

# Visualization Insights of NYSE Data

# Introduction

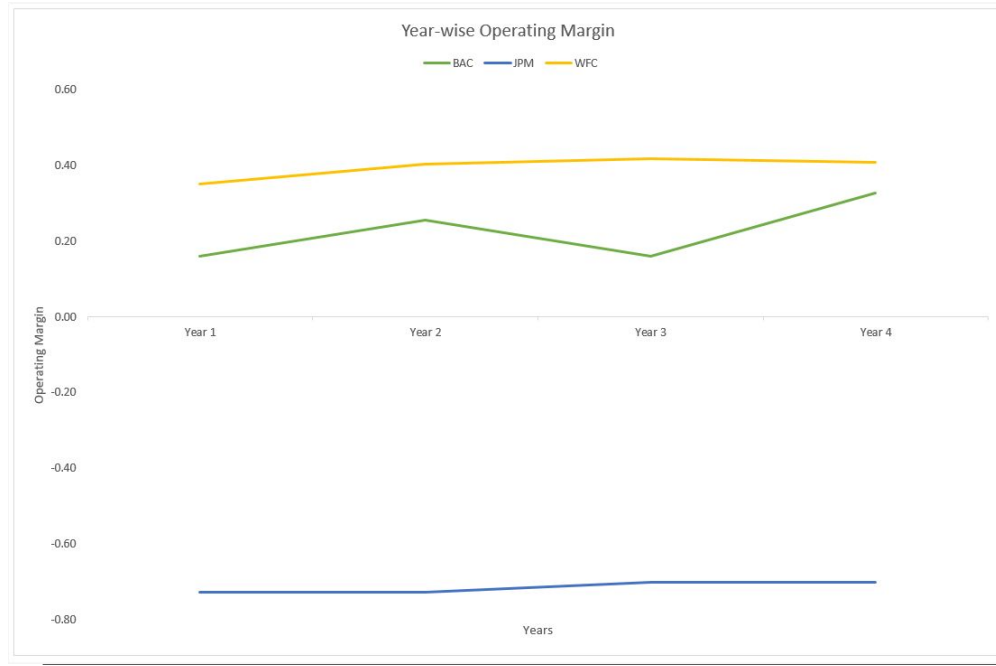
GICS Sub-sector chosen: Banks

Focused on top three banks for summary statistics

Abbreviations:

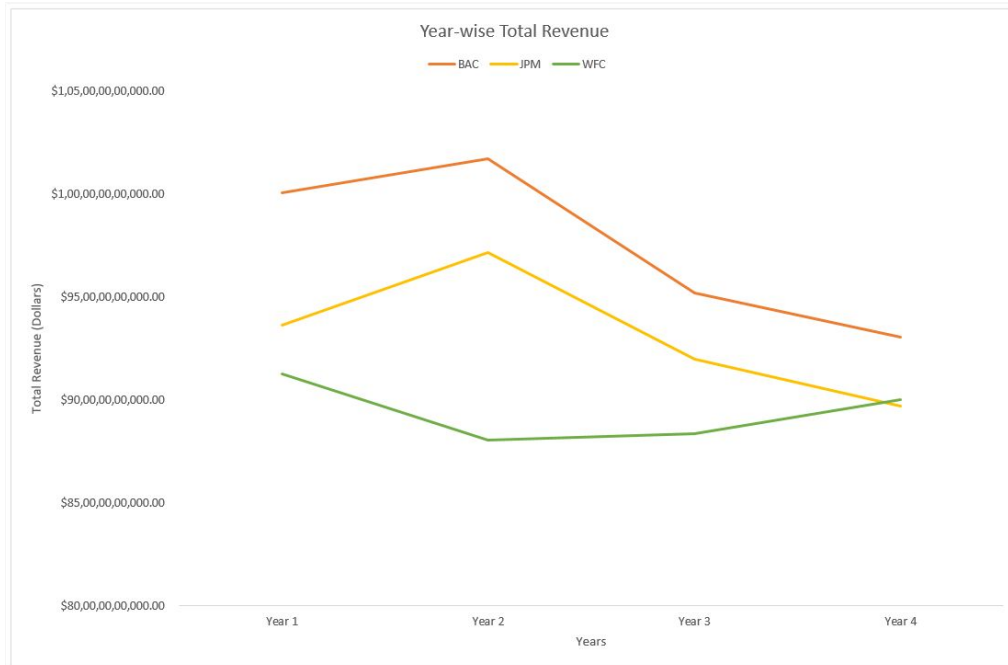
- JPM - JPMorgan Chase
- BAC - Bank of America
- WFC - Wells Fargo

# What portion of revenue is able to cover the operating expenses generated by the banks?



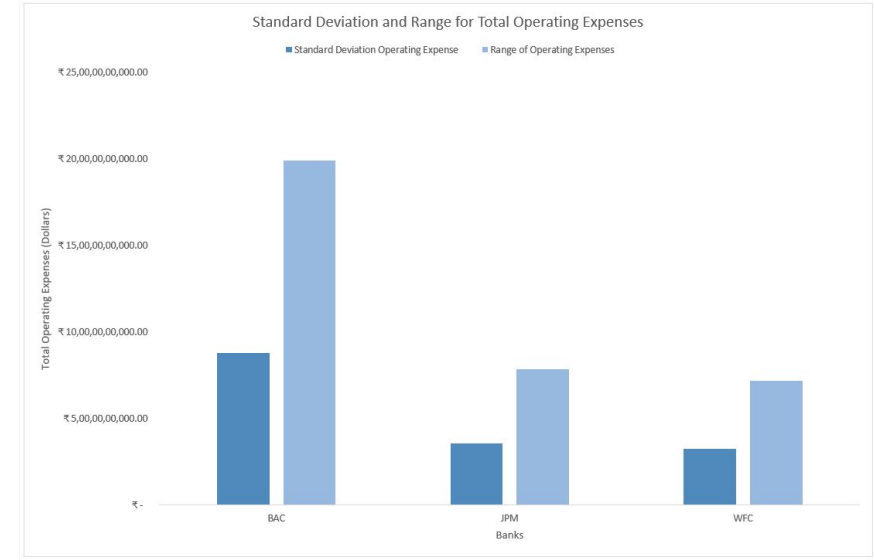
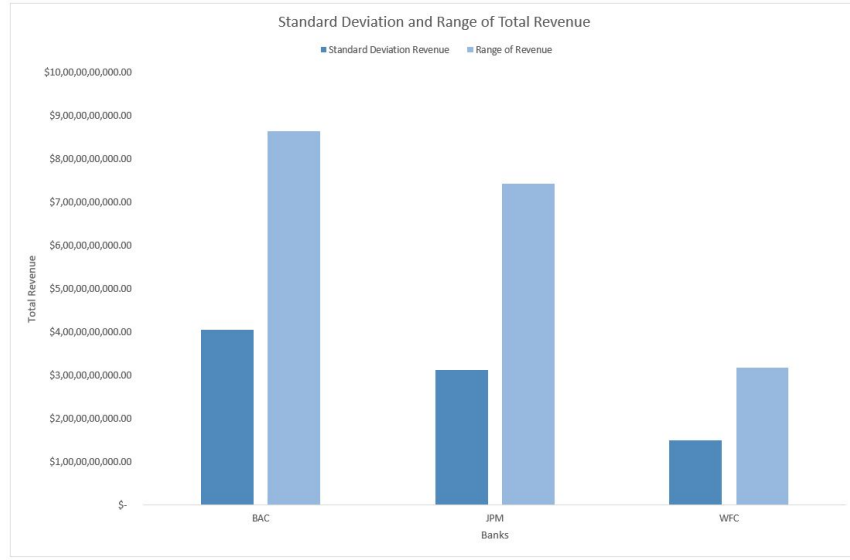
- This is a line graph to depict the operating margin for the three banks for a 4 Year period
- The operating margin for BAC is positive and shows more variability with a median of 0.21.
- The operating margin for WFC is positive and shows a steady curve with a median of -0.71
- Whereas the operating margin for JPM is negative and is more or less steady with a median of 0.41
- A positive margin indicates more revenue is generated than operating expenses
- Highly variable operating margins are a prime indicator of business risk

# Which bank generates the more Total Revenue each year?



- Here is the histogram of Total Revenue for the Banks- BAC, JPM and WFC for a 4 year period
- I observed that for each year, BAC has generated the highest Total Revenue compared to other two banks
- Whereas, WFC has generated the lowest Total Revenue each year compared to the other banks
- The Median of Total Revenue for BAC is also higher (97,62,95,00,000) compared to JPM (92,80,95,00,000) and WFC (89,20,25,00,000)

# Do the top 3 Banks have similar spread in their Total Revenue and Total Operating Expenses?



These are the bar graphs for Standard Deviation and Range of Total Revenue v/S Total operating Expenses. Both the graphs depict that the measure of spread is more Operating Expenses compared to Total Revenue. This means that the data for Total Operating Expenses shows more variability with more banks generating more than \$ 4,00,00,00,000. The variability is low for WFC but high in case of BAC. Higher the range, difference between maximum and minimum values, higher is the variability in the data as depicted by the standard deviation bins for BAC. In some cases, higher the variability, higher are the risks.