# Udacity Marketing Analytics

Nanodegree Program

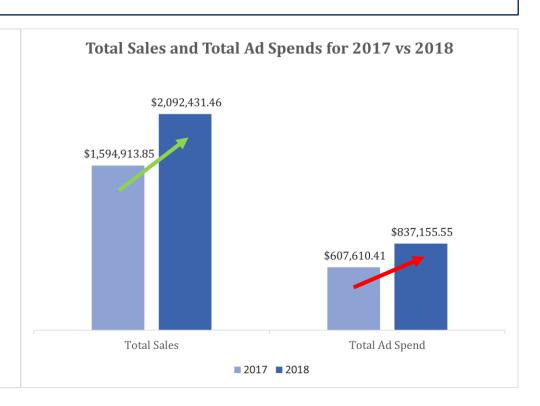
Project: Craft a Report

#### Objective Results

Increase total sales by 30% on Black Friday 2018 vs. Black Friday 2017.

Objective achieved, sales in 2018 increased by 31.19%.

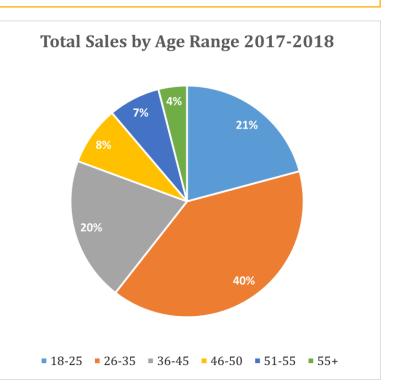
Decrease total ad spend by 30% from Black Friday 2017 to Black Friday 2018. Objective not achieved, the ad spends in 2018 increased by 37.78%.



#### Evaluate the Audience

#### Q: Which Age-Range generated the most sales?

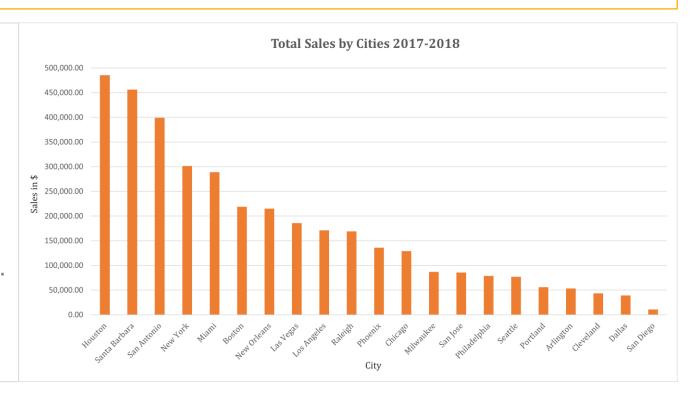
The highest sales were generated by customers **aged 26-35** with **40%** and total of **\$1,465,045.33**.



#### Evaluate the Audience

# Q: Which City generated the most sales?

The highest sales were generated by customers who live in **Houston city** with total of **\$485,220.74**.



#### **Evaluate the Marketing**

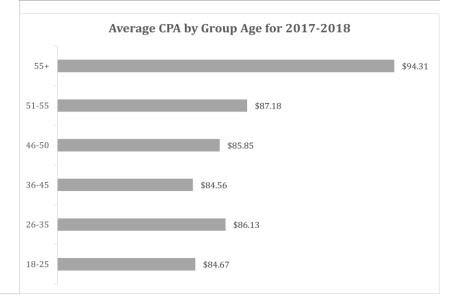
Q: Was the ROI on our Paid Channel positive or negative? What was it? Which age-range had the best CPA?

The ROI on the paid channel is **positive** with **7.26%**.

Calculated using formula: ROI=(Total sales-Total cost)/Total sales.

Age range **36-45** had the **best CPA with \$84.56**.

	Total Sales (Paid Channels)	Total CPA	ROI
2017	\$ 656,431.42	\$ 607,610.41	
2018	\$ 893,189.12	\$ 837,155.55	
Total	\$ 1,549,620.54	\$1,444,765.96	7.26%



#### **Evaluate the Marketing**

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

The highest sales were generated through **paid channels**, with **\$656,431.42 in 2017** and **\$893,189.12 in 2018**.



#### **Evaluate the Sales**

## Q: How much revenue did we generate in 2017? In 2018?

The highest generated revenue is \$2,092,431.46 in 2018, compared to the revenue in 2017 with \$1,594,913.85.



#### **Evaluate the Sales**

## Q: What was our average order amount in 2017 vs 2018?

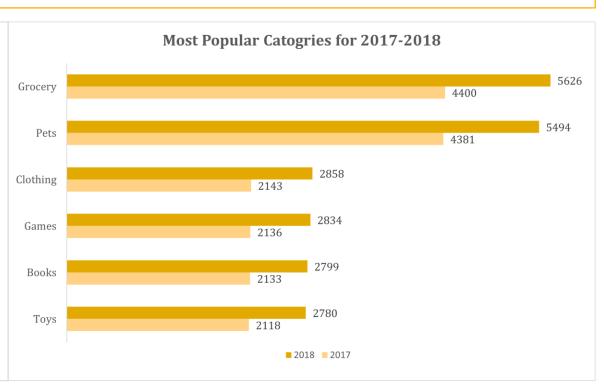
The average order amount is \$93.45 in 2018, which is higher than the average amount \$92.13 in 2017.



#### **Evaluate the Product Categories**

# Q: Which product category was most popular in 2017 & 2018?

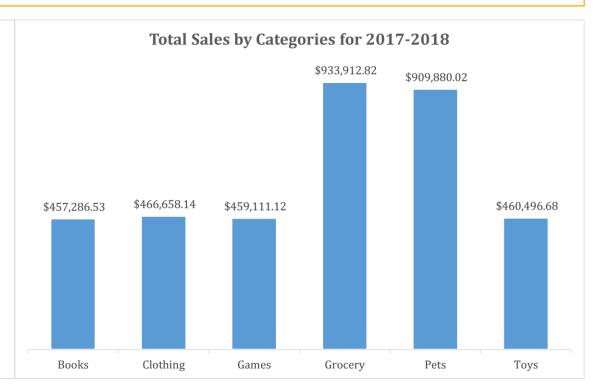
The most popular product category is **Grocery**, with count of **4400 order in 2017** and **5626 order in 2018**.



#### **Evaluate the Product Categories**

Q: Which product category generated the most sales in 2017 & 2018?

The category that generated the highest sales is **Grocery**, with total of \$933,912.82 for 2017 and 2018.



#### **Everything Else**

- The <u>link</u> to dataset used for this report.
- This report made using Microsoft Excel.
- **ROI** marketing formula.