About me

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February 28, 2004 Keith Instone

instone@user-experience.org http://user-experience.org/uefiles/facetedbrowse/

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- IBM > ibm.com > user experience > information architect
 - From vision to implementation: personalization, standards, taxonomies, content management, organizational change, ...
- Argus Associates
 - IA & Usability specialist
- "Information architecture old fart"
 - 6th IA-focused conference (5th ASIS&T Summit)
 - Retired from: Usable Web, CHI-WEB, SIGCHI, ...

About this presentation

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- What is faceted browse?
 - Definitions so that we can communicate better
- How is it being implemented?
 - Examples, examples
- What do we know (and not know)?
 - Short literature review, open research questions to help spur dialog
- "Fun"
 - Lots of screen shots

"Faceted browsing" defined

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- Interaction style where users filter a set of items by progressively selecting from only valid values
- Facet values selected in any order the user wishes
- Null results are never achieved
- Leverages faceted classification schemes
- "Slow and steady wins the race"
- Model: drill-down choices "naturally" reflect depth so far

Epicurious.com Recipe Browser

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Preparation method = Microwave



Selecting a Course/meal is next

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Course / meal = Main dish



Brown - Microwres Refine by: Main Ingredient | Course / Meal | Cusine | Sesson / Occasion Appetites (2) | Desent (2) | Salud (3) | Salud (4) | Salud

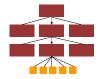
Scanning the 12 items so far BRAKED POINT CHOPS WITH PEPPERS GWINNEY Jun 1996 BRAKEN THE ROOM SHEPPE TO'LE RIBETOR GWINNE MY 1992 CHARGE STREET WITH TARROOM SHEPPE TO'LE RIBETOR GWINNE ON THE BRAKEN BEFF WITH TURNING GWINNE ON THE BRAKEN BEFF WITH THE BRAKEN THE BRAKEN BRAKEN BEFF WITH THE BRAKEN WILLIAM BRAKEN BEFF WITH THE BRAKEN BRAKEN BRAKEN BRAKEN BRAKEN WILLIAM BRAKEN BRAKEN BRAKEN WILLIAM BRAKEN BRAKEN BRAKEN WILLIAM BRAKEN BR

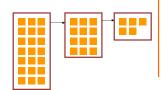
1 - 12 of 12

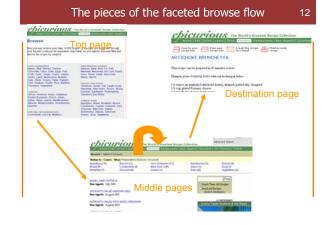


Part of a trend: Filtering instead of Hierarchies

- Old days: Click-click-click on categories and finally get to the goodies at the leaf nodes
- Trend: One click, get a sample of results ("1-10 of 149"), select a category to get fewer results





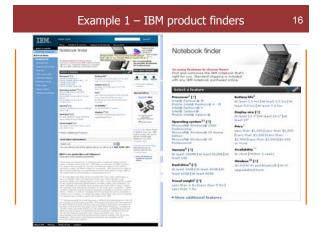


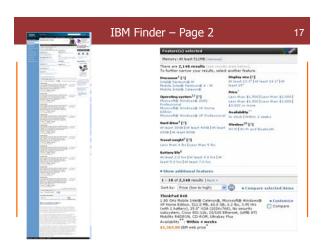
- Facet selection: How do you select a facet value?
- Facet history: How do you know what you have selected? How do you undo it?
- The results: How are results displayed? How are they laid out wrt the facet selection and history?
- Item: the basic unit of information, what you are looking for, what gets classified along different facets
- (The classification): behind the scenes but very, very important



Related terminology

- Faceted browsing (what caught on within IBM)
- Faceted metadata search & browse (searchtools.com, Flamenco)
- Guided navigation (Endeca)
- Facetmap (facetmap.com)
- Faceted classification: the back end stuff (vs. my user interface stuff here)
- Finding = Searching/box + Browsing/links + Querying/form







IBM finder – Some results lead to configurators 19



IBM finder – Facet history



IBM finder – Additional facets

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Example 2 – Flamenco (fine arts)

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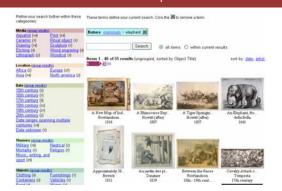
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Flamenco – Middle pages - Mammals 23















IBM MSN **Epicurious** Flamenco Top page Yes Yes No (no results) Facet 1 facet at a More facets Left Left selection time "More Тор brands" Тор Facet Breadcrumb Commas Blocks [x] Dead breadcrumb history [remove] "Show all" Results Sort Grouping Sort Compare Compare Islands Islands Islands Destination Exposed pages

Comparing examples

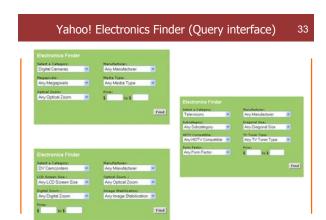
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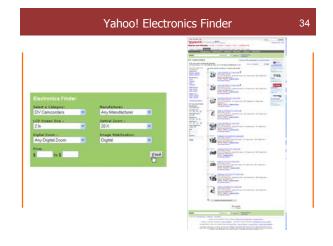
Near-examples & Non-examples

- Amazon.com Shop-by browsing
 - Shop by brand: not FB
- Yahoo! Electronics Finder
 - "Faceted querying"
- IBM software Find-by
 - Just a gateway to sub-sites
- Dick's Sporting Goods Shoes
 - 3 steps: Brand is contextual to size
- CNET Shopper Filter-by
 - Filter values are generic













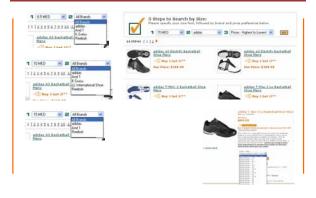


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Dick's Sporting Goods: Shoes by Size & brand 39

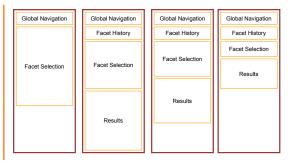


CNET Shopper: Filter results (by all software facet values)

Service 1: Clarifore 1: Children 2: Children 2: Children 3: Childr

The model – "natural" selection?

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High level questions re: Faceted browse

- What is the best flow?
 - Top page: good or bad?
 - How integrated should the destination pages be?
- How should the elements be arranged on the page?
 - Facet selection on top vs. left, for example
- How easy is this to learn?
 - Special words or phrases to clue users in?
- What contexts does this work well in?
 - "Finders" vs. "Configurators"
 - Shopping by (physical) attributes
 - More abstract/diverse objects: how homogeneous?

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Facet history questions

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- What if you have too many facets?
 - Show / hide or eliminate?
 - How many is too many?
- What if you have too many facet values?
 - Selected set and "show all"?
- Do you show the hits on the links?
- What if users need to select more than 1 value for a given facet?
- Can we think of keyword search as just another type of facet selection?

- Are breadcrumbs a good user interface for this?
 - vs. "undo" metaphor
- Do users understand what they are doing when they undo?
- How useful is the "remember what you chose" aspect?
- Should history be integrated with selection?

More tough questions

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- Which is better: menus or lists of links?
 - Menus: less real estate
 - Many choices at once: that is better, no?
- How does FB fit into the top-down IA of a site?
 - Just an overlay on items vs. integrated items

(Bottom-up) IA of FB

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- How does the faceted classification & user interface work go hand-in-hand?
 - Classification first and then UI?
- Determining facets
 - Hierarchical facets, # of facets, usefulness of each facet
- Facet values
 - Labels, thus, user interface
- "Spectrum" (numerical facets)
 - Range-making at the UI layer

Next steps

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Concluding Remarks

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- Learn more at this summit
 - Stream 1, esp. facet analysis NEXT
- If you are a student/professor who wants to do research in FB, contact me
- IAslash.org blog FB there
 - http://iaslash.org/taxonomy/page/or/166
- http://user-experience.org/uefiles/facetedbrowse/

• Thanks!

