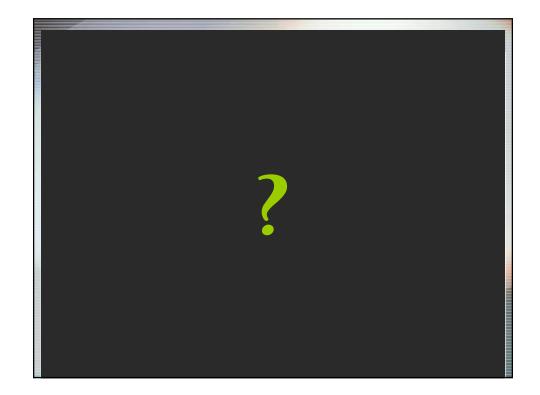


What is Information Architecture?

- What do IA's do?
 - agency model: user advocate, make sitemaps, make wireframes
 - in-house model?
- Who are IA's?
 - all are analytical
 - most are curious about people
- How are IA's different than Interaction Designers or UI Designers?
 - tonight, IA and ID and UI will intermingle

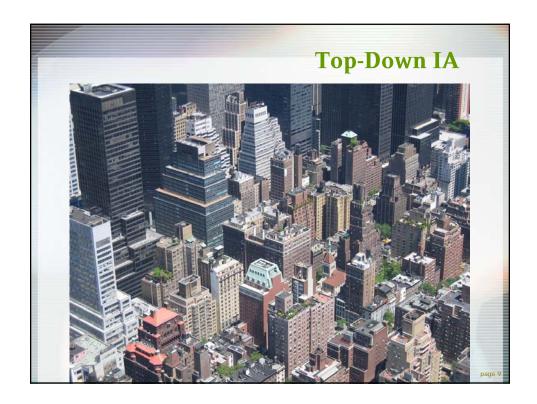


Tonight's Roadmap

- Top-Down IA
- Bottom-Up IA
- Top & Bottom Issues/Trends
- International Issues
- Business Issues
- Other Issues
- Learning More

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Top-Down IA: Bigger Buckets

- focuses on:
 - site structure (site maps), navigation, webpage layout (wireframes)
- ... and loosely:

UI of interactive features like search engines, shopping carts (storyboard)

- related fields:
 - visual design, information design, interaction design, marketing, UI design, usability
- ...and tech comm because of attention to audiences

Top-Down Trend » rich internet applications

Goal: "seamless" user experience

- · Reduce the "page refreshes" the user sees
- · Reduce page-level trips to the server

"The page is dead...." again

At least 3 ways to do it:

- · Java old fashioned?
- · "Ajax" as promoted by Adaptive Path
- Rich Internet Applications as promoted by Macromedia

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Top-Down Trend » rich internet applications

"Ajax" as promoted by Adaptive Path

- Stands for "Asynchronous Javascript + XML"
- Examples:
 - command completion: Google suggest
 - pan, scroll, zoom: Google maps
- How it works:
 - when user takes certain actions on webpage, webpage silently asks the server for a tiny piece of info
 - via XMLHttpRequest() object
 - portion of the webpage gets replaced on the fly... not the whole page

www.adaptivepath.com/publications/essays/archives/000385.php www.xml.com/pub/a/2005/02/09/xml-http-request.html

Top-Down Trend » rich internet applications

Rich Internet Applications as promoted by Macromedia

- · Business-related examples:
 - Banner Engineering: winnowing task for product selection
 - Ford Vehicles Interactive Towing Guide: more complex
 - iHotelier : hotel reservations
 - TJ Maxx : shopping cart, increased conversion rate 50%
 - Airline Booking: click "search now" (Laszlo open-source XML variant)
- How it works:
 - Flash loads in browser, puts a little XML flat file onto user's hard drive
 - Flash UI pulls data from that XML file in response to user actions

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Top-Down Trend » rich internet applications

Issues for IAs

- Deliverables / prototypes for dynamic RIA's
 - storyboard ?, or learn Flash
- Metrics must build them in manually from the beginning
- Security getting past corporate firewall
- Convincing our clients and bosses to do an RIA
 - Critical mass of business-oriented websites that use RIA for profit, not to be cool
 - Even White Castle is considering an RIA now

Top-Down Trend » Dashboards

- Imagine a typical intranet homepage tabs across the top
 - Dashboard collects common tasks from every tab for that user, and puts them onto one screen
- Intersects with RIA
 - Joe Lamantia's exec dashboard
 - Laszlo dashboard



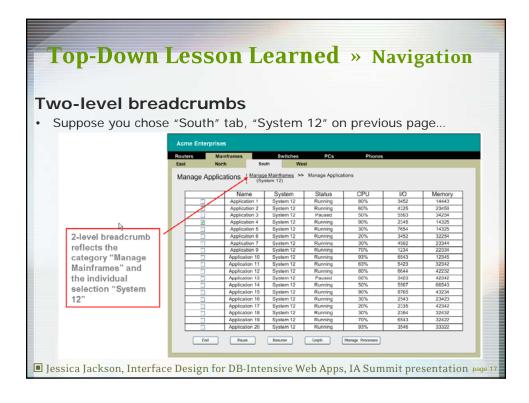
■ Karl Mochel, Oracle, Design Patterns for EUI, IA Summit presentation Joe Lamantia, Poster on Executive Dashboards, joelamantia.com/downloads

Top-Down Lesson Learned » Navigation

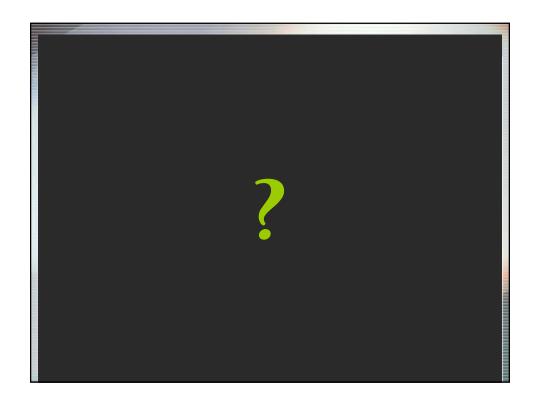
Fine-tuning the nav templates makes a big difference

- Vanguard.com > Personal > Planning & Education > Retirement
 - this section has different 2ary nav than other sections
 - user testing: people got confused when nav areas went away
 - breadcrumbs only appear at lower levels
 - selectively reduce content at lower levels
 - lots of user testing and attention to exact labels they made a difference

David Fiorito, Thinking Navigation on Vanguard.com, IA Summit presentation



Top-Down » Other Trends Continuing trend toward high-bandwidth web apps and sites Wider, larger screens Top-down I As venturing into bottom-up territory.... and vice versa





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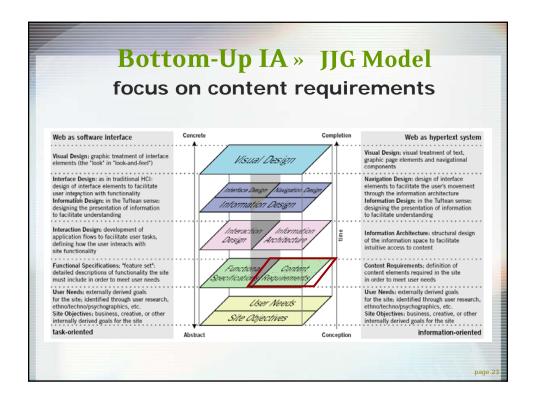


Bottom-Up IA: Tiny Buckets

- · focuses on:
 - metadata, controlled vocabularies, taxonomies, thesauri
- continuum with top-down IA since all these things will propagate to the UI directly or indirectly
- related fields:

library science, database design, information retrieval, content management, knowledge management

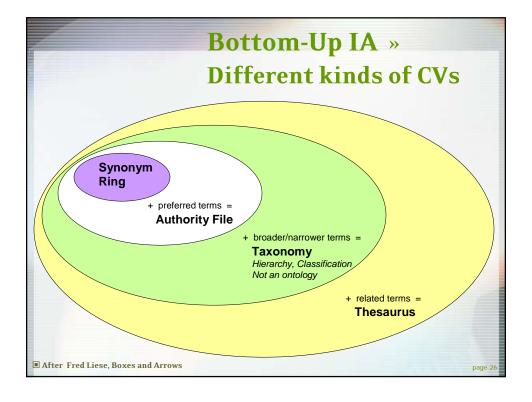
...and tech comm
 because of single-sourcing, indexing, ...

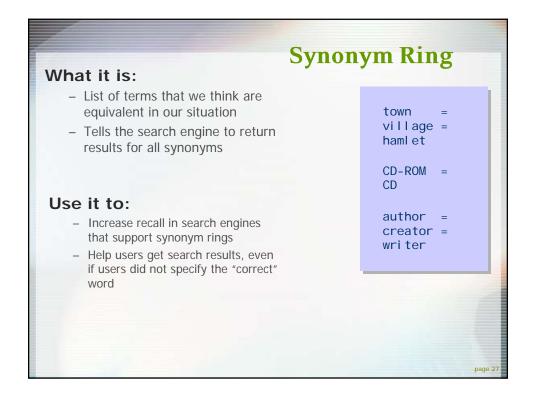


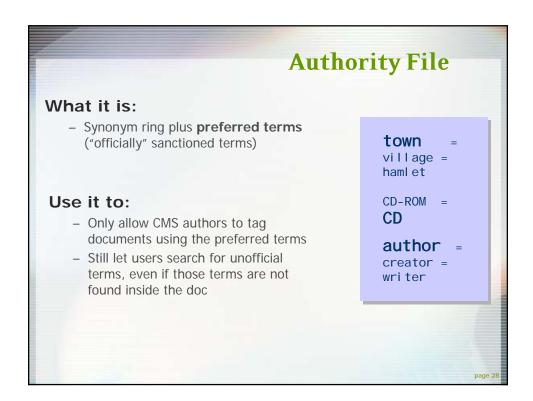
Bottom-Up IA » Metadata

- "Data about data"
- Information about a doc or a content chunk
- Shout out some possible metadata about this presentation you are watching now

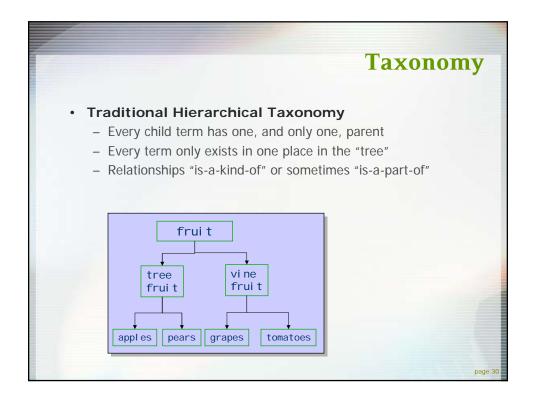


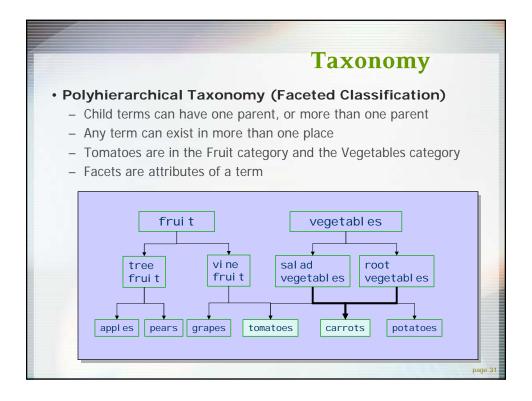


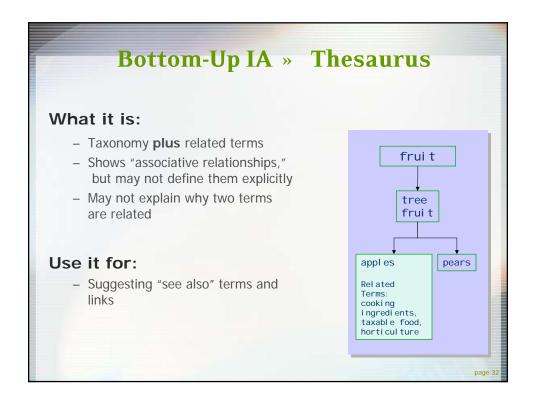


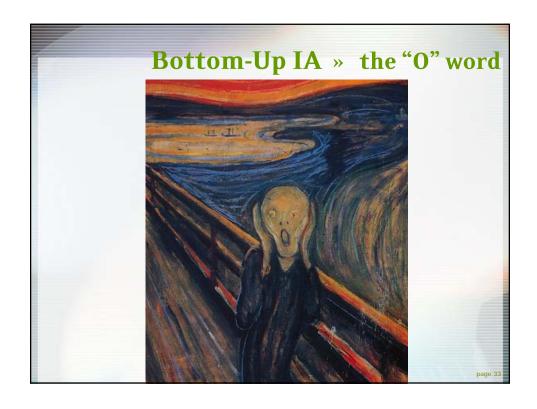


What it is: - Authority file plus hierarchy (broader terms and narrower terms) - Most people would call this a classification or hierarchy Use it for: - Traditional, hierarchical navigation - Faceted navigation









Bottom-Up IA » Ontologies

Philosophy:

Metaphysical study of the nature of being and existence.

Common loose usage: The study of classifications.

Al community:

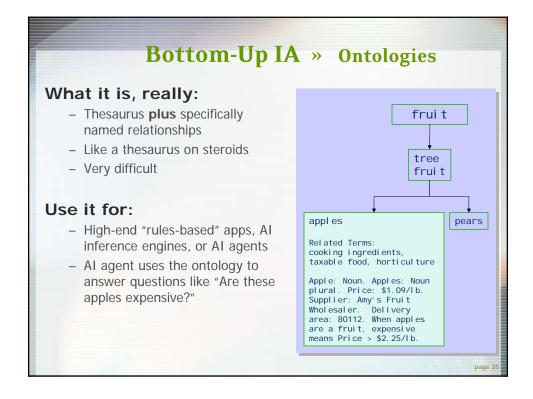
An explicit formal specification representing objects, concepts, and relationships in some area of interest, along with axioms that constrain the use of these terms. Used to develop inference engines.

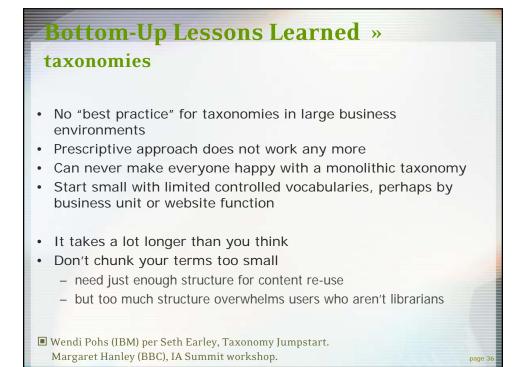
KM community: definitions vary...

A classification structure that takes into context a larger body of knowledge and meaning. An ontology about a domain might contain multiple taxonomies and the relationships between those taxonomies.

OK, but what does ontology mean to us?

■ After Lars Garshol, http://jis.sagepub.com/cgi/content/refs/30/4/378





Bottom-Up Lessons Learned »

getting users to comply with a CMS

- Important to gather user expectations about the CMS
- Training took 2 years and didn't sink in as well as expected at first
 - Now we do lots of roadshows with plenty of hands-on exercises
- —Also one-on-one training.

 Margaret Hanley (BBC), IA Summit workshop.

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Bottom-Up Lessons Learned » getting users to comply with a CMS

- · Users hate to add metadata, even weblinks
 - Consider allowing users to type free text, even though that makes librarians cringe (see folksonomies)
 - Hunt for abuses of the content templates that will teach you what aspects of the CMS your users hate
- How to convince users that metadata is valuable?
 - Wait till there's a critical mass of metadata
 - Then the benefits will become clearer
- Spent too much emphasis crafting a workflow that nobody follows

■ Margaret Hanley (BBC), IA Summit workshop.

Bottom-Up IA » Trend: Folksonomies

- Taxonomy where users create their own terms
- Purest form: metadata consistency via peer pressure instead of centralized control
- Example: <u>dreamstime.com</u>
 - photographers upload photos and tag them at will
 - designers search or browse for tags
 - designers add photos to a collection, and tag it too

■ "Sorting out Social Classification," IA Summit panel discussion.

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Bottom-Up IA » Trend: Folksonomies

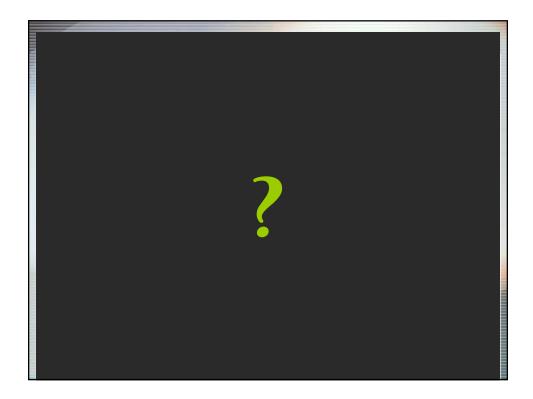
- · Major, major buzz. Why?
 - Morville:
 - "we are guilty of designing CMSes that were too rigid"
 - backlash to corporate big-brother CMSes –
 "we want you to use these words to think"
- **UE**: excitement

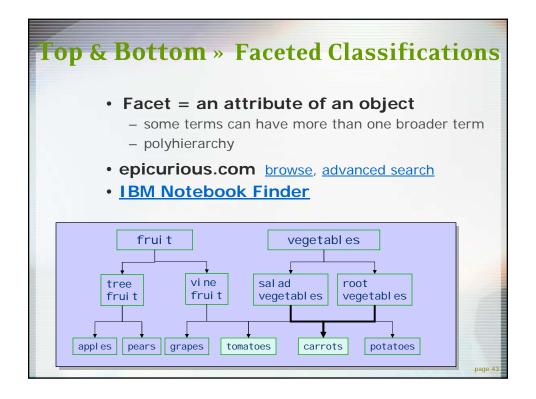
Librarians: fascination and horror

- "A folksonomy is nearly useless for searching out specific, accurate information, but that's beside the point. It offers dirt-cheap, machineassisted herd behavior; common wisdom squared; a stampede toward the water holes of semantics." (Sterling)
- "Sorting out Social Classification," IA Summit panel discussion. Bruce Sterling, wired-vig.wired.com//wired/archive/13.04/view.html?pg=4

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Bottom-Up IA » Trend: Folksonomies Jury is still out for now Take-home messages: Make it in users' best interest to tag stuff Consider hybrid approach — let users tag at will, but then normalize it Be careful — BBC tried this, and they got buried





Top & Bottom » Faceted Classifications More sites that use facets: • bn.com: books about music in the Civil War Browse books by subject • Nonfiction > Music Books > History > Military History > Civil War or • Nonfiction > History > 19th century > Music • staples.com • kohler.com

Top & Bottom » Faceted Classifications

Case Study: PC Connection

- · Good fit for faceted nav
- But Endeca did not increase conversion rate or sales
 - usab testing: users did not see facets or their little
 - people aren't used to facets, so place them prominently
- · More usab testing for current design
 - use both bullets and underlines to emphasize links
 - show choices like this: <u>less than \$50</u> (19 choices)
 - users don't use breadcrumbs
 - they don't distinguish between searching and browsing
 - don't call it "Advanced Search"
 - animated flyout DHTML tested very well

■ Steve Mulder, Faceted Interface: PC Connection, IA Summit presentation

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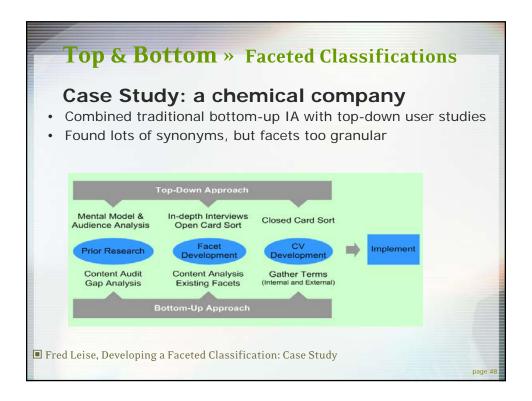
Top & Bottom » Faceted Classifications

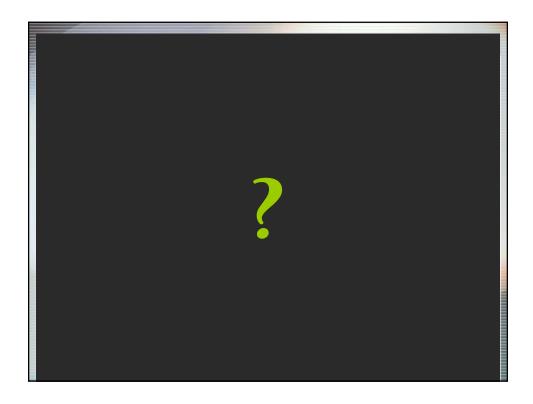
Case Study: Softchoice.com

- B2B customers act differently than B2C
 - repeatedly purchase same products
 - need detailed specs
- User mistrust due to
 - cryptic abbreviations
 - missing photos
 - missing technical details
- Added CV with custom Best Bets for certain customers
- IA team convinced management with hard data

■ Joanna Briggs, Building on User Testing: Softchoice.com

Top & Bottom » Faceted Classifications Case Study: Softchoice.com Control/Impact Analysis of Findings						
			Doe:	the X have a high/medium/low impact Medium Impact	ton Y?	
Г			Repeat purchases are important to me	Abbreviations are confusing	Low impact	
	9 9	In our control				
	in a outside the team's control	In our Sphere of Influence				
	Is the X within	L Lo			Third party sites have outdated licensing information	
TO STEEL BONNELL		Out of our control				
■ Joanna Briggs, Building on User Testing: Softchoice.com, IA Summit presentation page 47						





International Issues

- Does the organization/nav of a website need to change for different cultures?
 - Keep the top levels the same
 - Vary the lower levels where locale-specific content exists
- Sometimes the cultural differences aren't as big as you'd think
 - Germans said they search differently, but could perform OK on generic search engine
 - Indian card sorting on household electronics facets were similar to European, but hierarchy was slightly different
- Biggest cultural differences that affect IA:
 - Developed nations vs Developing nations
 - Asia vs everywhere else

■ "Practical Global IA" panel discussion

International Issues

- Hofstede's Dimensions of Culture are harmful stereotypes
 - Power-distance
 - · Collectivism vs. individualism
 - · Femininity vs. masculinity
 - Uncertainty avoidance
 - · Long- vs. short-term orientation
- Useful to recognize cultural differences...
 but not to reconcile them
- · We need a more nuanced view

■ "Practical Global IA" panel discussion

page

Business Issues

- · IAs don't get no respect
 - IA must have support from the executive suite (Briggs and many others)
- "10 mistakes I made"
 - thinking metadata would solve all our problems
 - not managing management expectations
 - thinking that UCD was more important than anything else
 - didn't spend enough money on consultants (!)

■ Joanna Briggs, Building on User Testing: Softchoice.com Lorelei Brown, 10 Giant Mistakes I Made This Year

Business Issues » Evangelizing IA

- Elevator pitch:
 - "I'm an IA and I structure information. It could be for websites, or it could be to help management make decisions."
- Wait for the seducible moment for an exec, pain = \$.
- I never use the term "user" when talking with execs. Never, never, never. I call it "constituent value add." The execs won't take you seriously if you use talk about users. (Harry Max, Dreamworks)
- At the C Level: first talk about the vision, then the plan. At the Program Manager level: vice versa. (Harry Max)
- When presenting IA internally, think about it as a campaign ad – execs just need to know how IA will meet business goals (Fiorito)
- David Fiorito, Thinking Navigation on Vanguard.com Helping IAs Speak the Language of Business, panel discussion

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Business Issues » Evangelizing IA

You might be an evangelist if ...

- You've seen the movie Jerry Maguire a dozen times and you still can't figure out why they fired Tom Cruise.
- You drop Bill Gates a personal e-mail every time you think of another thing that bugs you about that damn talking paper clip.
- Every week, you find yourself trying to convince the office cleaning crew to put the toilet paper roll in the right way.
- You have a recurring nightmare where the company's adherence to existing processes inadvertently opens the Gates of Hell and initiates Armageddon.

■ Dan Willis, Evangelism 101

oage 54

Business Issues » Evangelizing IA

An evangelist helps things change...

- By the work of their "day job"
 - Solve problems rather than just alleviate symptoms
 - trade ownership for consensus around new kinds of thinking
- · By their involvement within projects
 - Function as an outside consultant whether they are one or not.
- By initiating group creative exercises
 - Run workshops, Home Cookin' sessions
- · By circulating information
 - Author e-mail newsletters, collect timely articles from other industries

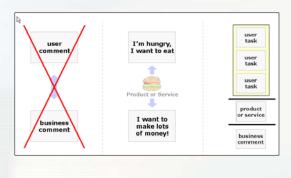
■ Dan Willis, Evangelism 101

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Business Issues » Evangelizing IA

Evangelizing IA at The Vanguard Group

- IAs at Vanguard Group decided to document business strategy
- Had to overcome skepticism
- Information design matters even/especially for execs



Richard Dalton, A Foray Across Boundaries: Applying IA to Busn Strategy

Other Issues

- Ethics of persuasion
 - Why is e-commerce floundering in India if computers cost \$900?
 - Because \$900 is more than one year's salary, and nobody is going to spend that much money online
 - Keynote speaker, B.J. Fogg, admitted his book, Persuasive Technology, needed an ethical balance
- · Soul-searching
 - Acknowledging that IA can be a frustrating field due to politics
 - Lou Rosenfeld how to get 12 departments to agree on something?
 - Polar Bear methods don't work in that environment
 - Go for quick IA wins
- No navel-gazing
 - "What is IA" was not an issue

■ Louis Rosenfeld, Enterprise IA Methodology

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Bottom Line

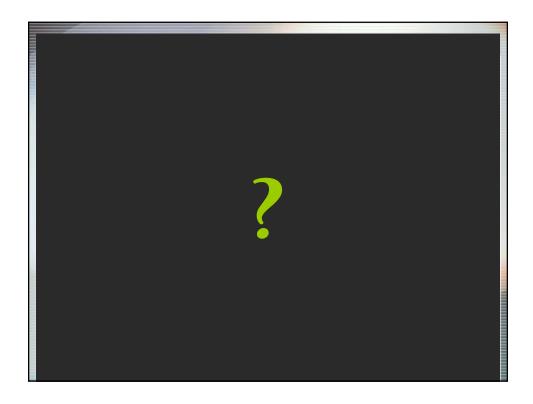
- There are lots of hard IA problems
- Some very smart people are working on them
- Some IAs create beautiful artifacts that increase credibility
- Nobody has all the answers
- Nobody will, any time soon
- Do your homework... and go for it













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Learning More » Top-Down IA IA for Tech Writers: • Mir Haynes, "Information Architecture: You Do It, You Just Don't Know It." Intercom, April 2003. http://www.stc.org/intercomArticle_Haynes0403.asp

Learning More: RIA

- · Ajax:
 - www.adaptivepath.com/publications/essays/archives/000385.php
- Macromedia: www.macromedia.com/resources/business/rich_inter net_apps/

