## Intelligent music streaming service



#### Motivation

# Spotify Investor Says Streaming Will Quadruple by 2025 — Any

▲ Marsha Silva ⊙ January 25, 2018 ⊊2

TECH TRADER DAILY

Pandora, Spotify See Rising Song Costs; Scale is Essential, Says Evercore ISI

By Tiernan Ray • Updated Jan. 29, 2018 3:45 p.m. ET

 The trend analysis will give us to explore how artists and songs' popularity varies in time.

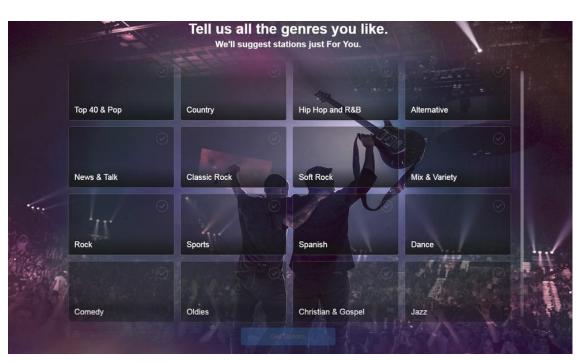
#### Insights

By using the daily ranking of the 200 most listened songs in 53 countries by Spotify users,

- Can you PREDICT what is the rank position or the number of streams a song will have in the future?
- Does people SHARE the very same top ranking songs on countries far away from each other?
- If then we can make some BUSINESS MODELS closely related to the tendency?
- How long time does a top ranking song takes to get into the ranking of neighbor countries?
- Make A DISTRIBUTION MAP, and INFLUENCE MAP by region, country, genre(music categories), and other information (such as season, weather, social event, etc)
- Check a possibility to develop A Music Recommendation Service based on user-preference?

#### **Analysis points**

- By Artist
- By Genre
- By Lyrics
- By Gender
- By Age
- By Weather condition
- By Social effect



#### **Data Sets**

- spotifys-worldwide-daily-song-ranking.zip
- top-tracks-of-2017.zip
- top-tracks-of-2016.zip
- every-song-you-have-heard-almost.zip
- As references,
  - SiriusXM Internet Radio
  - Apple Music
  - Amazon Music Unlimited
  - Google Play Music
  - Pandora Internet Radio



#### Limitation

- Data Set is Too huge to visualize
  - To find any statistical approach to guarantee the reliability of the reduced set

#### **Future Work**

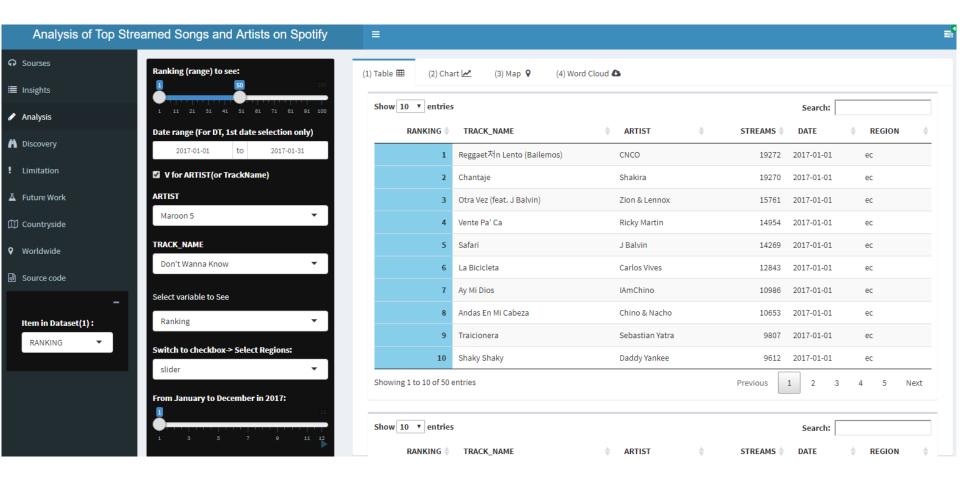
- Analysis
  - Countryside spread
  - Worldwide spread
- Reference comparison
  - Web scraping
  - Data mining : Another Data Sets
- Develop Predict Model

#### Shinyapps.io

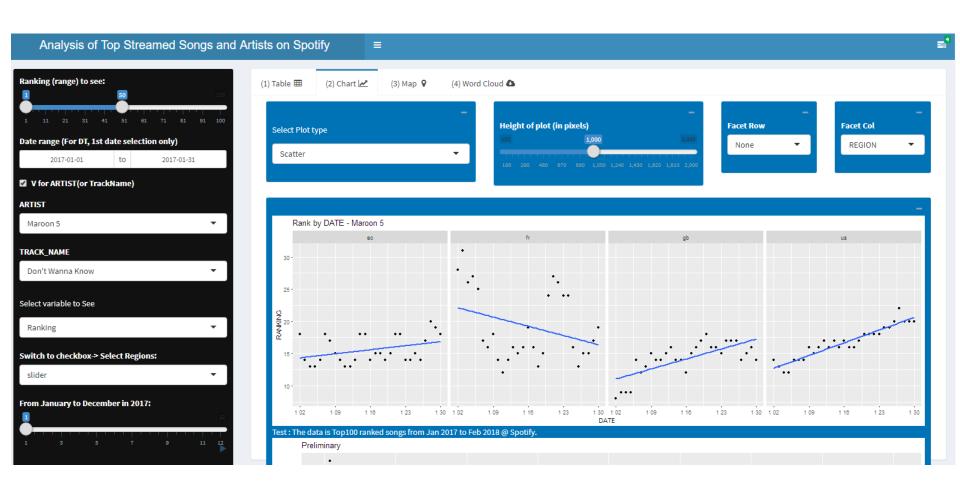
https://canslove.shinyapps.io/canslove/

### **Appendix**

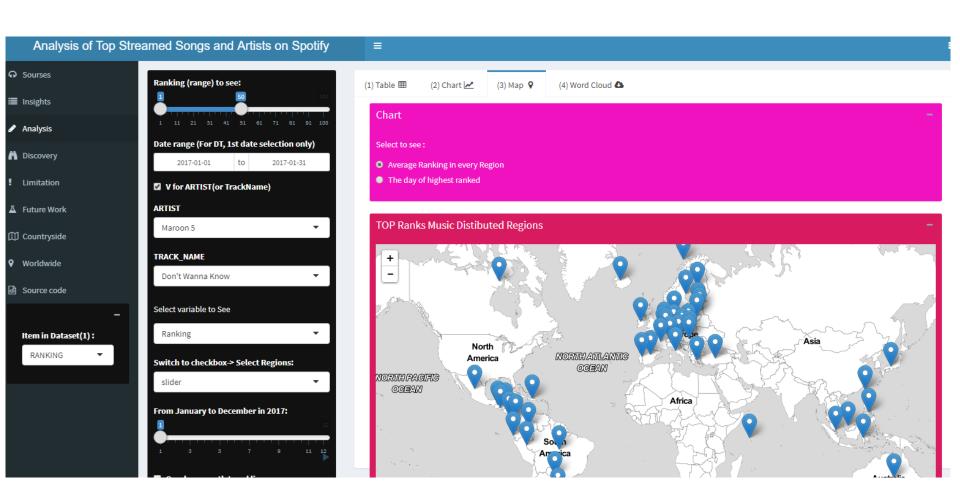
#### **Table**



#### Chart







#### **Word cloud**

