

Data analysis on StoreData

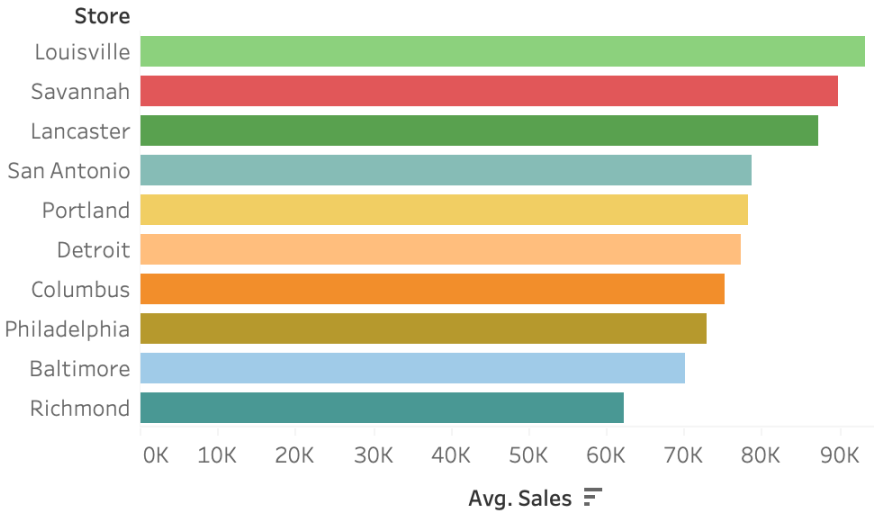
by

Nilanjan Haldar

13.09.23

Sales overview

- 1. The stores are located within the same geographical area that has fixed Macro economical effect.
- 2. All the stores seem to sell similar products, that's why bigger stores with higher number of employees tends to sell more products.

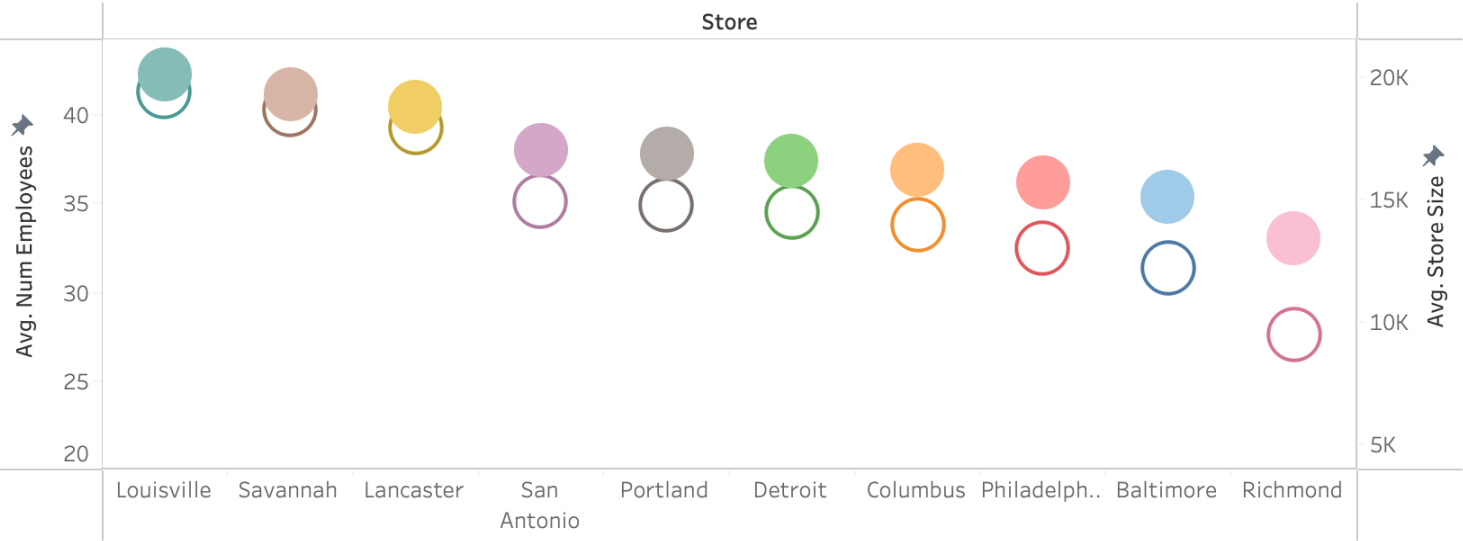


Macro economics per store

Store	Avg. Econ ChangeGDP	Avg. Econ Jobs Chan..	Annualized CPI
Baltimore	1.8	-590.7	0.5
Columbus	1.8	-590.7	0.5
Detroit	1.8	-590.7	0.5
Lancaster	1.8	-590.7	0.5
Louisville	1.8	-590.7	0.5
Philadelphia	1.8	-590.7	0.5
Portland	1.8	-590.7	0.5
Richmond	1.8	-590.7	0.5
San Antonio	1.8	-590.7	0.5
Savannah	1.8	-590.7	0.5



Store size & employee count

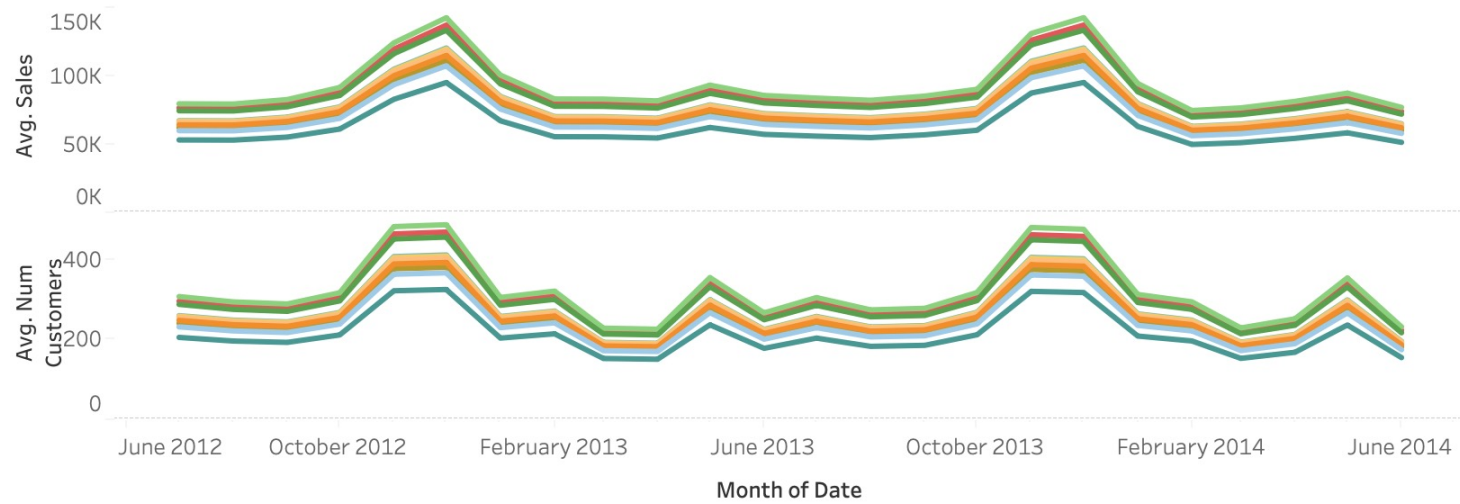


Sales wrt Time

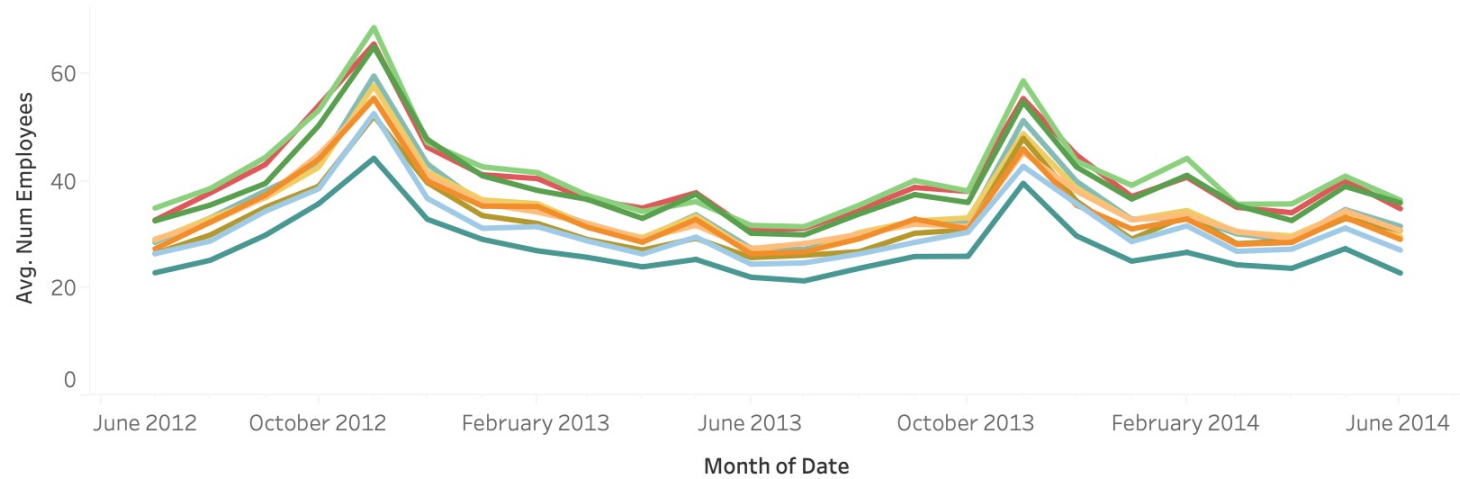
- 1. Sales and customer volume correlates strongly.
- 2. The stores hire additional temporary employees during the peak sales times - hypothesis: This stores sells products that needs support of sales person.
- 3. The sales increases significantly during holiday seasons - Christmas, Black Friday sale (Nov) - some sales also happen in Summer during July.



Sales & Customers over time



No of emps by Store

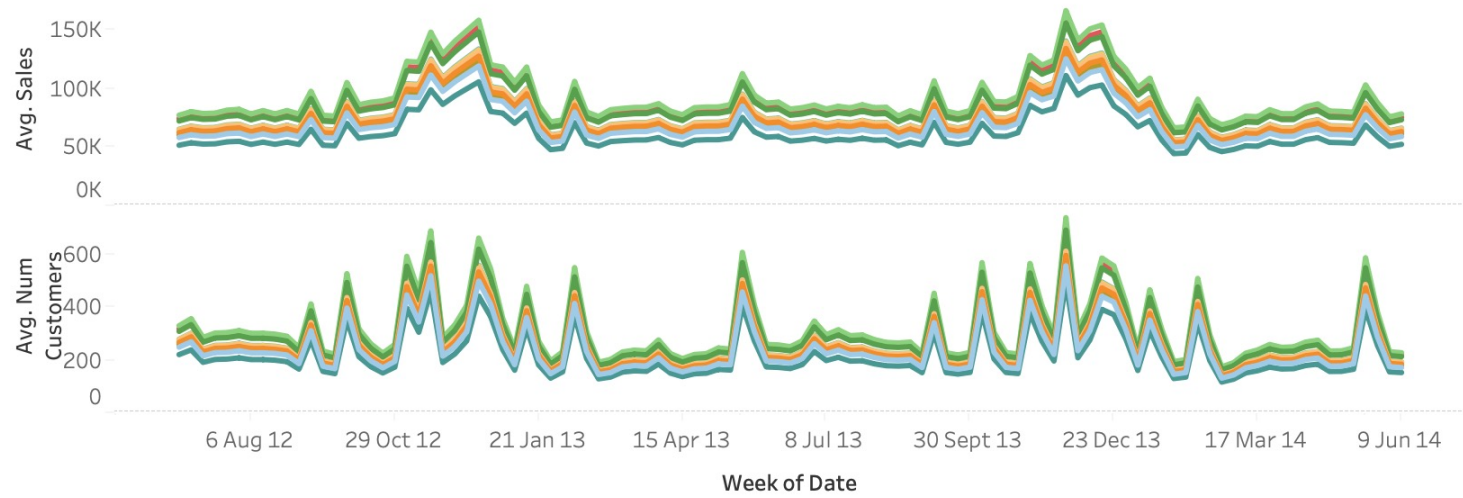


Sales wrt Time

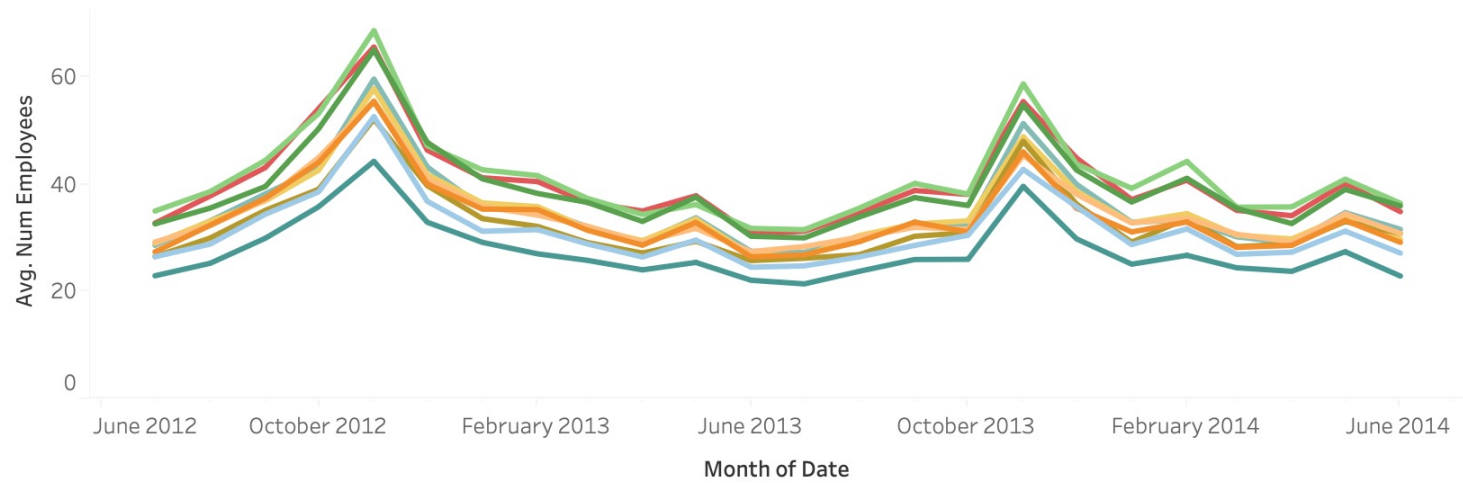
- 1. Sales and customer volume correlates strongly.
- 2. The stores hire additional temporary employees during the peak sales times - hypothesis: This stores sells products that needs support of sales person.
- 3. The sales increases significantly during holiday seasons - Christmas, Black Friday sale (Nov) - some sales also happen in Summer during July.



Sales & Customers over time



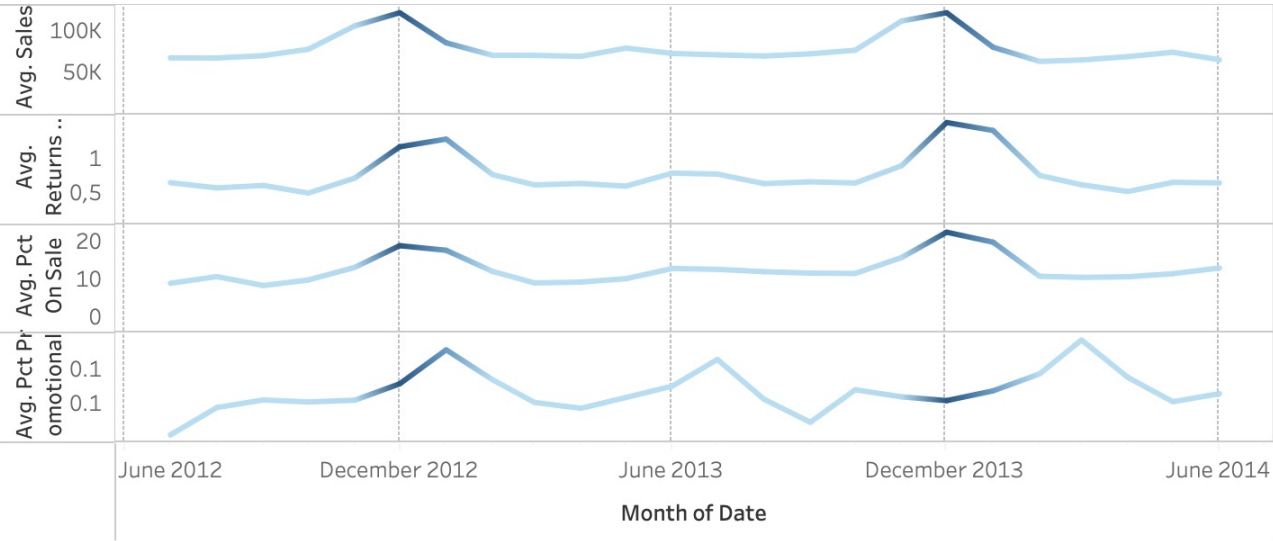
No of emps by Store



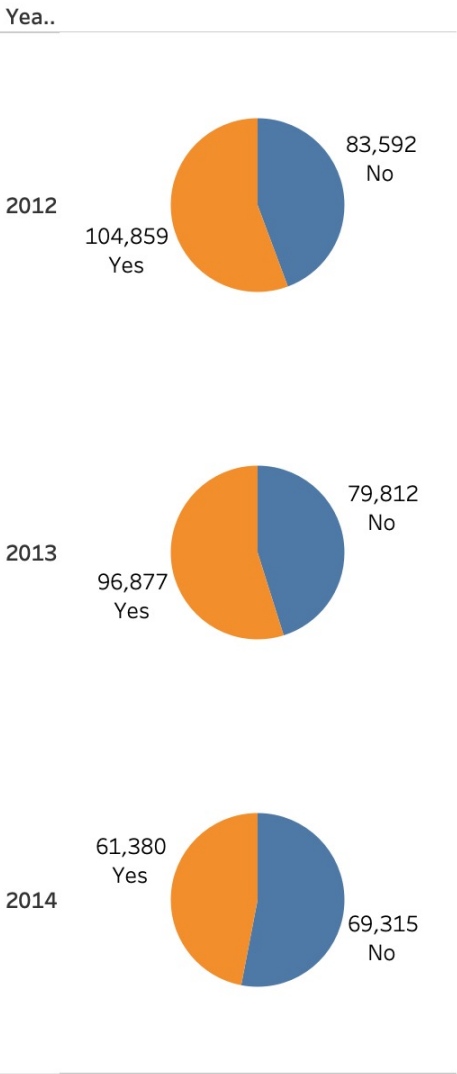
Sales with seasonality & marco economics

- 1.Black Friday and Christmas (Nov & Dec) months outperform all other months in terms of sales.
- 2. The macro economics do not seem to affect the sales on the first look.

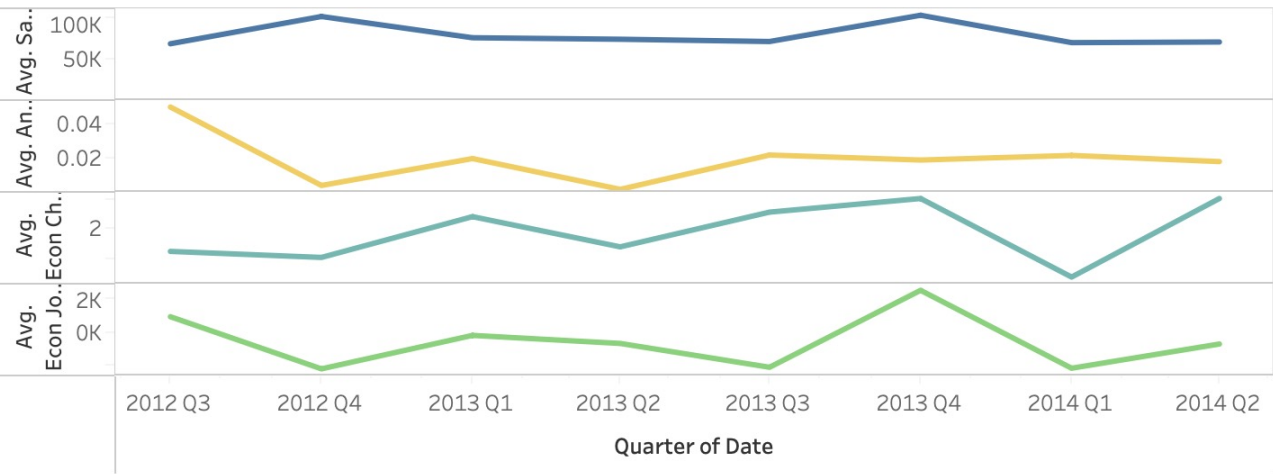
Sales vs Returns vs Pct Promotions Correlation



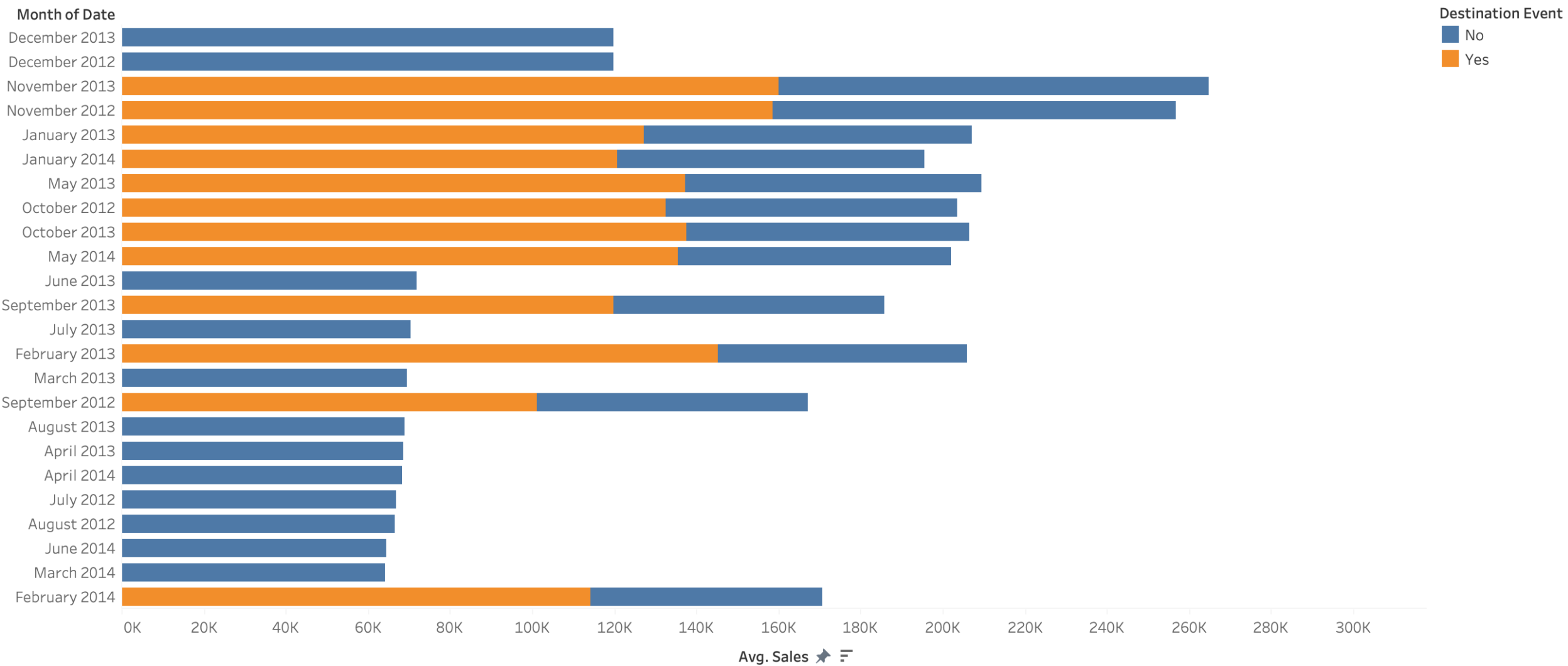
BlackFriday & Chistmas vs Avg sale



Sales vs Macro economics correlation



Destimation events on sales



Average of Sales for each Date Month. Color shows details about Destination Event. The data is filtered on Store, which keeps multiple members.