

Benefit Segmentation

Decision-oriented Analysis

Context

Underperforming product set Fierce competition Undefined consumers

☐ Tool

Conjoint Analysis

■ Analytical Goals

Benefit segmentation Product revitalization

Data

Survey data

200 respondents

Method

A priori segmentation

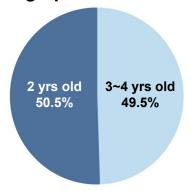
- Demographic information
- Post-hoc segmentation
 - Individual part-utilities

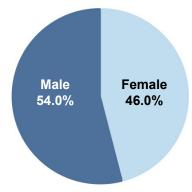
Product Profiles

Price	Height	Motion	Style
\$139.99	18"	Rocking	Glamorous
\$119.99	26"	Bouncing	Racing

4 attributes16 profiles

Demographic Information of Respondents





- · A **quota** sample
- Equal weight on the age range
- · Can **represent the population** of buyers

Source: respondentData

Priori Segmentation

Age & Gender

Coefficient	P-Value
price:factor(seg)2	0.008761 **
price:factor(seg)3	0.866651
price:factor(seg)4	0.334917
size:factor(seg)2	0.047452 *
size:factor(seg)3	0.025311 *
size:factor(seg)4	4.04e-05 ***
motion:factor(seg)2	0.001331 **
motion:factor(seg)3	0.271504
motion:factor(seg)4	0.835281
style:factor(seg)2	0.000225 ***
style:factor(seg)3	0.888958
style:factor(seg)4	0.005487 **

<u>Gender</u>

Coefficient	P-Value
price:factor(seg)2	0.01454 *
size:factor(seg)2	0.00293 **
motion:factor(seg)2	0.00520 **
style:factor(seg)2	1.91e-05 ***

<u>Age</u>

Coefficient	P-Value
price:factor(seg)2	0.37977
size:factor(seg)2	0.00239 **
motion:factor(seg)2	0.02310 *
style:factor(seg)2	0.9502

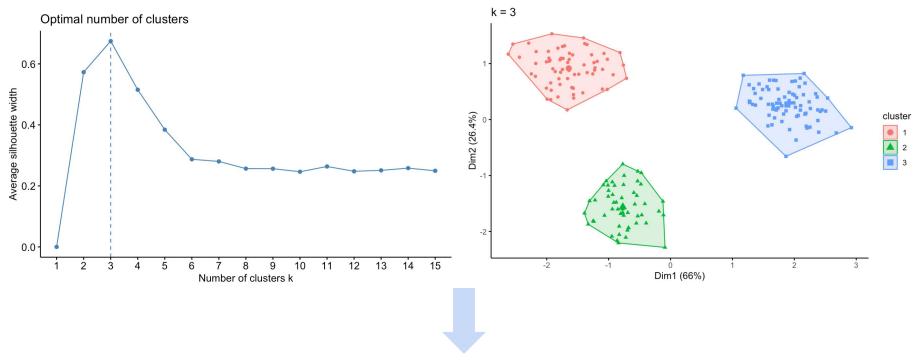
Findings:

- 1. Age & Gender Segmentation insignificant.
- 2. Age Segmentation insignificant.
- 3. Gender Segmentation is significant.



Gender Segmentation

Benefit Segmentation

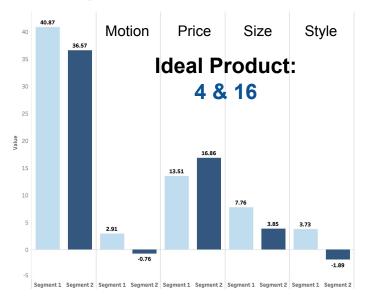


Optimal Number of Segments: 3

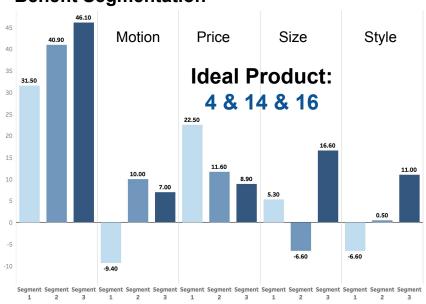
highest average silhouette width three **clear**, **discrete** group

Conclusion

Priori Segmentation







The optimal product set from two segmentation are **mostly consistent**.

These products are **recommended inputs** for the scenarios in **Market Simulation**.

Methodologies

Simulate **market share** and **profitability** in 4 scenarios, in which we launch product:

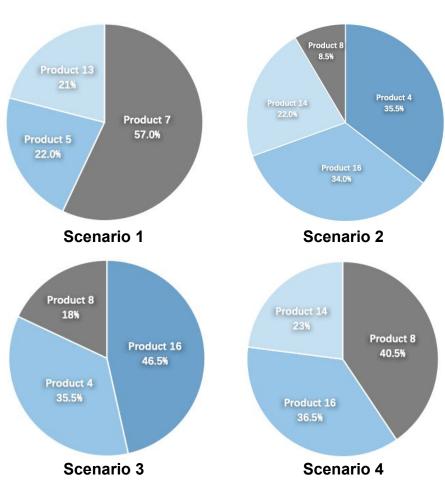
- (1) 5 and 13 (current market)
- **(2) 4, 14 and 16** (ideal products from post-hoc analysis)
- **(3) 4 and 16** (ideal products from priori segmentation)
- (4) 14 and 16

Competitor's response: lower their price to \$119.99 to keep market share.

Findings:

In **Scenario 2** with product 4, 14 and 16, we yield the largest market share.

Market Share



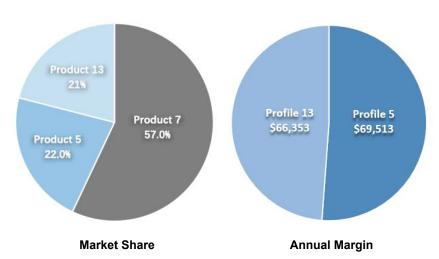
Scenario 1 (current market)

Our Products:

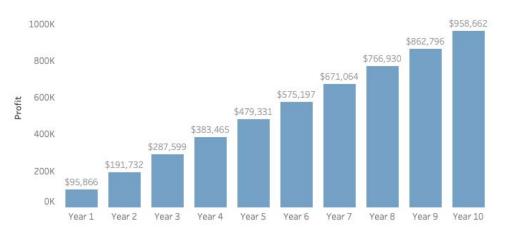
profile 5: 18" Glamorous Rocking Horse at \$139.99profile 13: 18" Racing Rocking Horse at \$139.99

Competitor's Product:

profile 7: 26" Racing Rocking Horse at \$139.99



Profitability over 10 years



Findings:

- 1. Competitor currently takes up the largest proportion of market share (57%).
- 2. Profile 5 and profile 13 has an annual margin of \$69,512 and \$66,353 respectively.

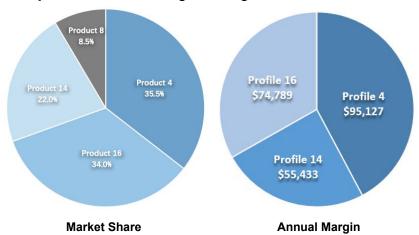
Scenario 2 (ideal products from post-hoc analysis)

Our Products:

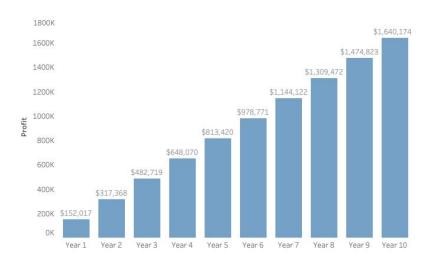
profile 4: 26" Racing Bouncing Horse at \$119.99profile 14: 18" Racing Bouncing Horse at \$119.99profile 16: 18" Glamorous Rocking Horse at \$119.99

Competitor's Product:

profile 8: 26" Racing Rocking Horse at \$119.99



Profitability over 10 years



Findings:

Profile 4 accounts for the largest market share (35.5%), and the greatest proportion of profit annually, with a total margin of \$95,127.

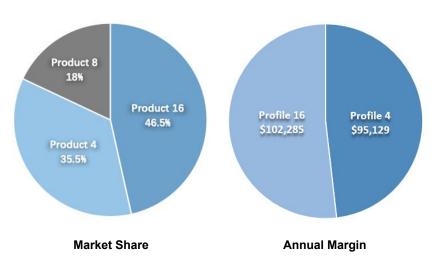
Scenario 3 (ideal products from priori segmentation)

Our Products:

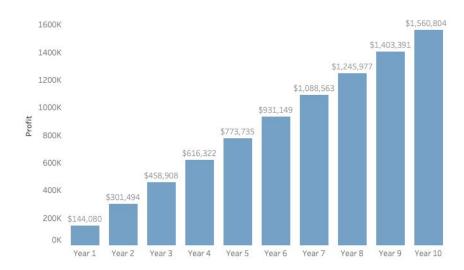
profile 4: 26" Racing Bouncing Horse at \$119.99profile 16: 18" Glamorous Rocking Horse at \$119.99

Competitor's Product:

profile 8: 26" Racing Rocking Horse at \$119.99



Profitability over 10 years



Findings:

Profile 16 accounts for the largest market share (46.5%), and the greatest proportion of profit annually, with a total margin of \$102,285.

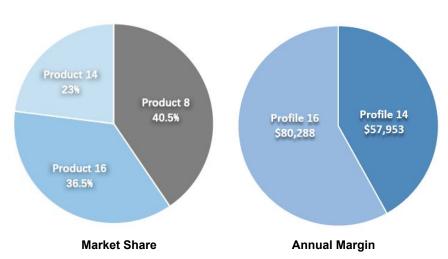
Scenario 4:

Our Products:

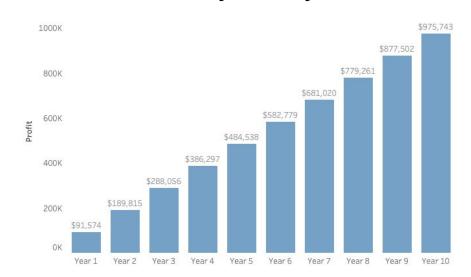
profile 14: 18" Racing Bouncing Horse at \$119.99profile 16: 18" Glamorous Rocking Horse at \$119.99

Competitor's Product:

profile 8: 26" Racing Rocking Horse at \$119.99



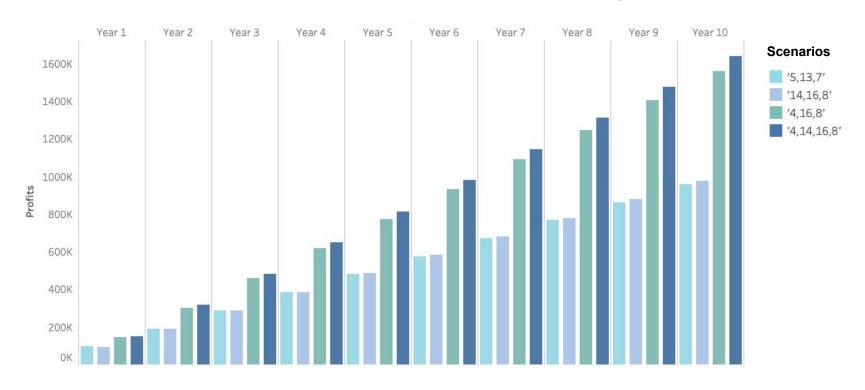
Profitability over 10 years



Findings:

- 1. Competitor's product takes up the largest proportion of market share (40.5%).
- 2. Profile 16 and profile 14 has an annual margin of \$80,288 and \$57,953 respectively.

Comparison for Profitability



Offering profile 4, 14 and 16 yields the highest profitability!

Priori Segmentation

2 Customer Segments
Preferred Product:
4 &16 ----

Benefit Segmentation

3 Customer Segments
Preferred Product:
4 & 14 & 16

SUMMARY

Market Simulation

Scenario Combination Competitor Response

Market Share
Profitability
(short-run, long-run)

Recommended Product Line

Most Profitable Scenario

Competitor: 8
Our Products:
4 & 14 & 16

\$119.99
26" Racing Bouncing Horse
\$119.99
18" Racing Bouncing Horse
\$119.99
18" Glamorous Rocking Horse