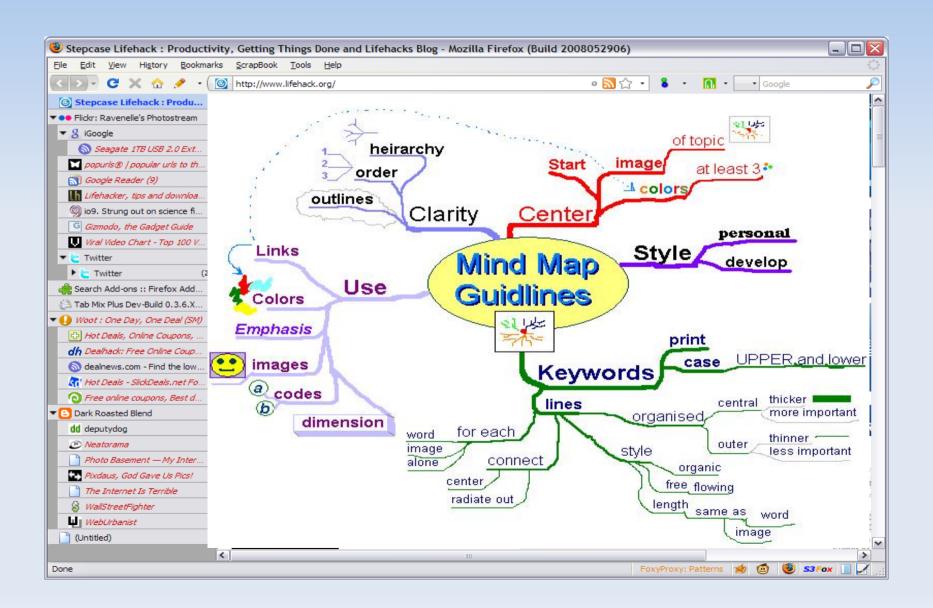
Visualization systems as navigational aids around the web of personal information

Mohan Raj R,

CPSC 533c 2009W

Mindmaps in a browser?



Outline

A Survey:

- Brief view of existing systems
- Design implications
 from studies of information organization systems
- Future work

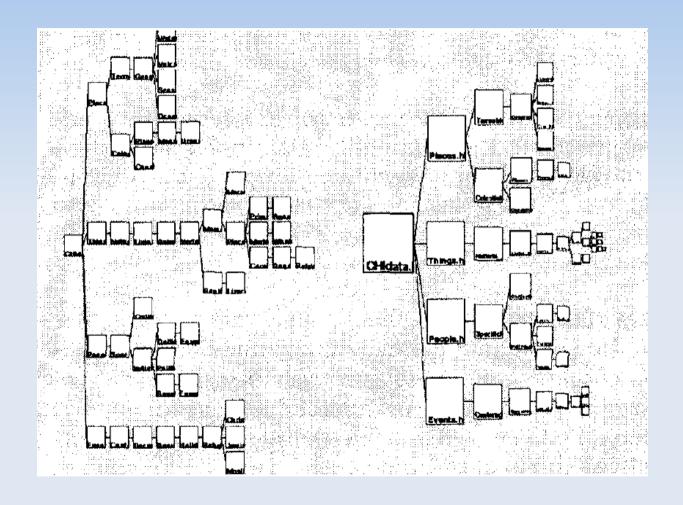
Existing systems

That have characteristics of my ideal system

- Padprints
- Footprints
- WebForager, WebBook
- DataMountain
- ScratchPad
- InsightFinder

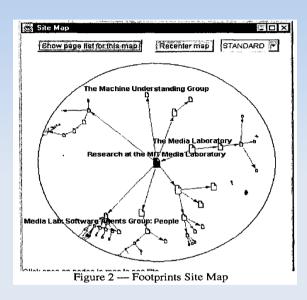
Structural, Spatial navigational support

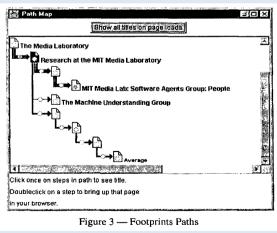
PadPrints

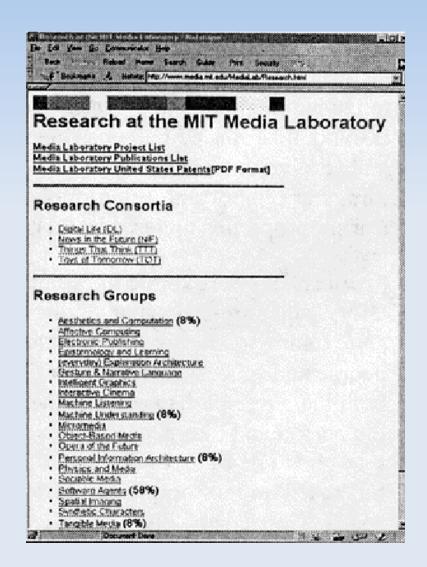


Hightower, R. R., Ring, L. T., Helfman, J. I., Bederson, B. B., and Hollan, J. D. 1998. Graphical multiscale Web histories: a study of padprints

FootPrints Collective foraging



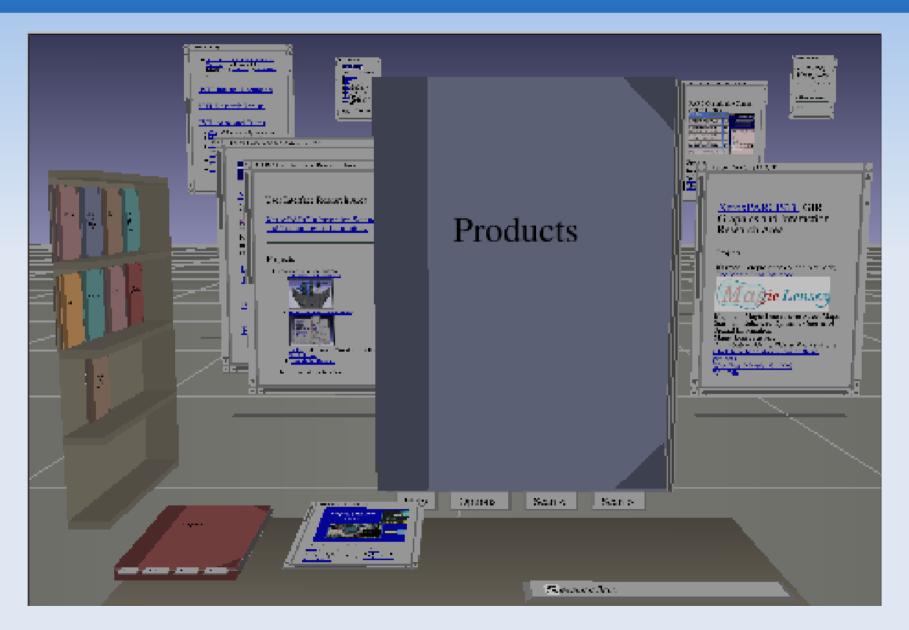




DataMountain



Web forager

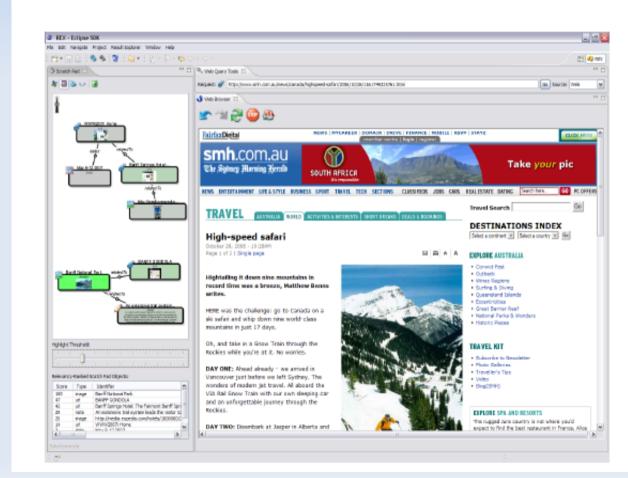


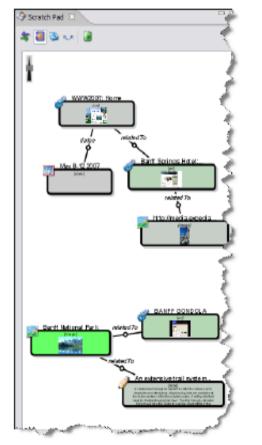
Semantic navigational support

ScratchPad









11

Gotz, D. 2007, The ScratchPad: sensemaking support for the web

InsightFinder

Context based recommendation

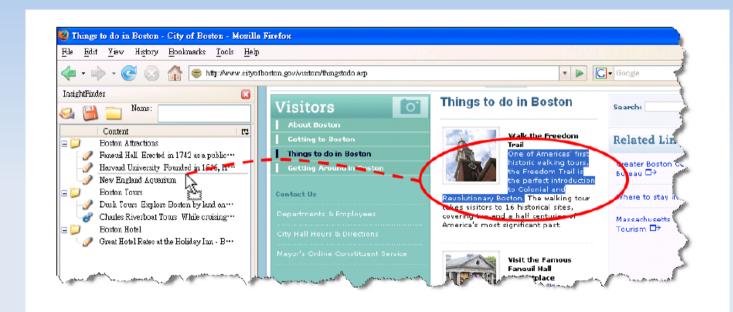
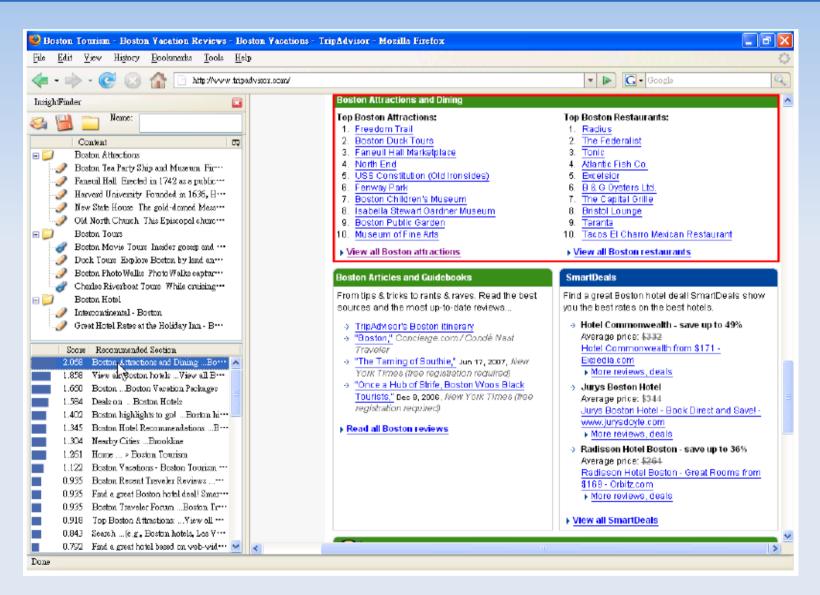


Figure 3. Users can record notes by dragging content fragments (links, images, text, or entire pages) from the browser to folders in the InsightFinder.

InsightFinder

Context based recommendation



Cheng, W. and Gotz, D. 2009. Context-based page unit recommendation for web-based sensemaking tasks

Design implications

- Visibility (and reminding)
- Integration with existing work-flow
- Co-Adoption (affordance for people who work as a group to adopt the system)
- Scalability (with respect to the type or amount of information that the user wants to process)
- Return on Investment

Future work

Associate information scents with resources indicating:

1. The cost of foraging a resource

URLs, for example

- 2. The chances that it will be eventually used as intended Bookmarks, for example
 - based on your history with other pieces of similar information
 - based on the information's history with other similar people

Prevent us from becoming information gluttons!

Thank you

Bookmarking in nature











Spatial memory

Clark's nutcracker:

- buries 30k seeds across an area of 100 sq.miles
- places a stone on top of the stash
- recovers 70% of the nuts buried under several feet of snow
- 278+ days

 But human spatial memory is limited to around 10 objects and suitable only for short-term