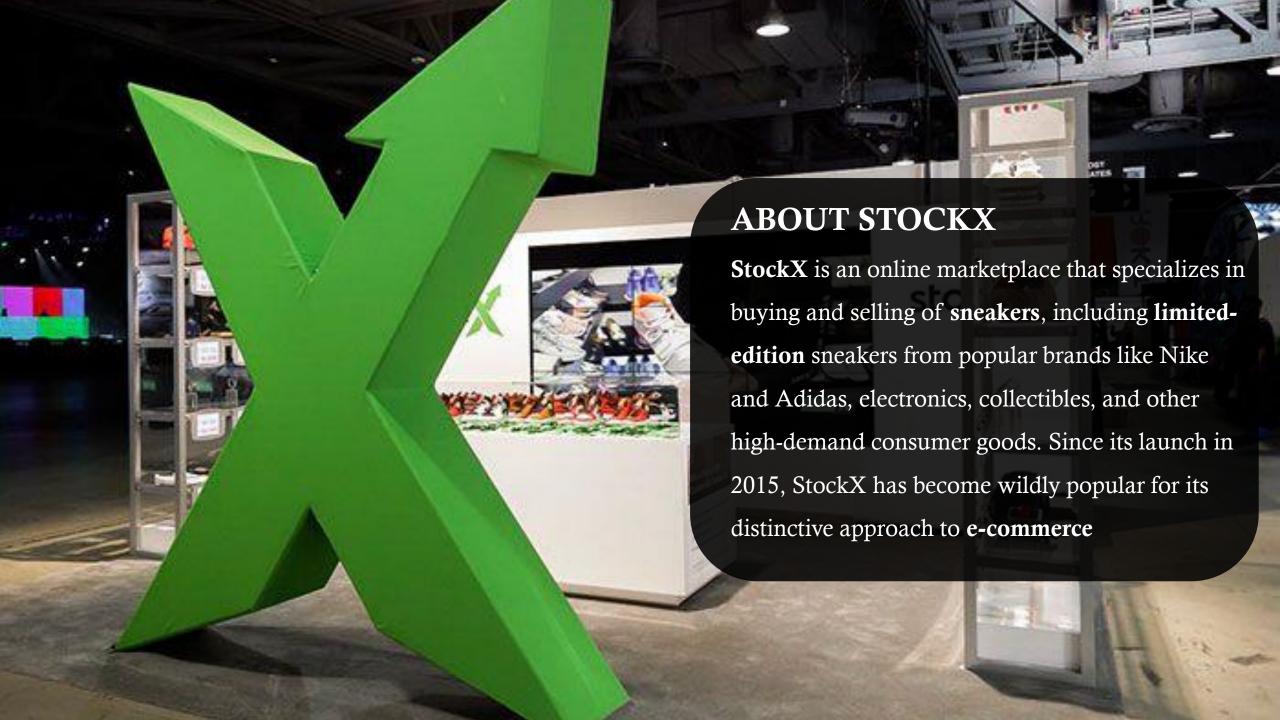


# STOCKX

A Deep Dive into the Revolutionary Sneaker Market - A Case Study



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## Case Study

This dataset comprises a **single file** of sales data sourced from StockX. It contains information such as Order Date, Brand, Sneaker Name, Sale Price, Retail Price (cost), Release Date, Shoe Size, and Buyer Region for two prominent brands: **Nike x Off-White** and **Yeezy**. There are **99,956** total sales in the data set. The sample consists of U.S. sales only.

## **Objective**

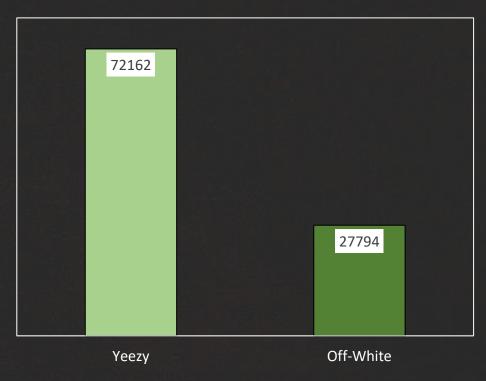
The objective of this analysis is to **gain insights** into the **sales trends** and **buyer preferences** for Yeezy sneakers and off-white sneakers during the **specified time period**. By examining factors such as order date, sale price, retail price(cost), release date, shoe size, and buyer region, we aim to identify key patterns, pricing strategies, and regional variations that can inform marketing and sales strategies for Yeezy and Off-White sneakers in the future.

#### Total sales

```
82 -- 1.total sales of each brand
83
84 • SELECT
85     Brand, COUNT(*) AS Total_Sales
86  FROM
87     stockx_data
88  GROUP BY brand;
```

## Total sales



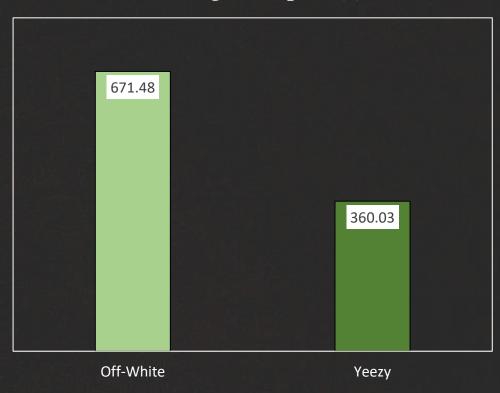


- **≻72,162** Yeezy sales
- > 27,794 Off-White sales

## Average sale price

# Average sale price

#### Average Sale price(\$)



- Average sale price of **Off-White** is \$671.4813
- Average sale price of Yeezy is \$360.0326

## Maximum and Minimum sale prices

```
120 -- 3 b Minimum Sale Price for each Brand

121

122 • SELECT

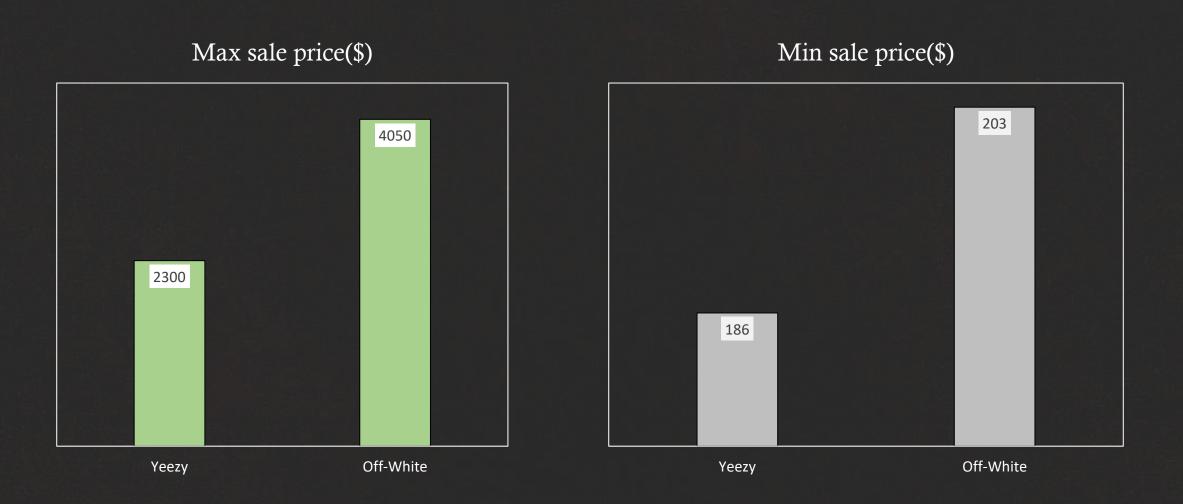
123 brand, MIN(new_sale_price) AS Min_Sale_Price

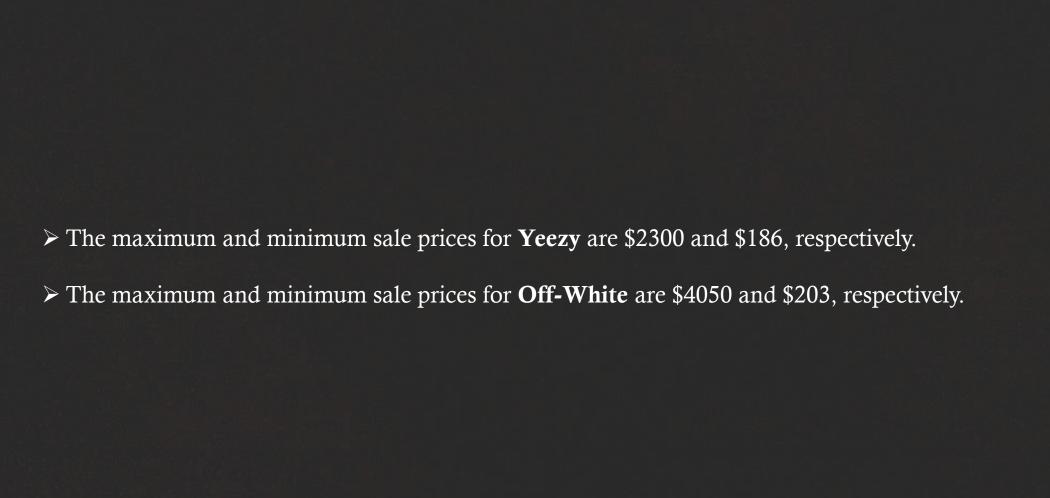
124 FROM

125 stockx_data

126 GROUP BY brand;
```

## Maximum and Minimum sale prices

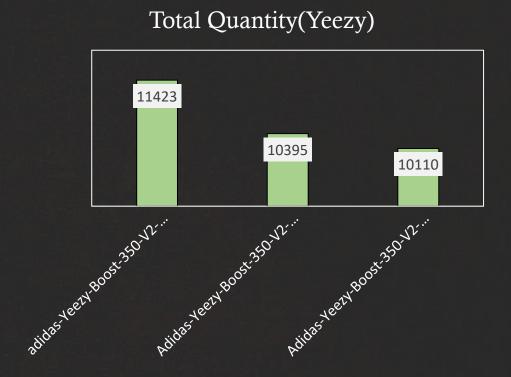




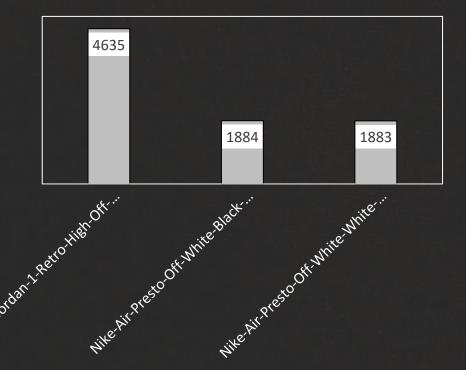
### Top 3 sneakers

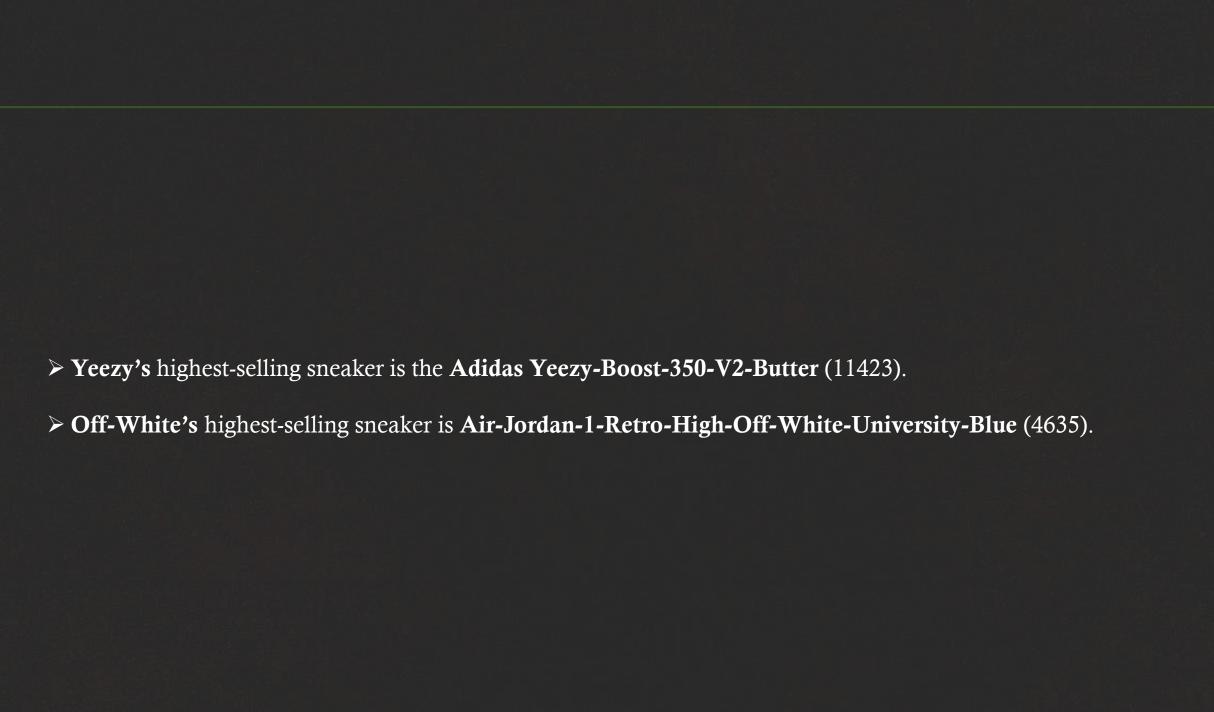
```
131
        -- 4 List the top 3 most sold sneakers of each brand
132
133 • ⊖ WITH Sneakers_Rank AS (
134
          SELECT
135
               `sneaker name`,brand,COUNT(*) AS SalesCount,
136
               ROW_NUMBER() OVER (PARTITION BY brand ORDER BY COUNT(*) DESC) AS Sales_count_rank
137
           FROM
138
               stockx_data
139
           GROUP BY
140
               brand,
141
               `sneaker name`)
142
            SELECT *
143
       FROM
144
           Sneakers_Rank
145
       WHERE
146
           Sales_count_rank <= 3;</pre>
```

## Top 3 sneakers



#### Total Quantity(Off-White)

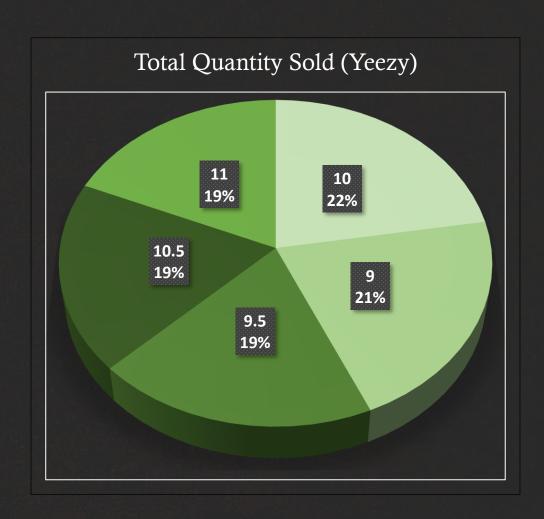


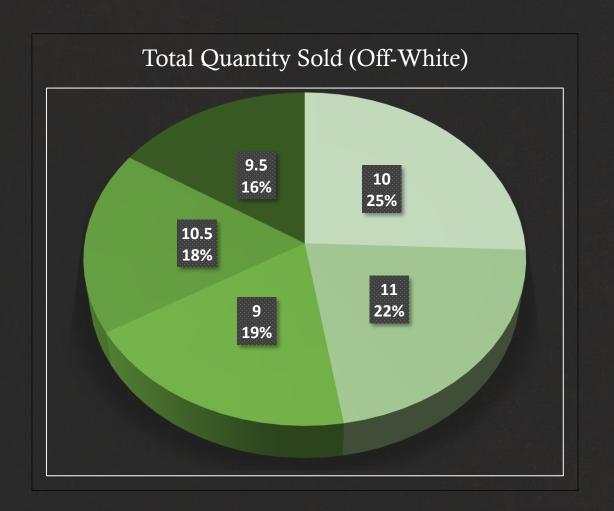


## Top 5 popular shoe sizes

```
154
       -- 5. top 5 popular shoe size
155
156 • ⊖ with Brand_shoe_size as (SELECT
157
           brand, shoe size, COUNT(*) AS TOTAL_QTY, ROW_NUMBER() OVER (PARTITION BY Brand ORDER BY COUNT(*) DESC) AS Rownumber
158
       FROM
159
           stockx_data
       GROUP BY brand, `shoe size`)
160
161
        SELECT *
162
               FROM Brand_shoe_size
               WHERE Rownumber <= 5;
163
```

# Top 5 popular shoe sizes

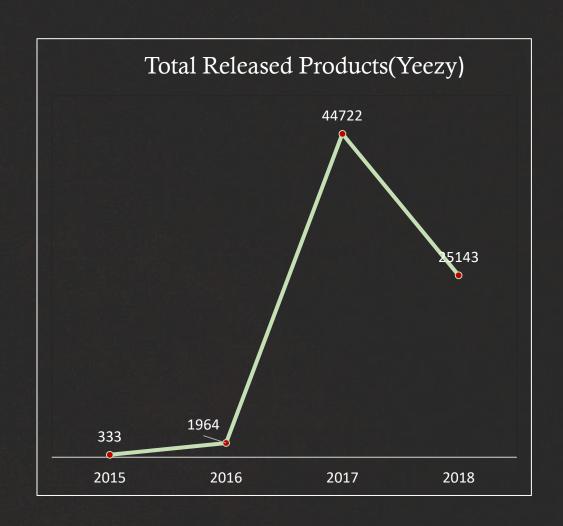


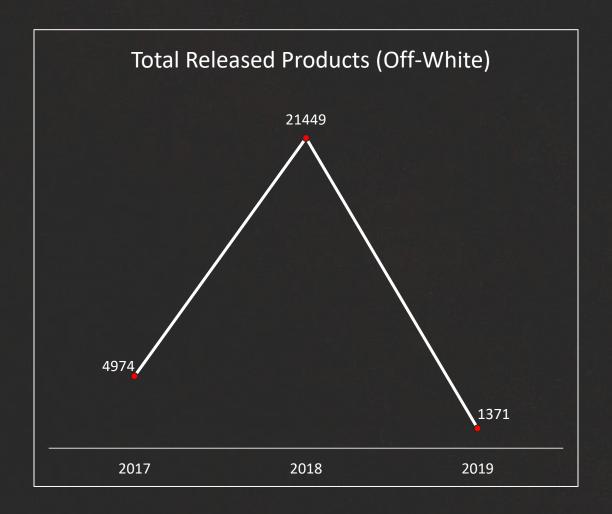


## Release date Analysis

```
168
       -- 6. release date trend (Analysis)
169
170 •
      SELECT
171
          YEAR(new release date), brand, COUNT(*) AS TOTAL QTY
172
       FROM
173
           stockx data
174
      WHERE
175
          brand = ' Yeezv'
176
       GROUP BY YEAR(new_release_date)
177
       ORDER BY YEAR(new_Release_Date) ASC;
183 •
        SELECT
184
            YEAR(new release date), brand, COUNT(*) AS TOTAL QTY
185
        FROM
            stockx_data
186
187
        WHERE
            brand = 'off-white'
188
189
        GROUP BY YEAR(new_release_date)
190
        ORDER BY YEAR(new Release Date) ASC;
```

## Release date Analysis





> Yeezy launched the most products overall in 2017 (44722), and the least products overall in 2015 (333).
➤ Off-White launched the most products overall in 2018 (21449), and the least products overall in 2019 (1371).

## **Annual Order Analysis**

```
196 -- 7. Annual order

197

198 • SELECT

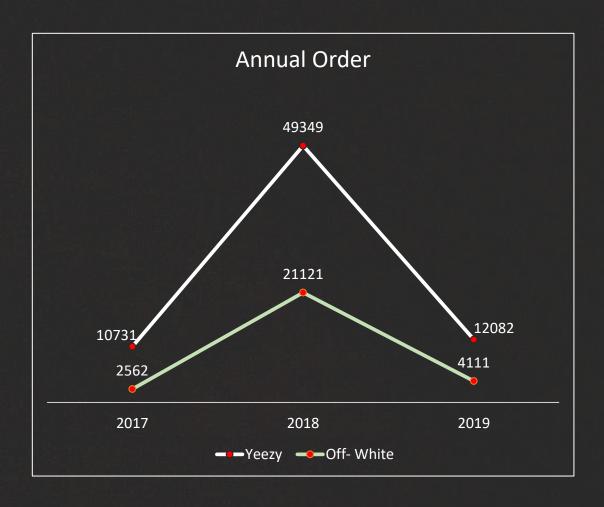
199 YEAR(new_order_date), brand, COUNT(*) AS TOTAL_QTY

200 FROM

201 stockx_data

202 GROUP BY brand, YEAR(new_order_date);
```

## **Annual Order Analysis**

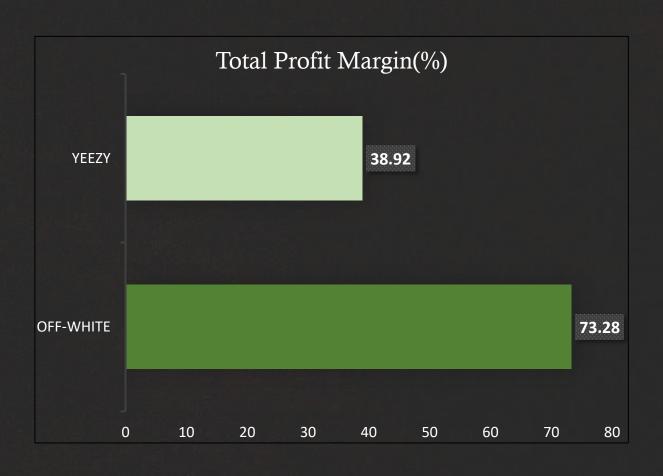


- > Yeezy got the highest order in 2018 (49349) and the lowest in 2017 (10731).
- ➤Off-White got the highest order in 2018 (21121) and lowest in 2017 (2562).

## **Profit Margin Analysis**

```
-- 8. best/worst profit margins
208
209
210
211 •
      SELECT
212
           brand,
           ((SUM(`new_Sale_Price`) - SUM(`new_Retail_Price`)) / SUM(`new_Sale_Price`) * 100)
213
214
           AS Total_Profit_Margin
215
       FROM
216
           stockx_data
217
       GROUP BY brand
218
       ORDER BY Total_Profit_Margin DESC;
```

## **Profit Margin Analysis**

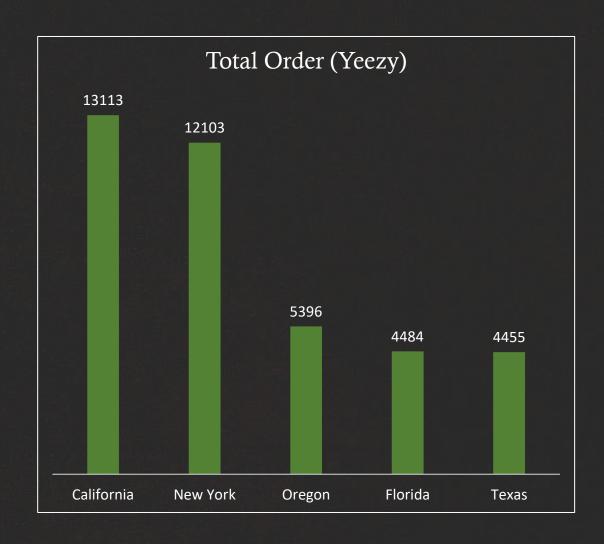


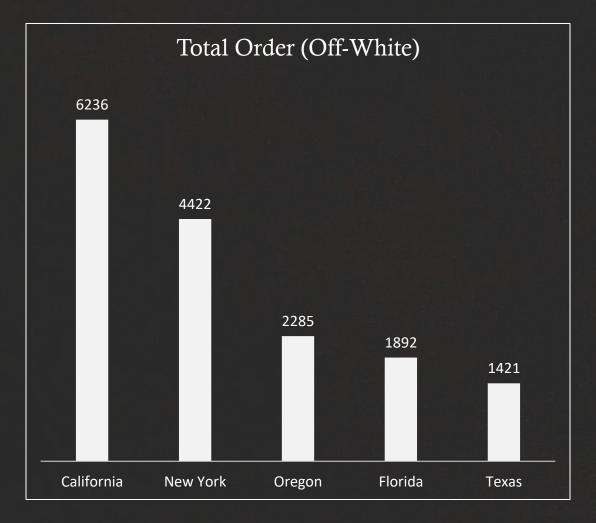
- > Yeezy's Profit Margin is 39%
- ➤ Off-White's Profit Margin is 74%

## Top 5 regions with highest order

```
-- 9. top 5 region with highest order
225
226
228
      SELECT
229
          Brand,
230
      `Buyer Region`,
231
          COUNT(*) as TOTAL ORDER,
              ROW_NUMBER() OVER (PARTITION BY Brand ORDER BY COUNT(*) DESC) AS Rownumber
232
233
          FROM
234
              stockx_data
235
              GROUP BY brand, Buyer Region )
236
              SELECT *
237
              FROM Brand_region_order
              WHERE Rownumber <= 5;
238
```

# Top 5 regions with highest order



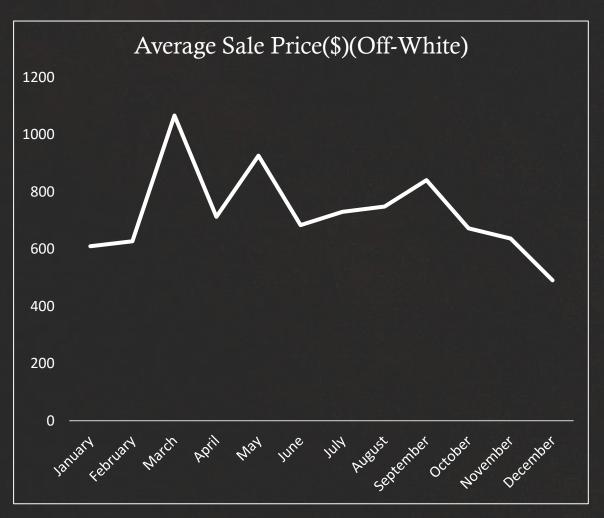


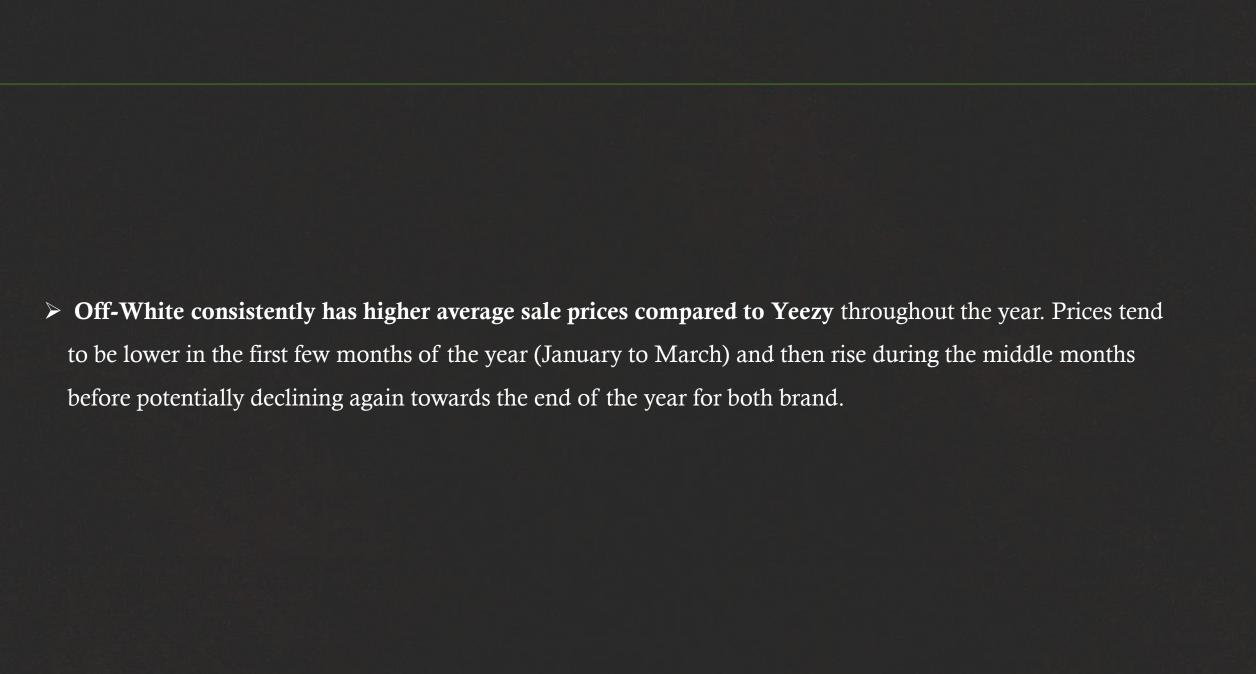
## Average sale price across different time periods

```
246
        -- 10. average sale prices across different time periods
247
248 •
        SELECT brand,
249
           month(new_Order_Date) AS month, monthname(new_Order_Date) AS monthname,
250
           AVG(new_sale_price) AS average_sale_price
251
       FROM
252
           stockx data
253
254
       GROUP BY
255
           month, monthname, brand
256
       ORDER BY
257
            brand, month asc;
```

## Average sale price across different time periods



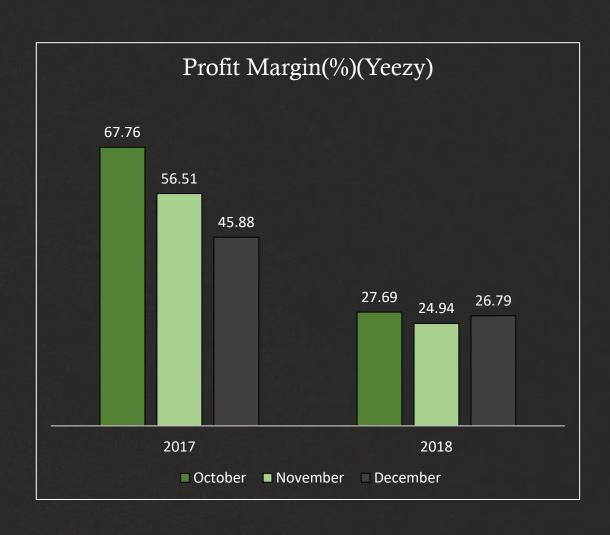


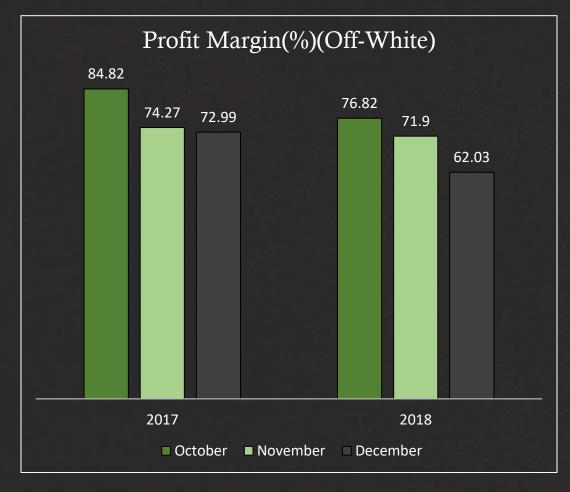


## Total profit margin for last quarter of the year 2017 Vs 2018

```
263
        -- 11. Total profit margin for last quarter of the year (2017 Vs 2018)
264
265 •
       SELECT brand,
266
           YEAR(new_Order_Date) AS YEAR,
267
           MONTHNAME (new Order Date) AS MONTH,
268
           ((SUM(`new Sale Price`) - SUM(`new Retail Price`)) / SUM(`new Sale Price`) * 100) AS Total Profit Margin
269
       FROM
270
           stockx data
271
       WHERE
272
           MONTHNAME(new_Order_Date) IN ('October', 'November', 'December')
273
       GROUP BY brand, YEAR(new Order Date) , MONTHNAME(new Order Date)
274
       ORDER BY 1,2,3 DESC;
```

## Total profit margin for last quarter of the year 2017 Vs 2018





➤ Yeezy: In 2017, Yeezy's profit margin declined from 67.76% in October to 56.51% in November and 45.88% in December. In 2018, it averaged 27.69% in October, decreased to 24.95% in November, and improved to 26.79% in December, but remained lower than in 2017.

➤ <u>Off-white</u>: In 2017, Off-White consistently had strong profit margins in the last quarter of the year, with October at 84.83%, November at 74.27%, and December at 72.99%. In 2018, they maintained relatively high profit margins, starting at 76.82% in October, decreasing to 71.90% in November, and 62.04% in December, still **outperforming**Yeezy.

#### **Observations**

- > Yeezy has higher total sales than Off-White; however, Off-White products typically have a higher average sale price than Yeezy products, suggesting that **Off-White** items are generally more **expensive** in the market.
- ➤ Yeezy product releases have experienced significant growth from 2015 to 2017, followed by a decrease in 2018. Off-White experienced a notable fluctuation in its product release strategy over the three-year period.
- ➤ In 2018, there was a significant uptick in orders for both Yeezy and Off-White items. However, in the following year, 2019, orders for both brands decreased. Notably, in 2017, Yeezy received 10,731 orders, a substantially higher number than Off-White's 2,562 orders.
- ➤ To maximize sales and inventory management, the brands should focus on popular sizes such as size 10, and consider targeted marketing and stocking strategies for these sizes.
- ➤ Off-White has a higher profit margin than Yeezy, possibly because of higher prices, lower production costs, or better cost management. Conversely, Yeezy might have lower profit margins due to higher production or operational costs.

- ➤ California and New York seem to be the top regions for both brands, with California having the highest total orders for both Yeezy and Off-White products, and the brands should continue to focus their marketing and distribution efforts in this area.
- ➤ Yeezy and Off-White both show **seasonal price trends**. Off-White consistently having higher average sale prices indicating its premium image. Yeezy's lowest prices occur in July, suggesting a chance for promotions to boost sales then.
- ➤ Off-White had a more favorable profit margin performance compared to Yeezy during the specified time frame. Off-White also saw fluctuations in profit margin, its decline from 2017 to 2018 was less pronounced compared to Yeezy.

Thank you