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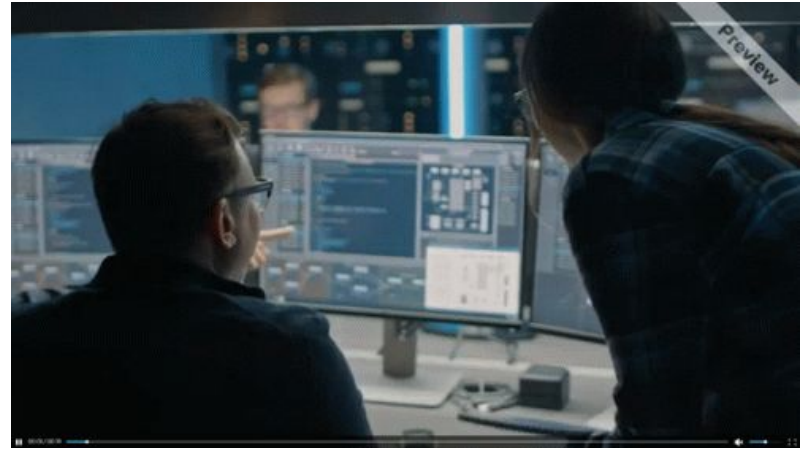
# Discounts?

— Let's go deeper —

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# Exposition



*“If you torture the data long enough, it will confess” - Ronald Coase*

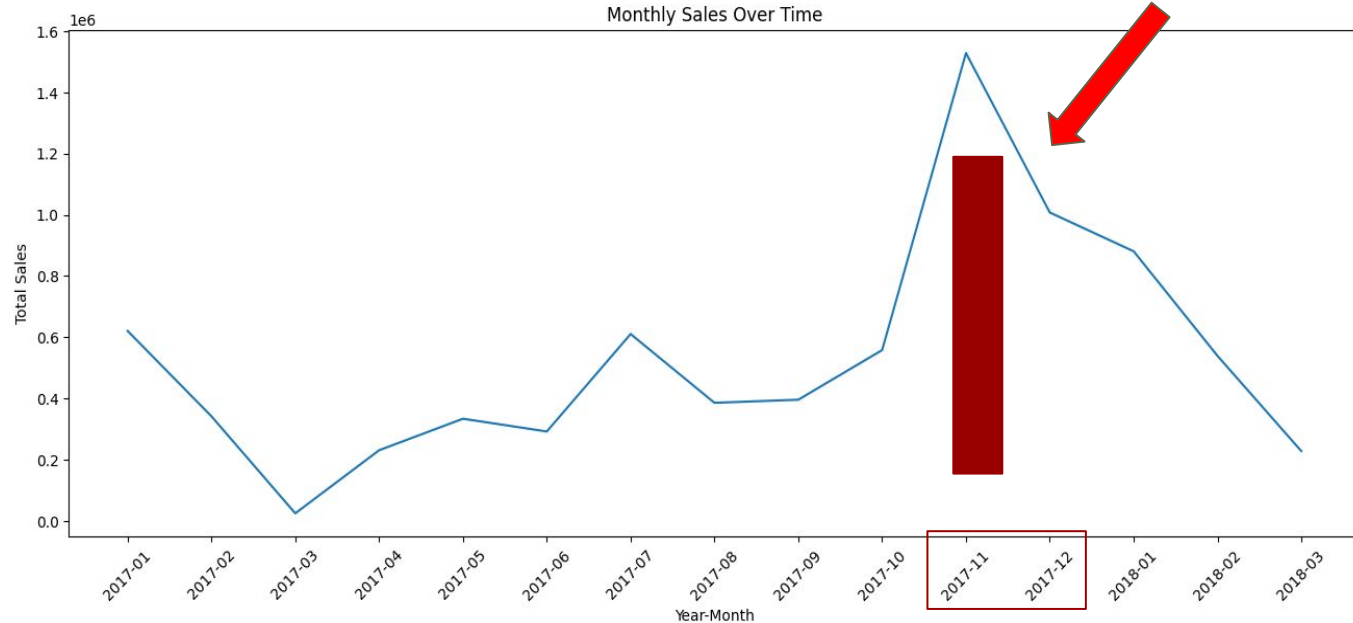
# A look at the Product Revenue

1. The Dataset covers a period from

2017-01-01 to  
2018-03-04 = 437  
days

2. Overall Revenue

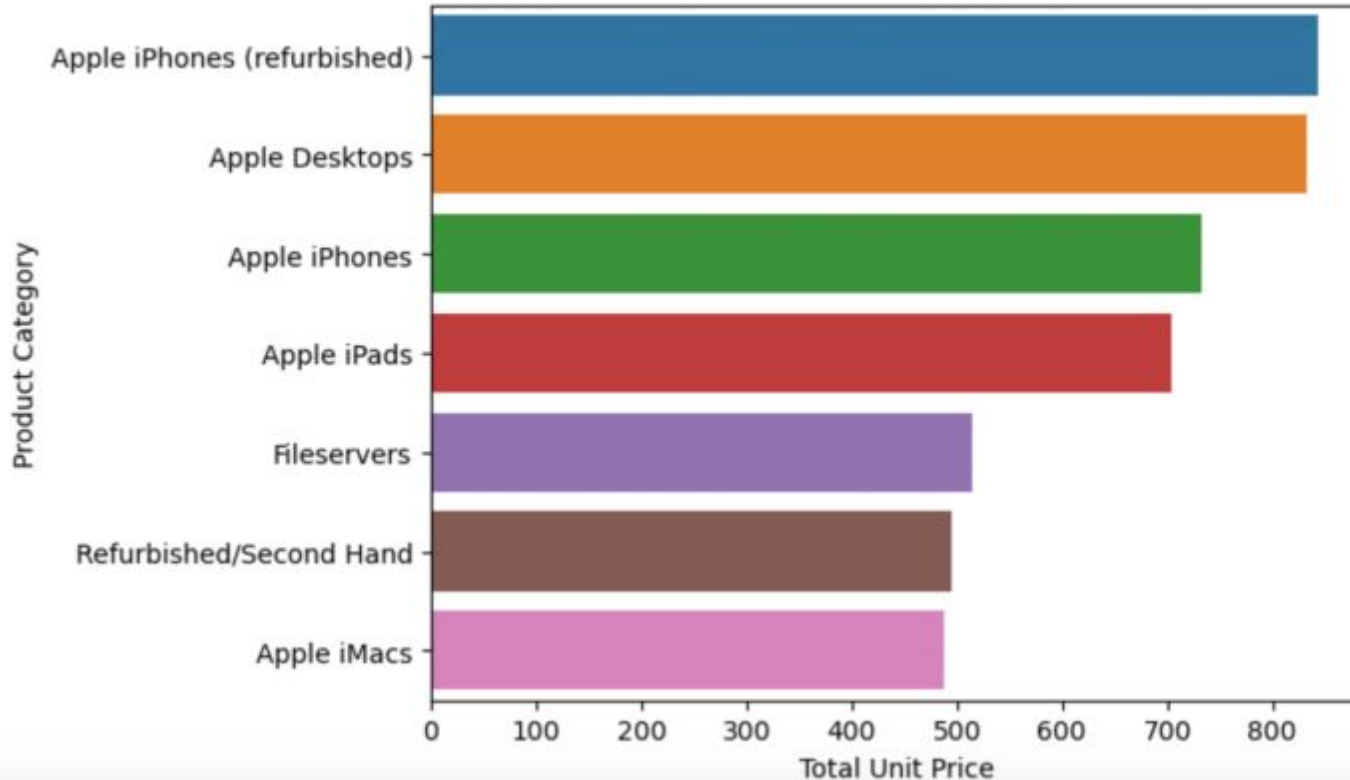
7 978 675.6 euro



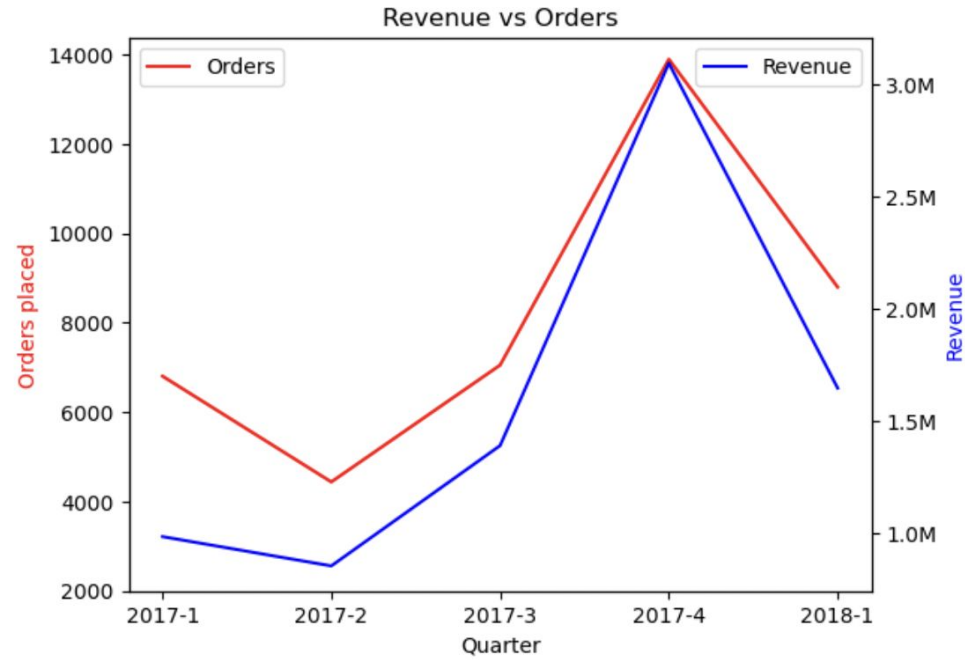
# Rising action

*“Without data you're just another person with an opinion” - W. Edwards Deming*

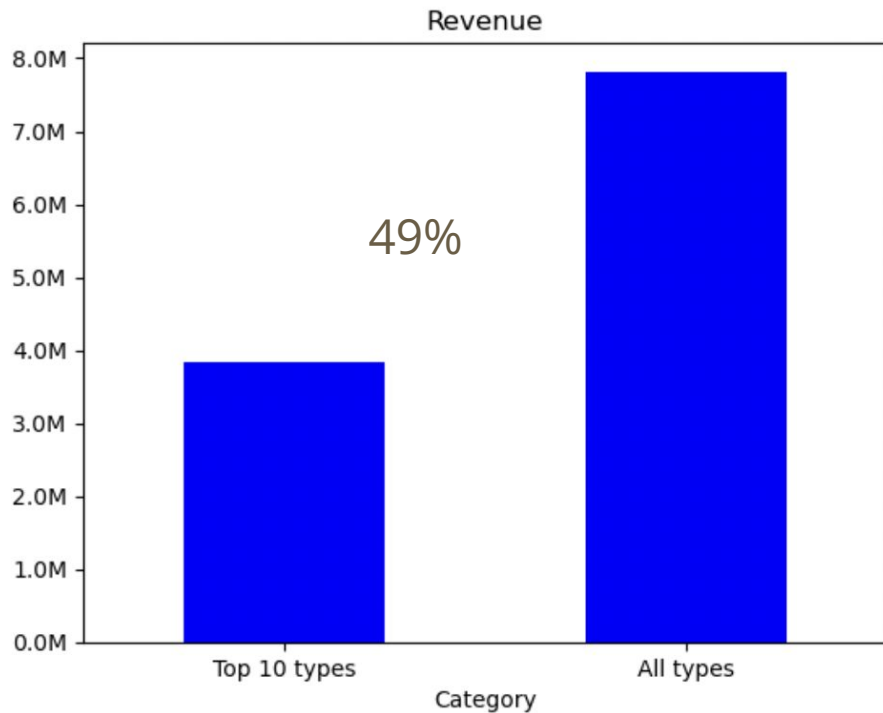
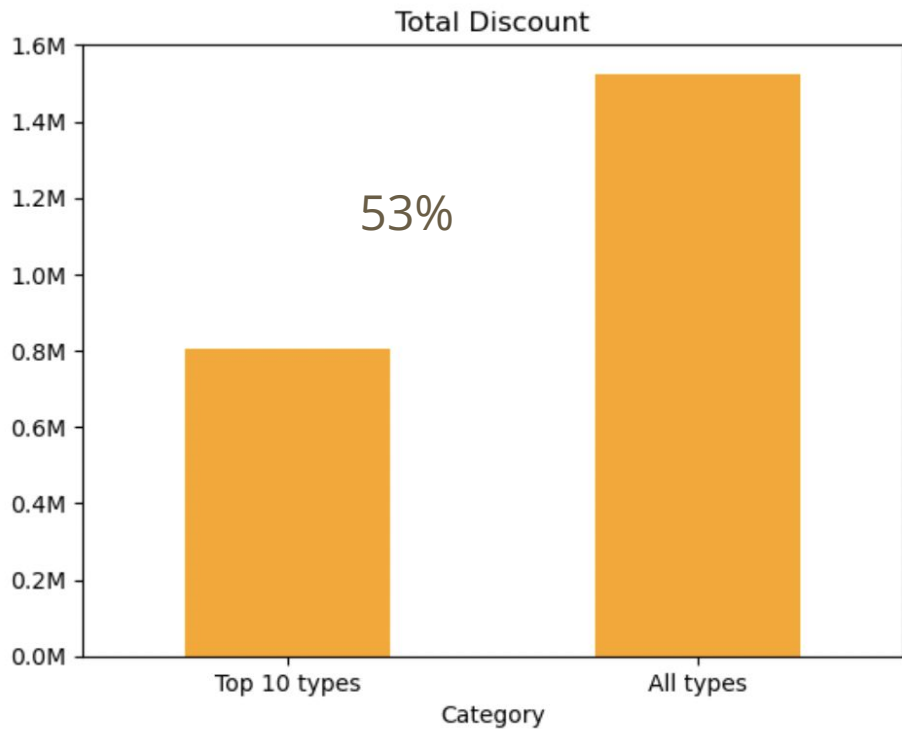
# Top Product Categories vs Price



# Relief to Investors worry!



# Top 10 types/114 of products Revenue/Discount



# Remove the discounts from top 10 types??

No Discount :

No historical evidence of sales

Revenue:

with discount= 3,843,926

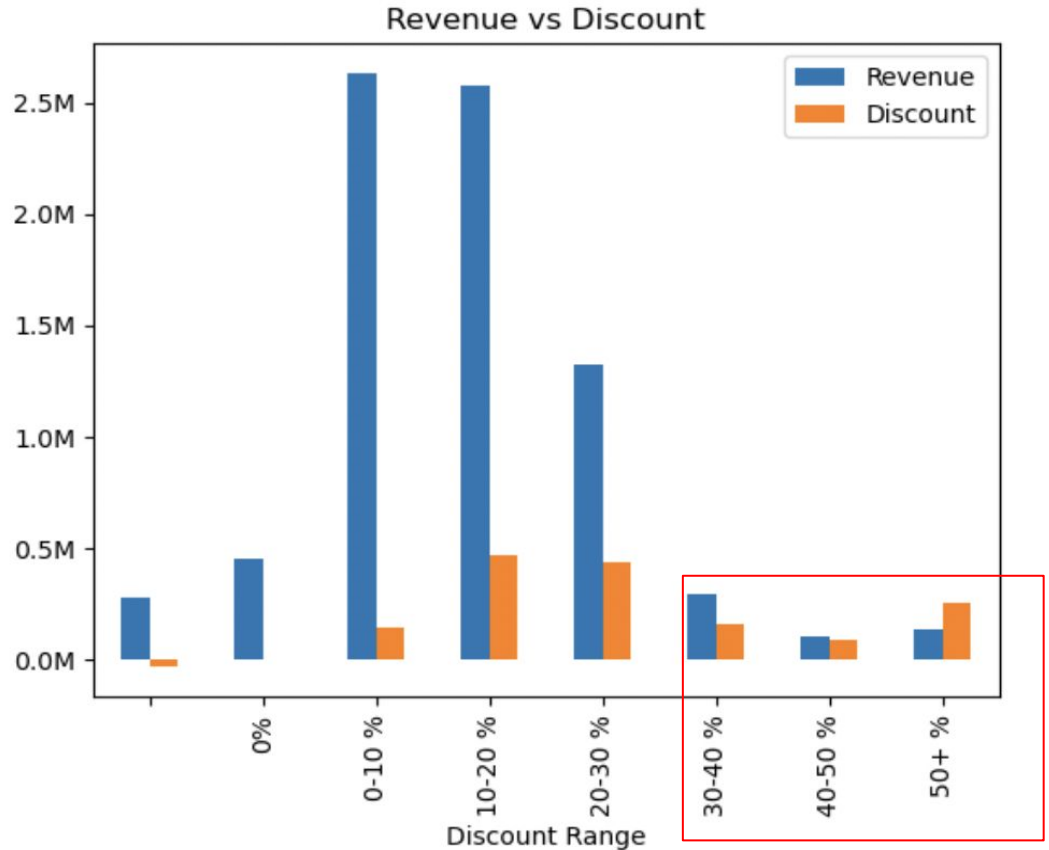
without discount=193,558





# Revenue & Discounts for discount ranges

Removing discounts 30+ %:  
No impact to the revenue  
Positive impact to profitability



# Falling Action

*“In God we trust, all others bring data.” – W. Edwards Deming*

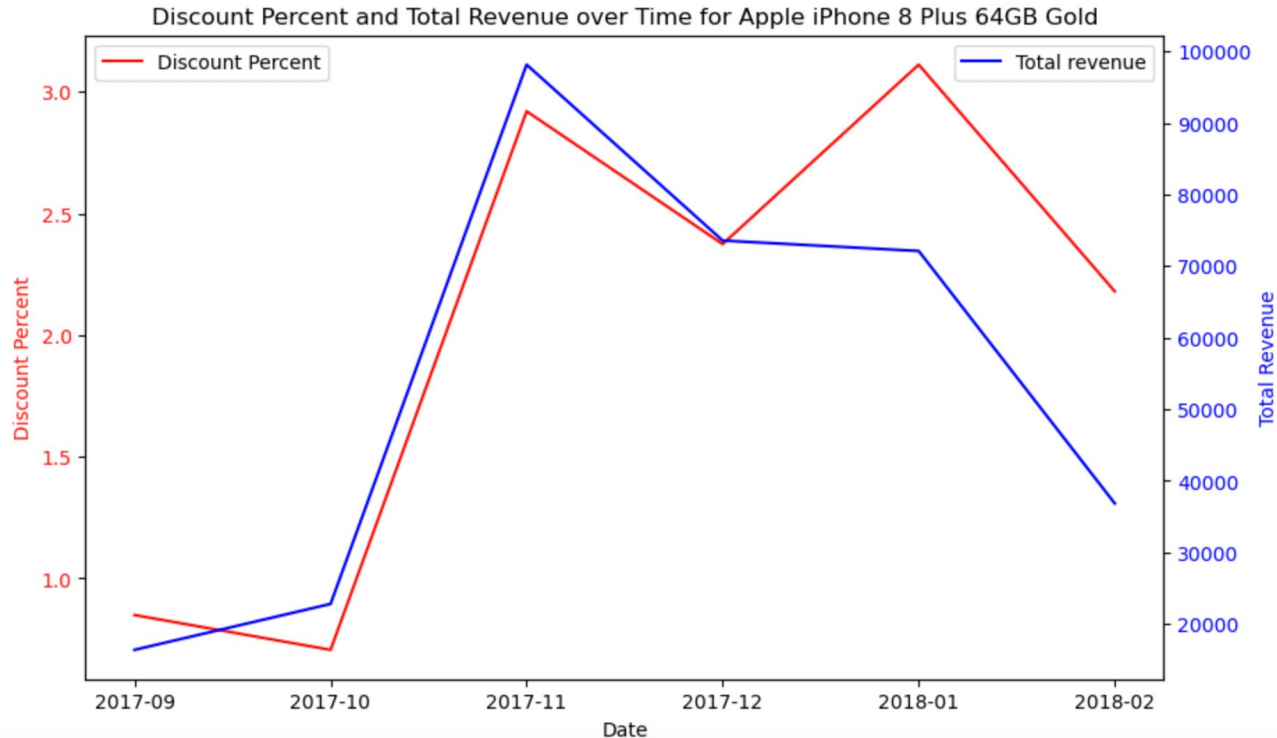
# How can we decide - are the discounts good or not?

Let's follow one product



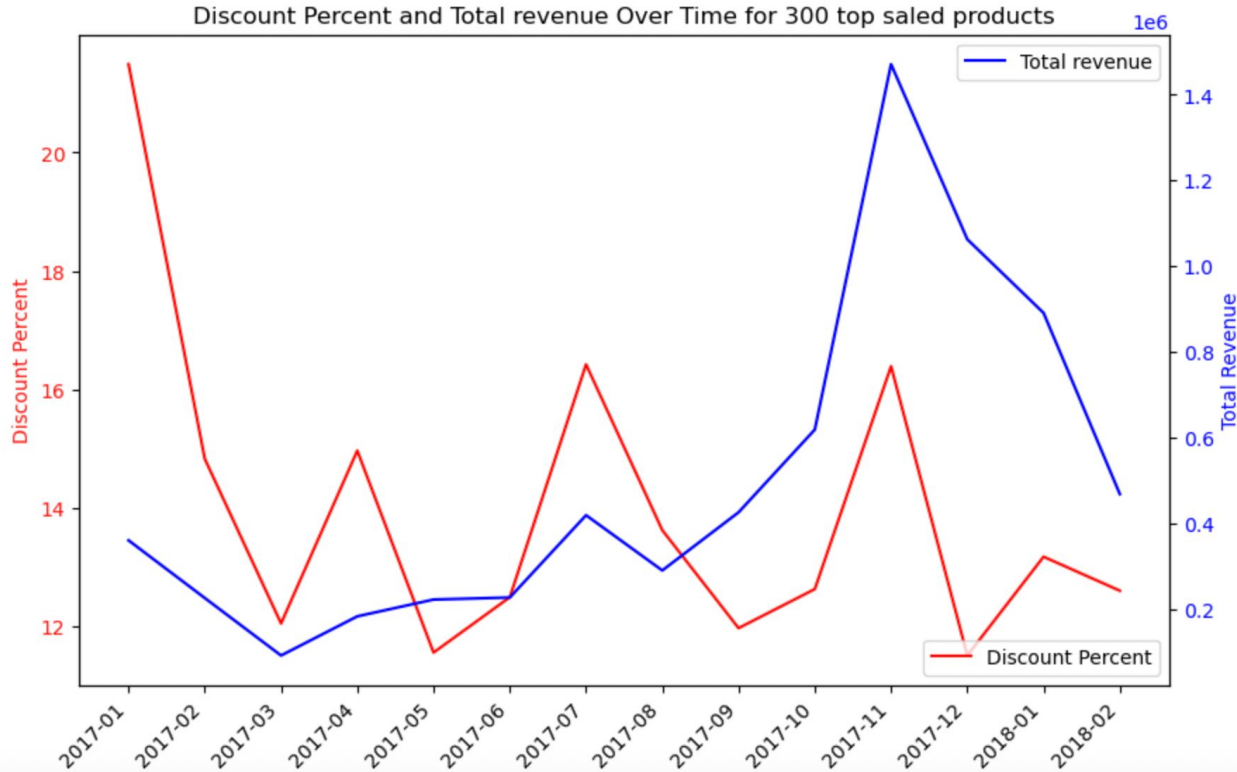
# Apple iPhone 8 Plus 64GB Gold

This is the product which provided us the greatest revenue



# 300 TOP SOLD products

300 products provided us 6 952 699.57 (**61.86 %**) euro revenue from total.



# Resolution

*“You can have data without information, but you cannot have information without data.” – Daniel Keys Moran*

# The Main Answer

Offering discounts **is** beneficial

! There are two exceptions:  
discounts are not necessary during  
the launch period of new Apple  
models on the market (1-2 months)  
and discounts are useless when  
they are higher than 30% !



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# EPILOGUE

— Thanks and Happy Discounts!!! —

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# Tips for a Better Data Analysis

## 1. How could Data Collection be improved?

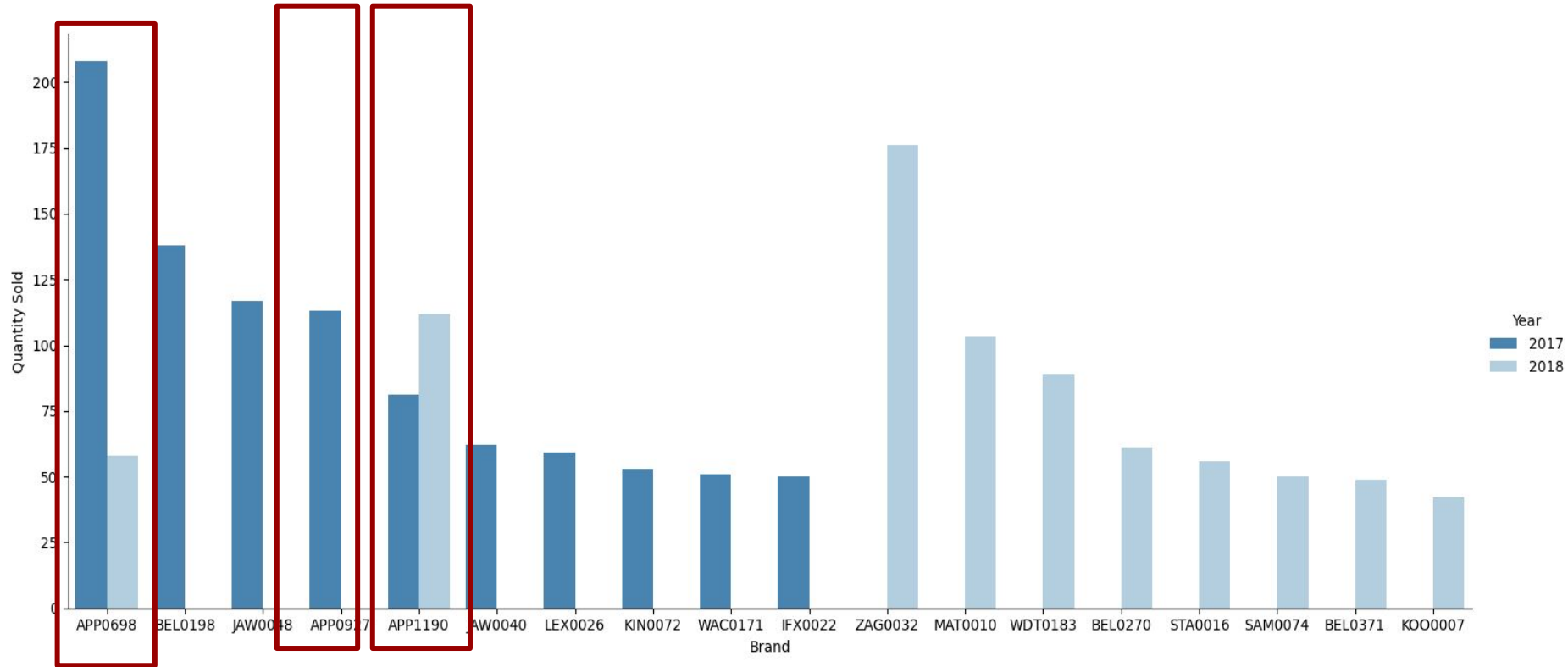
- Not **corrupted data**
- Better **Consistency**
- Less **Data Cleaning & Dropping steps**
- More time to analyze **products** in **categories** and discuss data

## 2. Do Seasonality and Special Dates (Christmas, Black Friday) affect sales?

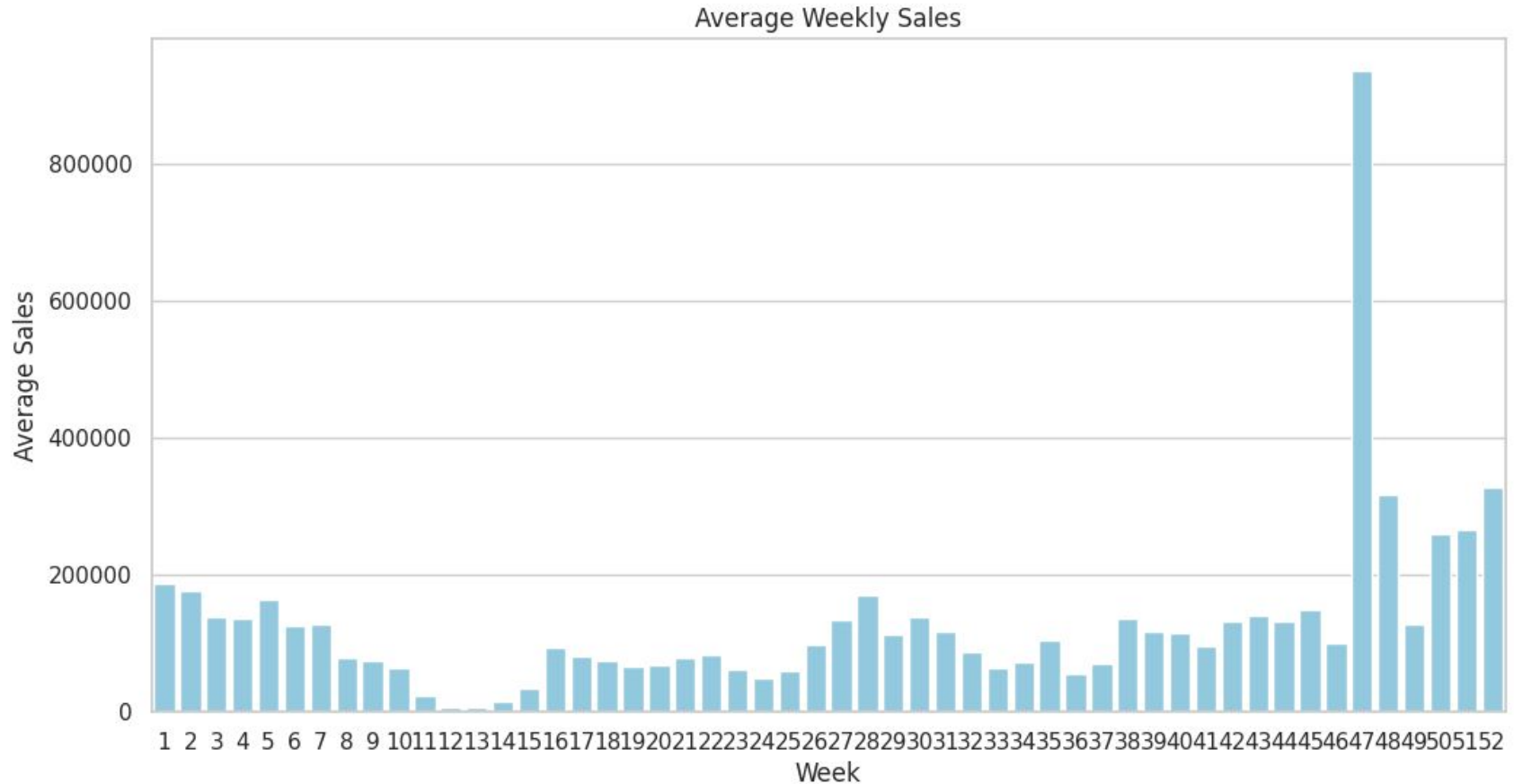
- Max Peak of products sold around 2017-11 & 2017-12
- 2017-12 **Christmas Festivity**
- from 17th to 27th **November Black Friday**



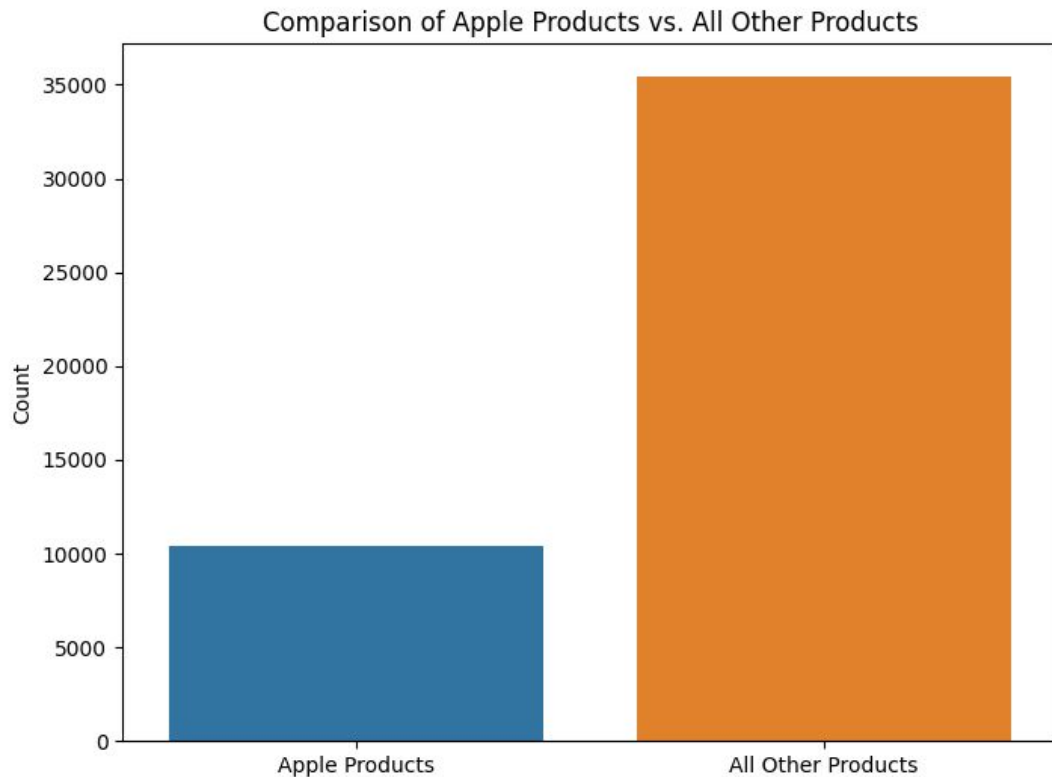
# Top 20 Products Sold



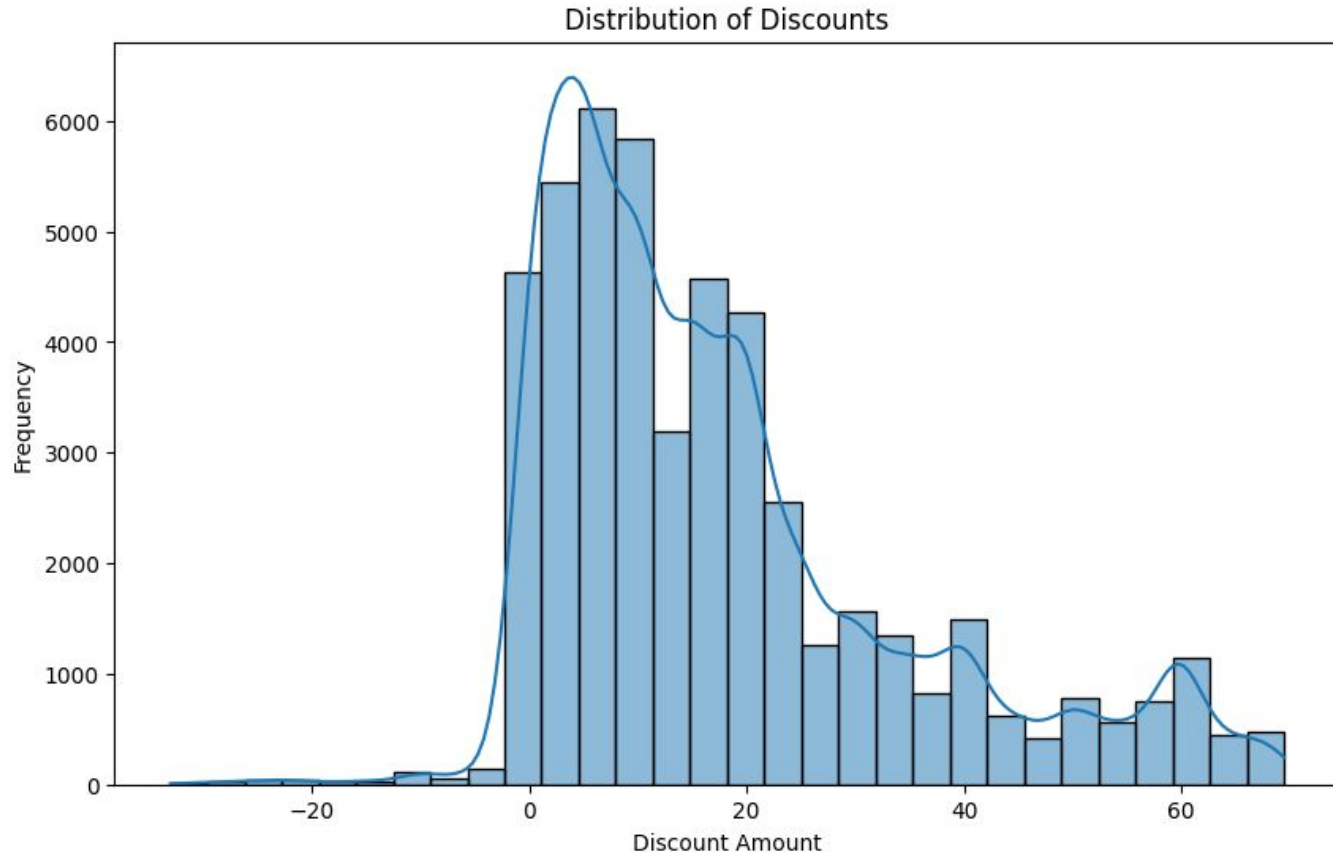
# AVG Weekly Sales



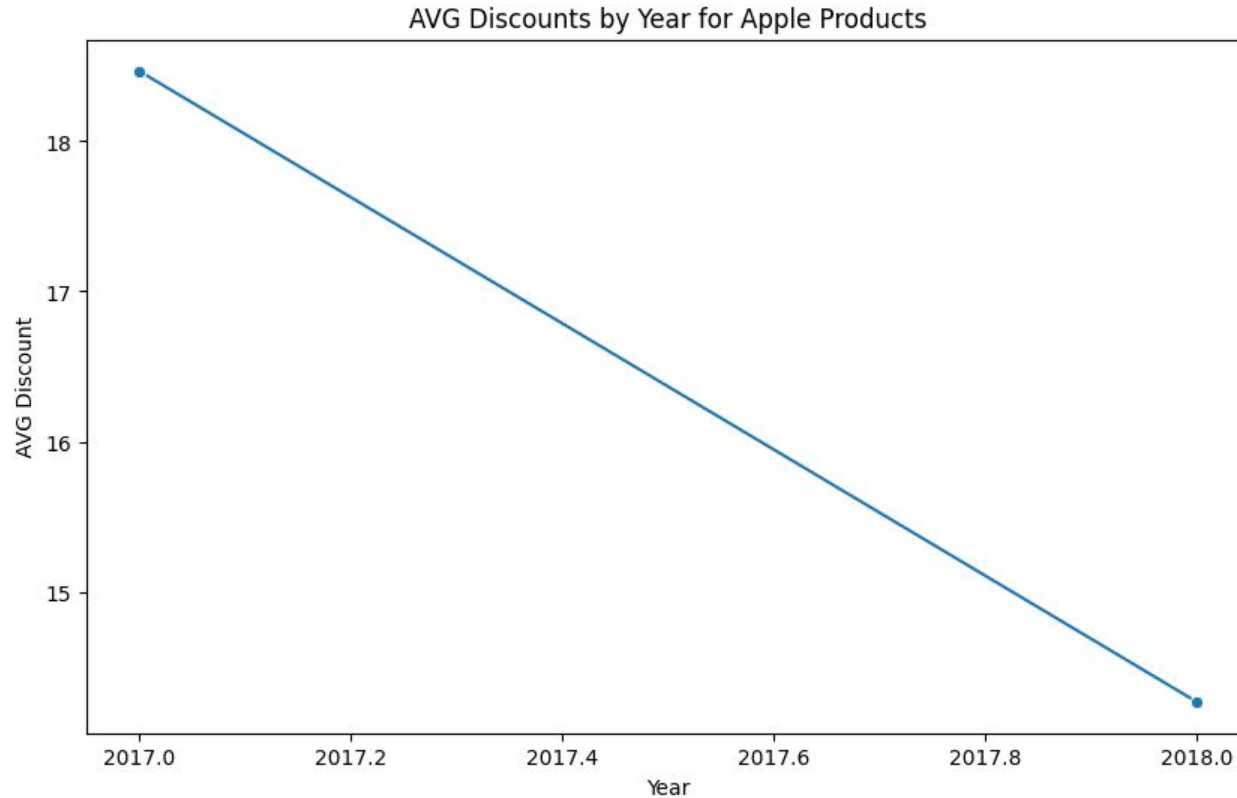
# APPLE vs Non-Apple Products



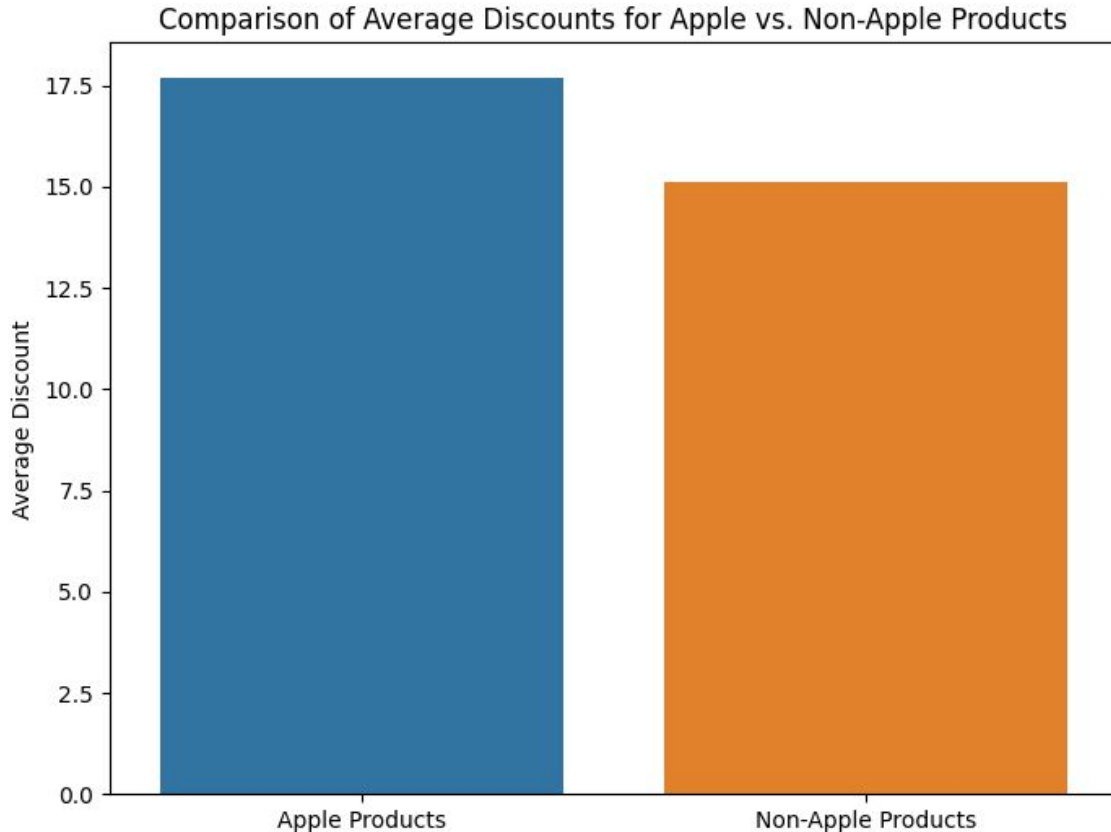
# Distribution of Discounts



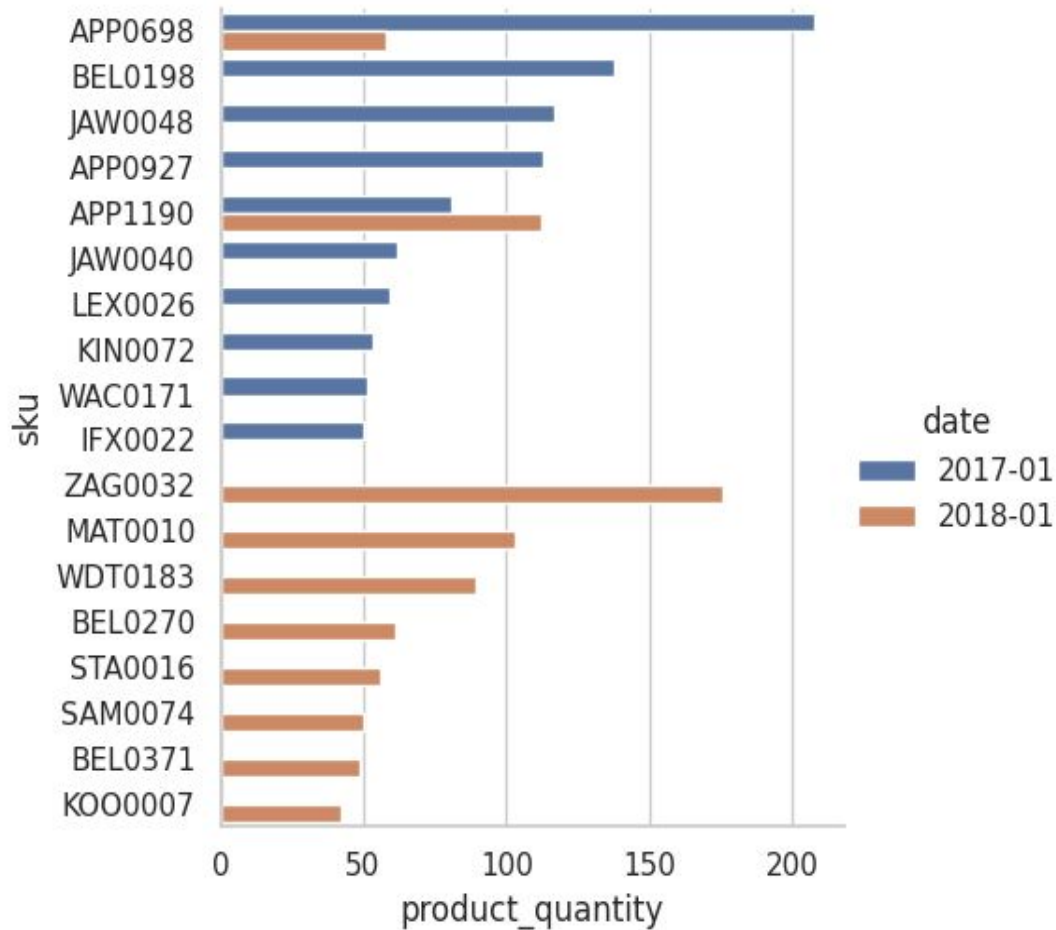
# AVG Discount of Apple Products



# AVG Discount of Apple Products



- Total Revenue Impact of Apple's Discounts: **102946.52** euro
- Total Revenue from All Products: **3002290.42** euro
- Percentage Impact of Apple's Discounts on Total **Revenue: 3.43%**

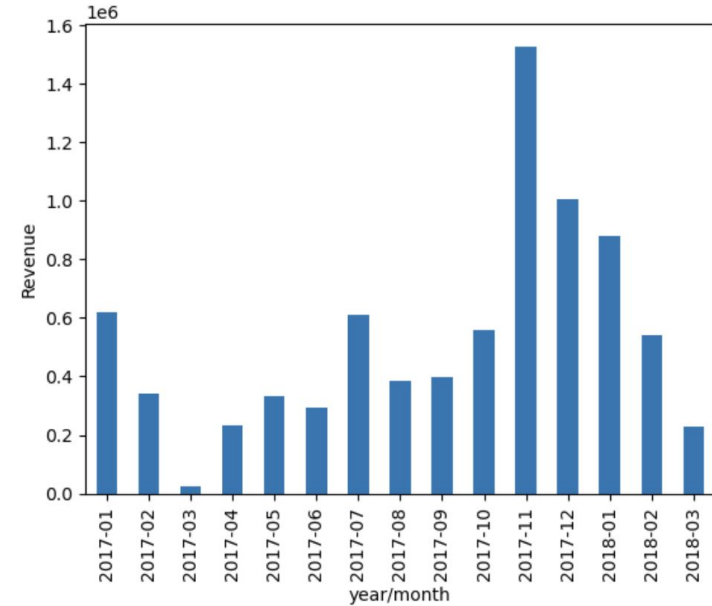
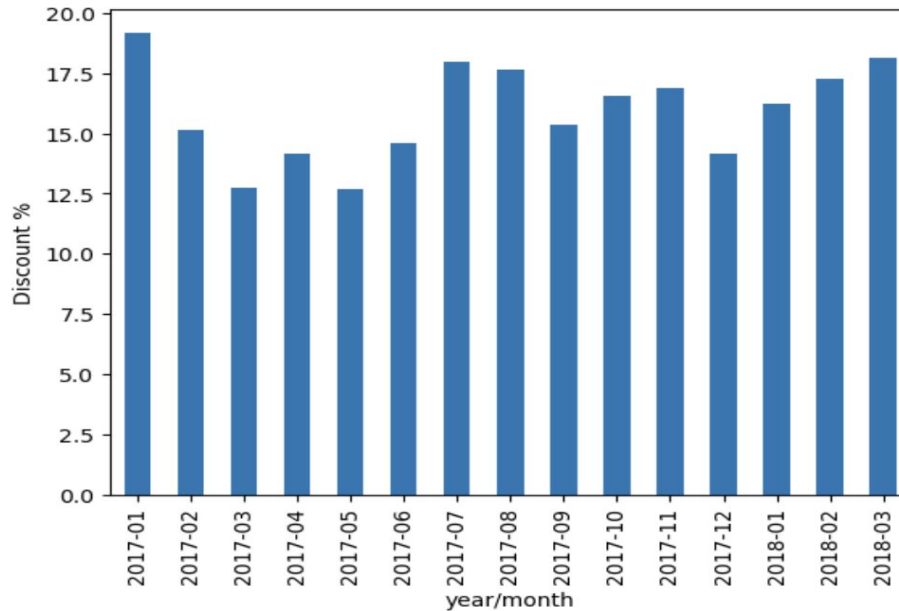


## Top 20 Products Sold ...

- Total Revenue Impact of **Apple's Discounts**:  
\$102 946.51
- Total Revenue from **All Products**:  
\$3 002 290.42
- Percentage Impact of **Apple's Discounts** on  
Total Revenue: 3.43%

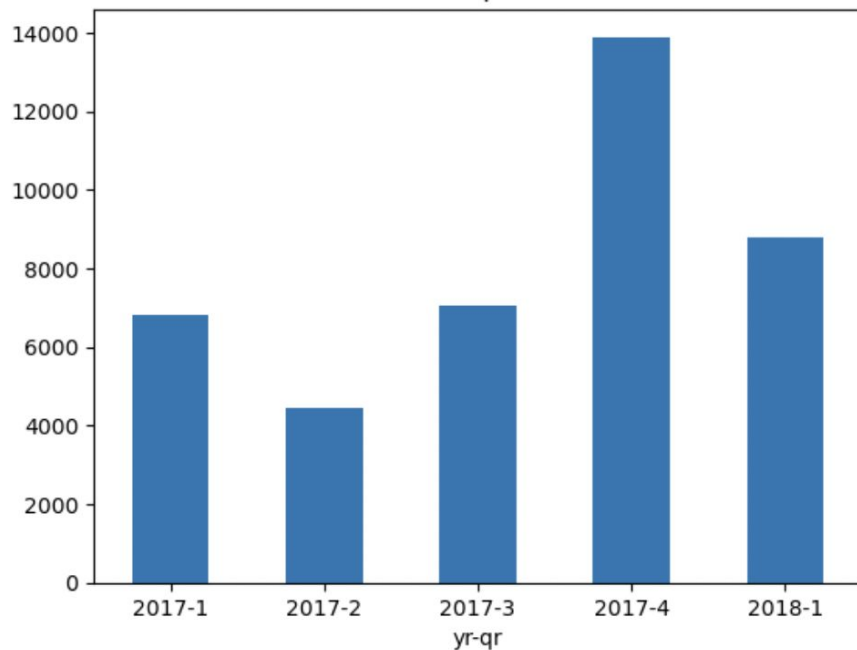


# Discount percent monthly

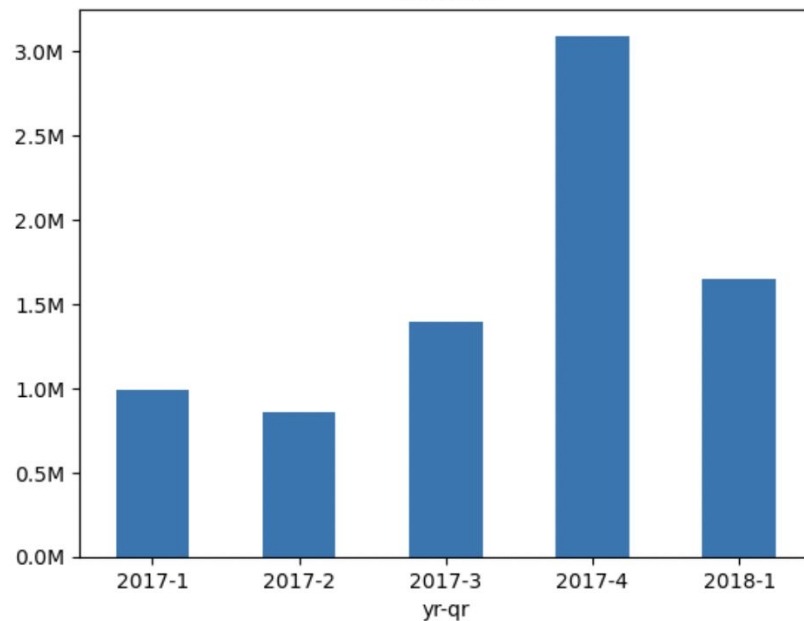


# Relief to Investors worry!

Orders placed



Revenue



# Complex & Corrupted Data

The **Dataset** is composed of :

1. Orders
2. Orderlines
3. Products
4. Brands