

## The Problem

Common shopping interfaces rely upon easily quantified filters (color, cost, height, width) that don't exactly match the shoppers goals. ("I want a belt like the one I have, but that is more professional looking.")

This leads the shopper to use the tools to find a subset of products they want to shop, but no way of comparing them as they might in the real world. ("Is this belt more professional looking than this one?")

This "last decision" problem leaves the shopper with the uneasy feeling they may have missed the best possible product in the long list they chose from, giving them two unhappy outcomes - buying a product they aren't sure is exactly what they want, or delaying the purchase and extending the hunt to other outlets.

## A Solution

Once the user has used the big filters to find the subcategory in which they will shop, get them over that last decision point by offering them tools that approximate the criteria they have in their head.

“I like this handbag, but it’s too ‘old lady’”

“I like the cut of this blouse, but it is just a bit too drab.”

“This jacket is good, but too ‘business.’ I want something more fun!”

**Belts**  
◀ View All Handbags & Accessories

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**filter by**

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**Pick Up In-Store** >

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**Special Offers** >

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**Special Size** >

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**Brand** ▾

- Featured Brands**
- Calvin Klein (15)
- INC International Concepts (19)
- Lauren Ralph Lauren (43)
- Michael Kors (31)
- Steve Madden (1)
- Fossil (30)
- Style&co. (47)
- Vince Camuto (10)
- All Brands**

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**Belt Type** ▾

- Casual (6)
- Chain (6)
- Exotic/Embellished (5)

**WANT IT NOW?** **NEW!** buy online **pick up in-store** FIND OUT MORE

**BELTS**

FASHION COMES FULL CIRCLE IN LUSCIOUS LEATHER & TRENDY FINISHES.

196 items in Belts

Sort by: Featured Items Show: 40 items page [1](#) [2](#) [3](#) [4](#) [5](#) ▶

<p style="font-size: 0.8em; margin-top: 5px;">Lauren Ralph Lauren Newbury Saffiano to Smooth Reversible Belt Orig. \$48.00 Was \$33.60 <b>Now \$24.99</b></p>	<p style="font-size: 0.8em; margin-top: 5px;"><b>NEW!</b> INC International Concepts Metallic Stretch Straw Belt \$42.50</p>	<p style="font-size: 0.8em; margin-top: 5px;"><b>NEW!</b> Style&amp;Co. Bamboo Chain Belt \$36.00</p>	<p style="font-size: 0.8em; margin-top: 5px;"><b>NEW!</b> Lauren Ralph Lauren Stretch Toggle Belt \$48.00</p>

Many of the remaining filters (Casual, Exotic) are not really yes/no filters.  
How casual? How exotic?  
Can I get a belt that is very casual and a little exotic? How?

Multi-Dimension Shopping

Multi\_D\_Shopping.graffle | Mon Apr 27 2015

macy's

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**Belts**  
◀ View All Handbags & Accessories

**filter by**

**Pick Up In-Store** >

**Special Offers** >

**Special Size** > **19 items in Belts**

**Brand** >

List Decider

Sort by: **Featured Items** Show: 40 items page 1 2 3 4 5

**Featured Brands**

- Calvin Klein (15)
- INC International Concepts (19)
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**All Brands**

**Belt Type** >

- Casual (6)
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FASHION COMES FULL CIRCLE IN LUSCIOUS LEATHER & TRENDY FINISHES.

Lauren Ralph Lauren Newbury Saffiano to Smooth Reversible Belt  
Orig. \$48.00  
Was \$33.60  
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NEW! INC International Concepts Metallic Stretch Straw Belt  
\$42.50

NEW! Style&Co. Bamboo Chain Belt  
\$36.00

NEW! Lauren Ralph Lauren Stretch Toggle Belt  
\$48.00

For those who are 'just looking' we keep the list model.  
For those 'on the hunt' we can offer an alternative to help them not only decide, but to be happy with their decision.

# A New Interface with 3 Dimensions

**19 items in Belts**

List Decider

Sort by: Featured It

page 1 2 3 4 5

Icon Size Control

Welcome to the Decider

We know how difficult it is to decide between so many items, so we've created this tool to help you decide.

Use the first control, to the left, to sort items vertically on the criteria you choose.

Then use the control just below to choose how to sort items horizontally.

If you still can't decide, use the icon size tool in the upper right to choose a third criteria.

10 items

3 items

^ Vertical Sort

> Horizontal Sort

Once the user has used the large filters to get a set of products, we should offer them an ALTERNATIVE interface that lets them input their deciding criteria and build a scatter plot of products to help them decide.

Y = Maturity



19 items in Belts

List Decider

Sort by: Featured Items Show: 40 items page 1 2 3 4 5

More Professional

10 items

3 items

> More Mature

> Winter Style



Z = Casual / Professional

X = Winter Style



In this case, the shopper is looking for price/quality (using Customer Review as a proxy for quality)

The third criteria "Professional" determines the iconsize of the item.

The more professional, the bigger the icon.

Note this is an alternative interface to the traditional list. It is most useful when there are a small group of items that the user is considering and needs tools to decide.

19 items in Belts

List Decider

Sort by: Featured Items Show: 40 items page 1 2 3 4 5

More Professional

Y = Price

Z = Casual / Professional

X = User Review

10 items

3 items

> Price

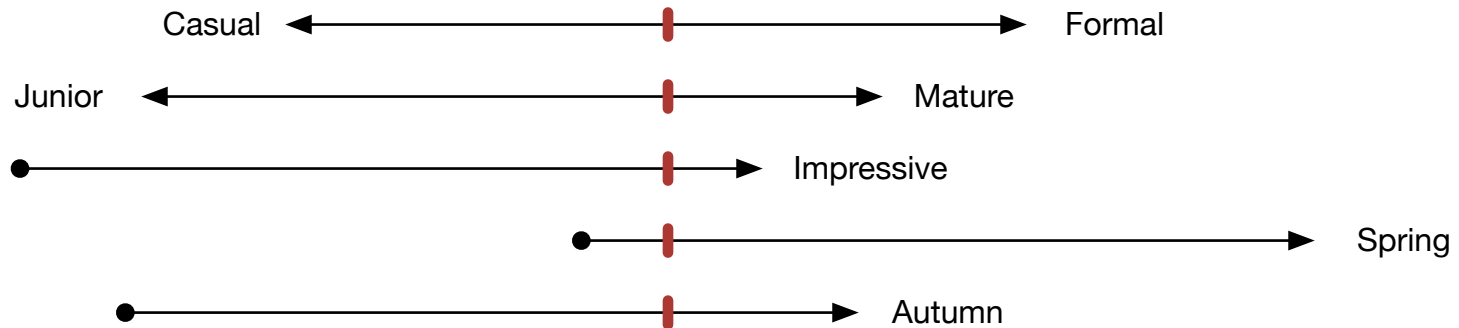
> Customer Review

The underlying numbers don't have to be displayed as they are relative scores. As long as the number distinguishes between products, it is sufficient to move an icon representing an item up/down/left/right.



**NEW!** INC International Concepts Metallic Stretch Straw Belt

\$42.50

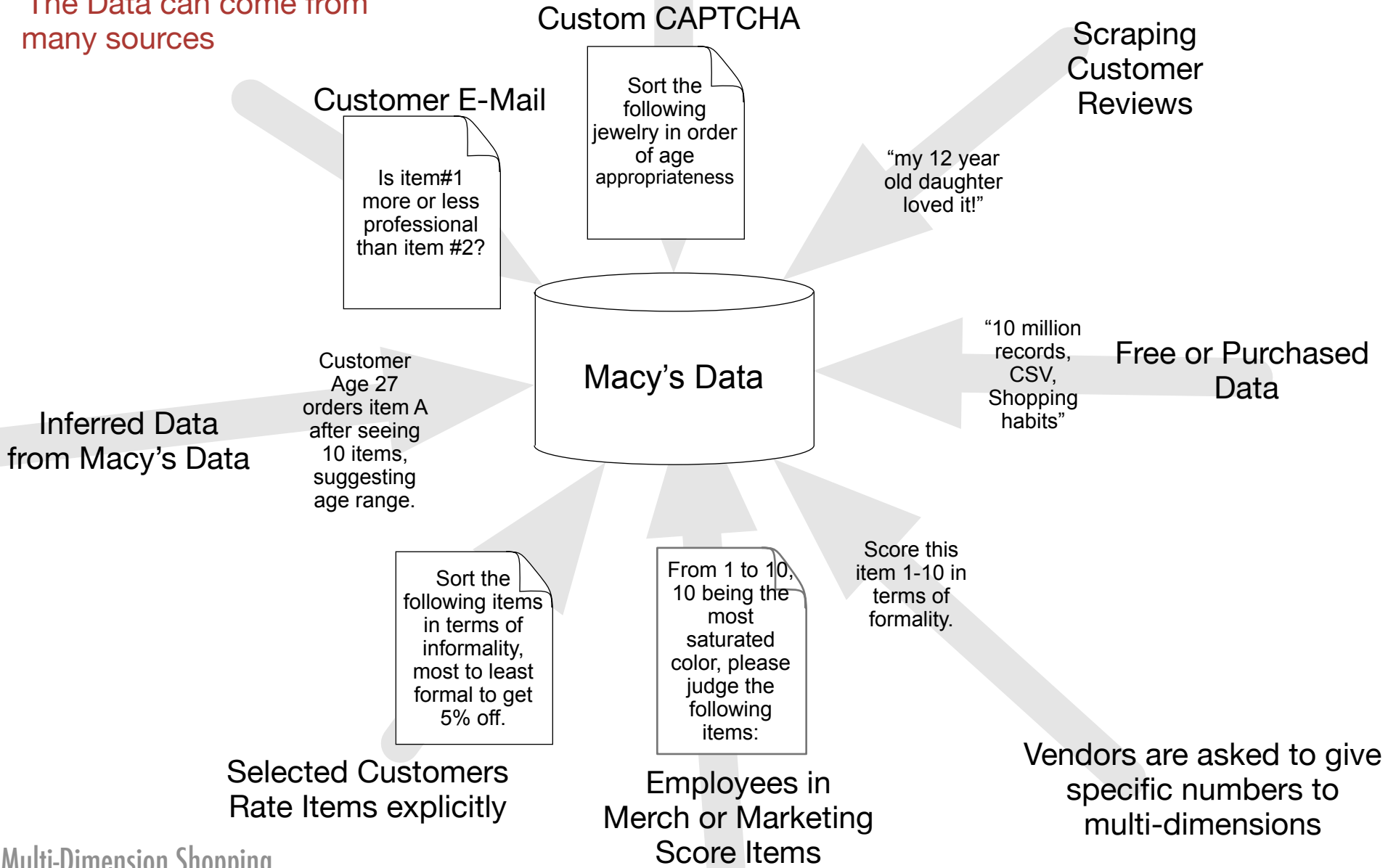


Each item would have carefully chosen criteria, criteria that match the shopper's wants. Those criteria would be represented by a score, and the spectrum that the score represents would be a choice exposed to the shopper as controls for vertical sort, horizontal sort and icon size sort.



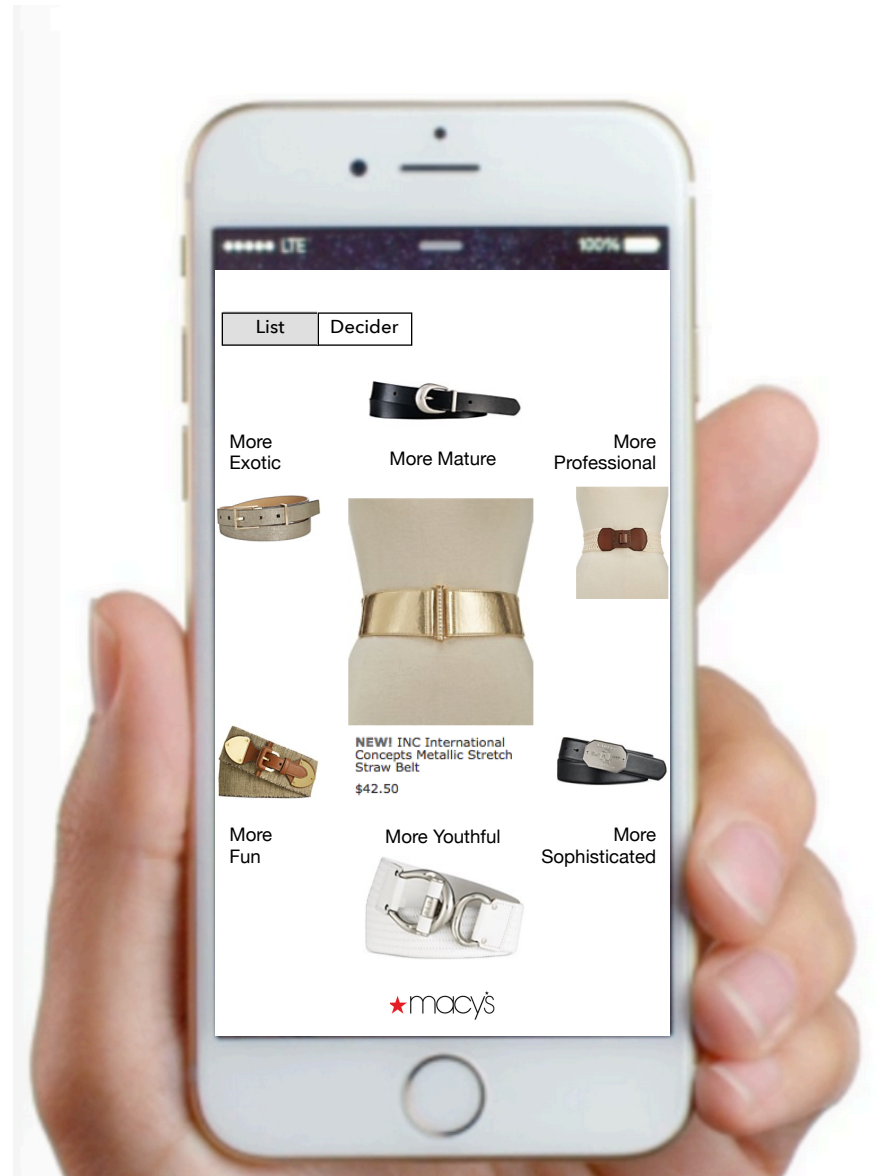
# Where does this data come from?

The Data can come from many sources



# Multi-Dimensional MOBILE Shopping

Multi-Dimensional shopping really comes into it's own on mobile!



## Multi-Dimension Shopping