

Client: Etsy

Problem: How can Etsy help shop owners increase user engagement via app, and utilize all of the features on its platform to drive sales.

General questions:

- Does shop location matter
- How is free shipping determined
- How are ratings displayed in category UI
- Who is shop owner full time/ part time
- Do admirers (followers) increase reviews/sales of shop

Questions Sales vs Active listings:

- What price points do well with active listings
- Do shops that organize their active listings by category do better than ones that do not
- Do shops with less active listings do more custom orders

Questions Sales vs Number of Reviews:

- What are reviews based on, is it overall or categorical
- Do reviews help overall sales
- How do sales help a shop move up in the main UI vs categorical UI

Impact Hypothesis: Understanding the types of shop types and owners on Etsy will allow Etsy to outreach to each with a strategy tailored to each shop.

Dataset:

<https://www.kaggle.com/snowwlex/etsy-shops>

Features:

- 2019 Etsy Seller Accounts
- Number of Sales
- Active Listing Count
- Number of Reviews
- Review Ratings

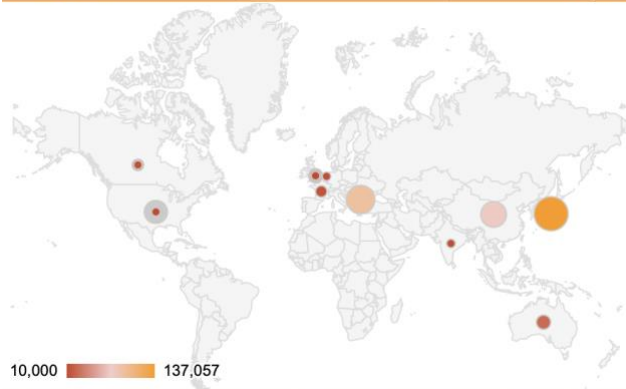
Preliminary Analysis:

- Will Etsy App increase in popularity if we can increase shop to customer engagement, can we increase e-commerce app to top 5 most popular
- Active listings do not help number of sales
 - UI shows top shops that have well organized active listings by category have high # of admirers/ reviews
- Customer reviews are anywhere from 5% to 28% of average number of sales, no definite relationship between sales/reviews **by location**

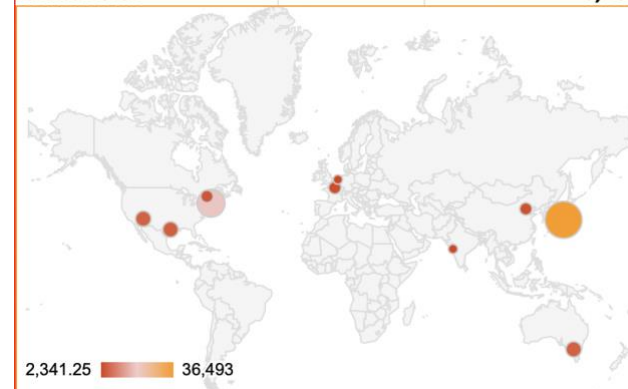
Most popular e-commerce apps in the U.S. 2019, by reach (Source: Verto Analytics)		
Most popular mobile shopping apps in the United States as of September 2019, by reach		
1	Amazon (main)	80.64 in %
2	Walmart (main)	46.08 in %
3	eBay (main)	33.28 in %
4	ibotta	25.2 in %
5	Target (main)	24.31 in %
6	Groupon (main)	18.75 in %
7	Etsy	17.21 in %
8	The Home Depot	16.13 in %
9	Wish (main)	14.81 in %
10	Best Buy (main)	14.01 in %

AVERAGE of % Customers Leaving Reviews	
Seller_Country	
Australia	23%
Bulgaria	21%
Canada	28%
China	5%
England	16%
France	24%
India	21%
Japan	27%
The Netherlands	21%
United States	24%
Grand Total	23%

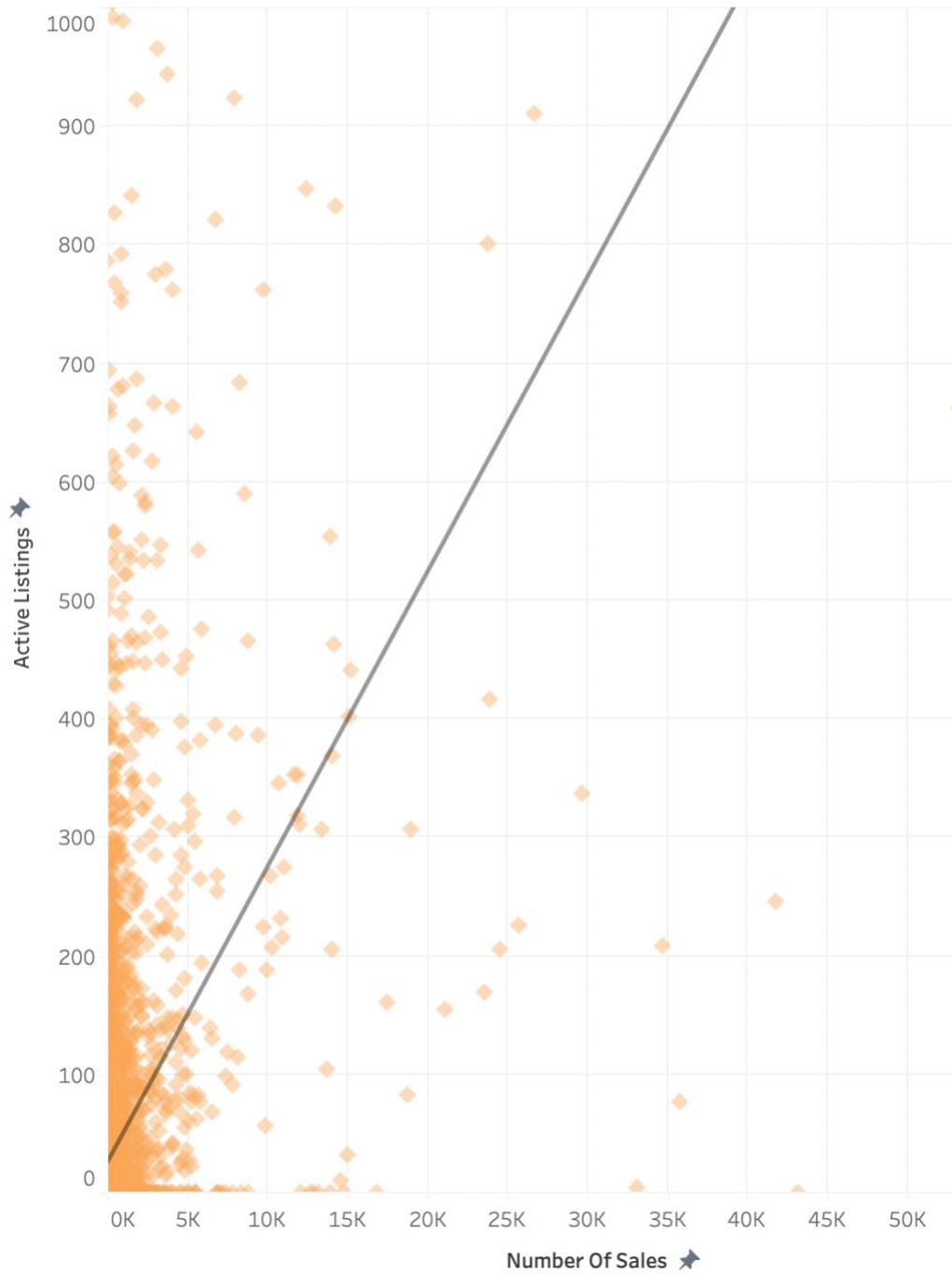
Seller_Country	Seller_City	AVERAGE of Number_of_Sales
+ Total		28,026
+ Australia Total		26,683
+ Bulgaria Total		88,437
+ Canada Total		15,960
+ China Total		77,145
+ England Total		15,560
+ France Total		14,747
+ India Total		11,798
+ Japan Total		137,057
+ The Netherlands Total		12,059
+ United States Total		23,960
Grand Total		26,878



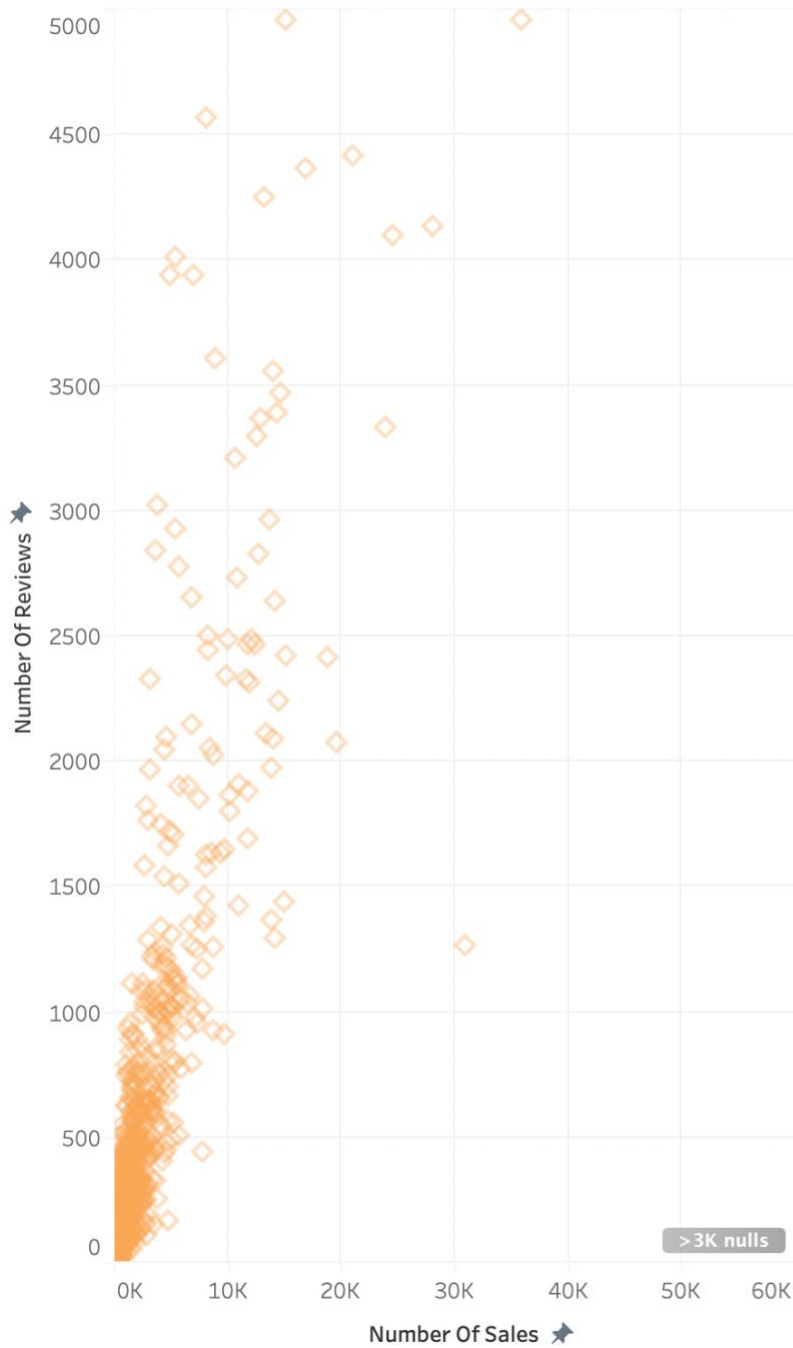
Seller_Country	Seller_City	AVERAGE of number_of_reviews
+ Australia Total		6,031
+ Bulgaria Total		18,523
+ Canada Total		4,582
+ China Total		3,804
+ England Total		2,341
+ France Total		3,467
+ India Total		2,465
+ Japan Total		36,493
+ The Netherlands Total		2,483
+ United States Total		5,860
Grand Total		6,161



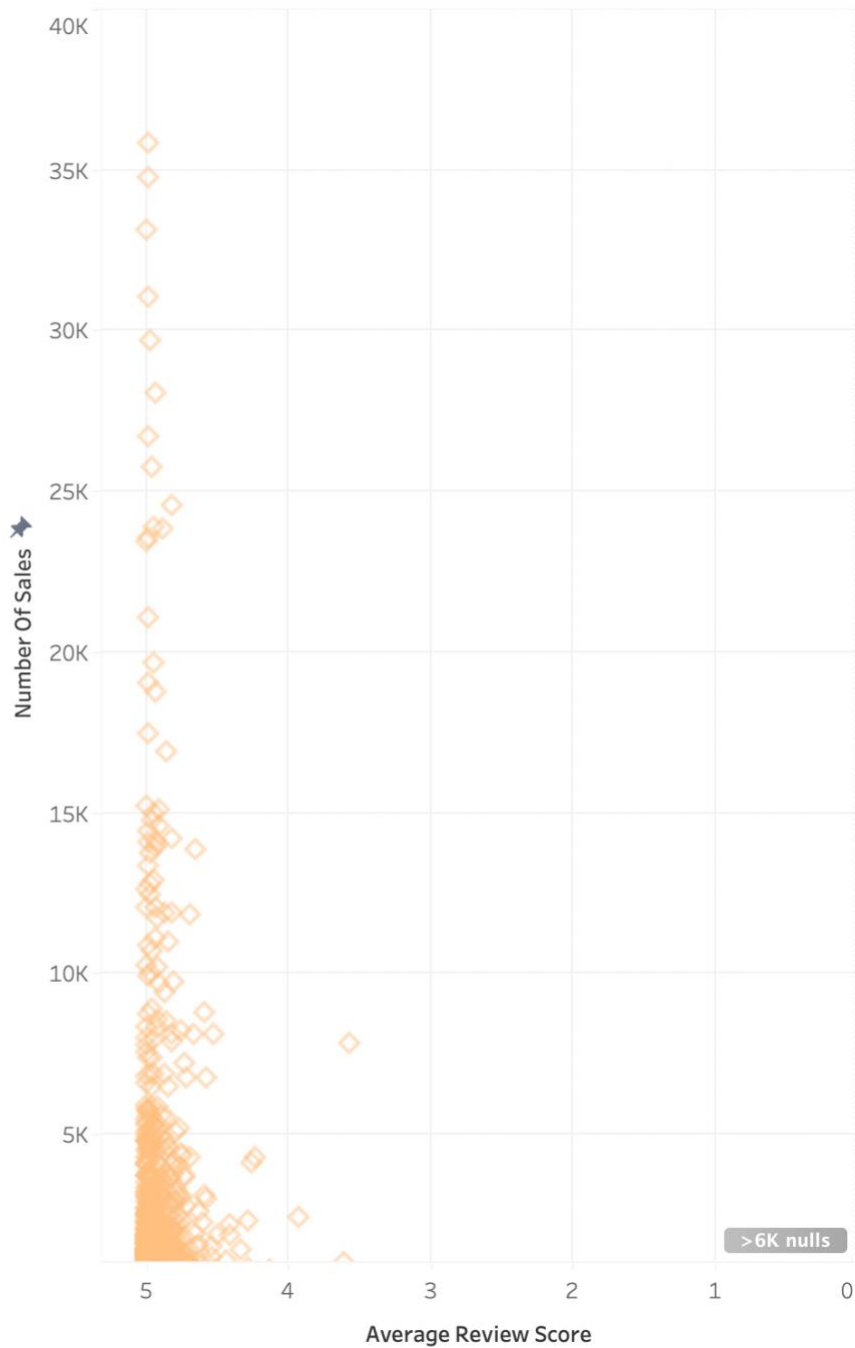
Etsy Shop Sales vs Active Listings



Etsy Shop Sales vs Number of Reviews



Etsy Sales vs Average Review Score



Future Analysis