

# Udacity

# Marketing Analytics

Nanodegree Program  
Project: Craft a Report

**JAMIL ABDULAI**  
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# Objective Results

year		total ad spend	total sales
2017	\$	607,610.41	\$ 1,594,913.85
2018	\$	837,155.55	\$ 2,092,431.46
growth		37.78%	31.19%

**Increase total sales by 30% on Black Friday**

**2018 vs. Black Friday 2017.**

In 2018, sales climbed by \$497,517.61,

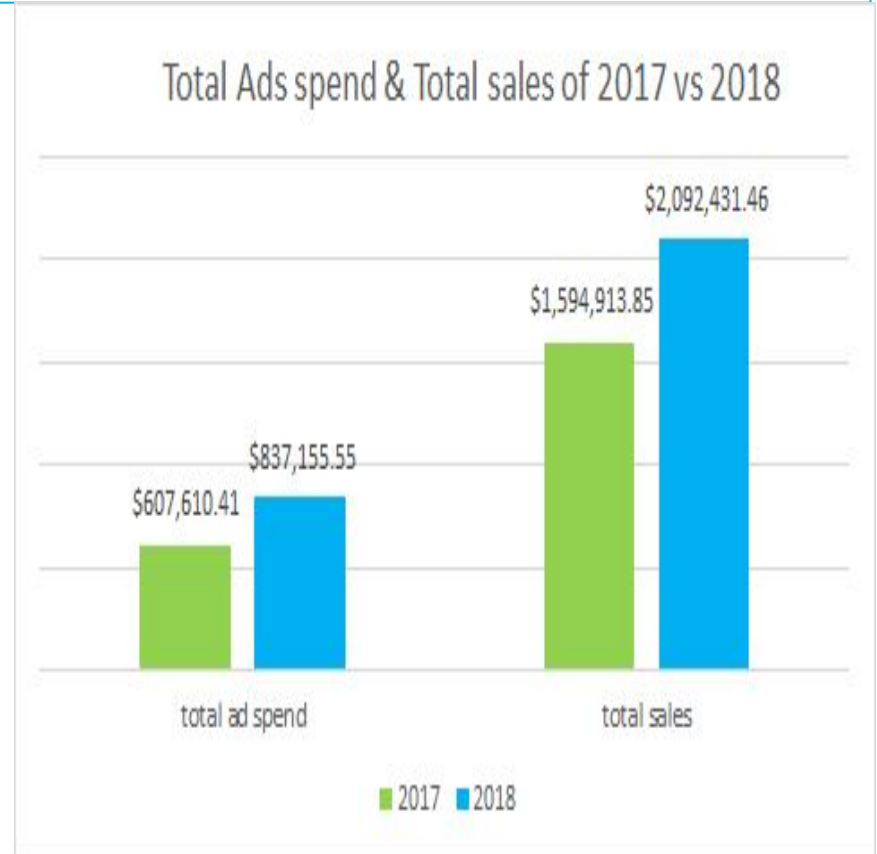
representing a 31.19% rise which was accomplished.

**Decrease total ad spend by 30% from Black Friday**

**2017 to Black Friday 2018.**

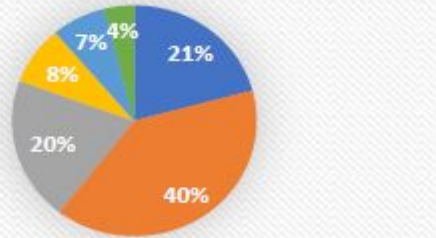
In 2018, advertising expenditures rose by \$229,545.14, or 37.78% in

which the goal was not achieved.



# Evaluate the Audience

Total sales proportion by age range  
2017-2018



■ 18-25 ■ 26-35 ■ 36-45 ■ 46-50 ■ 51-55 ■ 55+

Total sales amount by age range for year 2017-2018



## Which Age-Range generated the most sales?

From the analysis, the age range with the most total sales amount is \$1,465,045.33 followed by the 18-25 group averaging \$767,134.81. Also, the age range 46-45 provided \$741,671.22. The groups 46-50, 51-55 and 55+ all produced \$302,139.21, \$265,181.12 and \$146,173.62 respectively.

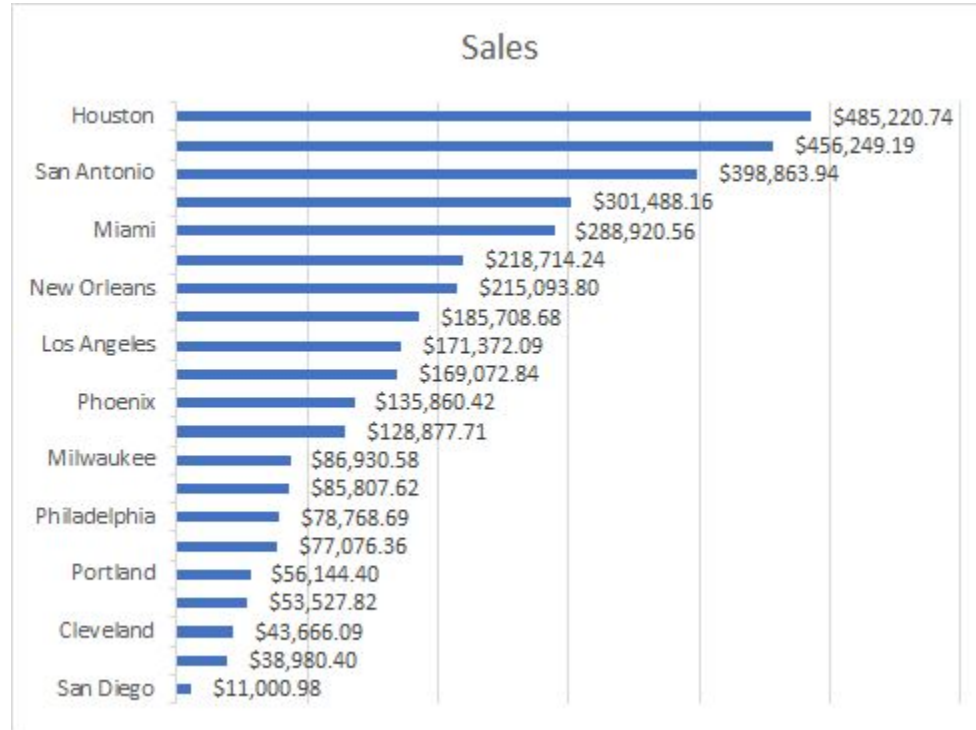
# Evaluate the Audience

**Which City generated the least sales?**

From the analysis, the city that generated

The least sales from 2017-2018 was

San Diego



# Evaluate the Marketing

	Total sales	Total CPA	ROI
Grand Total	1549620.54	1444765.96	7.26

**Was the ROI on our Paid Channel positive or negative?**

**What was it? Which age-range had the best CPA?**

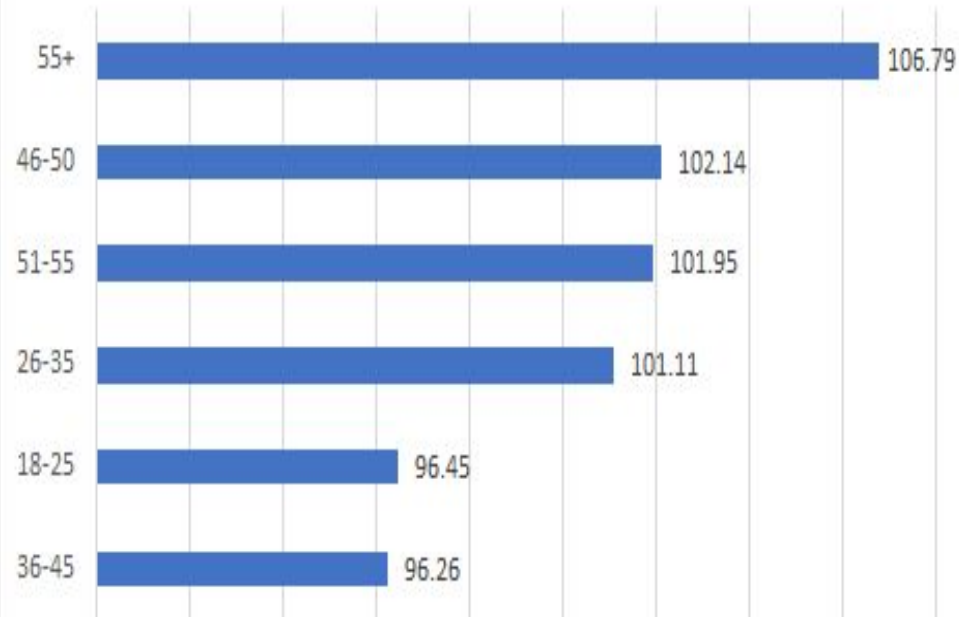
From the analysis, the ROI 7.26% and positive. Also, the

Age range of 36-45 provided the best CPA at 96.26 followed

The range of 18-25 averaging 96.45 with the other ranges

Significantly further from the rest.

Average CPA by Age group 2017-2018



# Evaluate the Marketing

**Which channel was the biggest driver in sales for 2017? For 2018?**

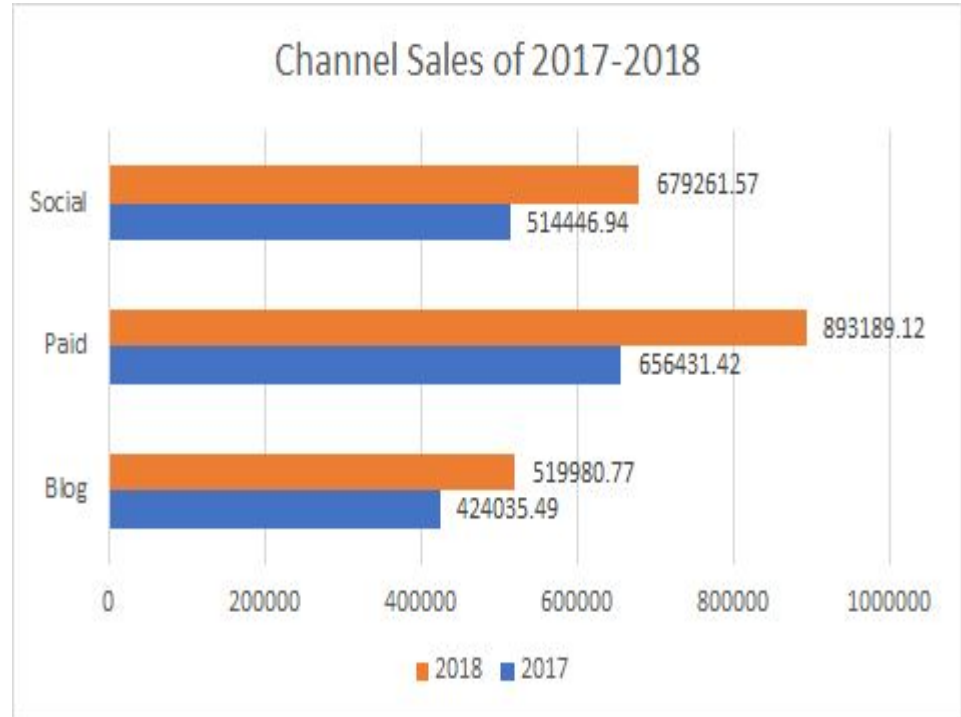
From the visualization, paid channels

Provided the most massive driving force for

Both years amounting to \$893,189.12 and

\$656,431.42 for the years 2018 and 2017

respectively.



# Evaluate the Sales

**How much revenue did we generate in 2017?**

**In 2018?**

From the visualization, the total revenue

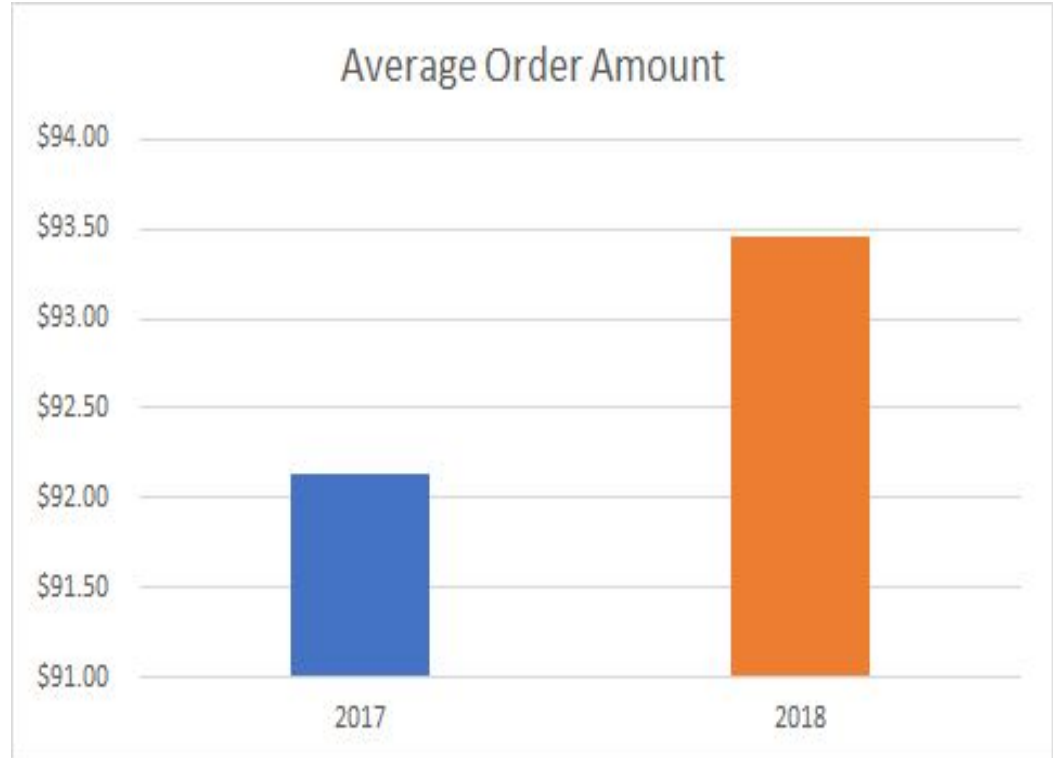
Of year 2017 was \$1,594,913.85 compared to  
\$2,092,431.46 for year 2018.



# Evaluate the Sales

**What was our average order amount in 2017 vs 2018?**

The visualization depicts that the average Order amount for year 2017 to 2018 are 92.13 to 93.45 respectively.





# Evaluate the Product Categories

**Which product category was most popular in 2017 & 2018?**

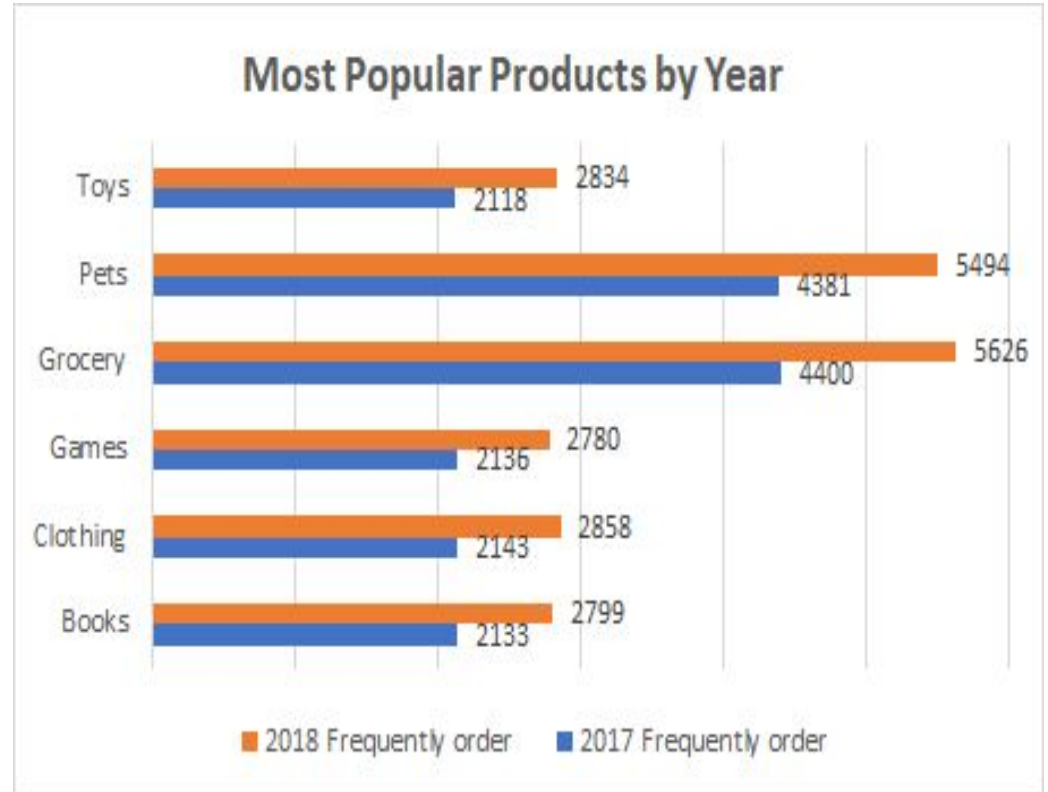
The most popular product categories

For both years were groceries and pets.

Groceries had 5,626 and 4,400 orders for

2017 and 2018. Pets had 5,494 and 4,381

For 2017 and 2018 accordingly.



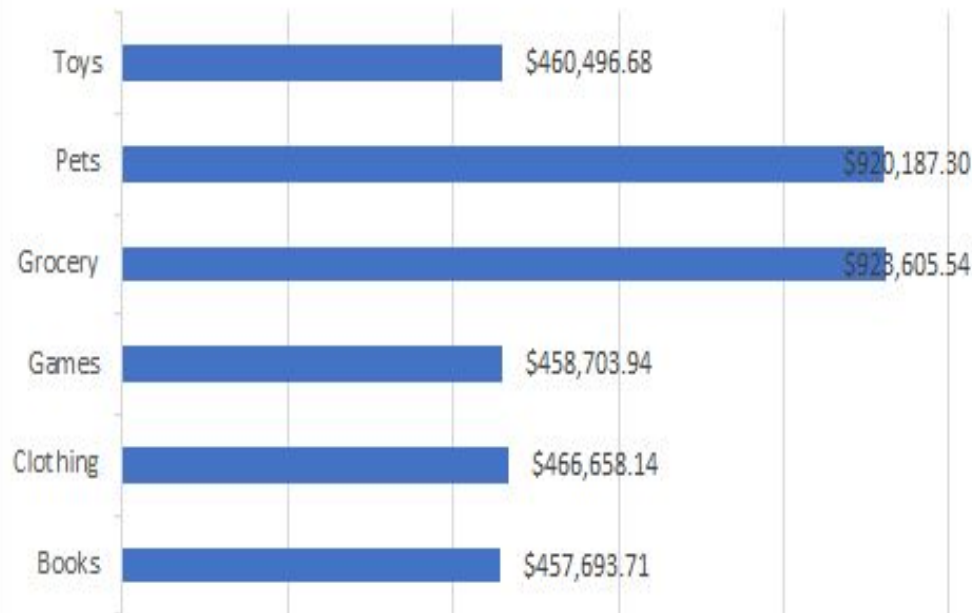
\$923,605.54

# Evaluate the Product Categories

## Demonstrate sales by product category

From the analysis, its paramount that Groceries and pets were the highest with \$923,605.54 followed by pets with \$920,187.30. Clothing came in next with \$466,658.14 then Games, Books and Toys all amounting \$458,703.94, \$457,693.71 and \$460,496.68 respectively.

## Sales by Product Category for Year 2017-2018



# Everything Else

- The data used for the analysis of the project can be downloaded from <https://learn.udacity.com/nanodegrees/nd028/parts/cd0646/lessons/360126ef-dede-48ff-b672-9e0f565725ce/concepts/65a72396-9816-4612-afa9-6dad76c3fb0a>
- Excel visualizations were used for all the plots.