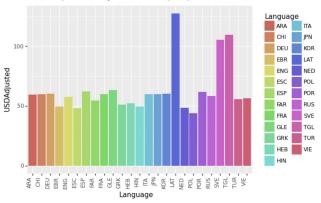
Rosetta Stone Business Analysis

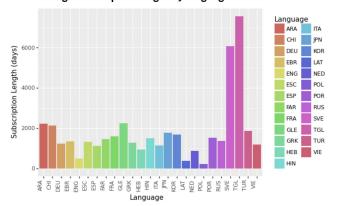
The Most Valuable Subscribers

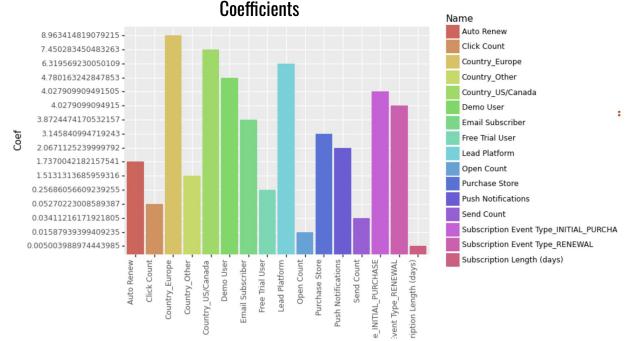
- People who want to learn Latin, Swedish and Tagalog paid the most overall.
- Swedish and Tagalog learners are long term subscribers generally.
- Latin only has one option (12 months, \$95.00)

Average USD spent by language learned



Average subscription length by language learned





- People who live in the US & Canada and use Rosetta Stone on the web browser pay the most money
- Rosetta Stone is designed for in depth online language learning
 - People who want a more quick, app based platform use Duolingo

Results from Linear Regression Model (Python)

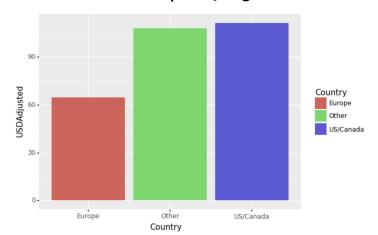
Name

Coef

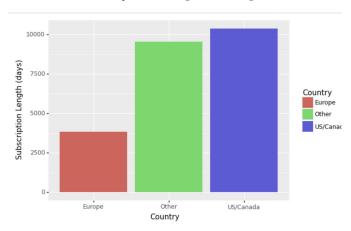
Purchase Store	-3.14584	0
Demo User	4.78016	1
Free Trial User	0.256861	2
Auto Renew	1.737	3
Lead Platform	-6.31957	4
Email Subscriber	-3.87245	5
Push Notifications	-2.06711	6
Send Count	-0.0341122	7
Open Count	0.0158794	8
Click Count	0.0527022	9
Subscription Length (days)	0.00500399	10
Subscription Event Type_INITIAL_PURCHASE	-4.02791	11
Subscription Event Type_RENEWAL	4.02791	12
Country_Europe	-8.96341	13
Country_Other	1.51313	14
Country_US/Canada	7.45028	15

US/Canada vs Europe

Amount Spent by Region



Subscription Length by Region



- US/Canada market is much more profitable than European market.
- Rosetta Stone is a US based company.
- Most Europeans already speak a second language & learn more language in school. Might be less demand for language learning platform like this.

The Most Valuable Subscribers

• People who live in the US & Canada

People who renew their subscriptions

• People who use the Rosetta Stone Website

People who learn Tagalog and Swedish

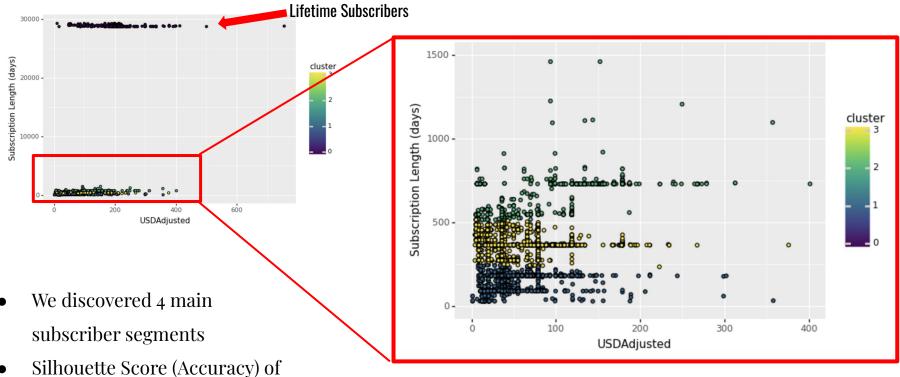
People who pay too much for Latin





Subscriber Segments

- We used K-Means Clustering
- Developed a Model to group people by segment

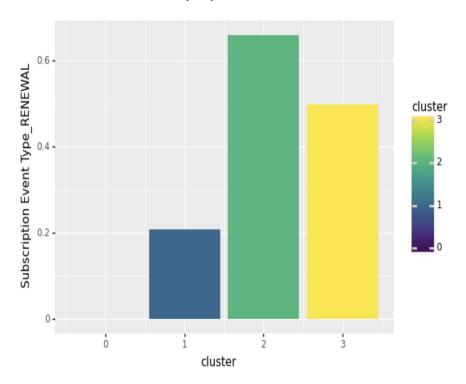


0.8

Subscriber Segments

- <u>Cluster o</u> represents lifetime subscribers
- <u>Cluster 2</u> represents most valuable customers. Long term, high paying, more likely to have renewed - likely paid for multiple products/learnt multiple languages [slide 5]
- <u>Cluster 3</u> represents medium term low paying customers base customers who likely paid for the basics, learned one language and cancelled subscription
- <u>Cluster 1</u> represents short term customers who likely tried out Rosetta Stone and cancelled because they didn't like it or didn't want to pay
 Not our target customer base

Number of people who renew by cluster



Subscriber Segments

• <u>Cluster o & 2</u> represent *Most Valuable Subscribers*. They are more likely to use the Web Browser platform. More likely to be based in North America. People who learn Tagalog and Swedish are in this category.



• <u>Cluster 1 & 3</u> More likely to use app or be based in Europe than other 2 clusters. They learn languages like Polish and English.



Identify Most Likely Subscribers to be Sold Additional Products/Services

- <u>Cluster o</u>/Lifetime subscribers already have every language available.
- <u>Cluster 3 & 1</u> are not likely to buy more than one language and do not subscribe for long.
- <u>Cluster 2</u> subscribers are likely to buy multiple products/languages and renew subscriptions.

Identify Subscriber Profile of those Not Renewing

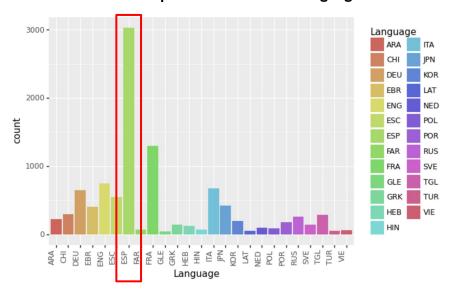
- Clusters 1 and 3
- Generally people who pay a low amount upfront are less likely to renew
- People who are app based are less likely to renew as it is not Rosetta
 Stone's primary market place
- People based in Europe .



Other Business Relevant Opportunities

- Spanish is the most commonly learned language
- Target people in who may want to learn Spanish with long term deals and subscriptions
- Target people in predominantly Hispanic/High
 Spanish speaking areas
- Offer an option for shorter than 12 month subscriptions for Latin

Number of People Who Learn Each Language



Conclusion

Suggestions for Rosetta Stone

- 1. Target the prime customers in cluster 2 who are likely to pay for more products in the long term
- 2. Focus less on Europe, more on the US & Canada
- 3. Target areas where it may be beneficial to learn spanish
- 4. Offer more deals to people who learn languages with high retention rates like Tagalog and Swedish
- 5. Target web users, focus less on mobile



Thank You