

Developing a visual interactive search history exploration system

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You will end up with a pile of relevant (and irrelevant) papers ...



... and the need to store them, so you can use them later.

One good way to solve this is:

+ Your Favorites

Showing 1 - 6 of 6 Sort: Relevance

Select all Selected: [Email](#) [Delete](#) [Export](#)

- Theoretical Value of Psychological Testing [Edit](#) [Delete](#)
- Maslow, monkeys and motivation theory
Your Tags: motivation, theory [Edit](#) [Delete](#)
- Moral Differentiation: Exploring Boundaries of the "Monkey See, Monkey Do" Perspective
Your Tags: mimicry [Edit](#) [Delete](#)
- What Monkeys Can Tell Us about Human Violence
Your Tags: life, social [Edit](#) [Delete](#)
- SOCIAL LIFE OF JAPANESE MONKEYS
Your Tags: life, social [Edit](#) [Delete](#)
- Monkeying with Science
Your Tags: science [Edit](#) [Delete](#)

Title	Creator
A Comparative User Study of Web Search Interfaces: HotMap, Concept Highlighter, an...	Hoerber and Yang
A graphical user interface for Boolean query specification	Jones et al.
A Novel Combined Term Suggestion Service for Domain-Specific Digital Libraries	Hienert et al.
Adaptation and Evaluation of 3-Dimensional Collaborative Information Visualizations	Börner
An Empirical Evaluation of the Interactive Visualization of Metadata to Support Docum...	Weiss-Lijn et al.
Bead: explorations in information visualization	Chalmers and Chitson
Browsing and querying in online documentation: a study of user interfaces and the int...	Hertzum and Frøkjær
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Browsing large online data tables using generalized query previews	Tanin et al.
Cat-a-Cone: an interactive interface for specifying searches and viewing retrieval resul...	Hearst and Karadi
CHI 97: Exploring Search Results with Envision	Nowell et al.
Co-authorship Network Analysis: A Powerful Tool for Strategic Planning of Research, ...	Morel et al.
Collaborative visual interfaces to digital libraries	Börner et al.
Cone Trees: animated 3D visualizations of hierarchical information	Robertson et al.
DocuBurst: Visualizing Document Content using Language Structure	Collins et al.
Evaluating a System for Interactive Exploration of Large, Hierarchically Structured Doc...	Granitzer et al.
Exploring Digital Libraries through Visual Interfaces	Kim et al.
Exploring digital libraries: integrating browsing, searching, and visualization	Shen et al.
Graphical query specification and dynamic result previews for a digital library	Jones
How to Build a Digital Library	Witten et al.
Improving browsing in digital libraries with keyphrase indexes	Gutwin et al.
IN-SPIRE InfoVis 2004 Contest Entry	Pak Chung Wong et al.
Interactive term suggestion for users of digital libraries: using subject thesauri and co...	Schatz et al.
INVISQUE: intuitive information exploration through interactive visualization	Wong et al.
Metadata visualization for digital libraries: interactive timeline editing and review	Kumar et al.
Metadata Visualization in Digital Libraries	Neveřilová
NIRVE paper	Cugini et al.
On the normalization and visualization of author co-citation data: Salton's Cosinevers...	Leydesdorff
Search result visualisation with xFIND	Andrews et al.
Search user interfaces	Hearst

storing papers in watch lists or reference management program

But!

- Did you ever forget to store a paper?
- Do you remember with which query you found a paper?
- Can you identify at what point of your search process you found a document?

Another way to solve these questions:

conduct your search or browser history

And again...

Your Recent Searches				
Time	Search	Limits	Results	Save?
12.11.2013 13:44	monkey	Other: literature Language: Englisch (EN)	482	Save
12.11.2013 13:44	monkey	Other: literature Language: Englisch (EN)	482	Save
12.11.2013 13:43	monkey	Other: literature Language: Englisch (EN)	482	Save
12.11.2013 13:43	monkey	Other: literature Language: Englisch (EN)	482	Save
12.11.2013 13:41	monkey	Other: literature Language: Englisch (EN)	482	Save
12.11.2013 13:41	monkey	Other: literature Language: Englisch (EN)	482	Save
12.11.2013 13:40	monkey	Other: literature Language: Englisch (EN)	482	Save
12.11.2013 13:40	monkey	Other: literature	532	Save
12.11.2013 13:40	economy	Other: literature	196,071	Save
12.11.2013 13:40	luhmann	Other: literature	5,502	Save
12.11.2013 13:37	luhmann	Other: literature	5,502	Save
12.11.2013 13:37	luhmann	Other: literature	5,502	Save
12.11.2013 13:37	luhmann	Other: literature	5,502	Save

Name	Tags	Location
<input type="checkbox"/> GESIS: Sowipor - Favorites		http://sowiporbeta.gesis.org/MyResearch/Favorites?delete
<input type="checkbox"/> GESIS: Sowipor - Favorites		http://sowiporbeta.gesis.org/MyResearch/Favorites
<input type="checkbox"/> GESIS: Sowipor - Search Results - m...		http://sowiporbeta.gesis.org/Search/Results?lookfor=mon
<input type="checkbox"/> Mitchell, Gary - What Monkeys Can ...		http://sowiporbeta.gesis.org/Record/csa-sa-7719898
<input type="checkbox"/> sowiporbeta.gesis.org/search/id/cs...		http://sowiporbeta.gesis.org/search/id/csa-sa-7719898/Sav
<input type="checkbox"/> GESIS: Sowipor - Add to Favorites		http://sowiporbeta.gesis.org/search/id/csa-sa-7719898/Sav
<input type="checkbox"/> GESIS: Sowipor - Search Results - m...		http://sowiporbeta.gesis.org/Search/Results?lookfor=mon
<input type="checkbox"/> Carr, Deborah - Monkeying with Sci...		http://sowiporbeta.gesis.org/Record/csa-sa-200723662
<input type="checkbox"/> sowiporbeta.gesis.org/search/id/cs...		http://sowiporbeta.gesis.org/search/id/csa-sa-200723662/
<input type="checkbox"/> GESIS: Sowipor - Add to Favorites		http://sowiporbeta.gesis.org/search/id/csa-sa-200723662/
<input type="checkbox"/> GESIS: Sowipor - Search Results - m...		http://sowiporbeta.gesis.org/Search/Results?lookfor=mon
<input type="checkbox"/> GESIS: Sowipor - Search Results - m...		http://sowiporbeta.gesis.org/Search/Results?lookfor=mon
<input type="checkbox"/> O'Fallon, Michael J. et. al. - Moral Di...		http://sowiporbeta.gesis.org/Record/csa-pais-2011-38840
<input type="checkbox"/> sowiporbeta.gesis.org/search/id/cs...		http://sowiporbeta.gesis.org/search/id/csa-pais-2011-3884
<input type="checkbox"/> GESIS: Sowipor - Add to Favorites		http://sowiporbeta.gesis.org/search/id/csa-pais-2011-3884
<input type="checkbox"/> GESIS: Sowipor - Search Results - m...		http://sowiporbeta.gesis.org/Search/Results?lookfor=mon
<input type="checkbox"/> Cullen, D - Maslow, monkeys and m...		http://sowiporbeta.gesis.org/Record/csa-assa-95119
<input type="checkbox"/> sowiporbeta.gesis.org/search/id/cs...		http://sowiporbeta.gesis.org/search/id/csa-assa-95119/Sa
<input type="checkbox"/> GESIS: Sowipor - Add to Favorites		http://sowiporbeta.gesis.org/search/id/csa-assa-95119/Sa
<input type="checkbox"/> MIYADI, DENZABURO - SOCIAL LIFE...		http://sowiporbeta.gesis.org/Record/csa-sa-6587500
<input type="checkbox"/> sowiporbeta.gesis.org/search/id/cs...		http://sowiporbeta.gesis.org/search/id/csa-sa-6587500/Sa
<input type="checkbox"/> GESIS: Sowipor - Add to Favorites		http://sowiporbeta.gesis.org/search/id/csa-sa-6587500/Sa
<input type="checkbox"/> GESIS: Sowipor - Search Results - m...		http://sowiporbeta.gesis.org/Search/Results?lookfor=mon
<input type="checkbox"/> GESIS: Sowipor - Search Results - m...		http://sowiporbeta.gesis.org/Search/Results?type=AllField

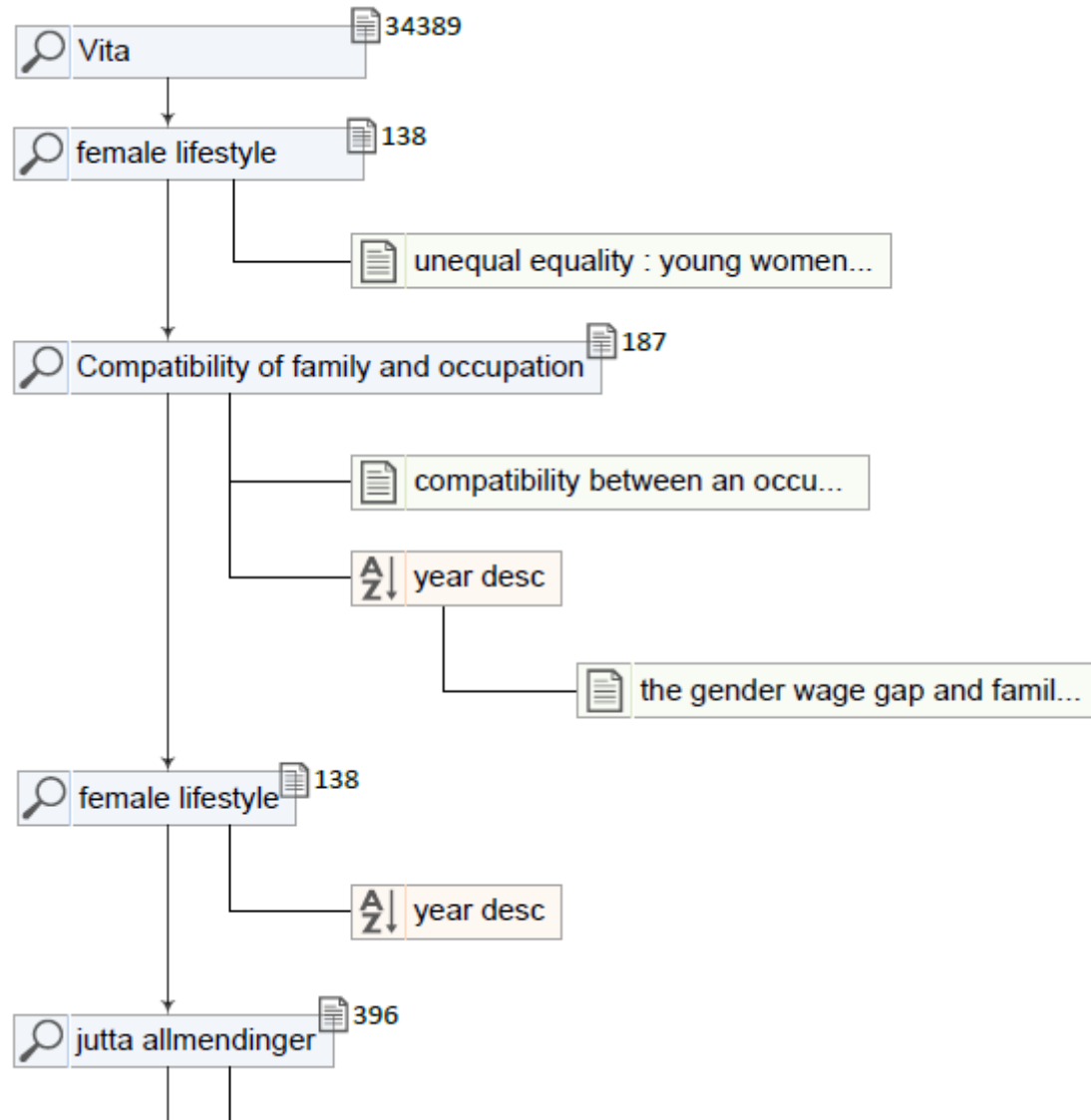
... lists!

Do any of these lists really reflect your search process?

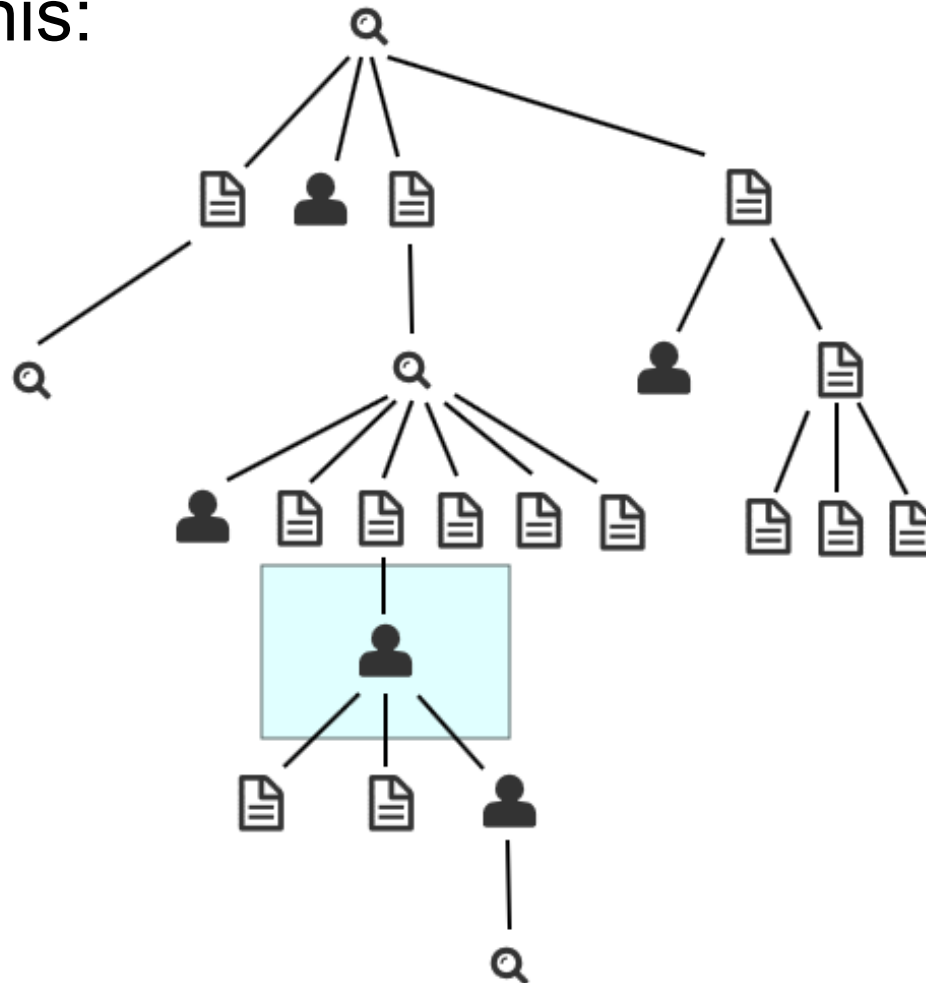
To me a search process is more like...

- ... hierarchical structure (tree)
- ... a graph (network)
- ... a map

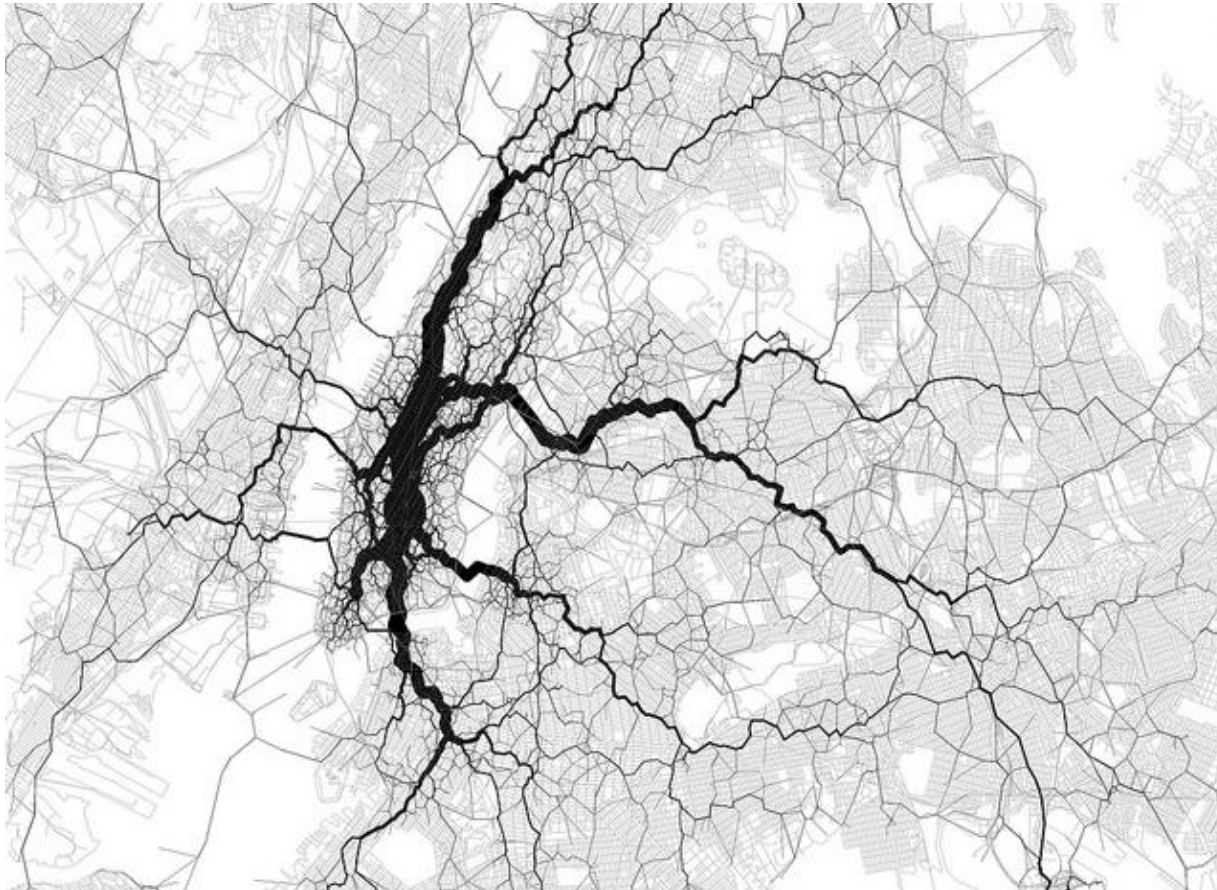
... this:



... or like this:



... or even something like this?



What we want to develop is a Visual Interactive
Search History Exploration System (VISHES)

A system that...

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A system that...

- ... automatically logs users activities in a DL.
- ... visualizes the search history.
- ... allows users to interact with their history.
- ... allows users to maintain their history.
- ... allows users to jointly work with their history.

Automatic Logging (examples)

- Query terms, documents, actions
- Temporal progress of the search
- Time spend with an object

Visualizing the Search History (examples)

- Object detail depth depending on zoom level
- Icon size depending on time spend with object
- Connect identical docs in different searches

Interaction with the Search History (examples)

- Switch to any point of history immediately
- Query/Filter search history
- Brushing & Linking (show docs with same author)

Maintaining the Search History (examples)

- Save and load the history
- Annotate and tag history objects
- Delete, insert objects

Jointly work with Search History (examples)

- Split and cluster history in multiple histories
- Share these histories with someone
- Use history together

When a search history is capable of all of these possibilities, it is not only a search history anymore!

It can become your individual and shared library!

