

# Assignment

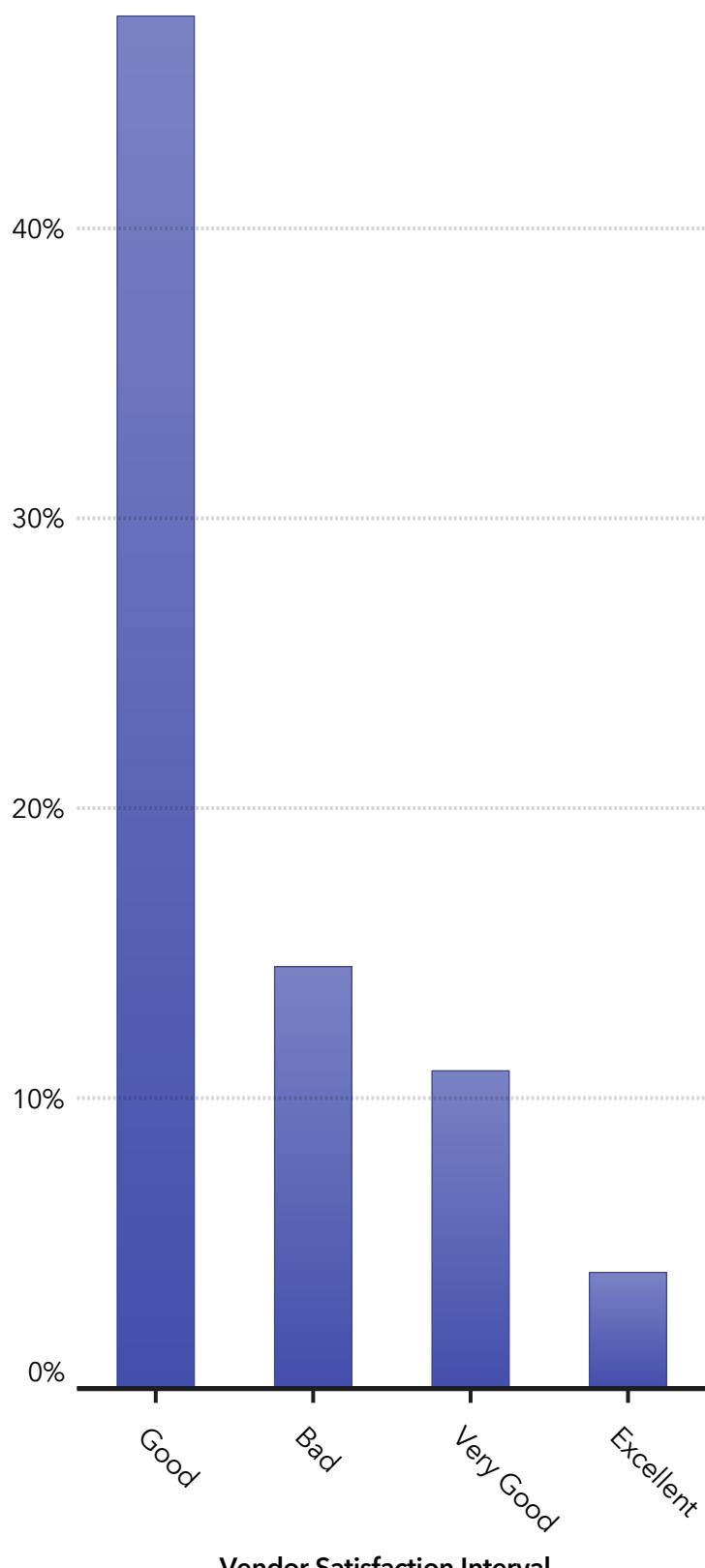
Creation Date: Thursday, December 12, 2024 11:06:21 PM

Author: Alamgir Hossain

## DP6\_Custom category

**Vendor Satisfaction (millions)**

50%



Frequency Percent of Vendor Satisfaction Interval

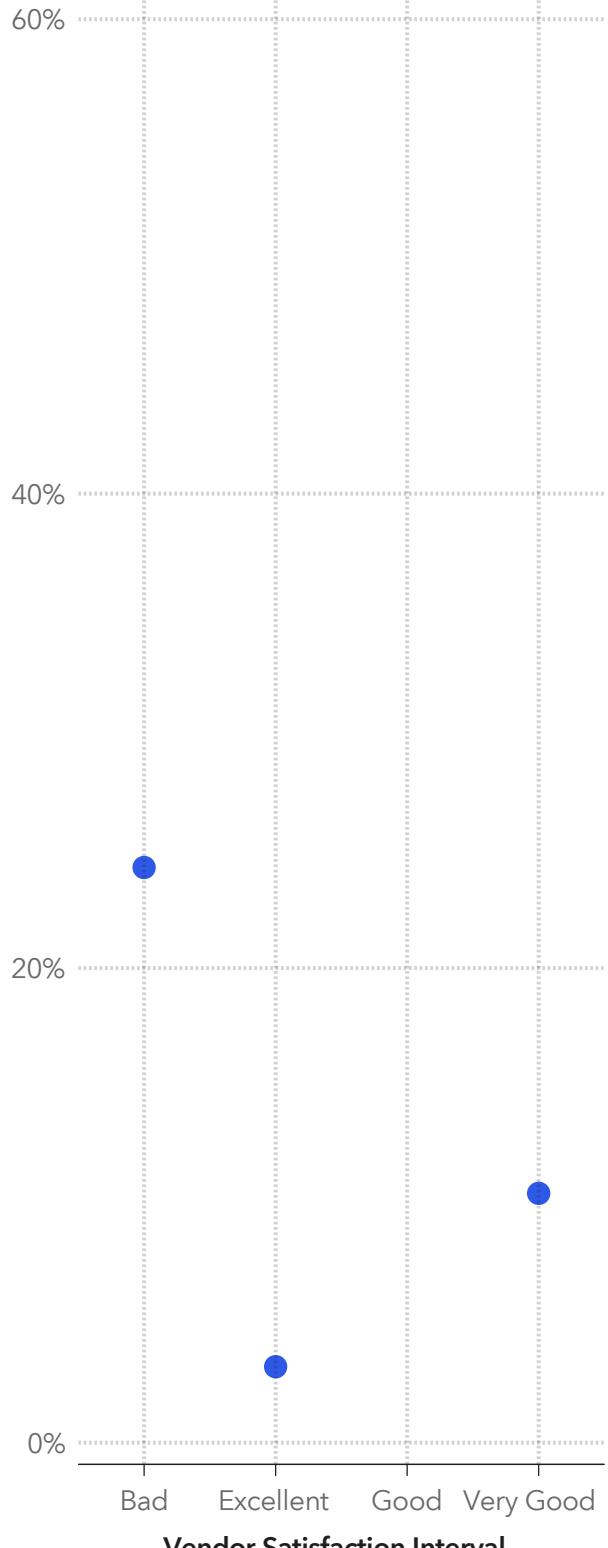
**Frequency Percent**

60%

40%

20%

0%



**Vendor Satisfaction Interval**

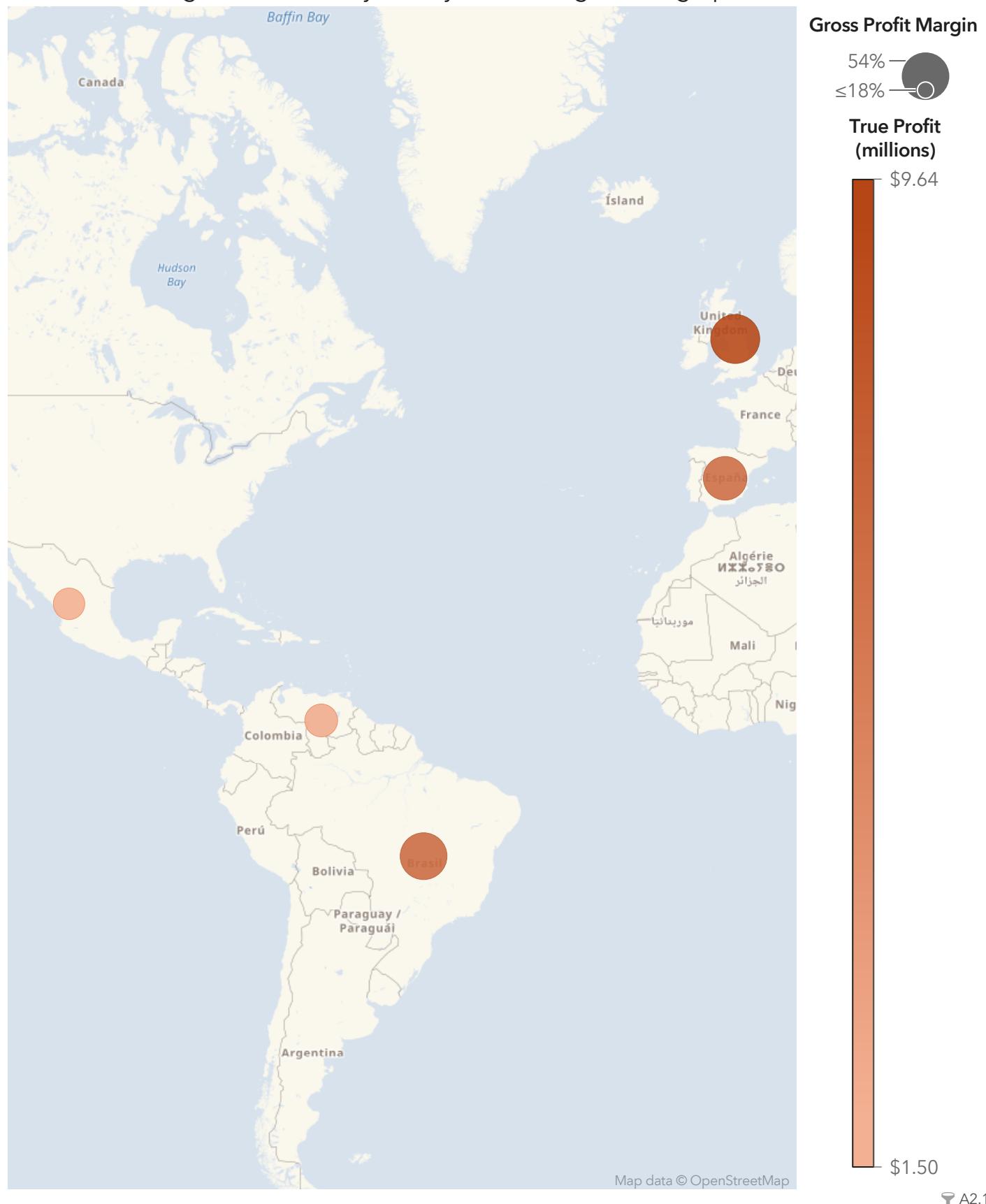
⌚ A1.2

**Vendor Satisfaction Interval**

⌚ A1.3

# DE1\_Top 5 Countries by Gross Profit Margin

Gross Profit Margin, True Profit by Facility Country/Region Geographic



## DE2\_Countries by AVG Sales Rep%

### Countries by AVG Sales Rep%



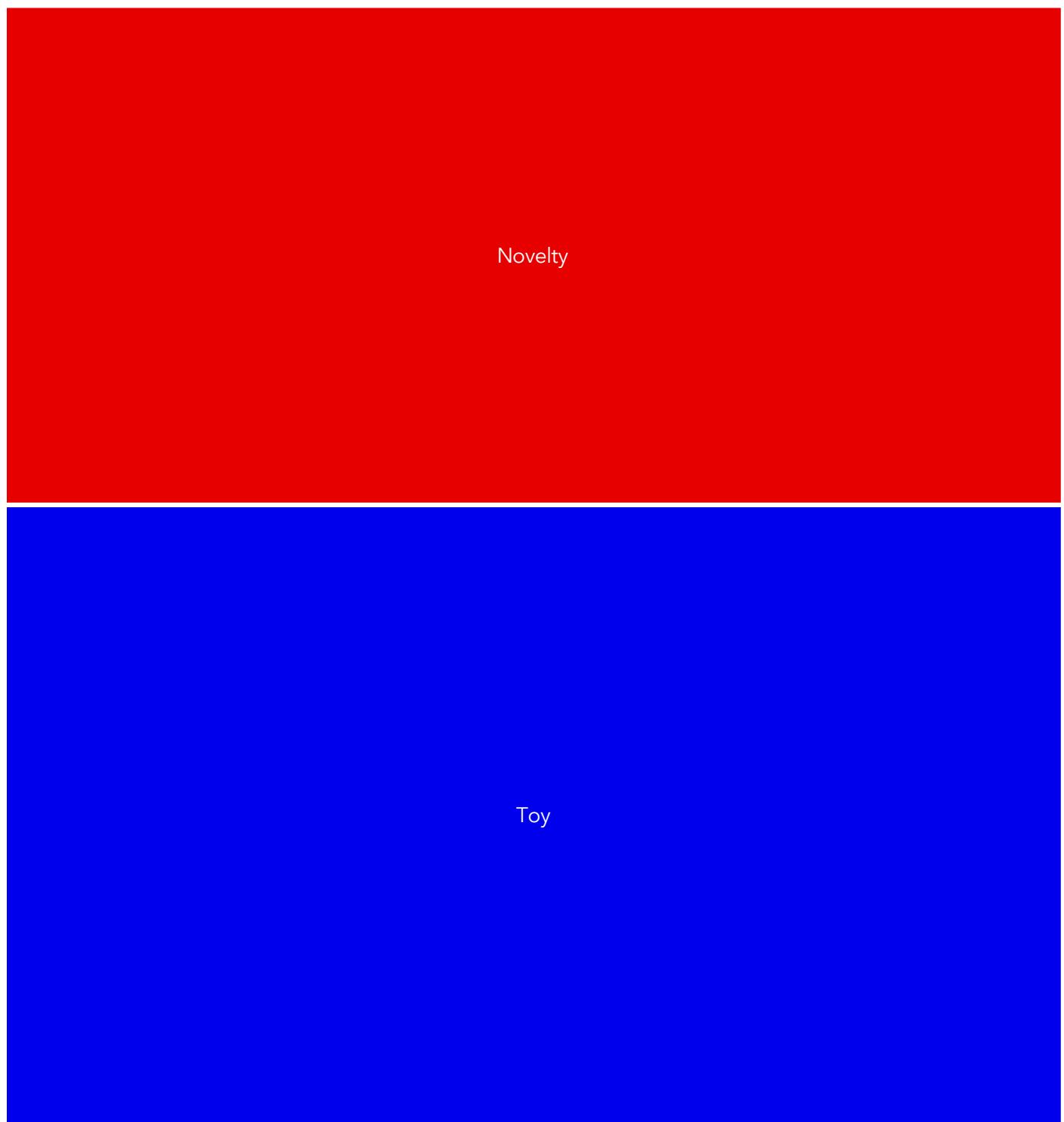
Sales Rep Rating (million+)

A3.1

# DE3\_Treemap for Product Brand

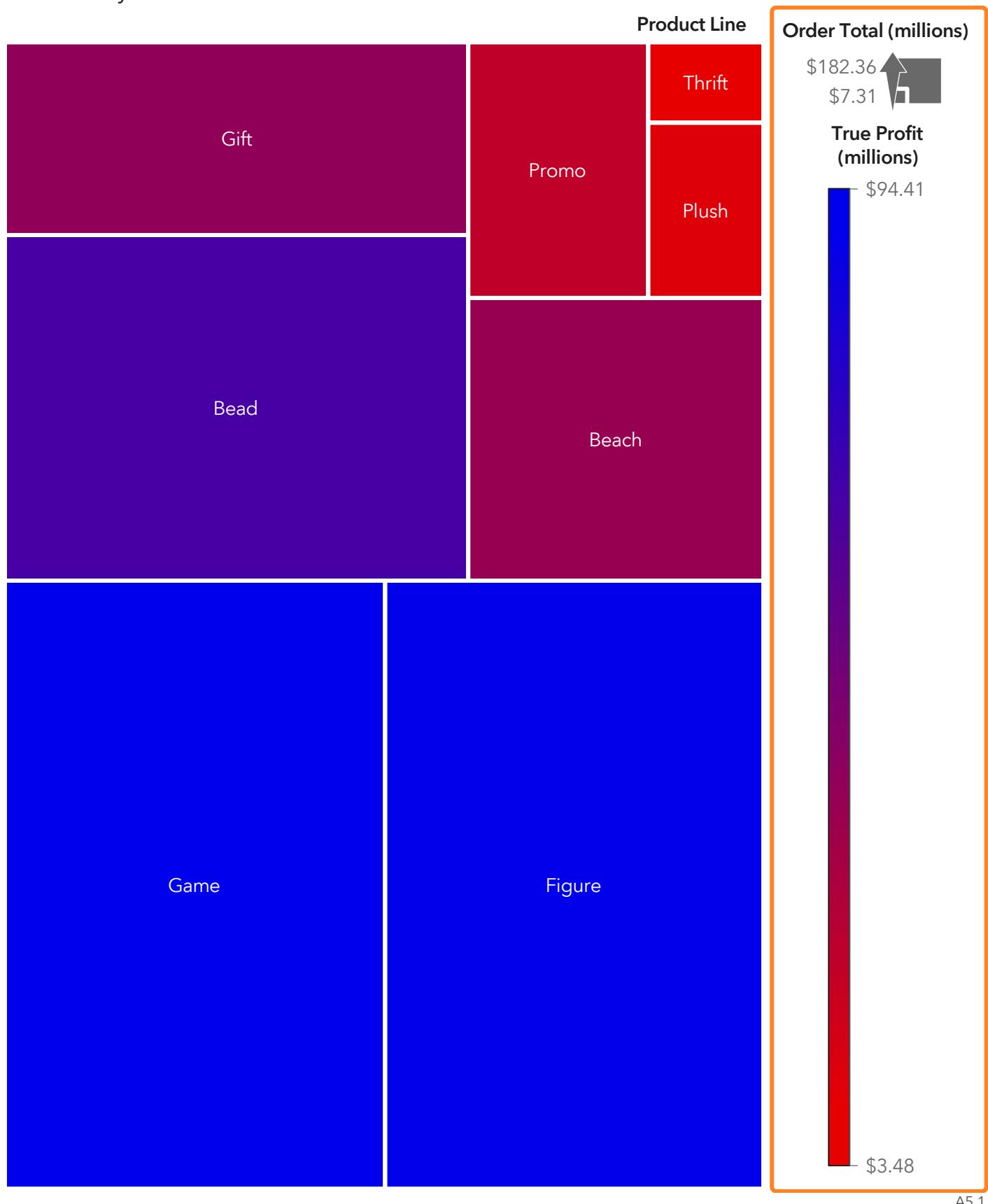
Measure by True profit

Product Brand



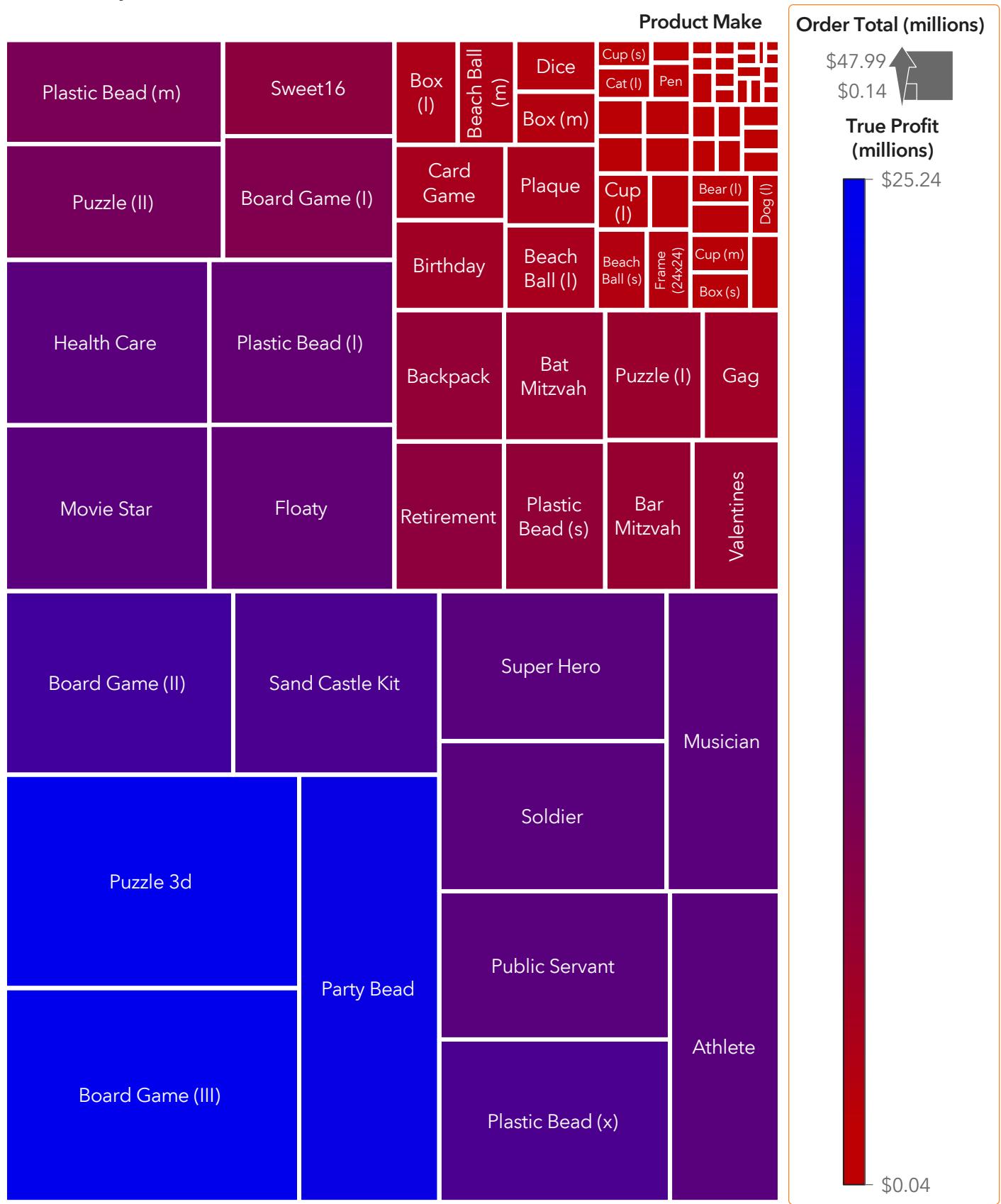
# DE3\_Treemap for Product Line

Measure by True Profit



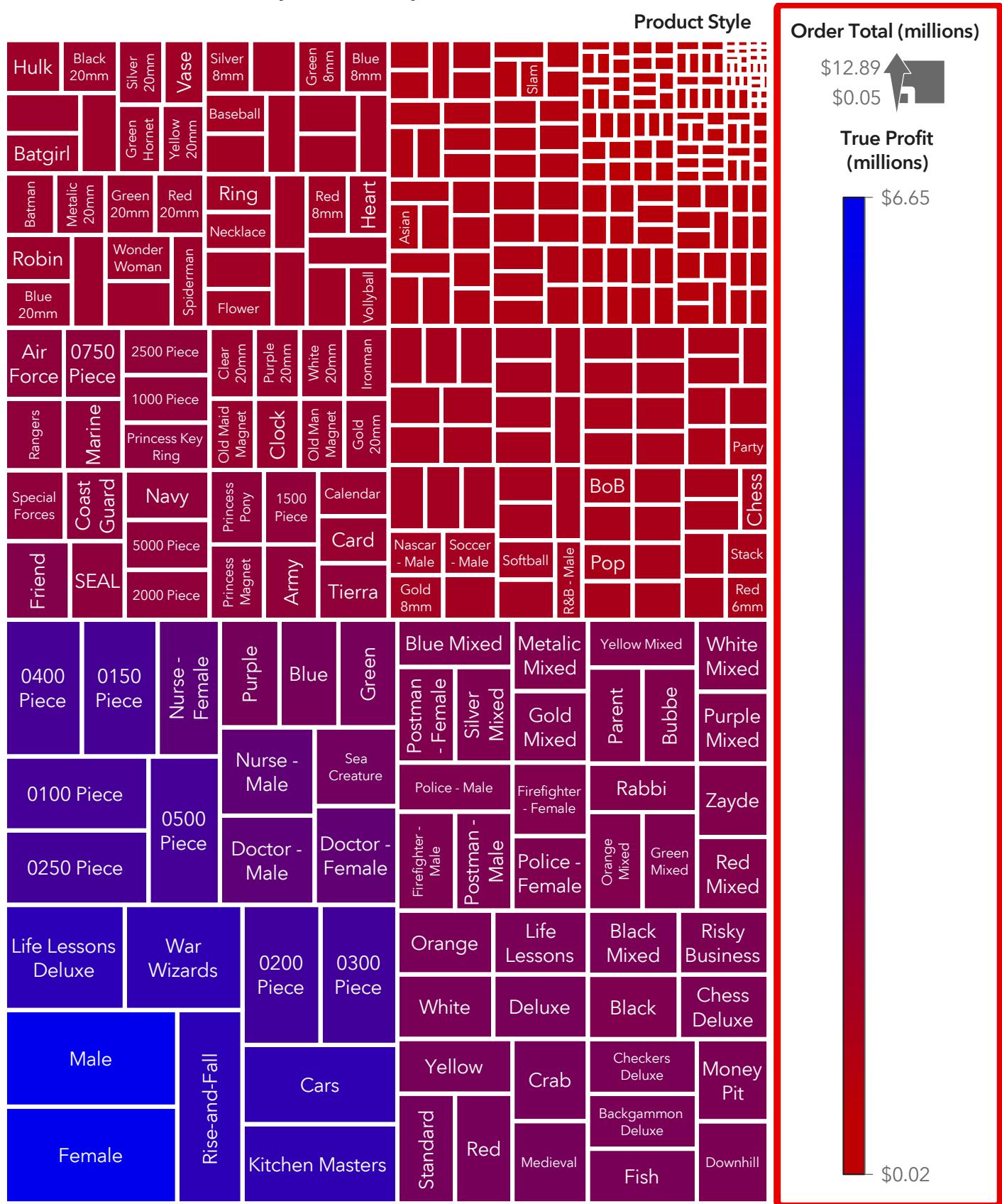
# DE3\_Treemap for Product Make

Measure by True Profit



## DE3\_Treemap for Product style

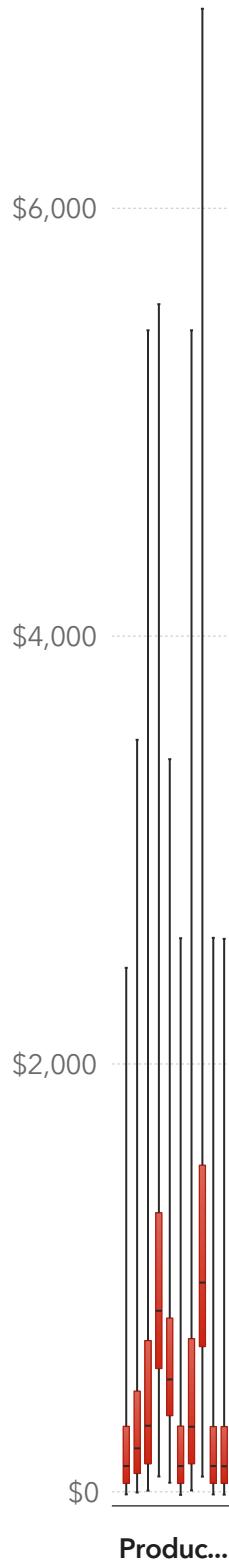
## Order Total, True Profit by Product Style



## DE4\_Promo Line Outliers by True Profit

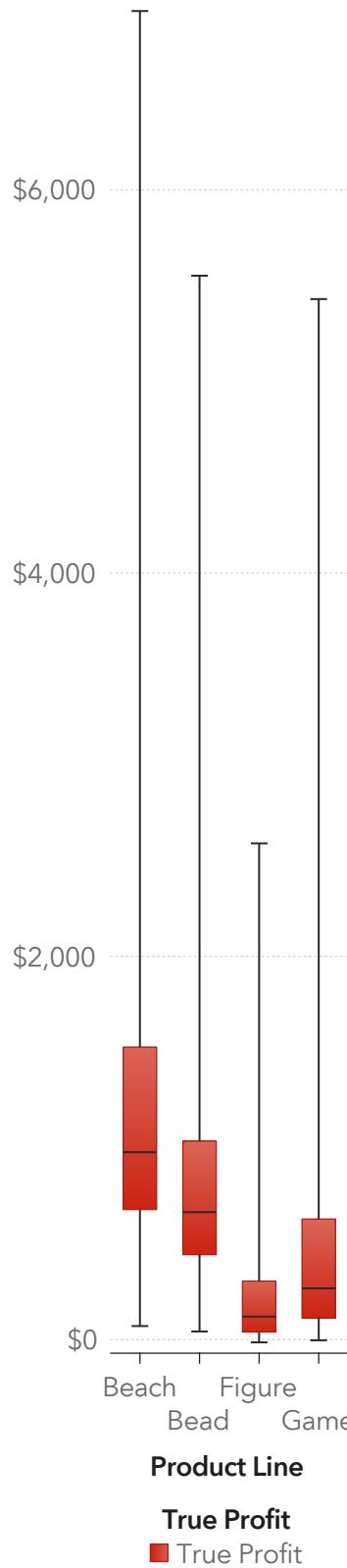
Measure by True profit

True Profit



Measure by True profit

True Profit

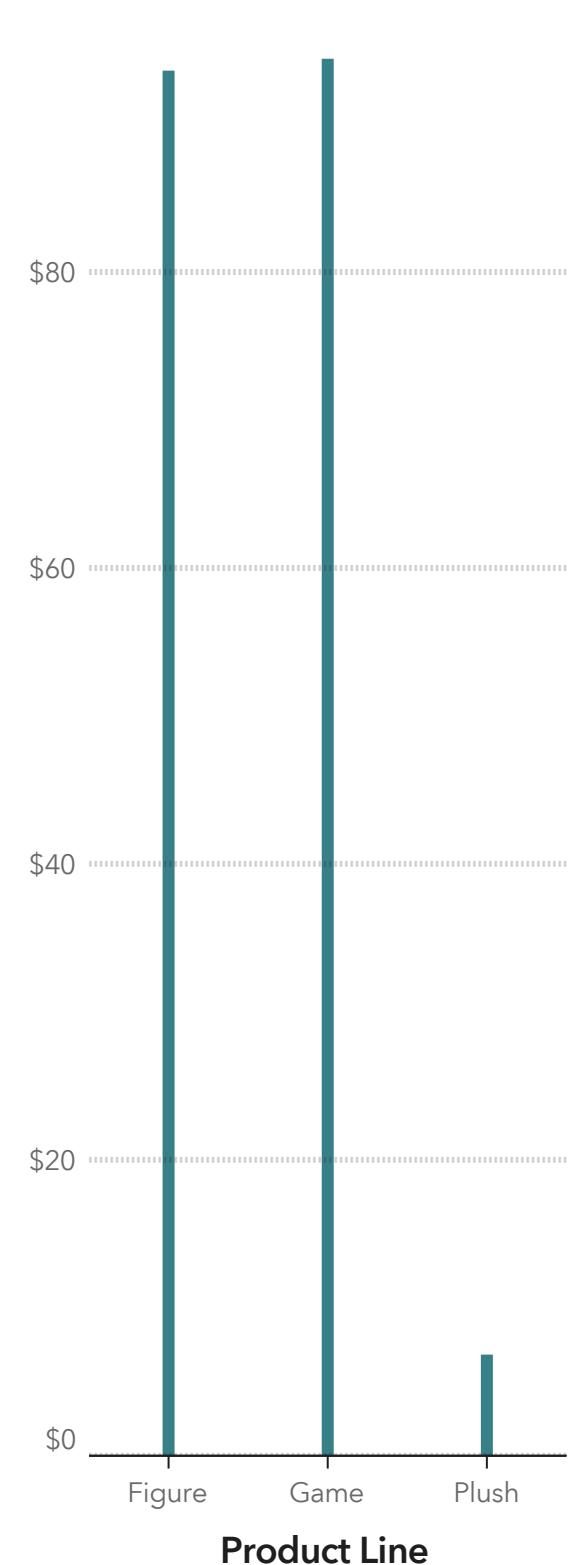


True Profit by Product Hierarchy

Product Hierarchy > Toy ▼

True Profit (millions)

\$100



A8.1

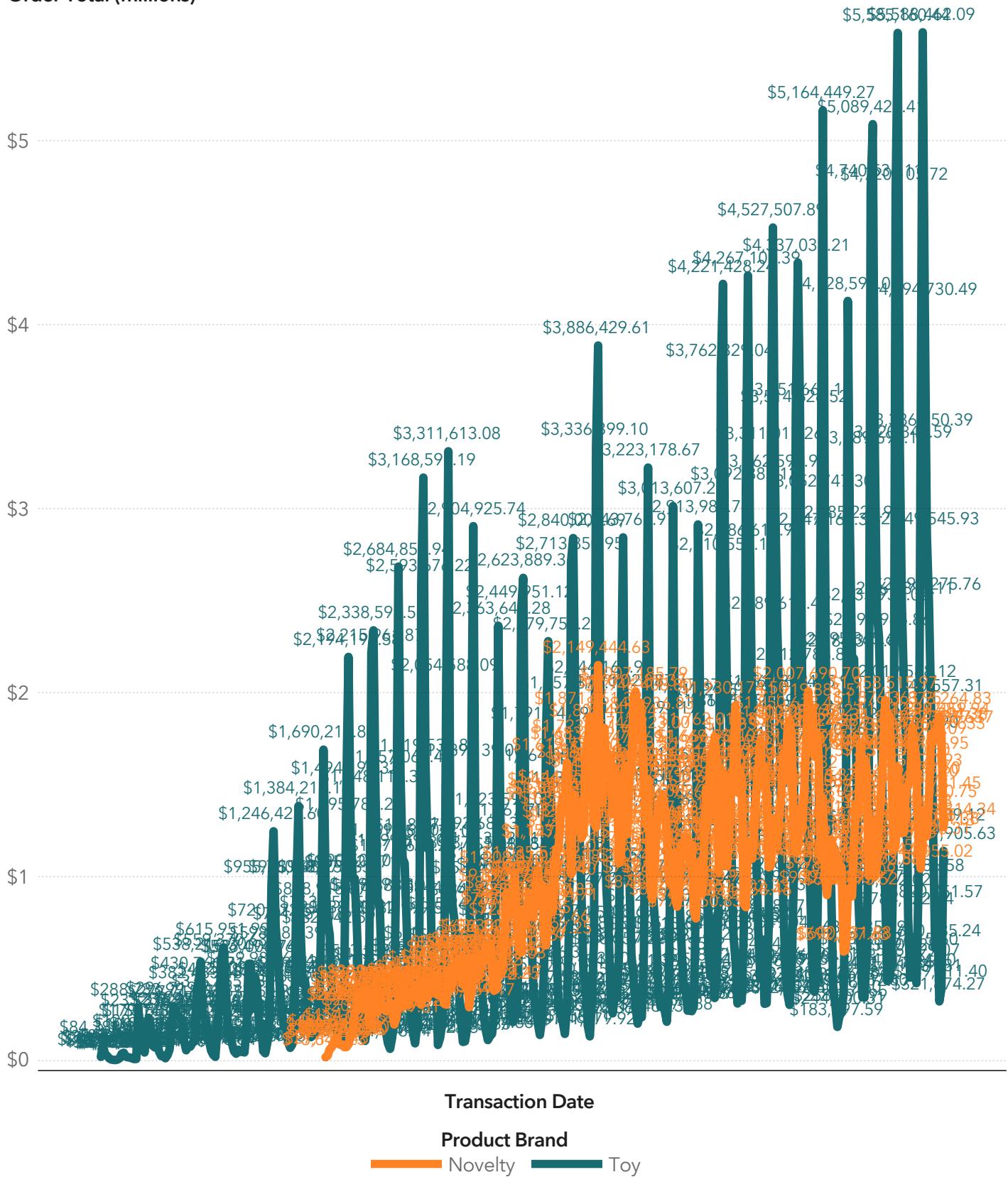
A8.2

A8.3

## DE5\_Sales Comparison between Toy and Novelty Brands

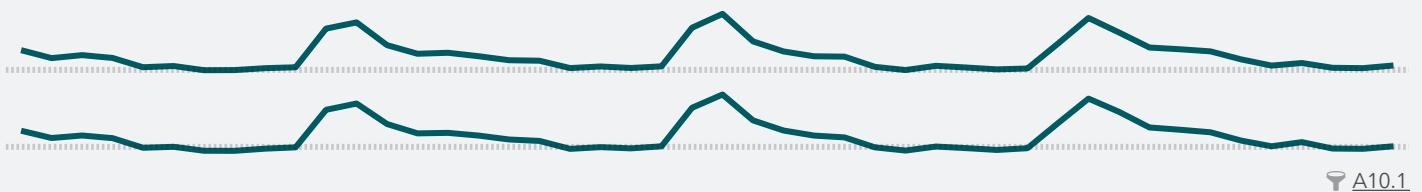
## Measure by Facility Date

## Order Total (millions)

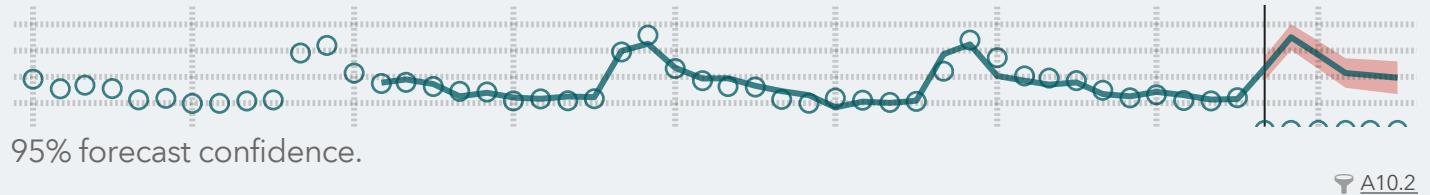


# Analysis\_DA1

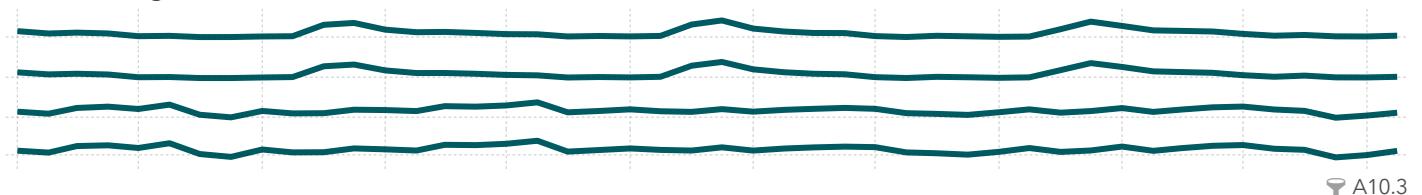
## Order Total, Order Product Cost by Transaction Date



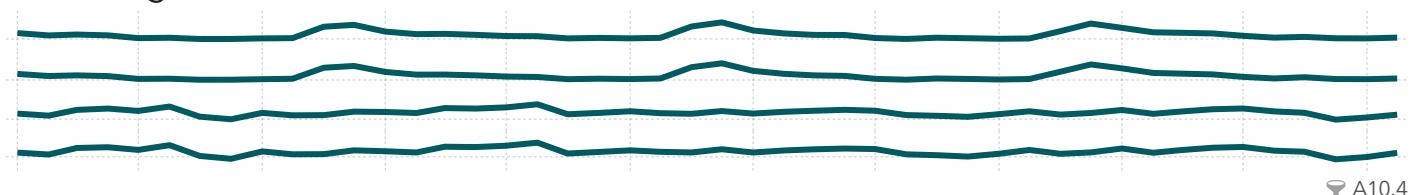
## Forecasting Order Total



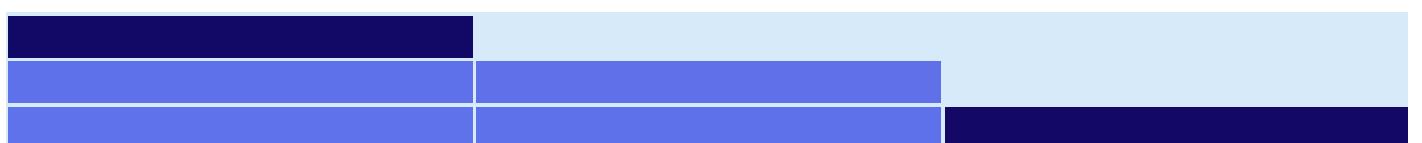
## Linear Regression model 1



## Linear Regression model 2



Correlation between Dependent and independent variables with increased product cost

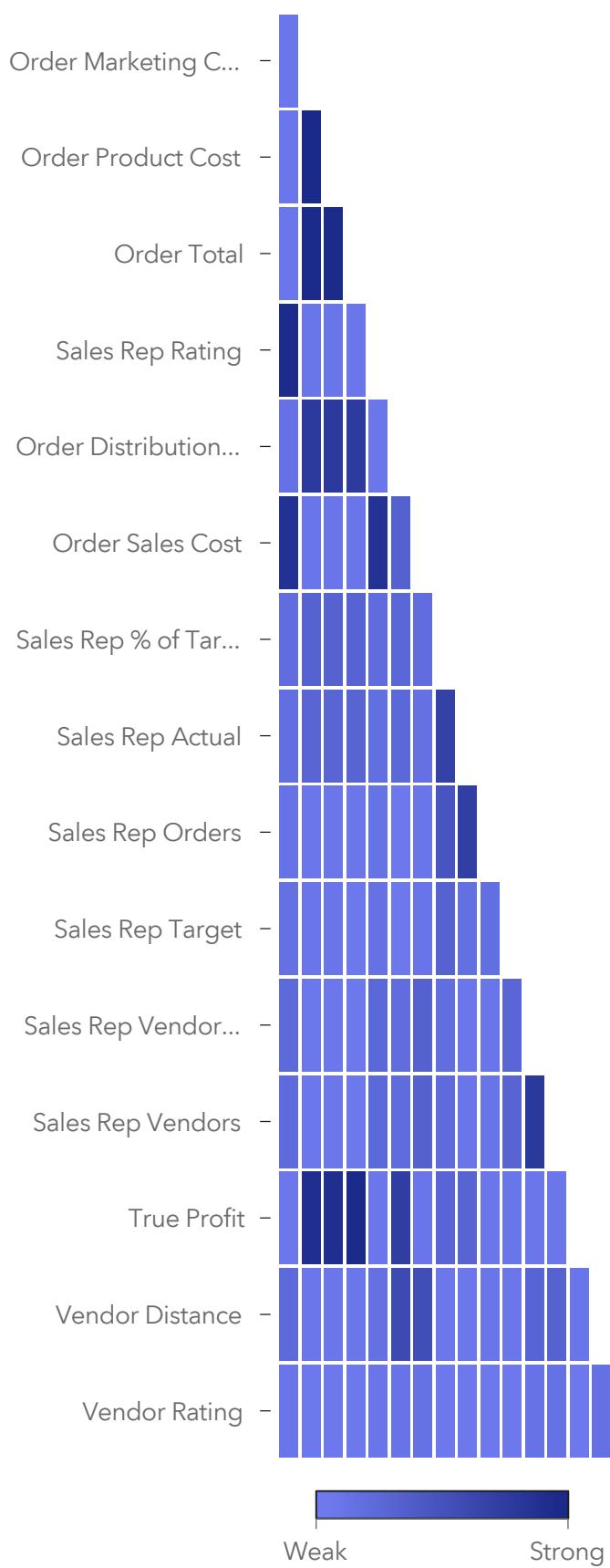


Correltion between Dependent and independent variables



# Analysis\_DA2

## Correlation of Selected Measures

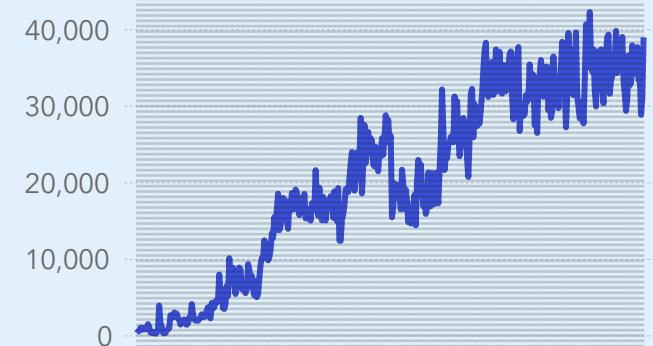


Vendor Satisfaction, Order Sales Cost, Vendor Distance, Sales Rep Rating by Transaction Date

### Vendor Satisfaction



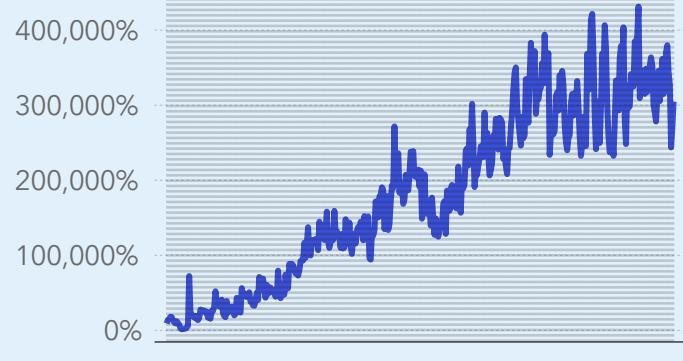
### Order Sales Cost



### Vendor Distance

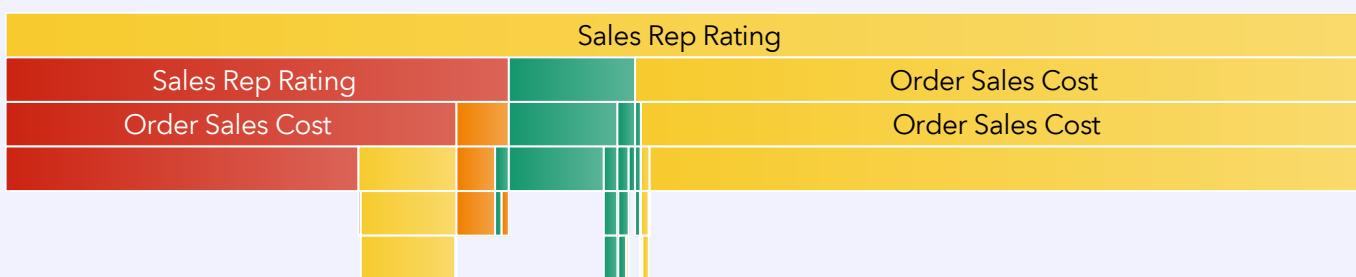
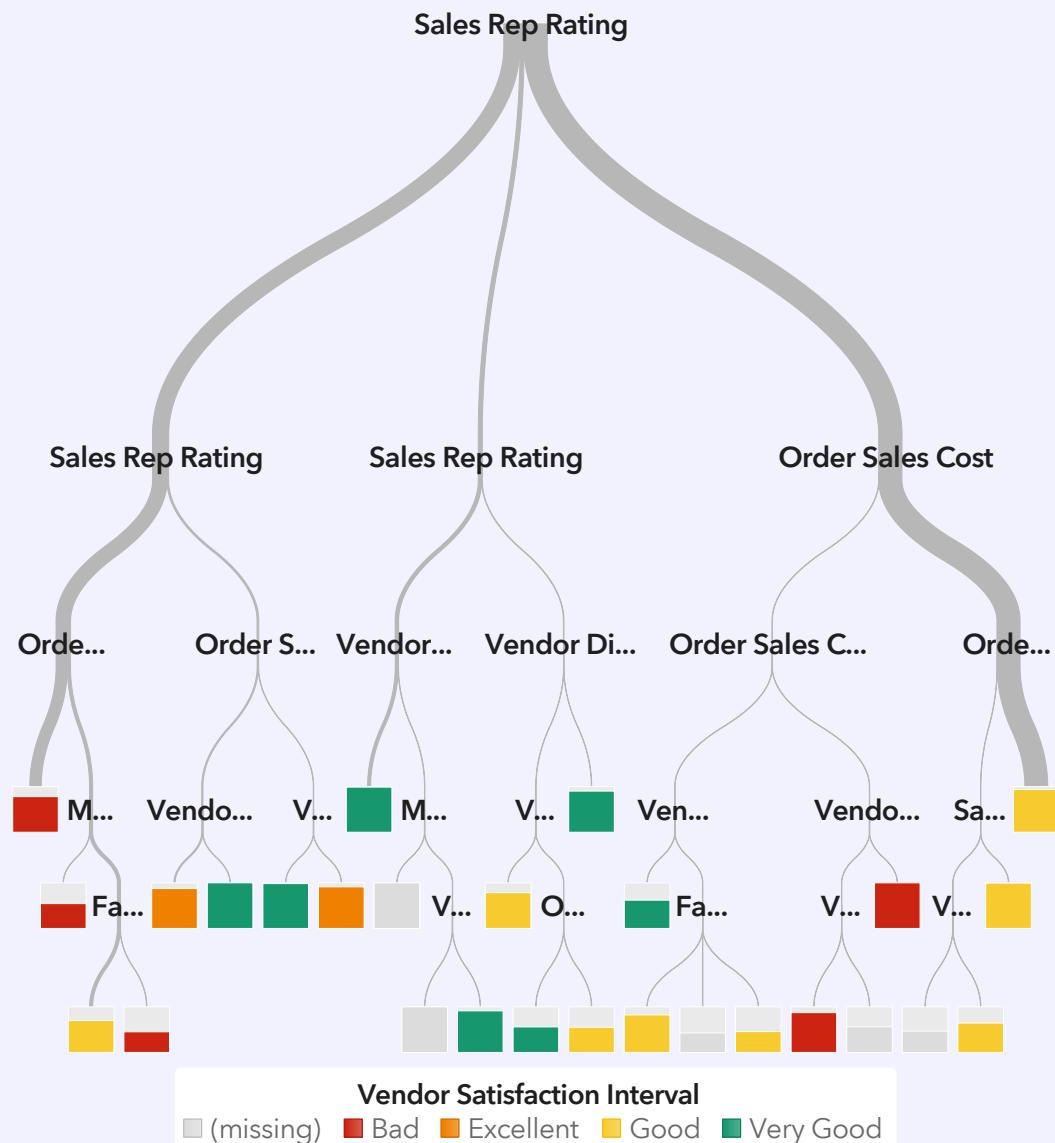


### Sales Rep Rating

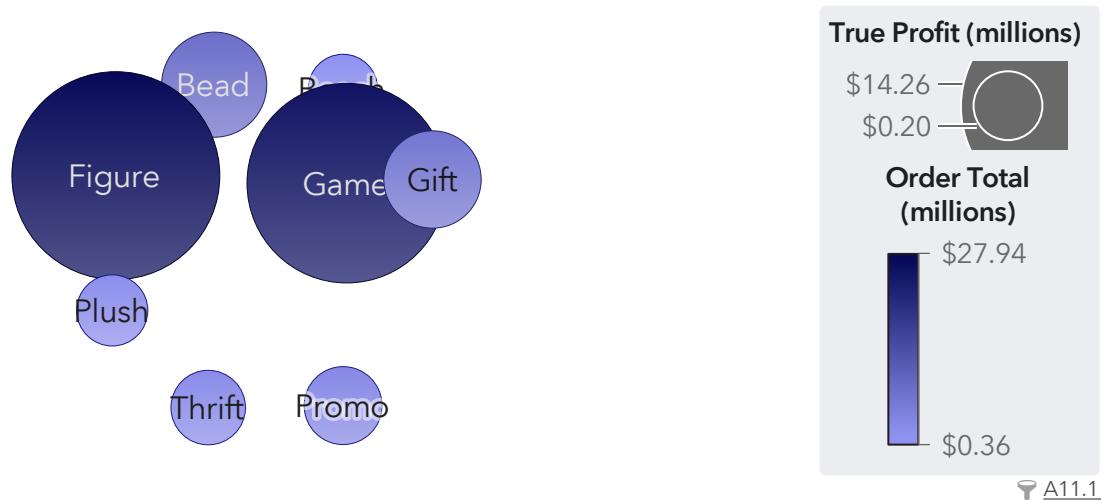


## Decision Tree of Vendor Satisfaction Interval

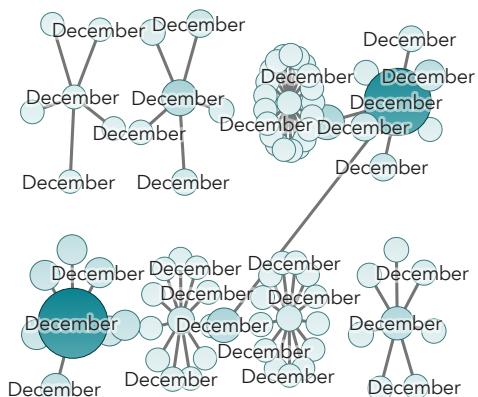
Tree



## Network Diagram for Product Line



## Network Diagram for Product Make

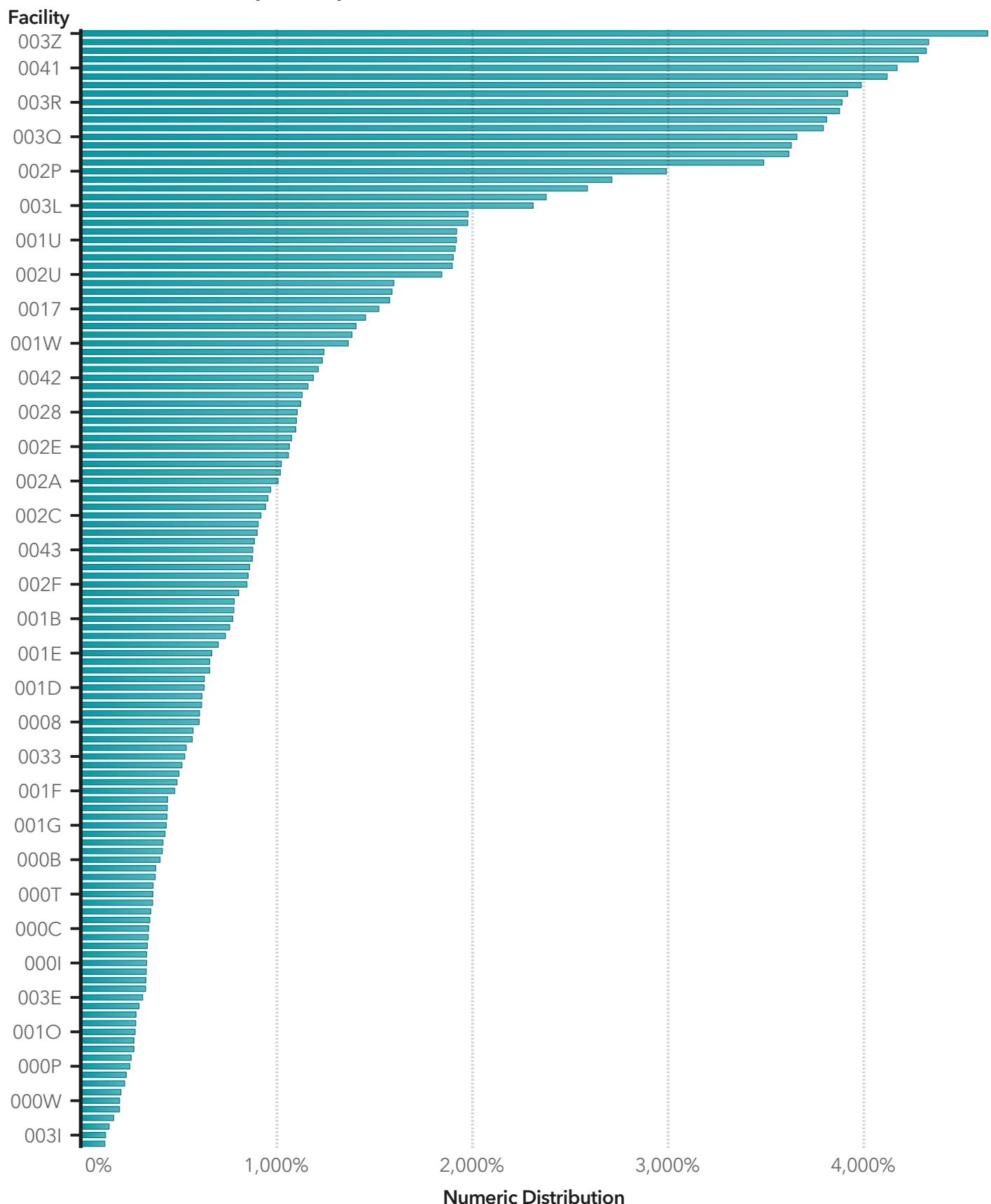


True Profit (millions) Order Total

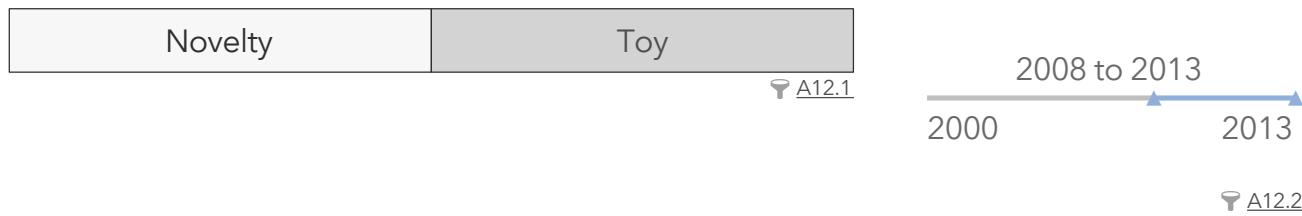
A11.3

# Analysis\_DA5

## Numeric Distribution by Facility

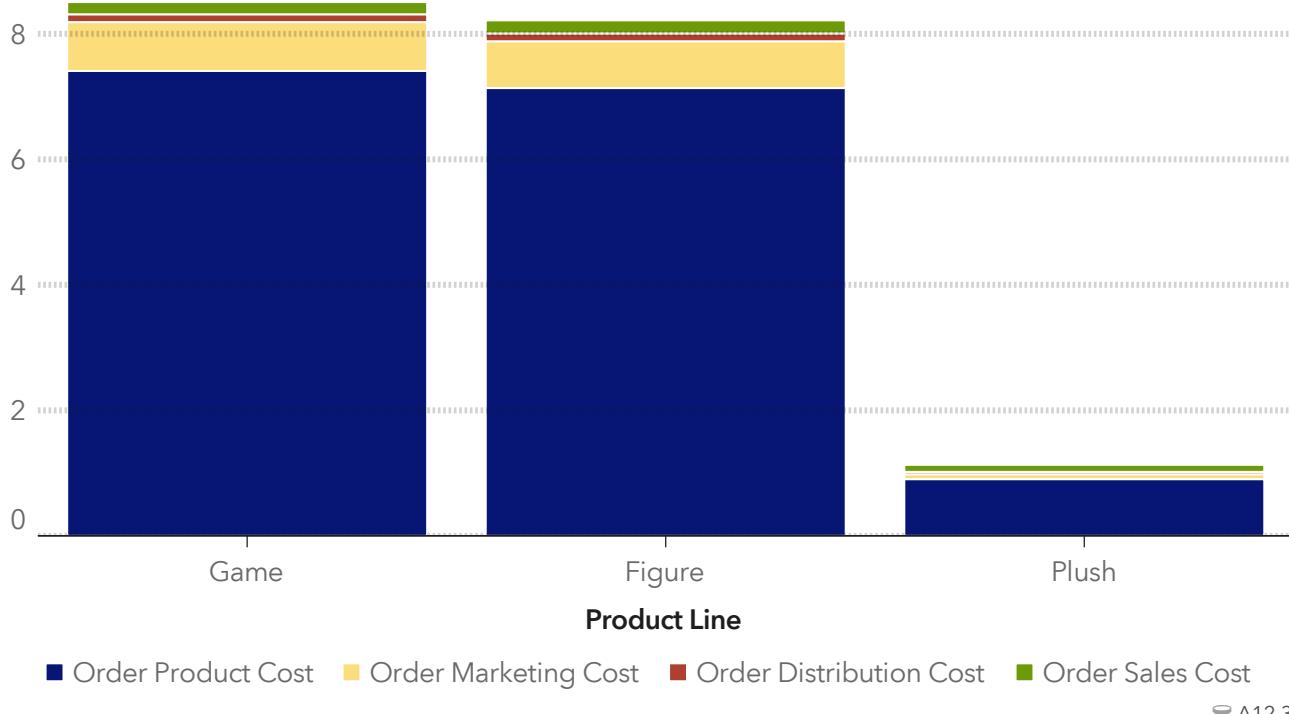


# Dashboard\_Product Section



## Product Costs per Product Make

Order Product Cost / Order Marketing Cost / Order Distribution Cost / Order Sales Cost (millions)

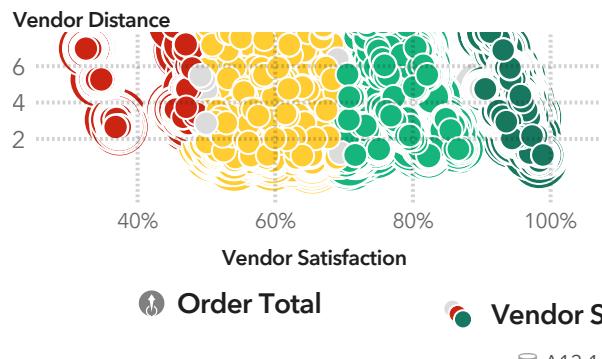


Product Line	Product Make	Order Total	Order Product Cost	Order Margin	Gross Profit Margin
Beach		\$1,435,258.87	505,373	\$862,045.95	60%
Bead		\$2,764,366.56	973,369	\$1,660,955.54	60%
Figure		\$2,035,916.65	716,883	\$1,216,342.73	60%
Game		\$2,175,225.63	765,927	\$1,302,383.36	60%
Plush	Bear (l)	\$20,249.96	7,130	\$11,708.64	58%
	Bear (m)	\$2,251.73	793	\$1,290.31	57%
	Bear (s)	\$330.79	120	\$197.10	60%
	Cat (l)	\$23,218.99	8,176	\$13,382.67	58%
	Cat (m)	\$1,813.61	639	\$1,050.27	58%
	Cat (s)	\$244.22	88	\$140.70	58%

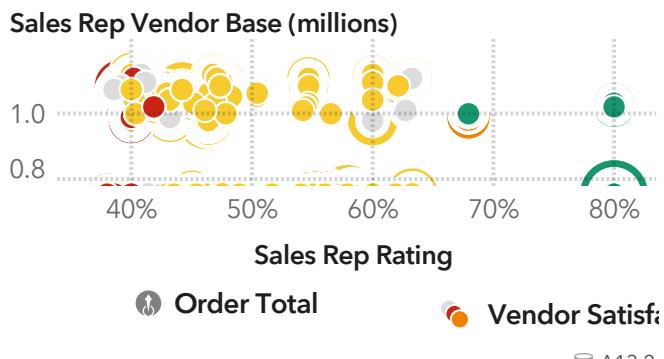
⌚ A12.4

## Customer Relationship Section

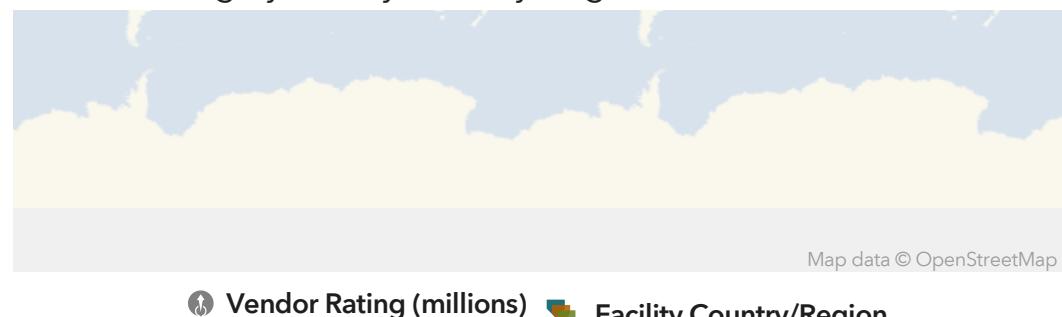
Vendor Distance by Vendor Satisfaction sized by Order Total



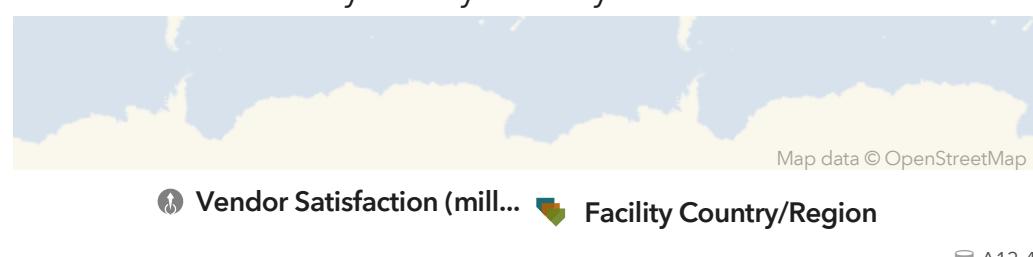
Sales Rep Vendor Base by Sales Rep Rating sized by Order Total



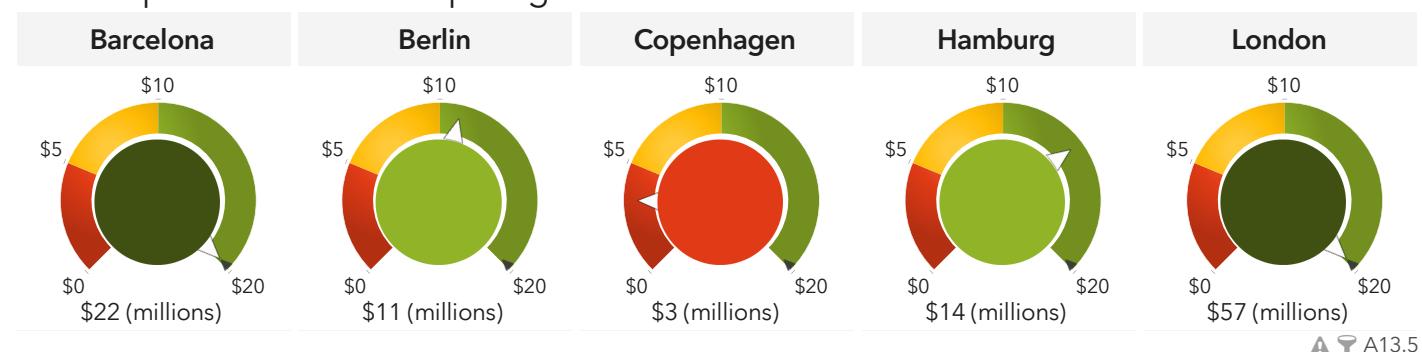
Vendor Rating by Facility Country/Region



Vendor Satisfaction by Facility Country



Sales Rep Actual to Sales Rep Target



## Appendix

### A1.1 Assignment

Parameters: Top 5 Countries by Gross Profit Margin = \$5.00

### A1.2 Vendor Satisfaction Interval by Vendor Satisfaction

Filters: Vendor Satisfaction Interval NotMissing

### A1.3 Frequency Percent of Vendor Satisfaction Interval

Filters: Vendor Satisfaction Interval NotMissing

### A2.1 Gross Profit Margin, True Profit by Facility Countr/Region Geographic

Ranks: Top 5 of Facility Countr/Region Geographic (including ties) by Frequency

Filters: ( Facility Countr/Region Geographic In('AR'; 'AU'; 'BR'; 'CA'; 'CL'; 'CN'; 'CO'; 'DE'; 'DK'; 'EG'; 'ES'; 'FR'; 'GB'; 'ID'; 'IL'; 'IN'; 'IT'; 'JP'; 'KR'; 'MA'; 'MX'; 'NG'; 'NO'; 'NZ'; 'PE'; 'RU'; 'SA'; 'SE'; 'SG'; 'VE'; 'ZA') ) OR Facility Countr/Region Geographic Missing

### A3.1 Countries by AVG Sales Rep%

Filters: ( Sales Rep Rating > 70% ) AND Sales Rep Rating NotMissing

### A4.1 Measure by True profit

Ranks: Top 2 of Product Brand (including ties) by True Profit

### A5.1 Measure by True Profit

Ranks: Top 8 of Product Line (including ties) by True Profit

### A6.1 Measure by True Profit

Ranks: Top 77 of Product Make by True Profit

### A7.1 Order Total, True Profit by Product Style

Ranks: Top 355 of Product Style by True Profit

### A8.1 Measure by True profit

Ranks: Top 10 of Product Make (including ties) by True Profit

### A8.2 Measure by True profit

Ranks: Top 10 of Product Make (including ties) by True Profit

### A8.3 True Profit by Product Hierarchy

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Ranks: Top 5 of Product Line by Frequency Percent  
Top 5 of Product Make by Frequency Percent  
Top 5 of Product Style by Frequency Percent  
Top 5 of Product SKU by Frequency Percent

Drill Levels: Product Hierarchy: Toy

Filters: Product Line NotMissing  
Product Make NotMissing  
Product Style NotMissing  
Product SKU NotMissing

### A9.1 Measure by Facility Date

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Filters: Product Brand NotMissing

### A10.1 Order Total, Order Product Cost by Transaction Date

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Filters: ( Transaction Date BetweenInclusive(Jan2010; Oct2013) ) OR Transaction Date Missing

### A10.2 Forecasting Order Total

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Filters: ( Transaction Date BetweenInclusive(Jan2010; Oct2013) ) OR Transaction Date Missing

### A10.3 Linear Regression model 1

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Filters: ( Transaction Date BetweenInclusive(Jan2010; Oct2013) ) OR Transaction Date Missing

### A10.4 Linear Regression model 2

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Filters: ( Transaction Date BetweenInclusive(Jan2010; Oct2013) ) OR Transaction Date Missing

### A11.1 Network Diagram for Product Line

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Filters: Transaction Month of Year In(December)  
( Transaction Date BetweenInclusive(Jan2000; Oct2013) ) OR Transaction Date Missing

### A11.2 Network Diagram for Product Make

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Filters: Transaction Month of Year In(December)  
( Transaction Date BetweenInclusive(Jan2000; Oct2013) ) OR Transaction Date Missing

### A11.3 Network Analysis 1

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Warnings: Some interactions involving this report object have been disabled.

Filters: Transaction Month of Year In(December)  
( Transaction Date BetweenInclusive(Jan2000; Oct2013) ) OR Transaction Date Missing

### A12.1 Button Bar\_Brand

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Filters: Facility Continents = 'EU'

#### A12.2 Transaction year

Filters: Facility Continents = 'EU'

#### A12.3 Product Costs per Product Make

Ranks: Top 3 of Product Line by Frequency

Filters: Facility Continents = 'EU'

#### A12.4 Crosstab - Product Hierarchy

Filters: ( Gross profit margin(measures) BetweenInclusive(56%; 78%) ) OR Gross profit margin(measures) Missing  
Facility Continents = 'EU'

#### A13.1 Vendor Distance by Vendor Satisfaction sized by Order Total

Ranks: Top 100 of Vendor by Frequency

Filters: ( Vendor Satisfaction BetweenInclusive(30%; 100%) ) AND Vendor Satisfaction NotMissing  
( Vendor Distance BetweenInclusive(0.0; 20.0) ) AND Vendor Distance NotMissing  
Facility Continents = 'EU'

#### A13.2 Sales Rep Vendor Base by Sales Rep Rating sized by Order Total

Filters: ( Sales Rep Vendor Base BetweenInclusive(13,000; 1,352,821) ) AND Sales Rep Vendor Base NotMissing  
( Sales Rep Rating BetweenInclusive(20%; 90%) ) AND Sales Rep Rating NotMissing  
Facility Continents = 'EU'

#### A13.3 Vendor Rating by Facility Country/Region

Filters: Facility Country/Region NotMissing  
Facility Continents = 'EU'

#### A13.4 Vendor Satisfaction by Facility Country

Filters: Facility Country/Region NotMissing  
Facility Continents = 'EU'

#### A13.5 Sales Rep Actual to Sales Rep Target

Warnings: Only 10 rows of the data appear.

Filters: Facility City In(ALL)  
( Sales Rep Target BetweenInclusive(\$0; \$40,056) ) OR Sales Rep Target Missing  
Facility Continents = 'EU'

Display Rules: Sales Rep Actual

- \$0 ≤ x < \$5,000,000
- \$5,000,000 ≤ x < \$10,000,000
- \$10,000,000 ≤ x ≤ \$20,000,000