Ticket Buyers Analysis

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Agenda:

- 1. Data Setup
- 2. Demographics Visualization
 - What do ticket buyers look like in terms of their make-up and financial situation?
- 3. Lifestyle Visualization
 - What are NYCFC ticket buyers spending on and what does their consumption look like?
- 4. Business Insights
- 5. Q&A

Columns to clean

- State (need to clean into 2-letter abbreviation format)
- City
 - Contains misspelling and incorrect information, decide to focus on state level
- Discretionary Income Index
 - 488 null value, dropped when creating dashboard
- Rfm grade
 - Correct 'S' to 'B'

State - errors in abbreviations

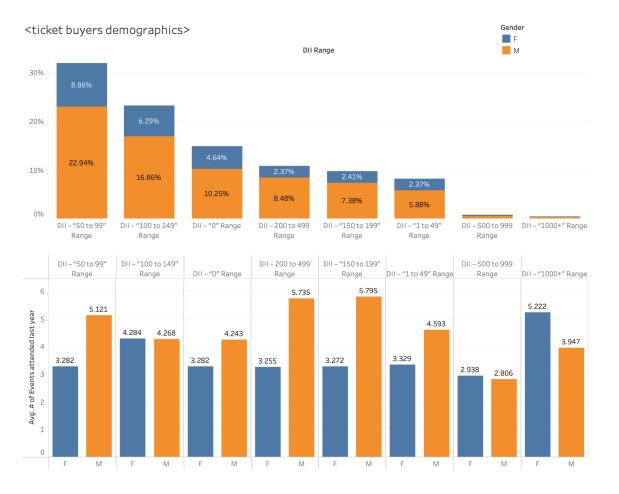
Wrong Abbrev.	State
Conne	СТ
MASSA	MA
MICHI	MI
n	NY
new	NY; for Rahway, NJ
New J	NJ
New Y	NY
NJ -	NJ
North	NC; some are cities in NY

Wrong Abbrev.	State
NUEVA	NY
ONTAR	ON
PENNS	PA
TEXAS	TX
VIRGI	VA

Use zip code range to assign correct state abbreviations. Reference:

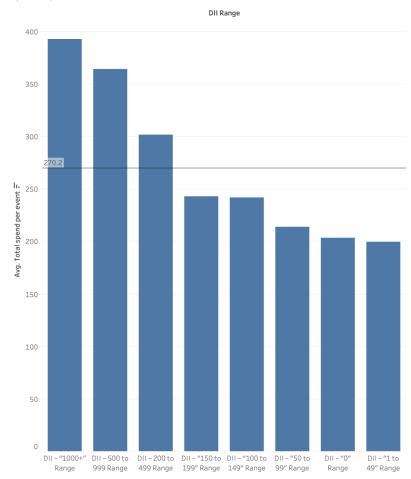
https://www.structnet.com/instructions/zip_min
max by state.html

Also, we want to exclude rows with Null in Zip code



- Most of ticket buyers come from DII-"50-99" range and DII "100 to 149" range.
- For DII "1000+", DII "500 to 900", and DII - "100 to 149", female buyers attended more events last year, on average.
- Across all DII ranges, # of male buyers is 2-3x # of female buyers
 - But, female buyers are almost as engaged as male buyers attending last year event.

spend_per_event



- DII "1000+" range has \$ spend per event 2 times higher than the lowest spend per event at DII - "1-49" range.
- DII "1000+" range, DII "500 to 999" range, and DII "200 to 499" range all have higher than the average spend per event for all DII ranges.

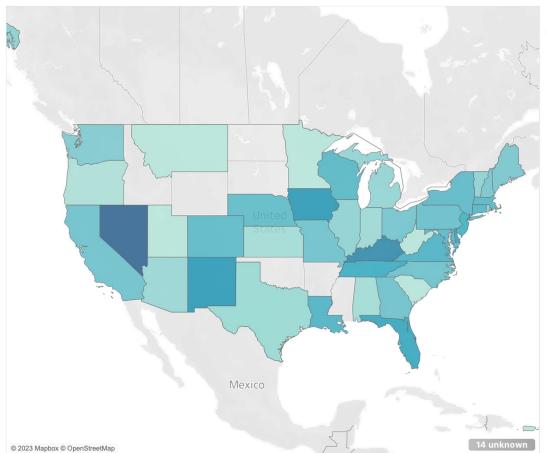
<DII Range by Rfm Grade>



% of Total Distinct count of Acct Id for each Rfm_Grade_Cleaned broken down by DII Range. The view is filtered on DII Range, which excludes .

- For DII "1000+" range and DII "500 to 999" range:
 - Rfm grade structure shows very different composition compared to other groups.
 - Why?

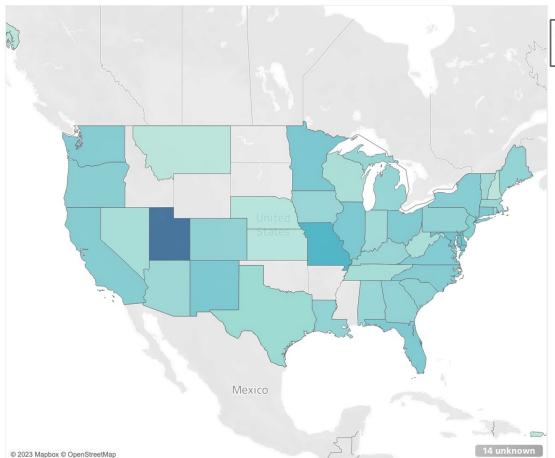
<NYCFC ticket buyers spending by State and category >

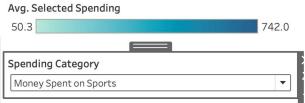




NV has the highest average \$ spending of concerts tickets.

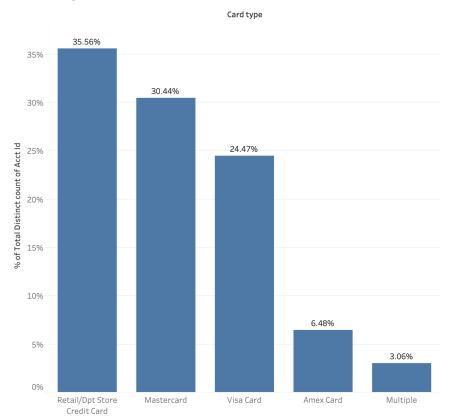
<NYCFC ticket buyers spending by State and category >





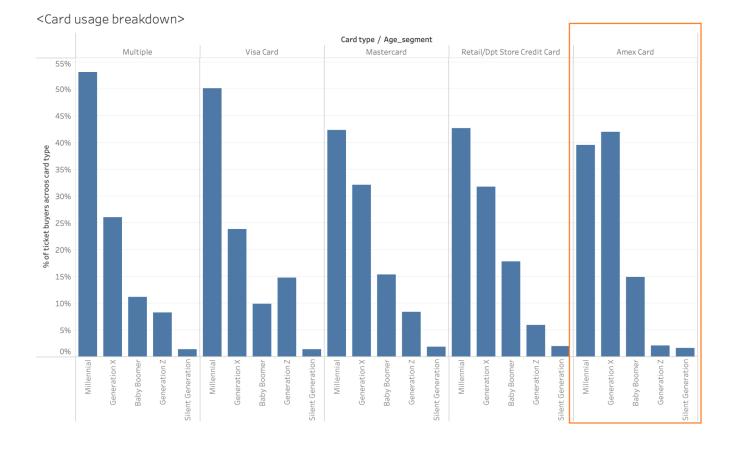
UT has the highest average \$ spending of sports tickets.

<Card usage breakdown>



Amex card is used less frequently by ticket buyers. However, I found some account in the dataset with two and more card types.

% of Total Distinct count of Acct Id for each Card type.



The age composition for buyers using Amex card is different from other buying options.

Insights

- Ticket buyers have different spending patterns for sports tickets and concerts tickets.
 - Correlation between average \$ spent on sports and average \$ spent on concerts is around 0.27.
 - Maybe group state by college/league division, compute a weighted average based on # of buyers, and the pattern could be different.
- Across all DII ranges, # of male buyers is 2-3x # of female buyers
 - But, female buyers are almost as engaged as male buyers attending last year event.
 - Potential opportunities of promoting tickets to this group of ticket buyers
- The age composition for buyers using Amex card is different from other buying options.
 - If we want to have campaigns on Amex card, we should focus on different age group than the other card.

A&D