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Future Directions: Information Behavior in design & the making of relevant research

Perspectives from a practitioner

Saturday, October 25, 2008

Keith Instone
Information architecture lead, ibm.com



Agenda

- About me, HIB research and so on
- Position papers: Greater impact on designers
- Position papers: Finding information
- What keeps me up at night
- Warning: I have not practiced this, I have no idea how long it would take to talk about everything in here (10-360 minutes), questions welcome at any time to make sure you get something out of this within the 45 minutes I have

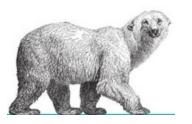


About me

- Computer science (BA, MS)
- Psychology
- Hypertext (Technical communication, popular culture, Telecommunications, ...)
- Web usability
- Library science / Information architecture
- User experience
- IBM
- Change, innovation, business strategy
- Out of my comfort zone...











Life in 3 "camps"

Researcher 8 years	Abstract, theoretical, ideal, dreaming, visionary, publish, literature	*Sleuthing in HyperHolmes: An Evaluation of Using Hypertext vs. a Book to Answer Questions. Behaviour and Information Technology, 1993. v.12 n.3 p.149-164
Consultant [aka semi-practitioner] 5 years	Strategy documents and proposals (bridging theory and practice but not in the trenches), how to think about the problems, deliverables, sales	*An information architecture perspective on personalization" white paper (and book chapter)
Practitioner ["Innie"] 7 years	Concrete, doable, practical, real- world, in the weeds, communication of ideas, short and long term trade- offs, "lose battles, win wars"	 Redesign options for the IBM US Solutions page My IBM integration strategy PowerPoint decks



Related pre-conference sessions (SIG-IA)

(Where I would be if I wanted to hang out with people I already know)

- Seminar: Information Architecture 3.0, Peter Morville, 8:30 12:30
 - Extending our understanding of structural design beyond its semantic foundations to incorporate social elements such as identity, reputation, presence, groups, sharing, conversations, and relationships.
 - Designing next-generation search interfaces and applications that combine best practices in **tagging** and taxonomies with search analytics, **guided navigation**, thesauri, clustering algorithms, linguistic toolsets, and rich result interfaces.
 - Evaluating the multi-channel challenges and real-world opportunities presented by ambient **findability** and the emerging Internet of objects.



Related pre-conference sessions (SIGHCI)

(Where I would be if I wanted to hang out with people I already know)

- Symposium: HCl in Interactive Information **Environments** with a focus on Groups
 - How do groups use highly interactive computing technologies to access, use, and share information?
 - What kinds of social interfaces provide the best support for information **interaction** within groups?

- What is the role of sociability in information access?
- How do we study and evaluate highly interactive computing technologies for groups?
- Is usability still the key for assessing use?



8th SIGUSE Research Symposium

(But very happy to be here, it is an honor to be invited)

- ASIS&T 2008's conference theme, People Transforming Information —
 Information Transforming People, provides an important opportunity for the SIG USE symposium to offer guided reflection on the big questions around which information behavior researchers and practitioners can (or should) be making a difference.
- Our people-centered approach has enabled us to deepen our understanding of the ways in which people interact with information, information systems, and other people.
- Communicating these insights to researchers and practitioners in related areas of study and design, however, continues to pose a challenge for our community.
- Thus, the reflective moment to be offered by this year's Symposium will be used to consider one particular challenge: communicating the significance of information behavior research to designers of products, systems and services.
- Keith Instone, Information Architecture Leader, IBM.com. Keith will share some of the IA challenges he faces every day working on a large and distributed corporate web site.



Symposium questions

- How does our research address the transformative relationship between people and information?
- What are the fundamental questions that we should be looking at in our research?
- How are we to move towards making a greater impact on organizations and designers?
- How can or should information behavior research be presented to translate effectively into the language of other information research communities?



Keywords and definitions

- Information behavio(u)r research
- Human information behavior (HIB) research
- Human-computer interaction

- User experience
- Information architecture



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information behaviour research

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TD Wilson - JOURNAL OF DOCUMENTATION, 1999 - emeraldinsight.com

... MODELS IN INFORMATION BEHAVIOUR RESEARCH T . D . WILSON td.wilson@shef.ac.

uk Department of Information Studies University of Sheffield ...

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[PDF] Human Information Behavior

TD Wilson - INFORMING SCIENCE, 2000 - informationr.net

... Origins of Human Information Seeking Behavior Research ... Wilson, TD (1999). Models

in information behaviour research. Jour- nal of Documentation, 55(3), 249-270. ...

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[HTML] ► From information behaviour research to the design of information systems: the Cognitive Work ...

R Fidel, AM Pejtersen - Information Research, 2004 - informationr.net

From information behaviour research to the design of information systems: the

Cognitive Work Analysis framework. Raya Fidel The Information ...

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[HTML] ► Alfred Schutz, phenomenology and research methodology for information behaviour research

TD Wilson - The New Review of Information Behaviour Research, 2002 - informationr.net

... identification of the stratification of knowledge with three key ideal types is

elaborated and the implications for information behaviour research are discussed ...

Cited by 20 - Related articles - Cached - Web Search - All 2 versions

Exploring models of information behaviour: the 'uncertainty' project

T Wilson - Information Processing and Management, 1999 - Elsevier

... Wilson, TD, 1999. Models in information behaviour research. Journal of

Documentation 55, pp. 249-270. Full Text via CrossRef | View ...

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Information behaviour: An interdisciplinary perspective

TD Wilson - Information Processing and Management, 1997 - Elsevier

... suggests that it may be a useful part of any revised general theory of information

behaviour and could provide a theoretical basis for research in various ...

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Eye Movements in Reading and Information Processing: 20 Years of Research - [PDF] > ohio-state.edu

K Rayner - PSYCHOLOGICAL BULLETIN, 1998 - content.apa.org

... Behavior Research Methods, Instruments & Computers, 55, 1-7 ... Failure to integrate visual information from successive ... Behavioral & Brain Sciences, 17, 247-292. ...

Cited by 786 - Related articles - Web Search - BL Direct - All 10 versions

The Effects of Product Class Knowledge on Information Search Behavior

M Brucks - Journal of Consumer Research, 1985 - UChicago Press

... (1999) Dimensions of consumer search behavior in services. ... (1999) External information

search for banking services. ... (1999) Behavioral research into heuristics ...

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The Study of Congruence in Organizational **Behavior Research**: Critique and a Proposed Alternative

JR Edwards - ORGANIZATIONAL BEHAVIOR AND HUMAN DECISION PROCESSES, 1994 - ideas.repec.org

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[PDF] ► Human Information Behavior

TD Wilson - INFORMING SCIENCE, 2000 - informationr.net

... Keywords: human information behavior, information seeking, research, user studies.

Introduction ... Origins of Human Information Seeking Behavior Research ...

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... end, this paper offers a view of the existing research as a ... levels, with finer and

finer details of human information seeking and searching behaviour. ...

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[poc] ► Human problem solving

A Newell, HA Simon, CARNEGIE-MELLON UNIV ... - 1972 - sci.brooklyn.cuny.edu

... The theory proclaims man to be an information processing system, especially ... the set of processes or mechanisms that produce the behavior of human thinking. ...

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Informing Science

Special Issue on Information Science Research

Volume 3 No 2, 2000

Human Information Behavior

T.D. Wilson University of Sheffield

t.d.wilson@sheffield.ac.uk

Abstract

This paper provides a history and overview of the field of human information behavior, including recent advances in the field and multidisciplinary perspectives.

Keywords: human information behavior, information seeking, research, user studies.

Introduction

Until recently the computer science and information systems communities have equated 'information requirements' of users with the way users behave in relation to the systems available. In other words, investigations into information requirements were concerned almost entirely with how a user navigated a given system and what he or she could do with the data (rather than information) made available by information systems.

This is now beginning to change as ethnographic methods are introduced into the requirements definition stage of systems design, and Beyer and Holtzblatt (1998) have shown the benefits. However, even when such methods are employed, the designers appear to be asking. "How is this person using the

review some of this research and to point to findings that enable the system designer to put the design process in the wider context of the user in the organization.

Some Definitions

Some definitions are needed before we go further. In this paper, four terms are used: information behavior, information seeking behavior, information searching behavior and information use behavior. They are defined as follows:

Information Behavior is the totality of human behavior in relation to sources and channels of information, including both active and passive information seeking, and information use. Thus, it includes faceto-face communication with others, as well as the

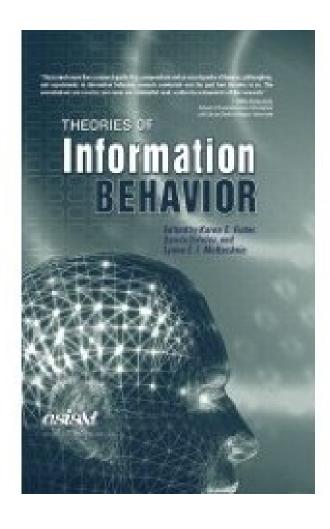


Some definitions (according to Wilson)

- Information behavior: totality of human behavior in relation to sources and channels of information. Face-to-face, TV, etc.
- Information seeking behavior: seeking for information with a purpose to satisfy some goal
- Information searching behavior: micro-level interactions with system. HCl (mouse clicks), intellectual (boolean), mental (judgement)
- Information use behavior: incorporate information into knowledge base. Physical and mental.
- Note: in practitioner world, "search" is often used to mean all of this, and more. Sigh.
- Wisdom > Knowledge > Information > Data

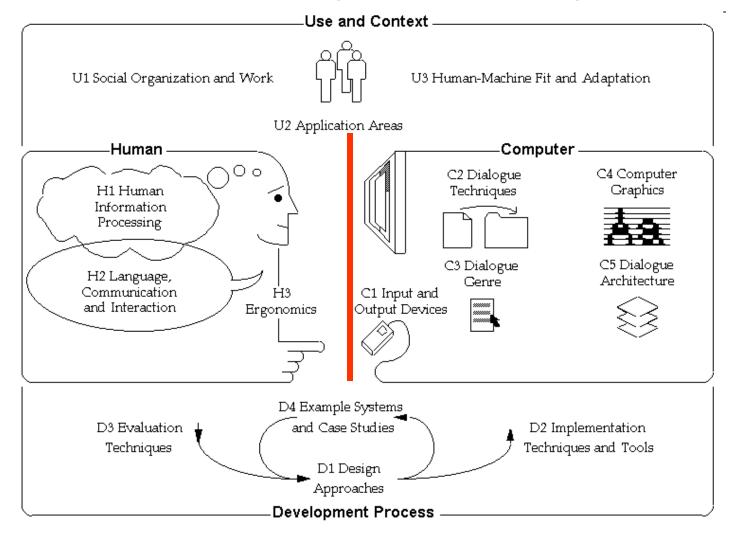


Bedtime reading





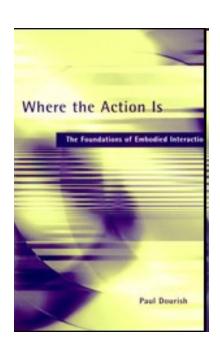
"Where the action was" (SIGCHI, 1992)





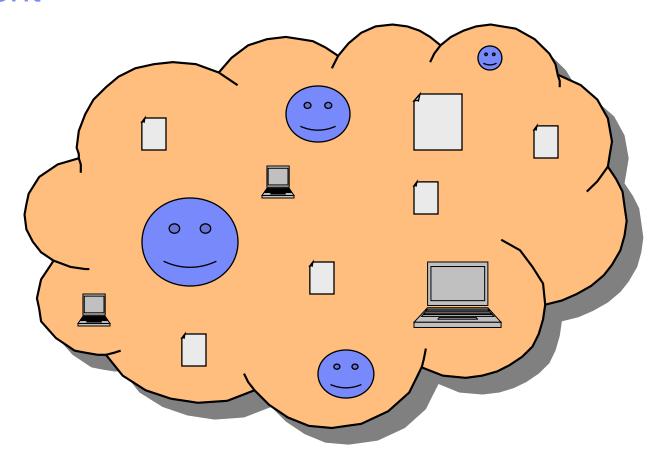
"Where the action is"

- Paul Dourish, The foundations of embodied interaction
- Embodied interaction is interaction with computer systems that occupy our world (physical, social)
- Embodiment is about engaged action rather than disembodied cognition





Embodiment



E.g., what is the difference between *information behavior* and *behavior* in this setting?



Take a drink of water



IB Research → Application IB Research → Other domains

- How are we to move towards making a greater impact on organizations and designers?
- How can or should information behavior research be presented to translate effectively into the language of other information research communities?



Recaps from position papers (agreement)

- Collaborate with other disciplines' research agendas
- Generalize, questions for design, integration into methods
- Faster methods, faster application
- Explain user behavior to designers
- 2-way communication, collaboration, user + system perspectives
- HIB + HCI
- Outside comfort zone
- Activity theory as the framework
- Engaging other communities: Outreach, translation
- Relevant, accessible, actionable
- From research to checklists
- Dialog with other communities, Researcher/creator barriers
- Usability studies
- Presence in other fields

Probably more agreement on the what than the how



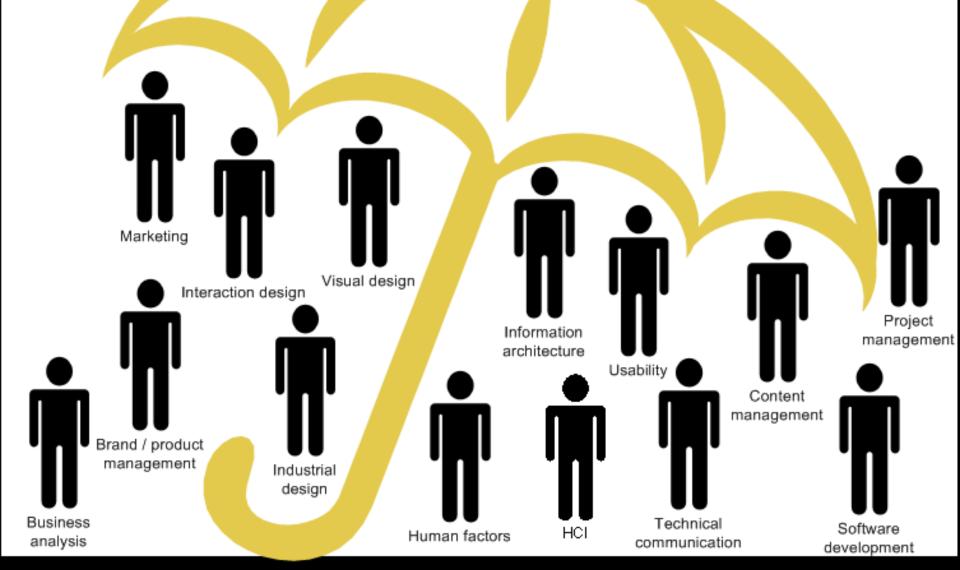
Where do we meet to work these things out?

- Connecting with practitioners
 - ASIS&T (here)
 - IA Summit
 - Online?

Connecting with other (research) disciplines

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Does the "user research umbrella" help?





Does a "research agenda" help us?

As a way to translate research into a framework for application



information behavior research agenda

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IBM and Info On Demand

www.IBM.com Read Whitepaper on how to Improve Info Collection, Integration & Use.

Scholarly articles for information behavior research agenda



Women in the information technology profession: a ... - Ahuja - Cited by 79 Motivation: Reopening the Research Agenda - Crookes - Cited by 338 Human Information Behavior - Wilson - Cited by 161

<u>Library & Information Science Research : Social information ...</u>

This article offers suggestions on how these concepts of **information behavior** can contribute to the e-government **research agenda**. ... linkinghub.elsevier.com/retrieve/pii/S0740818803000975 - Similar pages - Note this

by PT Jaeger - 2004 - Cited by 20 - Related articles - All 2 versions

[PDF] Changing information behaviour: education, research and relationships

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Date: 18/05/2007. Changing information behaviour:. education, research and relationships. Dr Judith Broady-Preston. Department of Information Studies, ... www.ifla.org/IV/ifla73/papers/158-Broady-Preston-en.pdf - Similar pages - Note this

Information Architecture Research Agenda | Keith Instone

Mar 25, 2006 ... I participated in the "Setting the IA Research Agenda" panel on ... review of the literature with sections on Information seeking behavior, ... instone.org/iasummit2006researchagenda - 20k - Cached - Similar pages - Note this

[РРП] Behaviors and Preferences of Digital Natives: Informing a Research ...

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Overarching Issues in Children's and Youth Information Rehavior Research: Moving the

Yikes!



Take a drink of water



Position papers: Topics that might help me do my job

"Finding information" but also broader

- Interpersonal relationships
- Social settings
- Multi-tasking, cognitive shifts
- Credibility
- Social context
- Activities, actions, operations
- OPAC
- Filtering info out of documents
- Apply Web Analytics
- Data sharing
- Credibility
- Reflection on process
- Community, social aspects
- Scholarly communication
- Culture, values, authority
- News reading



Big picture things that me keep up at night for IBM

- Search (but really, finding)
- **Personalization**
- Frameworks for user generated, business generated content (IA separate from content)

10/26/08

- Aggregation, clustering, (semi-) automatic tools for organizing information in ways that make sense to users
- Web 2.0 services (applied to ibm.com)
- **Business problems (complex ones)**
- Change (fostering it, dealing with it)

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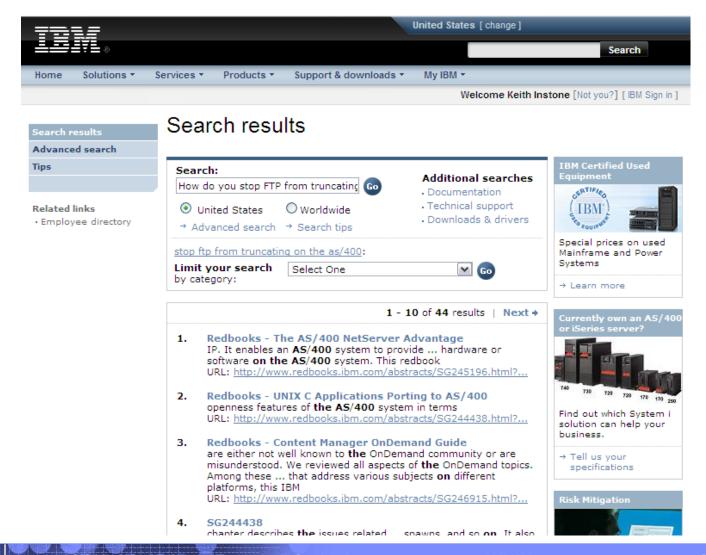




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user-group vallent

All service-management communities

IBM Service Management community 103 members | Updated by Terry Eaves

This community is an open forum for collaborating on IBM Service Management solutions, questions, and discussions and sharing favorite resources and links.Important linksWeekly IBM Service Management JamsNew Blog: IB

Page 1

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IBM Tivoli Software Main Community

149 members | Updated by Elaine Tully

This community is an open forum for the public to post relevant questions and resources related to considering, marketing, selling, using, deploying, and supporting IBM Tivoli products and solutions. READ THESE INSTRUCTIONS FIRST on how to par

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Pulse conference community

107 members | Updated by Tiffany Winman

This community is an open forum for discussing, sharing, and collaborating on the IBM Pulse Conference. It helps Pulse attendees manage their contacts beyond the life of the conference; share and stay up-to-date on conference news; foster conversations through Pulse fo

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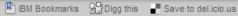
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Community

For IBMers, community is not a buzzword, but a living form of collaborative innovation. We work shoulder-to-shoulder with clients, partners and neighbors across the globe to change the way the world works.

Developer communities

IBM developerWorks Community Interact with fellow developers through blogs, wikis, forums, podcasts, events, webcasts, web feeds, exchange, and more.

IBMers past and present

The Greater IBM Connection A worldwide business and social network for IBMers past and present.

Industry Consortiums

Blade.org

Grid.org

Power.org

User communities

Network with other independent user group community members in online forums and/or in local meetings held around the world.

Software

- · Information management
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- · IBM Tivoli Software Main Community
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- IBM Service Management community
- Tivoli research volunteers
- Business Analyst SOA Community

Most recommended blogs



Jennifer Dennis Pulse 2009: Viva.. Pulse conference...



Jennifer Dennis 2008 Olympian Mi... Pulse conference...



Jennifer Dennis Rise and Shine. . Pulse conference..



Jennifer Dennis The Shirt off My ... Pulse conference..



Jennifer Dennis Introducing IBM ... Tivoli Software ...

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→ World Community Grid

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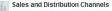
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Events

Winning in China's Mass Markets

→ Learn more

What operational areas should be focused on when you expand into the mass market?



Many companies in China are burdened with extremely inefficient channels which must be overhauled to tap the mass market profitability. A large portion of revenues flow through three or more channel layers, and only few companies have point of sale visibility. Companies must transform in new areas to improve their sales and

distribution channel effectiveness to reach the mass market profitably



Available at 9:00-17:00 Beijing time; from Monday to Friday

We're here to help

E-mail us

800810-1818-5207

or call us at

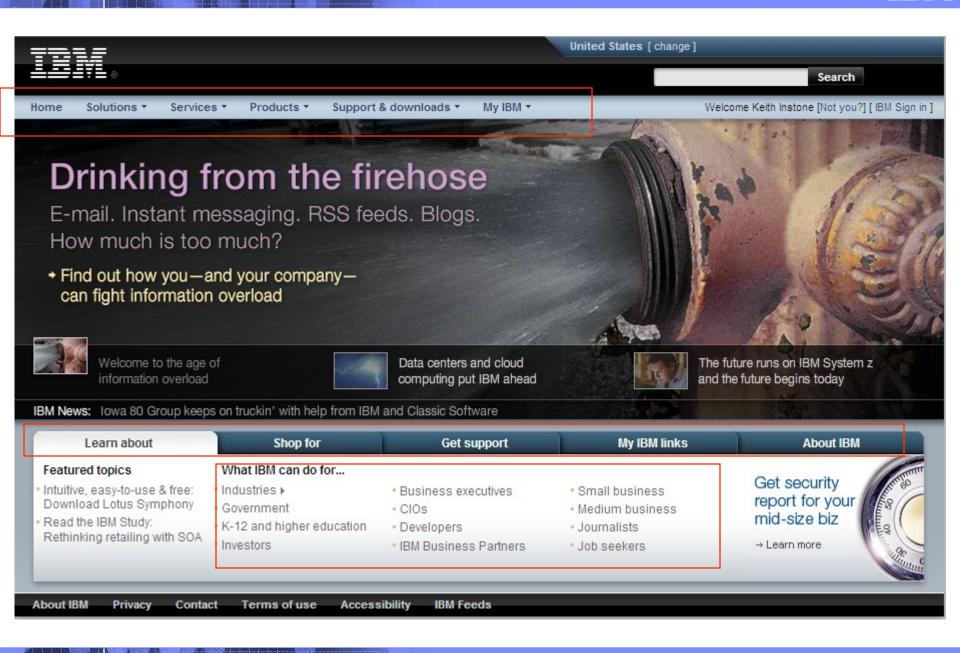
Easy ways to get the

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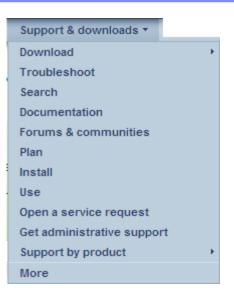
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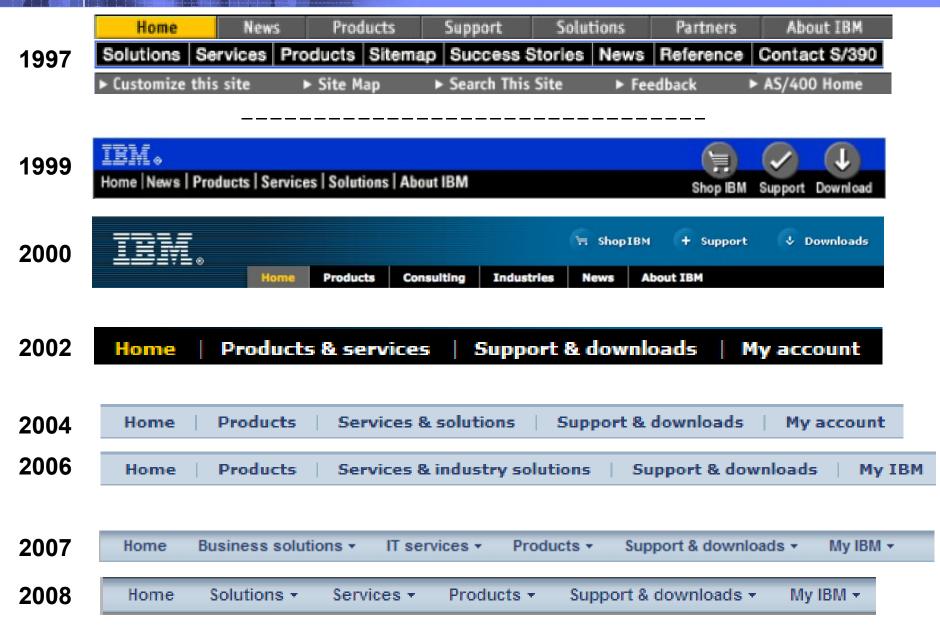




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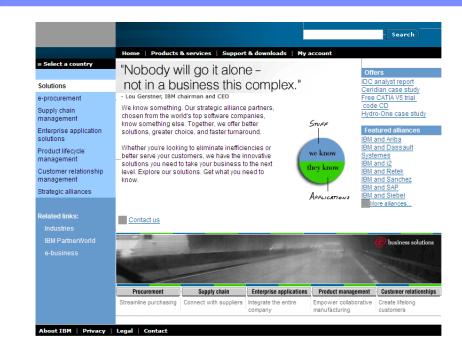
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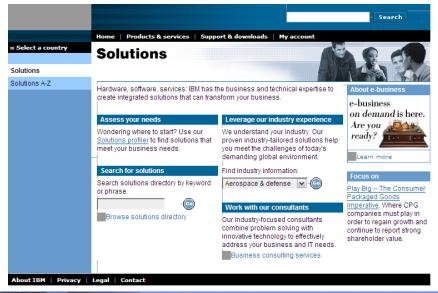
Small and medium-sized enterprises

Telecommunications and Media Travel and Transportation

Utilities and Energy Service Industry

Web solutions







Change

- "The only constant is change" Heraclitus
- HIB → ibm.com UX → Organizational change
 - Russell's "Collaborative sensemaking"
- HIB changes (or becomes irrelevant)



Summary

- Thanks for getting me out of my comfort zone
- What is "information behavior" again and why should I care? Who else should care?
- If you can help me solve problems with search, personalization, user-generated classification, aggregation, SOA for UX, complex business problems, then I will care
- If you can help me understand HIB, and if I can translate it into a business impact (e.g., user experience improvements), then [something good will happen]



And now for the really good part....

Small group discussions!