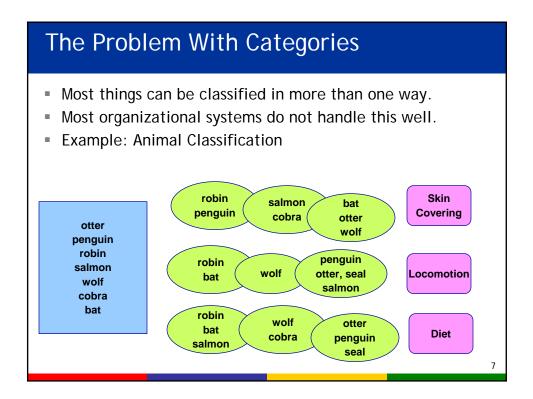


## What we want to Achieve

- Integrate browsing and searching seamlessly
- Support exploration and learning
- Avoid dead-ends, "pogo'ing", and "lostness"

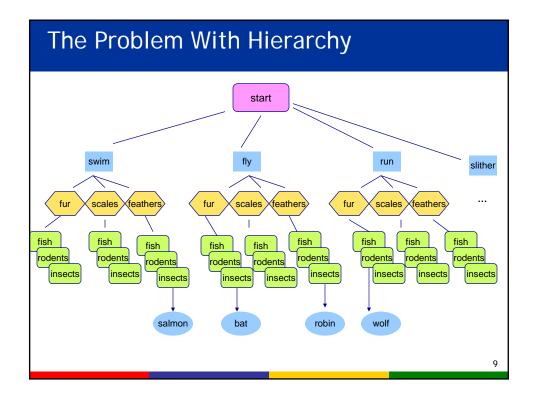
# Main Idea

- Use hierarchical faceted metadata
- Design the interface to:
  - Allow flexible navigation
  - Provide previews of next steps
  - Organize results in a meaningful way
  - Support both expanding and refining the search



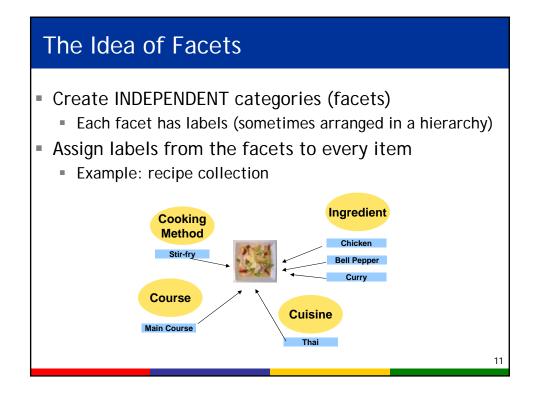
# The Problem with Hierarchy

- Inflexible
  - Force the user to start with a particular category
  - What if I don't know the animal's diet, but the interface makes me start with that category?
- Wasteful
  - Have to repeat combinations of categories
  - Makes for extra clicking and extra coding
- Difficult to modify
  - To add a new category type, must duplicate it everywhere or change things everywhere

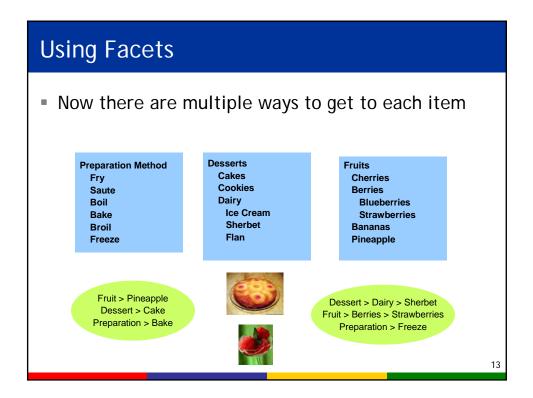


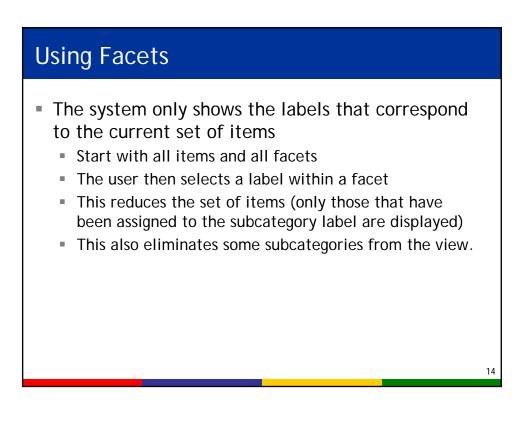
# The Idea of Facets

- Facets are a way of labeling data
  - A kind of Metadata (data about data)
  - Can be thought of as properties of items
- Facets vs. Categories
  - Items are placed INTO a category system
  - Multiple facet labels are ASSIGNED TO items

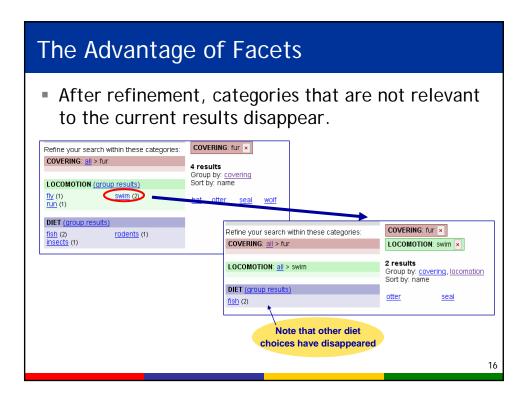




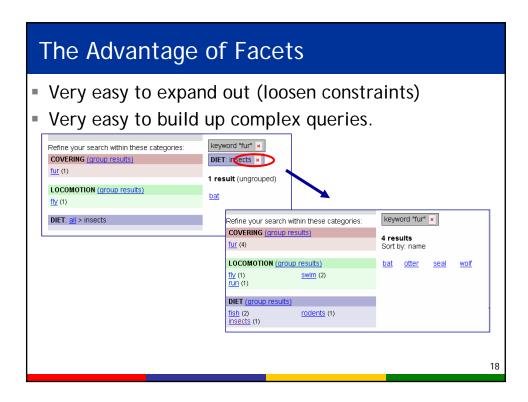




The Advantage of I	Facets	
<ul> <li>Lets the user decide h explore and group.</li> </ul>	now to start, and h	now to
	Refine your search within these categories:	COVERING: fur ×
	COVERING: all > fur LOCOMOTION (group results)	4 results Group by: <u>covering</u> Sort by: name
	fly (1) swim (2) run (1)	<u>bat otter seal wolf</u>
feather (2) fur (4) scales (2)	DIET (group results)	
LOCOMOTION	fish (2) rodents (1) insects (1)	
fly (2)         slither (1)           run (1)         swim (4)	- <u></u>	
DIET	Refine your search within these categorie	s: DIET: fish ×
fish (3) insects (3) rodents (2)	COVERING (group results)	
	feather (1) fur (2)	3 results Group by: diet
	LOCOMOTION (group roculto)	Sort by: name
	LOCOMOTION (group results) swim (3)	otter penguin seal
	DIET: <u>all</u> > fish	
		כו



The Advantage	e of F	acets		
<ul> <li>Seamlessly integrational str</li> </ul>		5	search with	n the
fur     search       C all items     C in current results       Refine your search within these categories:     COVERING (group results)       Coverning (group results)     feather (1)       feather (1)     scales (1)       fur (1)     scales (1)				
LOCOMOTION (group results) IV (2) <u>swim</u> (1) DIET: <u>all</u> > insects	bat robin	salmon Refine your searc COVERING (group fur (1) LOCOMOTION (gr fty (1) DIET: all > insects	roup results)	keyword "fur" × DIET: insects × 1 result (ungrouped) bat
				17



# Advantages of Facets

- Can't end up with empty results sets
   (except with keyword search)
- Helps avoid feelings of being lost.
- Easier to explore the collection.
  - Helps users infer what kinds of things are in the collection.
  - Evokes a feeling of "browsing the shelves"
- Is preferred over standard search for collection browsing in usability studies.
  - (Interface must be designed properly)

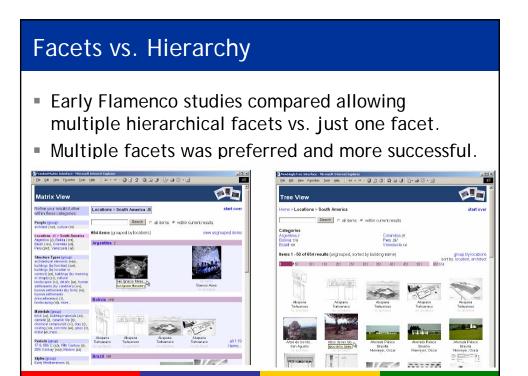
### Advantages of Facets

- Seamless to add new facets and subcategories
- Seamless to add new items.
- Helps with "categorization wars"
  - Don't have to agree exactly where to place something
- Interaction can be implemented using a standard relational database.
- May be easier for automatic categorization

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### Information previews

- Use the metadata to show where to go next
  - More flexible than canned hyperlinks
  - Less complex than full search
- Help users see and return to previous steps
- Reduces mental work
  - Recognition over recall
  - Suggests alternatives
- More clicks are ok only if (J. Spool)
  - The "scent" of the target does not weaken
  - If users feel they are going towards, rather than away, from their target.



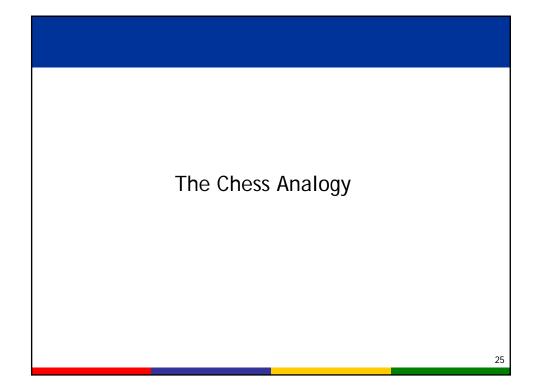
# Limitation of Facets

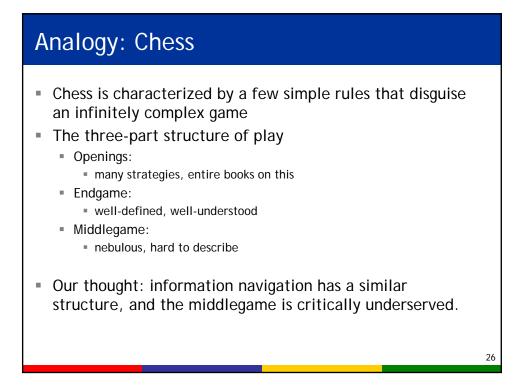
- Do not naturally capture MAIN THEMES
- Facets do not show RELATIONS explicitly

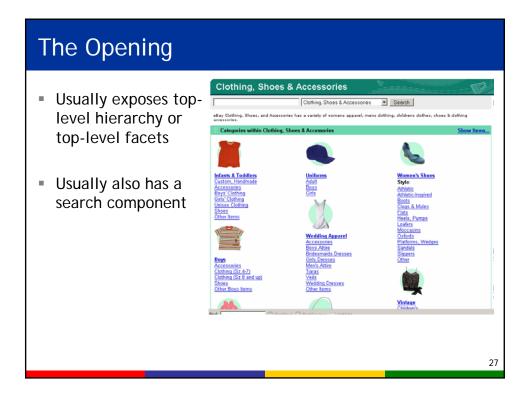


# **Terminology Clarification**

- Facets vs. Attributes
  - Facets are shown independently in the interface
  - Attributes just associated with individual items
    - E.g., ID number, Source, Affiliation
    - However, can always convert an attribute to a facet
- Facets vs. Labels
  - Labels are the names used within facets
  - These are organized into subhierarchies
- Synonyms
  - There should be alternate names for the category labels
  - Currently (in Flamenco) this is done with subcategories
    - E.g., Deer has subcategories "stag", "fawn", "doe"

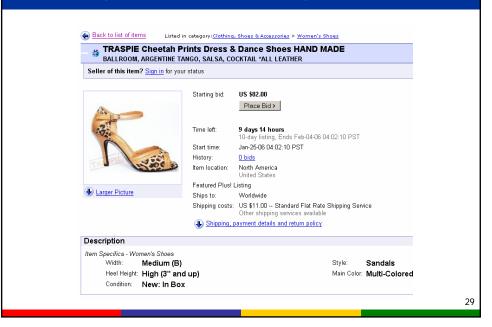


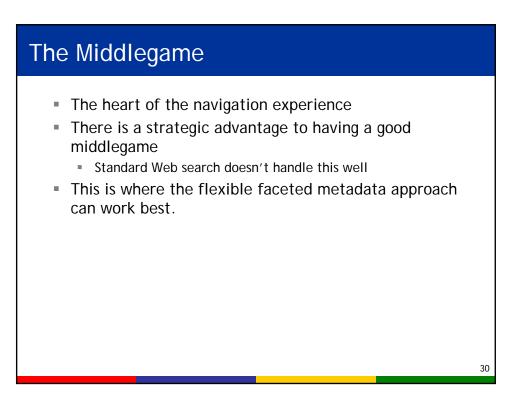


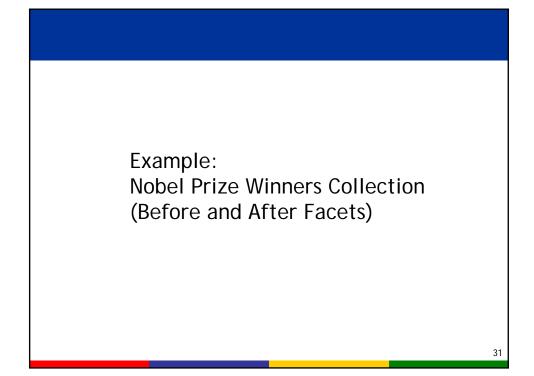


#### The Endgame - Penultimate Pages 170399 items found in Women's Shoes = Add to My Favorite Categories = Sell in this category List View | Picture Gallery Sort by: Time: newly listed Customize Compare Item Title Price\* Shipping to USA (edit) PayPal Bids Time List Featured Ite SEXY CAMEL SUEDE KNEE HIGH WEDGE HEEL SHOES BOOTS 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9 or 10 ~ More colors! D *⊊Buv It Now* \$19.99 \$14.99 Jan-25 Г <mark>₩ Western Boho Leather Butterfly Inlay Cowboy Boots 6</mark> NEW Top grade leather ~High Quality ~Stitched Leather Soles **\$0.99** \$12.50 D Jan-25 <sup>™</sup> ~New! Women's White Champion Shoes SIZE 7 ½ L@@K NRI~ ø **\$0.99** \$10.00 Jan-25 ( S275 New Claudia Ciuti Italy Flamingo NEVIS Slide sz 11 Other SIZES available in our store! ø \$89.99 \$10.00 Jan-25 ( Market Cheetah Prints Dress & Dance Shoes HAND - INCOMPLE Ungetah Prints Dress & Dance Shoes H, MADE S BALLROOM, ARGENTINE TANGO, SALSA, COCKTAIL \*ALL LEATHER \$82.00 \$11.00 Ø Jan-25 ( Wew LUCCHESE TURQUOISE COWBOY BOOTS Womens 7 B \$280 Ø \$26.99 See description Jan-24 2 5 28 -

# The Endgame - Content Pages

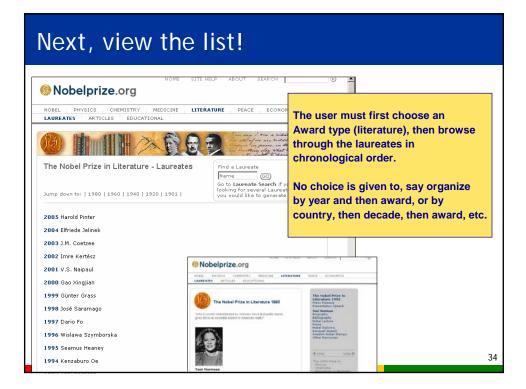


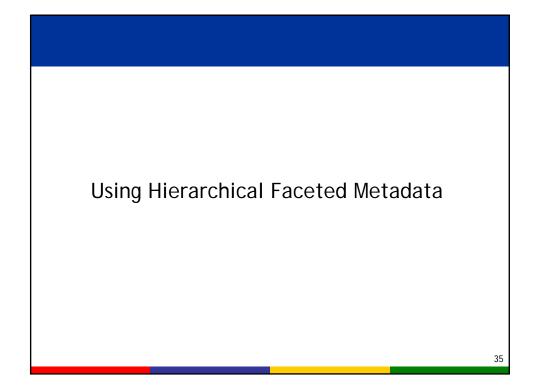












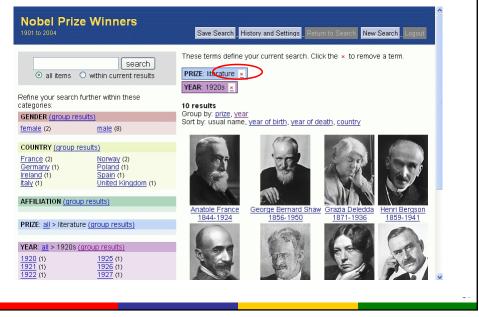
# Opening View Select literature from PRIZE facet

1901 to 2004		Save Se	earch History and S	ettings Return to Search New S	Search Logout
Show tooltip previews o	search f subcategories		e default New Account	Password	Log In
GENDER	-		PRIZE		
female (33)	<u>male</u> (698)		chemistry (138)	<u>medicine</u> (182) <u>peace</u> (108)	
COUNTRY			literature (10)	physics (166)	
Argentina (5) Australia (6) Austria (12) Belgium (11) Burma (1) Canada (9) Chile (2)	China (2) Colombia (1) Costa Rica (1) Czechoslovakia (2) Denmark (13) more		YEAR 1900s (67) 1910s (40) 1920s (54) 1930s (56) 1940s (43) 1950s (72)	<u>1960s</u> (79) <u>1970s</u> (103) <u>1980s</u> (97) <u>1990s</u> (98) <u>2000s</u> (56)	I
AFFILIATION Allied Reparation Commission (1) Argentina (3) Austria (6) Beiglium (7) Berlin University (1) Birland-Kellogg Pact (3)	Brussels (1) Canada (6) Committee for the D National Interests ar International Concilii Consell national économique (1) Costa Rica (1) more	id			



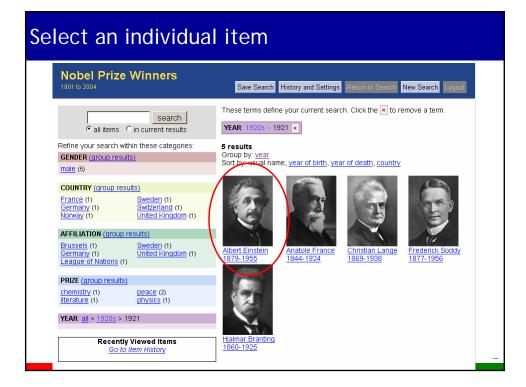
#### Select 1920's from YEAR facet search PRIZE: literature × ● all items ● in current results Refine your search within these categories: 101 items, grouped by YEAR (view ungrouped items) GENDER (group results) 1900s (10) female (10) male (91) COUNTRY (group results) Australia (1) Austria (1) Belgium (1) Chile (2) Colombia (1) Czechoslovakia (1) Denmark (3) Egypt (1) Federal Republic of Germany (2) Finland (1) more ... Bjørnstjerne 1832-1910 Giosuè Carducci 1835-1907 Henryk Sienkiewicz 1846-1916 ne Bjørn.. Frédéric Mi 1830-1914 stral AFFILIATION all 10 items.. PRIZE: all > literature 1910s (9) YEAR <u>1900s</u> (10) <u>1910s</u> (9) <u>1920s</u> (10) <u>1930s</u> (9) <u>1940s</u> (6) <u>1950s</u> (10) 1960s (11) 1970s (11) 1980s (10) 1990s (10) more ... Gerhart Hauptmann 1862-1946 Henrik Pontoppidan 1857-1943 Recently Viewed Items Karl Gjellerup 1857-1919 1845-1924 all 9 items... 1920s (10)

### Current query is PRIZE > literature AND YEAR: 1920's. Now remove PRIZE > literature



#### Now Group By YEAR > 1920's **Nobel Prize Winners** Save Search History and Settings Return to Search New Search Logout These terms define your current search. Click the $\, \star \,$ to remove a term search YEAR: 1920s 👱 results Items 1 to 40 of 54 results Group by: year Sort by: year of birth, year of death, country Refine your search further within these categories: GENDER (group results) 41 female (2) male (52) COUNTRY (group results) Austria (2) Italy (1) Canada (2) Canada (2) Denmark (3) France (8) Norway (4) Poland (1) Spain (1) Germany (11) Ireland (1) more... Anatole France 1844-1924 Archibald V. Hill 1886-1977 Albert Einstein AFFILIATION (group results) Allied Reparation of results) Allied Reparation Dawes Plan (1) Commission (1) Denmark (3) Austria (2) France (6) Berlin University (1) French Briand-Kellogg Parliament (1) Pat (2) more... i mula.



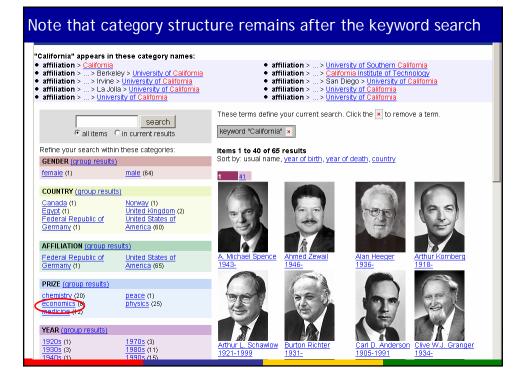


Use Endga	me to expand o	out	
<b>Nob</b> 1901 to 2	pel Prize Winners	Save Item History and Set	ttings Return to S
	Einstein 955 GENDER ohy	ee items in a related category. Find Simila ies information about this item GENDER male (686) COUNTRY Germany (44) Switzerland (27) AFFILIATION Kaiser-Wilhelm-Institut für Ph physics (166) Toole physics (166) Toole 1921 (5) Albert Einstein Albert Einstein Albert Einstein Albert Einstein 1879 1955	F

Use Endgame to e	xpand out
Nobel Prize Winners	Save Search History and Settings Return to Search New Search Logout
It is all items C in current results	These terms define your current search. Click the x to remove a term. PRIZE: physics x
Refine your search within these categories:         GENDER (group results)         female (2)       male (164)	Items 1 to 40 of 166 results Group by: <u>prize</u> Sort by: usual name, <u>year of birth, year of death, country</u>
Countray (group results)           Austria (3)         Germany (11)           Canada (1)         India (1)           China (2)         Ireland (1)           Denmark (3)         Italy (3)           Federal Republic of Germany (10)         more           France (11)         France (11)	
AFFILIATION (group results) Austria (1) Ireland (1) Denmark (3) Italy (2) Federal Republic of Germany (6) Russia (1) France (12) India (1)	Aage N. Bohr 1922-     Abdus Salam 1926-1996     Albert A. Michelson Albert Einstein 1852-1931     Albert A. Michelson Albert Einstein 1879-1955       Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein       Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein       Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein       Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein       Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein       Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein       Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein       Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein       Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein       Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein     Image: Albert A. Michelson Albert Einstein <td< th=""></td<>
PRIZE: all > physics	Aleksandr M. Prokh Alexel A. Abrikosov Alfred Kastler Anthony J. Leggett 1916-2002 1928- 1902-1984 1938-

Nobel Prize Win	ners	Save Item History and Settings Return to Search
Item 1 of 5 (back to results) next		Find Similar Items (4) information about this item GENDER male (698) COUNTRY Semmary (44) Switzerland (27) AFFILIATION Kaiser-Wilhelm-Institut für Physik (2) PPIZE physics (166) YEAR 1921 (6) Albert Einstein 1879 1955

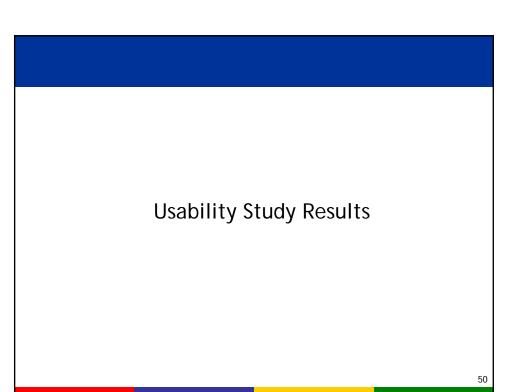
#### Start a new search using keyword "California" **Nobel Prize Winners** Save Search History and Settings Return to Search New Search Logout These terms define your current search. Click the $\mathbf{x}$ to remove a term. California search • all items • in current results COUNTRY: Switzerland × PRIZE: physics 🗙 Refine your search within these categories: GENDER (group results) 4 results Group by: <u>country</u>, <u>prize</u> Sort by: usual name, <u>year of birth</u>, <u>year of death</u>, <u>country</u> male (4) COUNTRY: all > Switzerland AFFILIATION (group results) France (1) Germany (1) Switzerland (2) PRIZE: all > physics ard Gu.. rich Rohrer Alex Mülle 1933-YEAR (group results) 1927-1879-1955 1861-1938 <u>1920s</u> (2) <u>1980s</u> (2) **Recently Viewed Items** Go to Item History



The query is now a keyv	vord ANDed with a facet subhierarchy
Nobel Prize Winners	Save Search History and Settings Return to Search New Search Logout
C all items C in current results Refine your search within these categories: GENDER (group results) male (8)	These terms define your current search. Click the 💌 to remove a term.          keyword "California" ×         PRIZE: economics ×         8 results         Group by: <u>prize</u> Sort by: usual name, year of birth, year of death, country
COUNTRY (group results)         Nonway (1)       United States of America (6)         AFFILIATION (group results)         United States of America (8)         PRIZE: all > economics	A. Michael Spence       Cillye W.J. Granger         Cillye W.J. Granger       Daniel L. McFadden
YEAR (group results)           1980s (1)         2000s (5)           1990s (2)         Recently Viewed Items           Go to Item History	1943-     1934-     1937-     1943-       Image: Second ge A. Akerlor 1940-     Image: Second ge A. Akerlor 1921-2004     Image: Second ge A. Akerlor 1920-2000     Image: Second ge A. Akerlor 1920-2000     Image: Second ge A. Akerlor 1934-     Image: Second ge A. Akerlor 1934- <td< td=""></td<>

# The Challenges

- Users generally do not adopt new search interfaces
- How to show a lot more information without overwhelming or confusing?
  - Most users prefer simplicity unless complexity really makes a difference
  - Small details matter
- Next we describe the design decisions that we have found lead to success.



# Search Usability Design Goals

- 1. Strive for Consistency
- 2. Provide Shortcuts
- 3. Offer Informative Feedback
- 4. Design for Closure
- 5. Provide Simple Error Handling
- 6. Permit Easy Reversal of Actions
- 7. Support User Control
- 8. Reduce Short-term Memory Load

From Shneiderman, Byrd, & Croft, Clarifying Search, DLIB Magazine, Jan 1997. www.dlib.org

Usability Studies

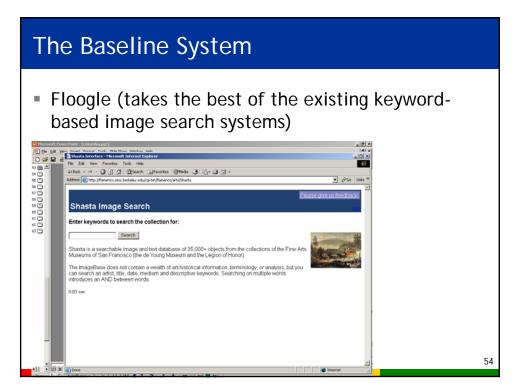
- Usability studies done on 3 collections:
  - Recipes (epicurious): 13,000 items
  - Architecture Images: 40,000 items
  - Fine Arts Images: 35,000 items
- Conclusions:
  - Users like and are successful with the dynamic faceted hierarchical metadata, especially for browsing tasks
  - Very positive results, in contrast with studies on earlier iterations.

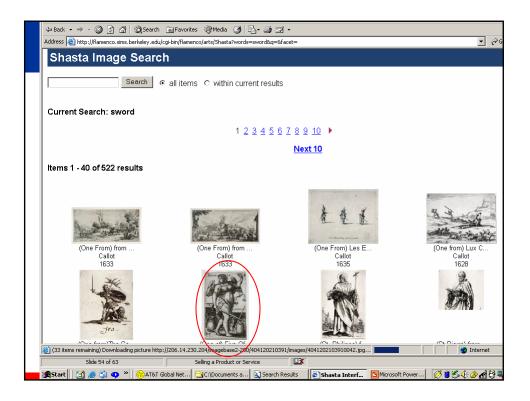
52

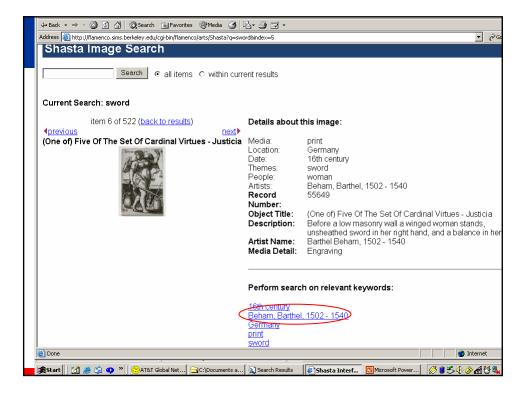
# Most Recent Usability Study

- Participants & Collection
  - 32 Art History Students
  - ~35,000 images from SF Fine Arts Museum
- Study Design
  - Within-subjects
    - Each participant sees both interfaces
    - Balanced in terms of order and tasks
  - Participants assess each interface after use
  - Afterwards they compare them directly
    - Data recorded in behavior logs, server logs, paper-surveys; one or two experienced testers at each trial.

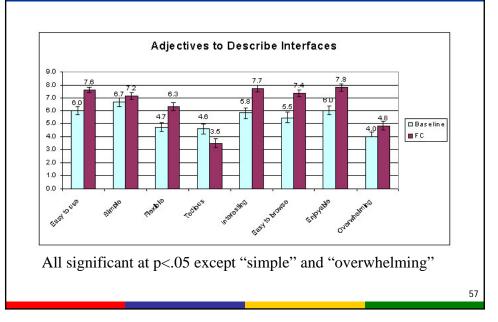
- Used 9 point Likert scales.
- Session took about 1.5 hours; pay was \$15/hour



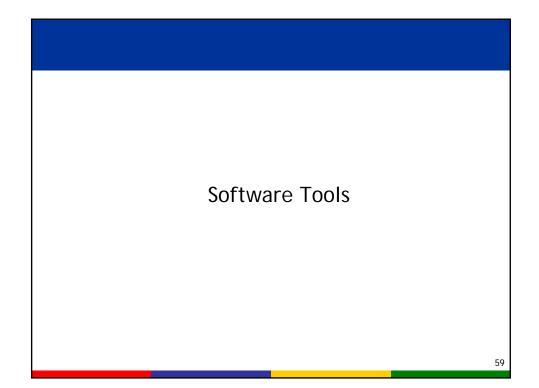


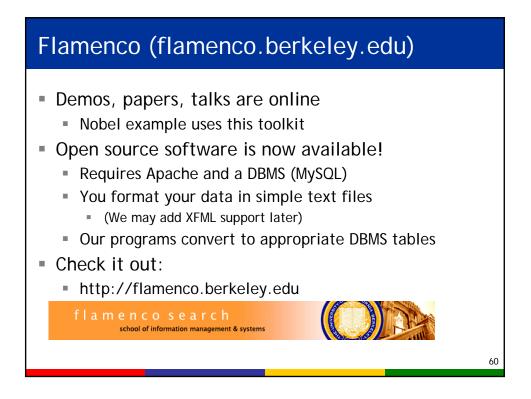






Which Interface Preferable For:	Baseline	Faceted
Find images of roses	15	16
Find all works from a given period	2	30
ind pictures by 2 artists in same media	1	29
<b>Overall Assessment</b>		
More useful for your tasks	4	28
Easiest to use	8	23
Most flexible	6	24
More likely to result in dead ends	28	3
Helped you learn more	1	31
<b>Overall preference</b>	2	29

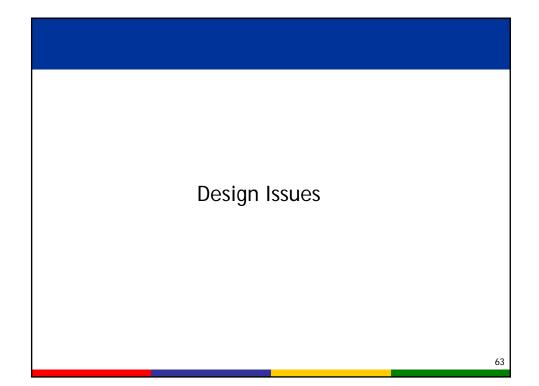


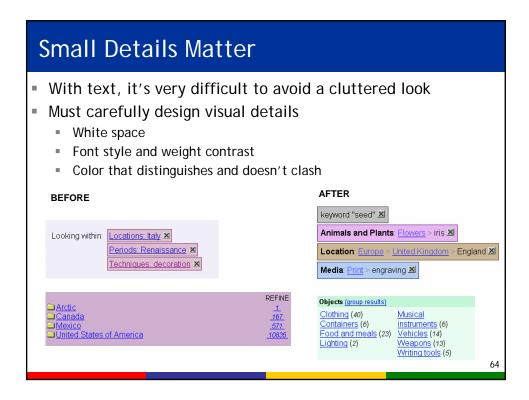


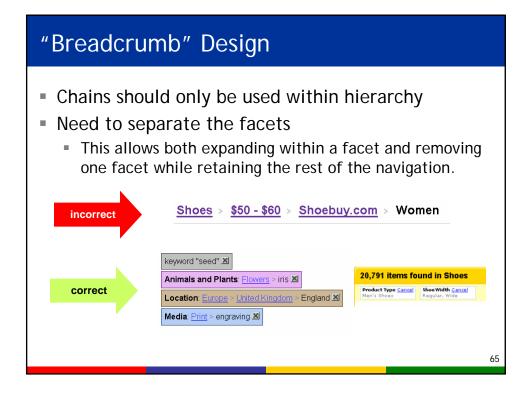
FacetMap (facet	tmap.com)
FacetMap Wine Demo	presented by <u>FacetMap</u>
Instruction	s   Configure   XML
Browse by Varietal Red Wines (171), White Wines (149), Bubbly (40), Pink Wines (30), Dessert/Fortified Wines (41) Browse by Price Inexpensive (under \$20) (237), Mid-priced (\$20-100) (183), Ultra-Classy (over \$100) (11)	Browse by Region French (55), German (6), Italian (67), New Zealand (2), Other European (8), Portuguese (19), South American (4), Spanish (15), USA (255)
You've narrowed your search down to 431 results. Here	e are the top S FacetMap Wine Demo
Turning Leaf 2000 White Zinfandel Stone Creek 2000 White Zinfandel RH Phillips 2000 White Zinfandel Rabbit Ridge 2000 White Zinfandel Montevina 2000 White Zinfandel Mirassou 1999 White Zinfandel Kenwood 2000 White Zinfandel Ivan Tamas 1999 White Zinfandel Petzer 2000 White Zinfandel Buehler 2000 White Zinfandel	Instructions   Configure   XML         You've selected these headings:         > Any Varietal > Red Wines > Cabernet Sauvignon         > Any price > Inexpensive (under \$20)         Browse by Region         Other European (1), South American (1), USA (1)
Beringer 1999 LVS White Zinfandel Beringer 2000 White Zinfandel Beringer 2000 LVS White Zinfandel Bel Arbor 2000 White Zinfandel Bandiera 1999 Vineyard Reserve White Zinfandel Beringer 2000 White Merlot Zaca Mesa 2000 2 Gris	You've narrowed your search down to these 3 results: Alice White 2000 Cabernet Sauvignon Alexander Valey 1999 Cabernet Sauvignon (half-bottle) Alamos 1999 Mendoza Cabernet Sauvignon

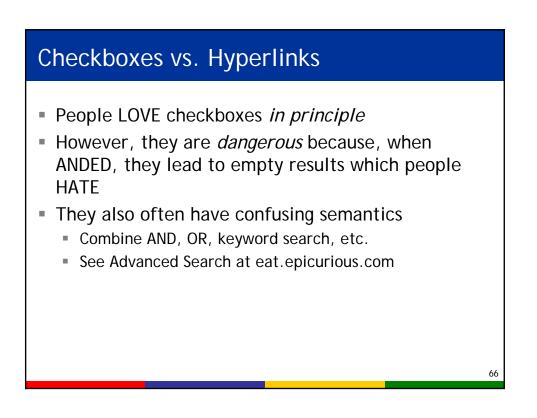
# **Commercial Implementations**

- (Not an exhaustive list)
  - endeca.com
  - siderean.com
  - www.dieselpoint.com
  - www.rawsugar.com

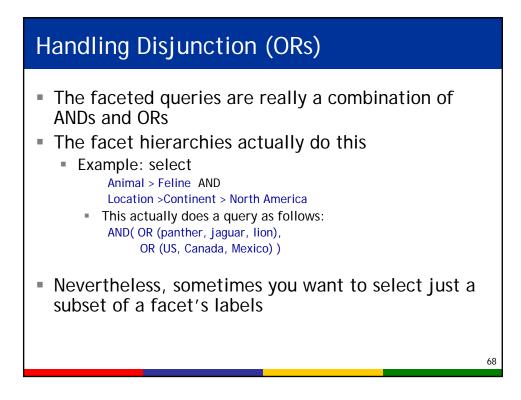








keyword avoca		All 💌			
special considera (about special c					
Low Cal Low Fat Low Carb	Meatless Quick Kid-Friendly	Part of Menu			
course Appetizers		isine Il cuisines	season / all occa		
type of dish	pro	eparation method —	source		
all types		II methods	<ul> <li>all source</li> </ul>	es 💌	
main ingredients					Sorry, your search returned no results for: avocado, Low ( + Low Fat + Appetizers + Lamb + not dairy
E Beans	Duck	Greens	🗆 Pasta	Tomatoes	Perhaps one of the options below can help:
🗖 Beef	🗆 Eggs	Herbs	Peppers	🗖 Turkey	<ul> <li>Try a keyword search (e.g. ham and eggs) in the recipe search box at the top right of the page.</li> </ul>
🗖 Berries	Fish	✓ Lamb	Pork	Vegetables	<ul> <li>Try an advanced search.</li> </ul>
🗖 Cheese	Fruits	Mushrooms	Potatoes	Yogurt	<ul> <li>Browse recipes by category.</li> </ul>
🗖 Chicken	🗖 Game	Mustard	Poultry		See helpful search tips.
🗖 Chocolate	Garlic	Nuts	C Rice		
	-	Olives	Shellfish		
Citrus	🗖 Ginger	Unves	Shellfish		



# Handling Disjunction (ORs)

- Using checkboxes with ORs can work
- However, if allowed everywhere they clutter the screen
- eBay shows how to do it:
  - Focus on one facet
  - Select multiple labels
  - Treat as an OR
  - Won't get empty results

					**	ment By IB
	st day to a job for <mark>FREE.</mark>	monster <sup>.</sup>	Hard to find styles found here! sopphide(4152.0)	Seller	Program fo	
eBay is testing a <u>new wo</u>	<u>x 10 shep</u> — find out more.	Start new search				learch Shoe
20,791 items found	in Shoes					
Product Type Carcel Here's these						
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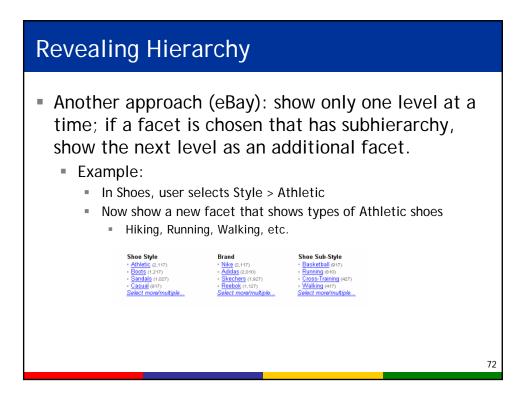
### How many facets?

- Many facets means more choice, but more scanning and more scrolling
- An alternative (by eBay)
  - initially show the few most important facets
  - allow user to choose a label from one
  - then show an additional new facet (next most important)
- The right choice depends on the application
  - Browsing art history vs. shopping

# **Revealing Hierarchy**

 One approach (Flamenco): keep all facets present, show deeper level as you descend.

Date (group results)
15th century (68)         19th century (4465)           16th century (1124)         20th century (967)
Toth century (122)         Zohr century (307)           17th century (2812)         Date unknown (71)           18th century (1382)         Multiple centuries (4079)
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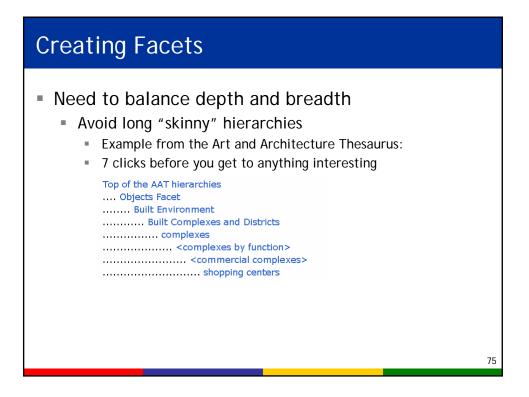
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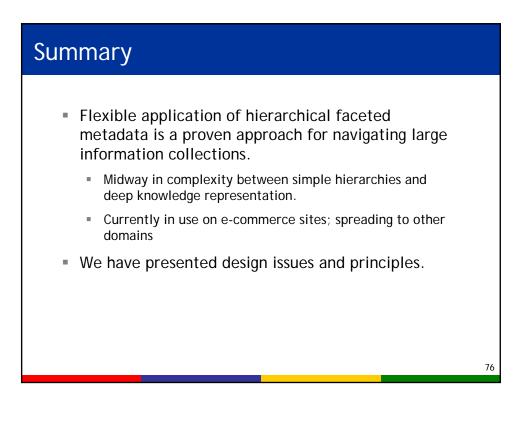
- Make navigation urls consistent and persistent
  - This way the Back button always works
  - Allows for bookmarking of pages

#### **Choosing Labels**

- Labels must be short to fit!
  - Tricky with terminology: "endoplasmic reticulum"
- Labels must be evocative
  - It's very difficult to find successful words
    - Depends on user familiarity with the domain
  - Use card-sorting exercises
  - Associate synonyms with labels
- Beware the context of label use!
  - The "kosher salt" incident

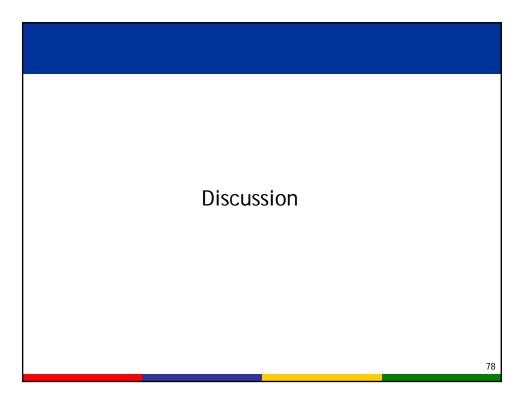
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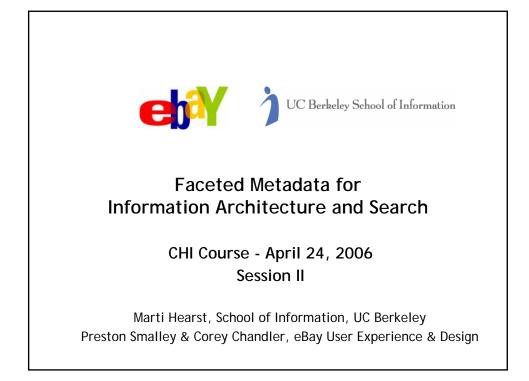




## Session II: Agenda

- Highlights from Session 1 (5 min)
- Interactive exercise (20 min)
- Evolution of IA at eBay (10 min)
- Demo of latest eBay design (5 min)
- Lessons learned at eBay (35 min)
- Discussion and Q&A (15 min)







## Highlights from Session I

### **Terminology Clarification**

- Facets vs. Attributes
  - Facets are shown independently in the interface
  - Attributes just associated with individual items
    - E.g., ID number, Source, Affiliation
    - However, can always convert an attribute to a facet
- Facets vs. Labels
  - Labels are the names used within facets
  - These are organized into subhierarchies
- Synonyms
  - There should be alternate names for the category labels
  - Currently (in Flamenco) this is done with subcategories
    - E.g., Deer has subcategories "stag", "fawn", "doe"

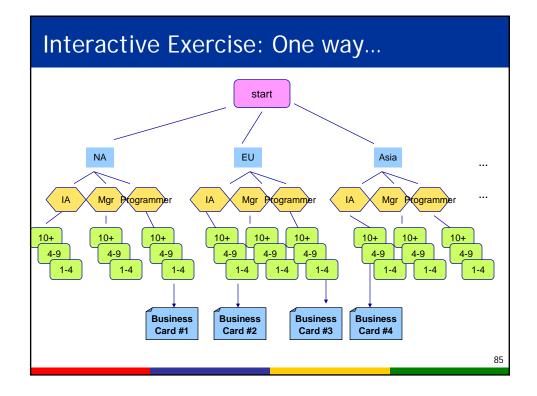
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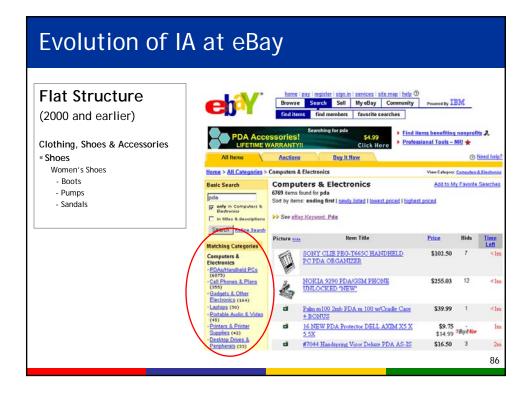
### Interactive Exercise

- Introduce yourself to 4-6 people near you that you don't already know
- Exchange business cards and note:
  - Region they live (e.g. Canada, Western Europe)
  - Role (e.g. Information Architect, User Researcher)
  - Number of years of experience

### Interactive Exercise

 Organize the business cards using a hierarchy assuming you are a talent recruiter in Montreal 83





### Evolution of IA at eBay

# Flat Structure (2000 and earlier)

Shoes

Women's Shoes

BootsPumpsSandals

Clothing, Shoes & Accessories

#### Issues with approach:

Products had to be categorized in just one way.

Ex: Where are all the red Women's shoes?

 Adding more descriptors meant creating a deep and complicated category structure.

87

Ex: Shoes > Women's > Boots > Black > Size 8

Evolution of IA at eBay ne | pay | site ma Sta + Product Facets Buy Sell MyeBay Community Help (2001 - 2005) Hello, yer0cl (Sign out.) ce Rates Bad Gredit Mortgage me Equity Lo Brand Name from \$4.99 Bad Credit Refinance Rates for Jan 9, 2006 Clothing, Shoes & Accessories A Back to Clothing, Shoes & Accessories Ow Shoes All Items Auctions Sign in ( Buy It Now = Women's Shoes ale Chu Search Advanced Search - Style (Boots, Pumps, Sandals...) rch title and - Size (6, 6.5, 7, 7.5...) lated Se nik, nine vest, steve madden, manolo, prada rches i <u>m</u> Nomen's Shoes Find - Color (Black, Red, Tan...) 154560 items found in Women's Shoes = Add to My Favorite C US Size Any - Condition (New, Used...) Sort by: Time: ner Ist View | Picture Gallery Any ٣ Compare Item Title PayPal Bids Price\* × Added Facets (flat) Am ٠ NWT ICON STYLE A SAMPLE LAMBSKI \$59.99 • -GEL SZ 7 ø \$0.99 88

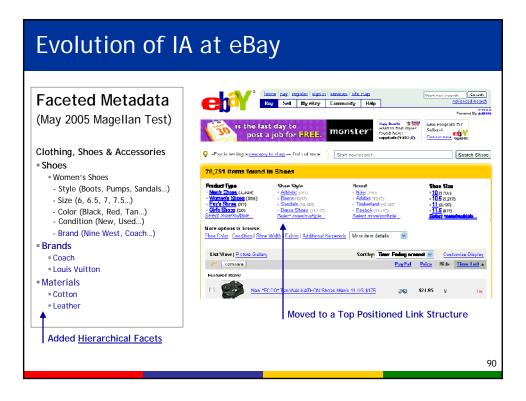
### Evolution of IA at eBay

#### + Product Facets (2001 - 2005)

Clothing, Shoes & Accessories = Shoes

- Women's Shoes
   Style (Boots, Pumps, Sandals...)
   Size (6, 6.5, 7, 7.5...)
   Color (Black, Red, Tan...)
   Condition (New, Used...)
- Issues with approach:Encourages over-constrained queries
  - (Values "ANDED" together)
- Placing facets behind dropdowns reduces the exposure of the values to the user
- Left-Navigation Placement is only used a minority of the time by users
- While effective within a product domain their still is a need for facets above that level

Ex: Everything Coach makes that is Red.



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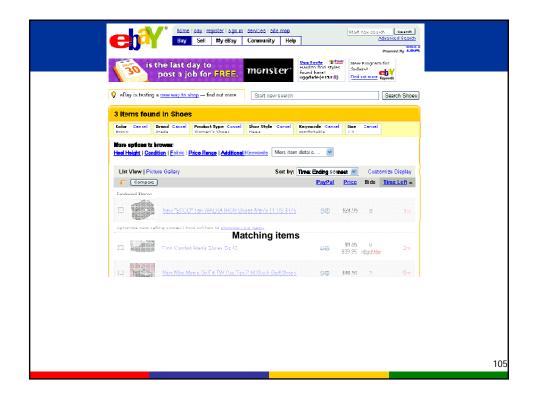
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14 items found in Shoes			
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Hebre   Pincs Hampe   sborging Options   Additional Kaywords       Like Vlow   Picture Gallery     Sort by       Compare     Compare       Harberd Hams     New 'ECCD' Tex W/LUCTHCH Share Iver's 11 US SIZE       Cylomate your colling sortward Rind rule his approximations     Matching item       Image: Pinc Control Mark Share Sails     Pinc Control Mark Share Sails	PayPal E DIB ( IS PID (	Price Bids	Time Laft • Em 2m
Hebre   Pincs Hampe   sborging Options   Additional Kaywords       Lick View   Picture Gallery     Sort by       Compare     Compare       Harberd Hams     New 'ECCD' Tex W/LUCTHCH Share Iver's 11 US SIZE       Cylomate your colling sortward Rind rule his approximations     Matching item       Image: Pion Control Mark Share State     Matching item	PayPal E DIB ( IS PID (	Price Bids	Time Laft • Em 2m





### Methodology

#### Qualitative:

- Rapid Iterative Testing & Evaluation (RITE) Method (2 days testing, 1 day to iterate design)
- n = 48 users (over 9 months)
- 10 versions of the design
- 3 domains: Shoes, TVs, and Collective Glass

#### Quantitative:

A/B Test on the live site for 3 weeks [n = 73k searches in test environment compared to current site]

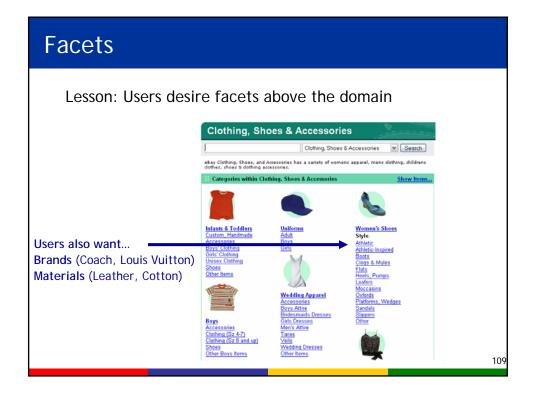
#### Lessons Learned at eBay

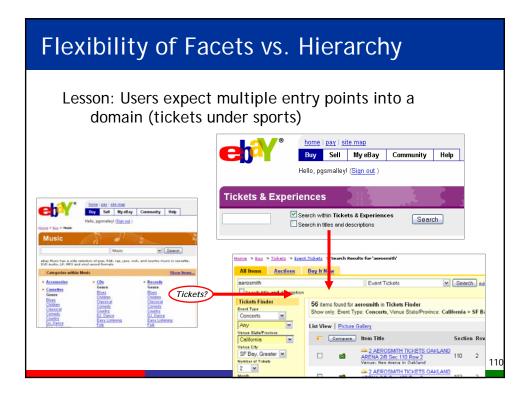
- Data Design
  - Facets
  - Flexibility of Facets vs. Hierarchy
  - Dependencies

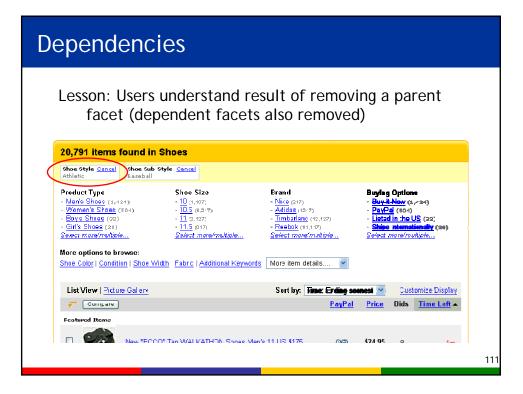
#### Presentation

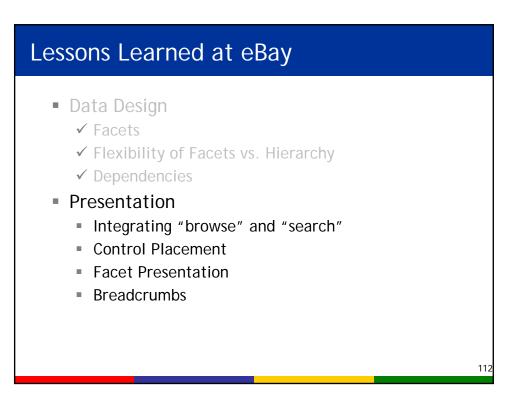
- Integrating "browse" and "search"
- Control Placement
- Facet Presentation
- Breadcrumbs

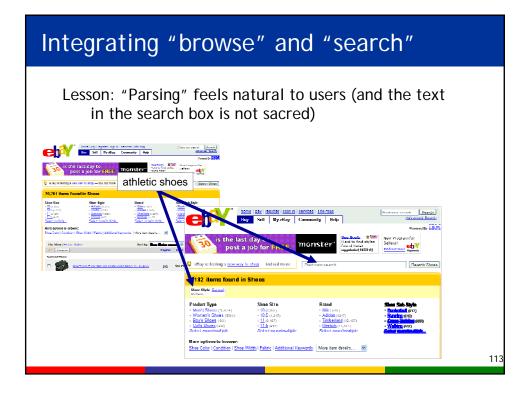
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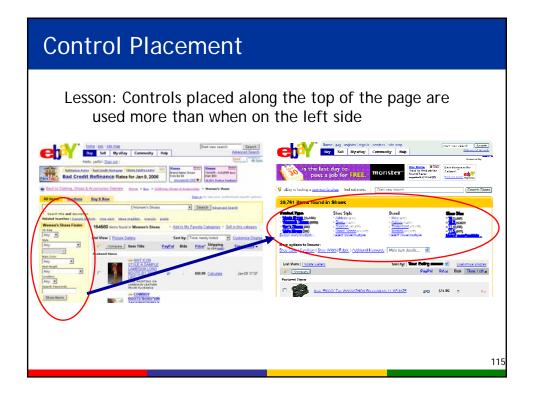


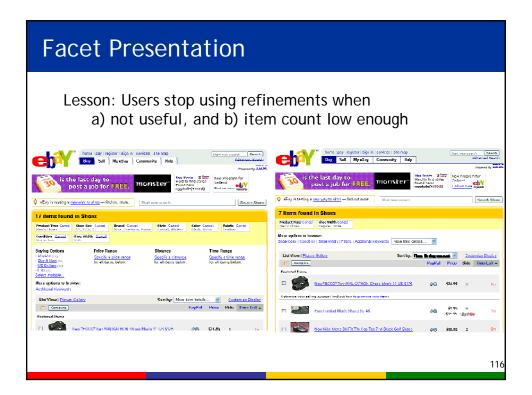




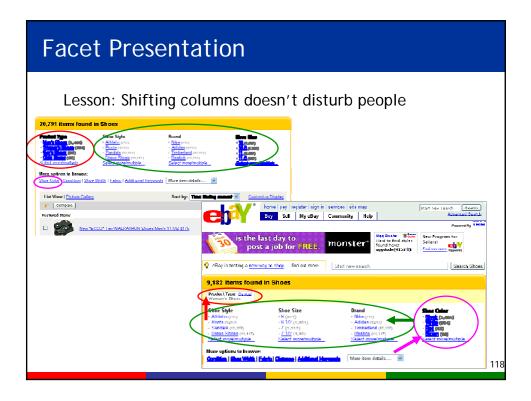


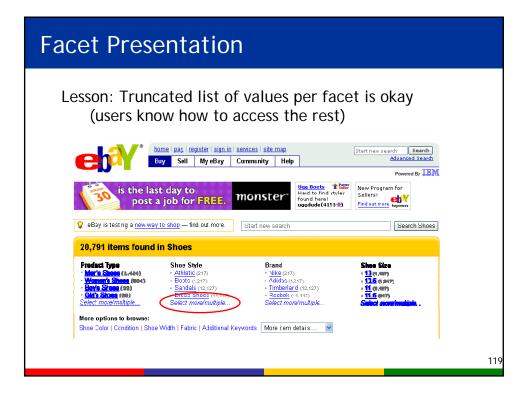






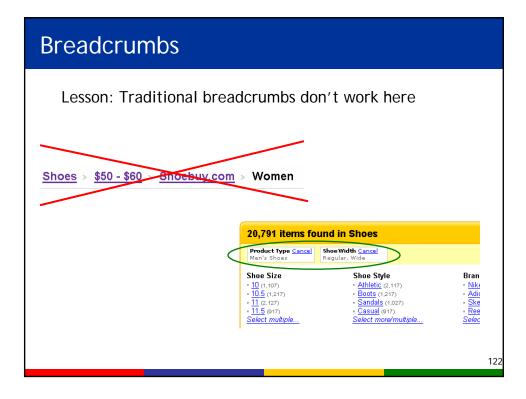
Facet Presentation	
Lesson: Prominently showing 4 facets is sufficient (but prioritization is important)	
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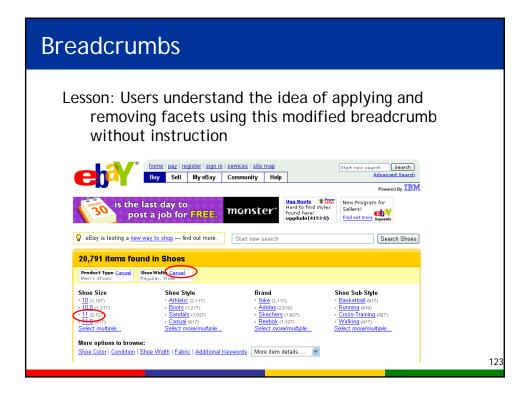


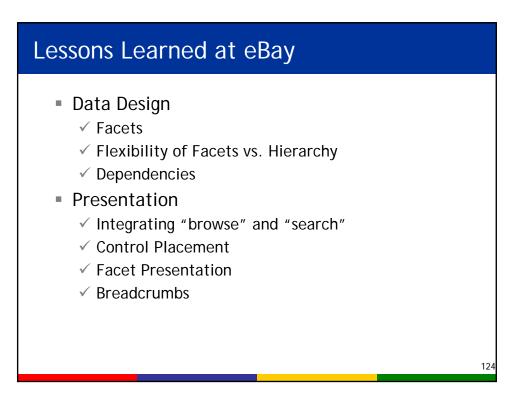




Facet Presentation								
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20,791 items found in Shoes								
Product Type <u>Cancel</u> Men's Shoes								
Timberland (2.007)         Gap (14827)           Reebok (1.917)         Aeroposta           Skechers (1.827)         Puma (1.22)	cpublic         (1,527)         Clarks         (1,0)           )	Adio (755)           Hugo Boss (748)           5)         Hush Puppies (868)           2 (814)         Phat Farm (455)						
		1	21					







#### **Discussion and Q&A**

 Your chance to make a comment on the subject or ask a question of the presenters.

Marti Hearst School of Information UC Berkeley Preston Smalley & Corey Chandler User Experience & Design eBay Marketplaces

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