned from my travels with Todd?

On Forming a new discipline: Think of your new discipline as a new silo with pervious boundaries.

Therefore:

Have your journal (and other materials) open access.

Cite one another.

Use stand-alone abstracts.

Have meaningful titles.