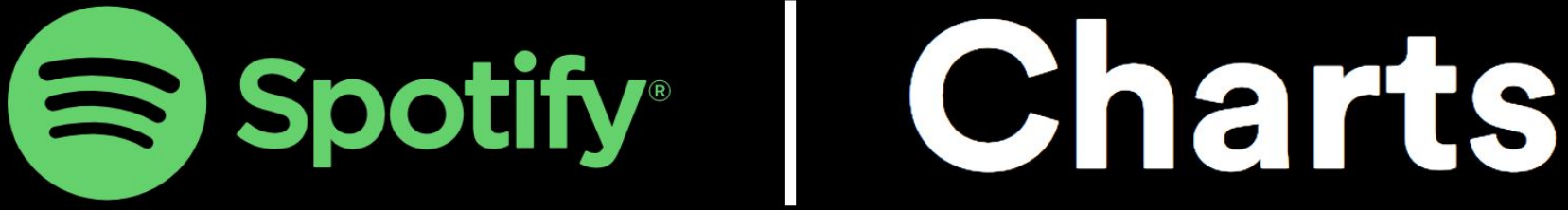
Top of the ‘Charts’

Richard Kim

Spotify®


Spotify®
Charts

218,200 rows

3,794 songs / 835 artists

	TRACK	STREAMS
	1 — **Dance Monkey** by Tones and I	7,458,139

Day

Rank

Title

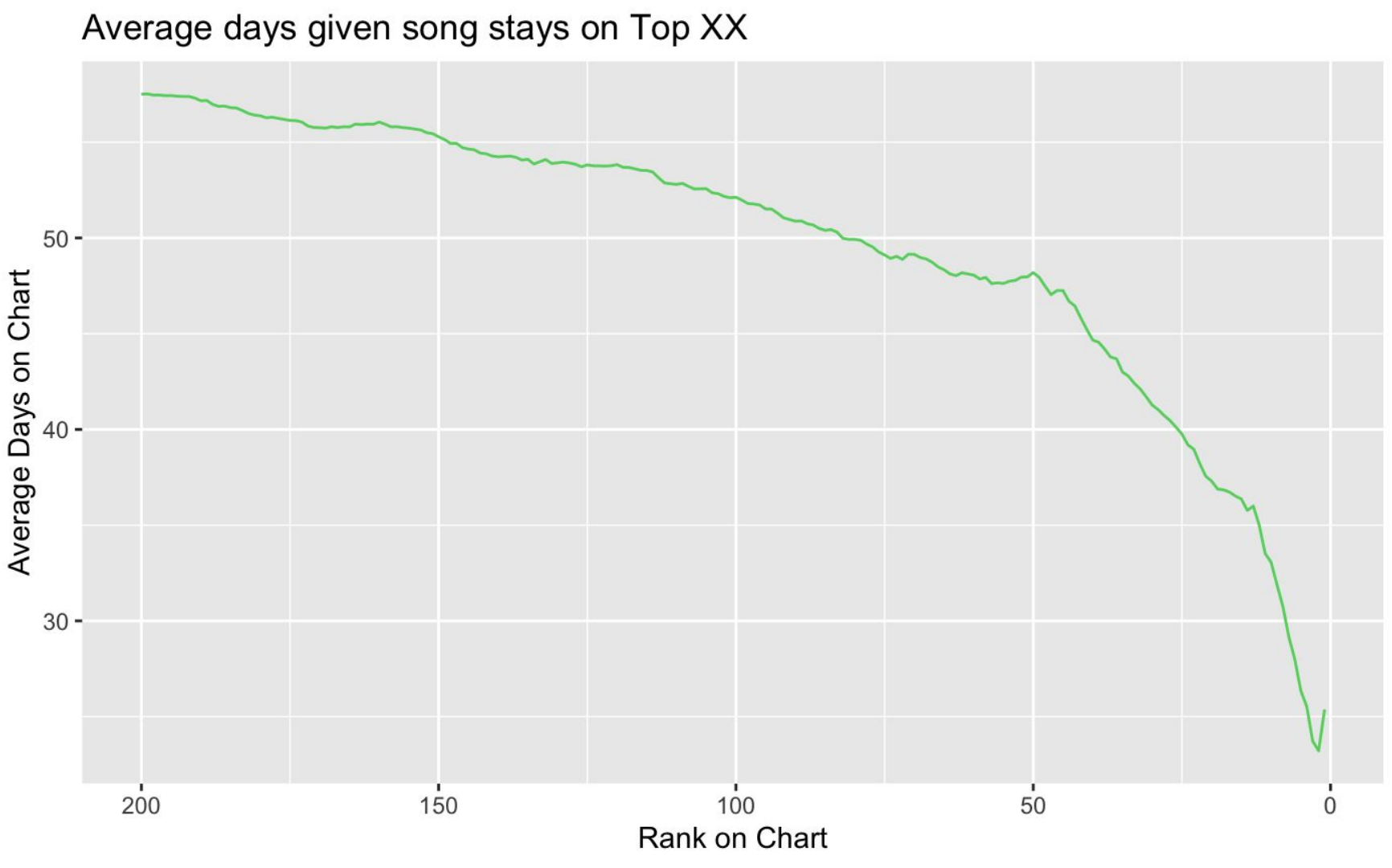
Artist

Stream count

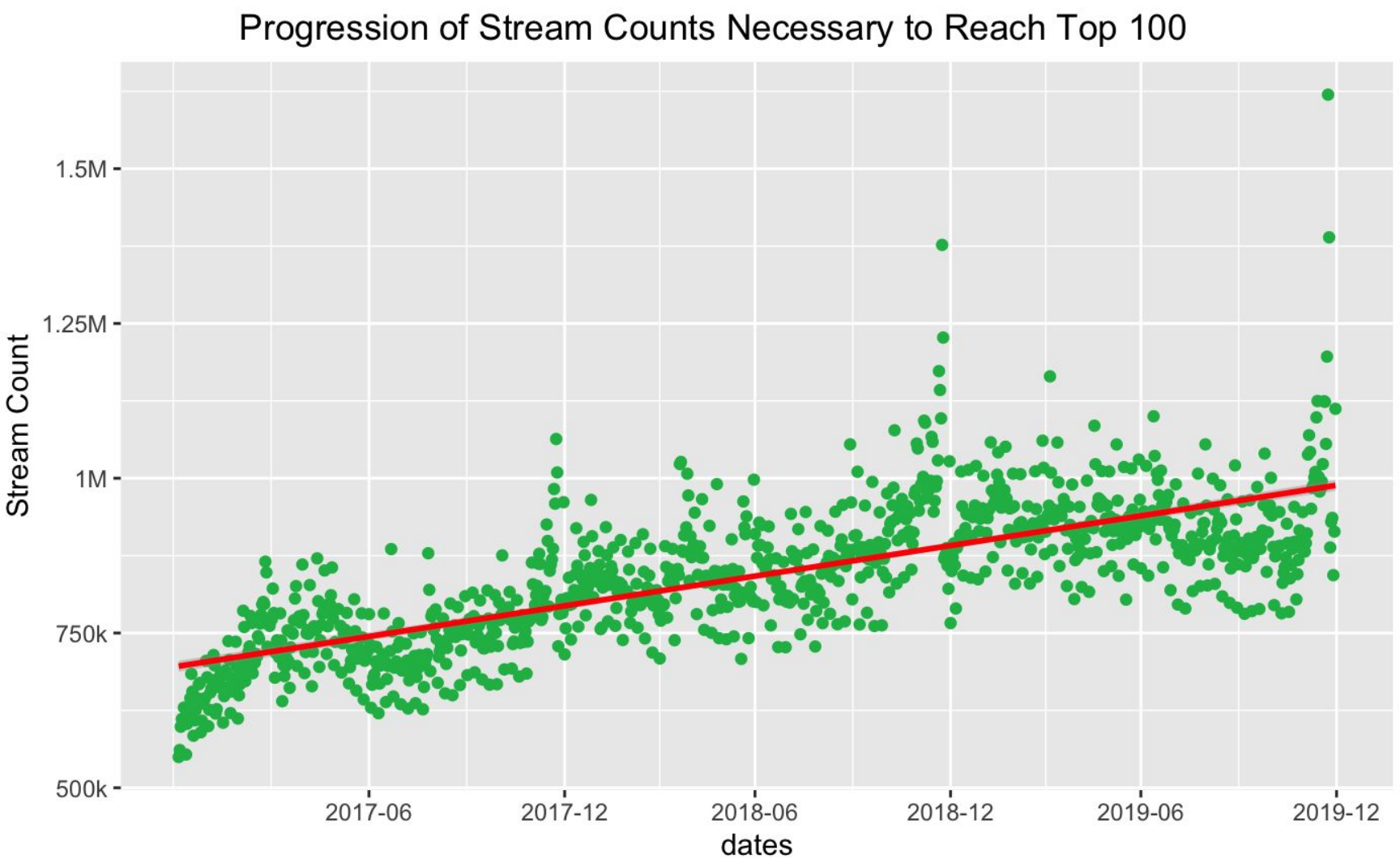
Questions:

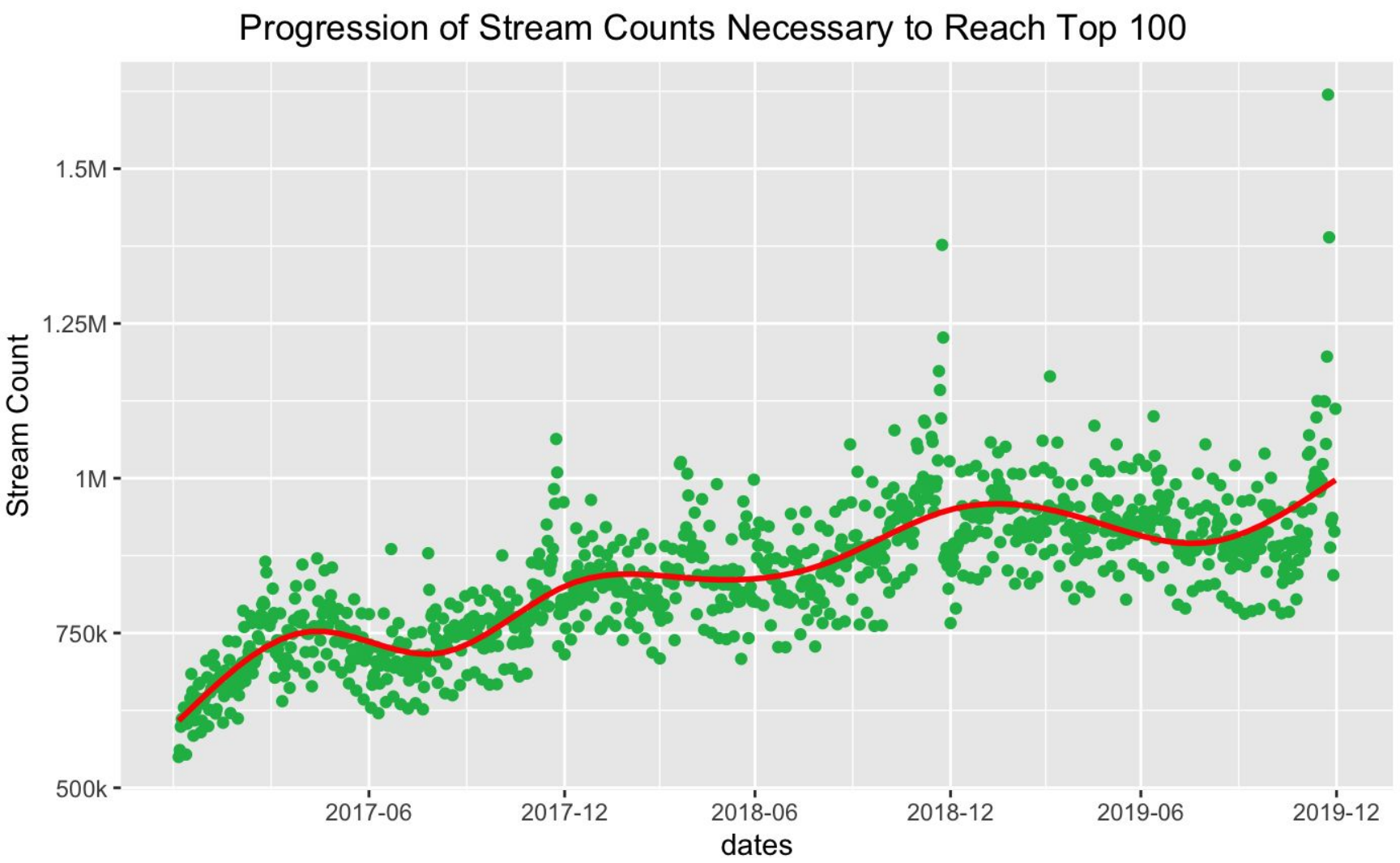
1. On average, how long do songs stay on Top XX?
2. How many ‘streams’ do you need to get to Top 100?
3. How many artists are on Top 200?
4. How much influence did each artist have on charts for past 3 years?

Average duration in chart

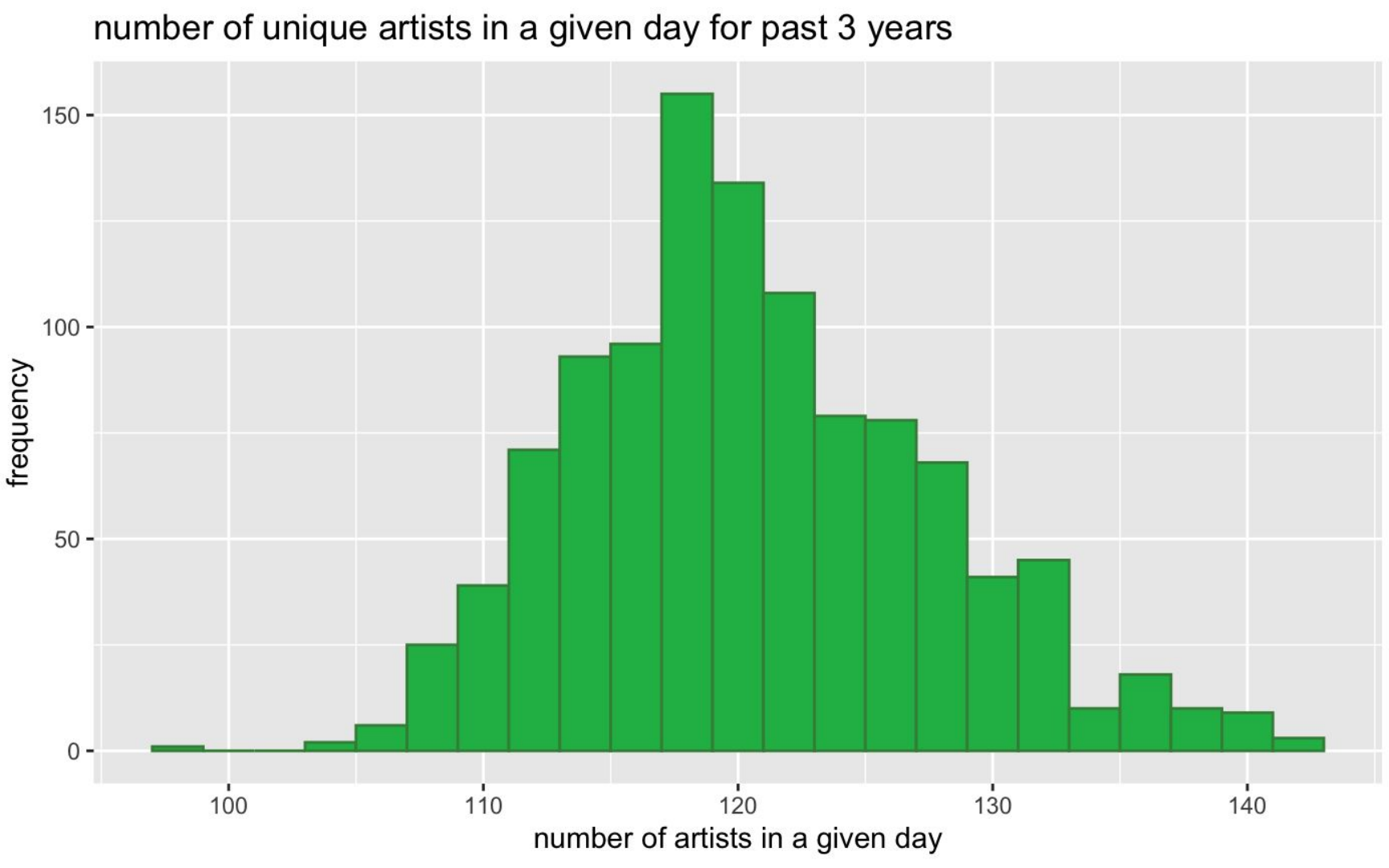

Average days given song stays on Top XX
Average Days on Chart
50
40
30
200
150
100
50
0
Rank on Chart

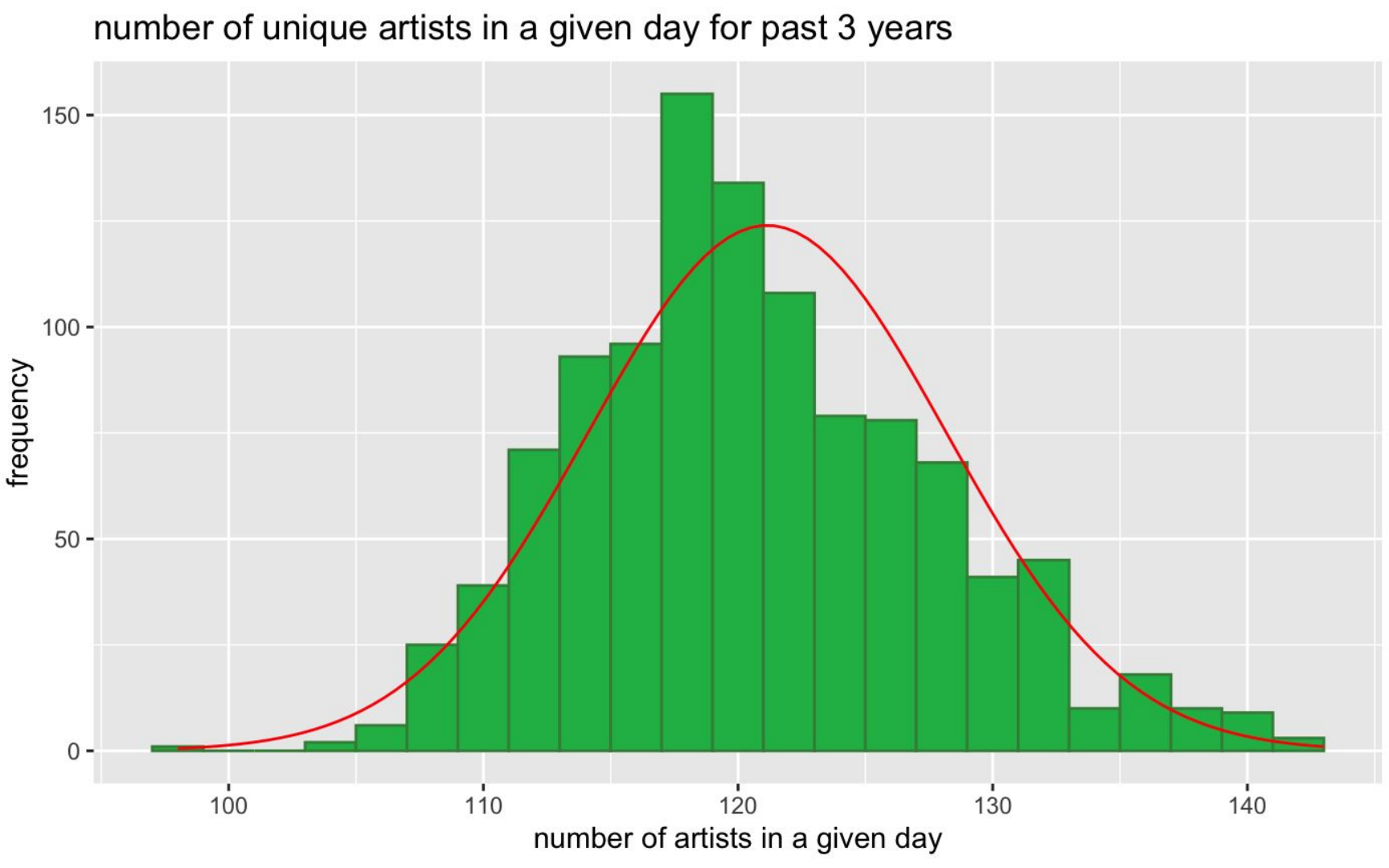
Harder to get in chart as time goes on


Progression of Stream Counts Necessary to Reach Top 100
Stream Count
1.5M
1.25M
1M
750k
500k
2017-06
2017-12
2018-06
2018-12
2019-06
2019-12
dates


Progression of Stream Counts Necessary to Reach Top 100
Stream Count
1.5M
1.25M
1M
750k
500k
2017-06
2017-12
2018-06
2018-12
2019-06
2019-12
dates

Average number of artists on a given day


number of unique artists in a given day for past 3 years
150
100
50
0
frequency
100
110
120
130
140
number of artists in a given day

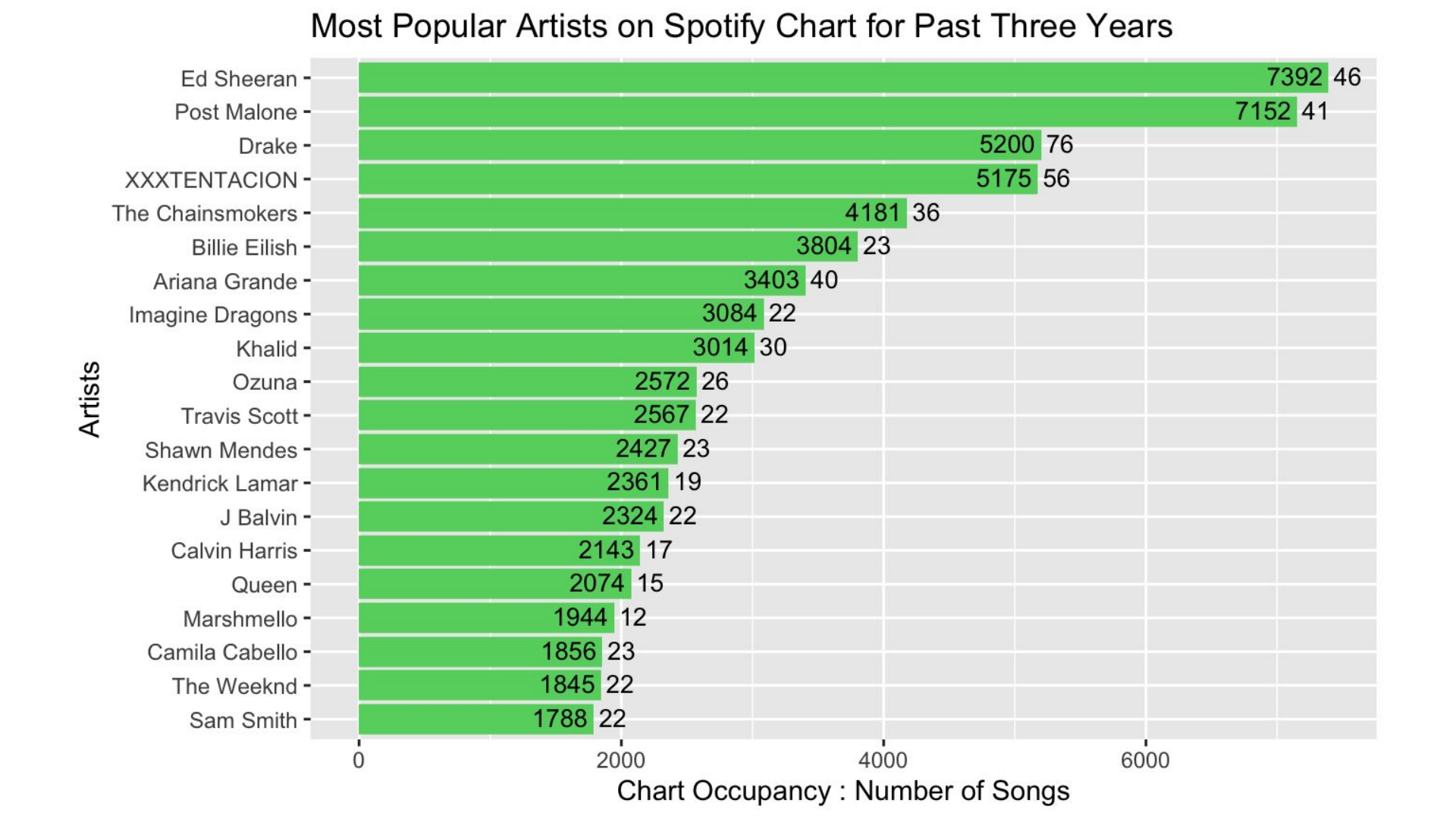

number of unique artists in a given day for past 3 years
150
100
50
0
frequency
100
110
120
130
140
number of artists in a given day

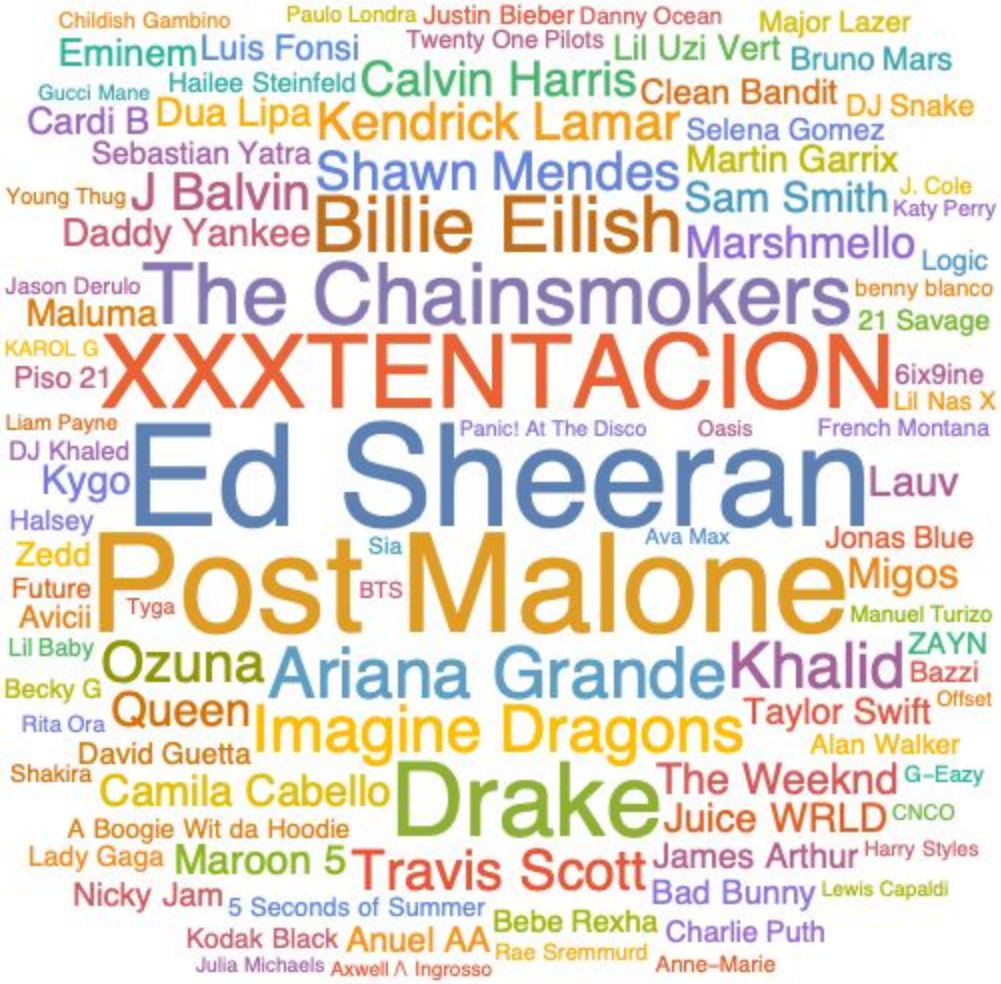
Most influential artists

‘Chart Occupancy’

Definition:

How many rows of past 3 years worth of daily chart (218,200 total rows) did each artist occupy?


Most Popular Artists on Spotify Chart for Past Three Years
Artists
Ed Sheeran
Post Malone
Drake
XXXTENTACION
The Chainsmokers
Billie Eilish
Ariana Grande
Imagine Dragons
Khalid
Ozuna
Travis Scott
Shawn Mendes
Kendrick Lamar
J Balvin
Calvin Harris
Queen
Marshmello
Camila Cabello
The Weeknd
Sam Smith
7392 46
7152 41
5200 76
5175 56
4181 36
3804 23
3403 40
3084 22
3014 30
2572 26
2567 22
2427 23
2361 19
2324 22
2143 17
2074 15
1944 12
1856 23
1845 22
1788 22
0
2000
4000
6000
Chart Occupancy : Number of Songs


Childish Gambino
Paulo Londra
Justin Bieber
Danny Ocean
Major Lazer
Twenty One Pilots
Eminem
Luis Fonsi
Lil Uzi Vert
Bruno Mars
Gucci Mane
Hailee Steinfeld
Calvin Harris
Clean Bandit
DJ Snake
Cardi B
Dua Lipa
Kendrick Lamar
Selena Gomez
Sebastian Yatra
Shawn Mendes
Martin Garrix
Young Thug
J Balvin
Sam Smith
J. Cole
Katy Perry
Daddy Yankee
Billie Eilish
Marshmello
Logic
Jason Derulo
The Chainsmokers
benny blanco
Maluma
21 Savage
KAROL G
XXXTENTACION
Piso 21
6ix9ine
Lil Nas X
Liam Payne
Panic! At The Disco
Oasis
French Montana
DJ Khaled
Ed Sheeran
Kygo
Lauv
Halsey
Ava Max
Jonas Blue
Sia
Zedd
Post Malone
Migos
Future
BTS
Tyga
Avicii
Manuel Turizo
Lil Baby
Ozuna
Ariana Grande
Khalid
ZAYN
Bazzi
Becky G
Queen
Taylor Swift
Offset
Rita Ora
Imagine Dragons
Alan Walker
David Guetta
Shakira
Camila Cabello
Drake
The Weeknd
G-Eazy
Juice WRLD
CNCO
A Boogie Wit da Hoodie
Lady Gaga
Maroon 5
Travis Scott
James Arthur
Harry Styles
Nicky Jam
Bad Bunny
Lewis Capaldi
5 Seconds of Summer
Kodak Black
Anuel AA
Bebe Rexha
Charlie Puth
Rae Sremmurd
Julia Michaels
Axwell Λ Ingrosso
Anne-Marie

Future Questions:

1. NLP on title:
    a. What kind of titles work - one word? Phrases? Sentences?
    b. How many featured artists?
2. Using metadata of songs:
    a. What genre is each song? What genre is most popular?
    b. Artist info
        i. Who ranks high?
        ii. What's their common trait?
3. Who has higher chance: famous artists vs. newcomers?