

Billboard Hot 100:

The music industry standard record chart in the United States for songs. Chart rankings are based on <u>sales</u> (physical & digital), <u>radio play</u>, and <u>online streaming</u> in US

- ~ 300,000 tracks cumulated since August 16th of 1958
- ~ 28,000 unique tracks removing the duplicates

Obtain features such as:

- -1W Rank
- CW Rank
- Peak Rank
- Date
- (Season, Month, Year, WoW Delta etc.)

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 299099 entries, 0 to 299098
Data columns (total 15 columns):
artist
                 299099 non-null object
date
                 299099 non-null object
last_week_rank
                 286386 non-null float64
                 288603 non-null float64
peak rank
                 299099 non-null int64
rank
title
                 299099 non-null object
weeks_on chart
                 288603 non-null float64
artist1
                 299099 non-null object
featuring
                 299099 non-null object
                 286386 non-null float64
rank delta
                 299099 non-null int64
year
                 299099 non-null int64
month
week
                 299099 non-null int64
                 299099 non-null object
unique
                 299099 non-null object
season
dtypes: float64(4), int64(4), object(7)
memory usage: 34.2+ MB
```

What are some noticeable Summer Songs for past 19 years?



Here Are All the Winners From the 2018 Billboard Music Awards



5/20/2018 by Billboard Staff









The 2018 Billboard Music Awards are here. With Kelly Clarkson hosting, the 2018 BBMAs hit the MGM Grand Las Vegas on Sunday (May 20) and saw everyone from Taylor Swift to Shawn Mendes to BTS to BBMA Icon Award winner Janet Jackson in attendance.

Clarkson cold-opened the show with a call to action following the recent school shooting in Santa Fe, Texas, and then performed a stunning medley of other artists' songs, including Kendrick Lamar, Ed Sheeran, Swift, Mendes and more.

Check out the full list of winners, updating live, below:

Top Artist:

Drake

Kendrick Lamar

Bruno Mars

Ed Sheeran -- WINNER

Taylor Swift

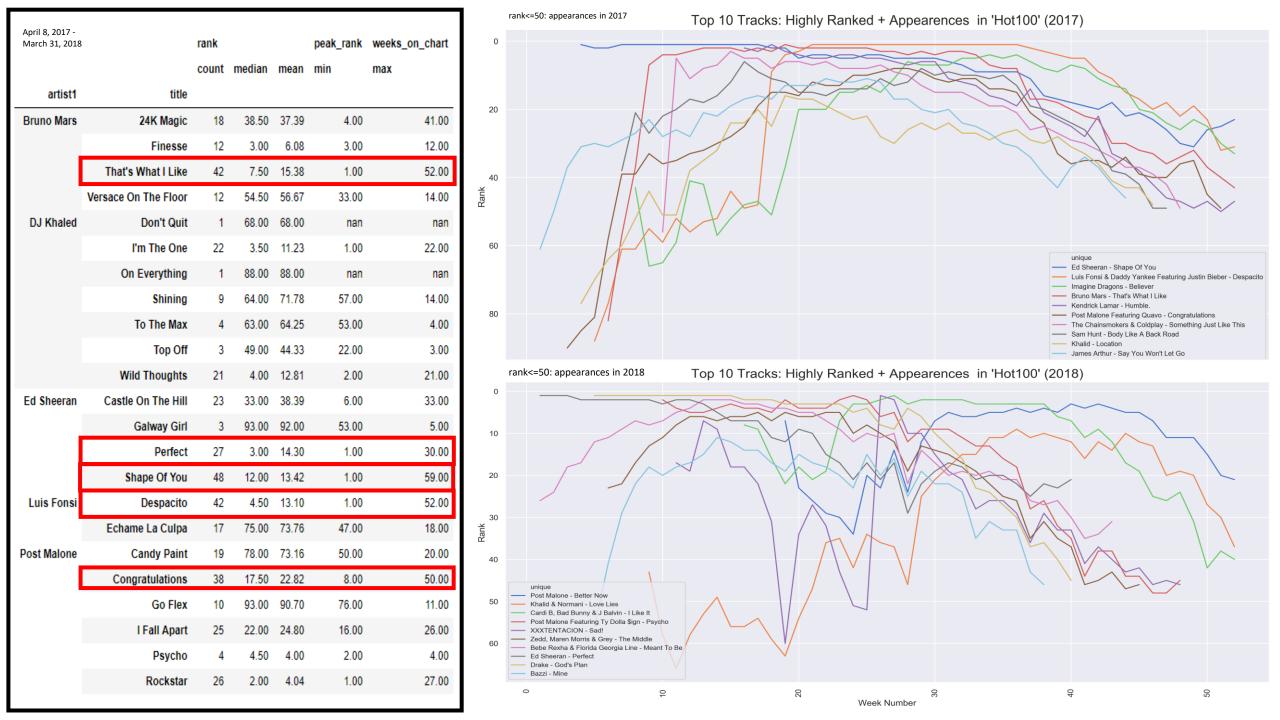
Lets do a simple validation:

Does Billboard look into data for choosing Billboard's Top Artist Winner?

Ed Sheeran



Unlike other awards, such as the Grammy Award, the Billboard Music Awards finalists are based on album and digital songs sales, streaming, radio airplay, touring, and social engagement data provided by Nielson. The 2018 awards are based on the reporting period of April 8, 2017 through March 31, 2018.



Spotify Web API

Based on simple REST principles, the Spotify Web API endpoints return JSON metadata. API provides audio features for every songs in the library

- Key
- the estimated overall key of the track; e.g. 0 = C, $1 = C \sharp / D_b$, 2 = D...etc
- Mode
- the modality (major or minor) of a track. Major = 1, Minor = 0
- Danceability
- how suitable a track is for dancing (0.0 1.0)
- Energy
- perceptual measure of intensity and activity (0.0 -1.0)
- Valence
- musical positiveness conveyed by a track (0.0 -1.0)
- Tempo

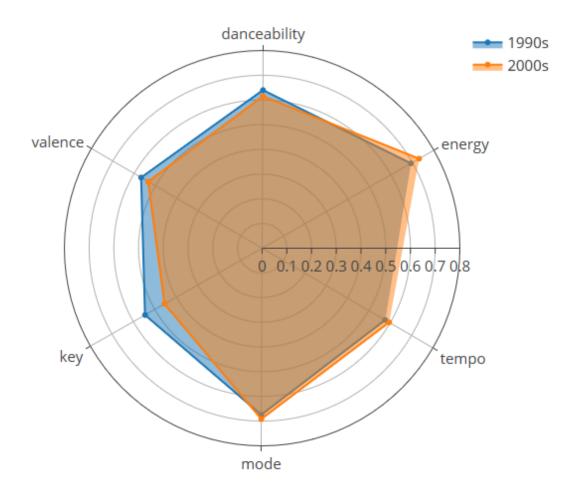
the overall estimated tempo of a track in beats per minute (BPM)

....etc



How is Billboard Hot 100 Different from: 1990s to 2000s

Features Comparison: 1990s vs 2000s



EDIT CHART