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Our Music Playlists

Exploratory Data Analysis of: **Billboard Hot 100** **2020s #1 Singles!**

By: Gina Socolich





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Our Music Playlists

01



Overall Question(s)

What makes a song #1, and what keeps a song #1?



Potential Clients: Streaming Services



01

Themes

Predicts which songs are likely to trend.



3:15min

02

Product Design

- Personalized playlists
- Explore page



3:15min

03

Audience

Music tailored to target audience.



3:15min

04

Recommended

Boost song and artist recommendations.



3:15min



Datasets, Tools, Libraries



Wikipedia contributors. *List of Billboard Hot 100 number-one singles of the 2020s.*

Available at:

https://en.wikipedia.org/wiki/List_of_Billboard_Hot_100_number-one_singles_of_the_2020s

Python	programming language used for writing, processing, and analyzing data
Pandas	used to read the tables from Wikipedia, clean and transform the data, and create DataFrames for analysis
Matplotlib	visualization library used to create plots and visualizations of trends in the data
matplotlib.ticker	a sublibrary of Matplotlib used to control axis formatting
collections.counter	used to count the frequency of words in song titles for text analysis
Wikipedia	data source for the Billboard chart information, accessed via <code>`pandas.read_html`</code>



Insights & Results

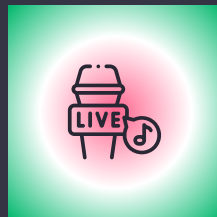


Q1

1h4min



Which artists have the most #1 hits?



Q2

45min



Which songs spent the most weeks at #1?

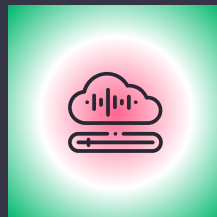


Q3

30min



How common are collaborations and featured artists in these songs?



Q4

1h15min



What are the most common words in the song titles of #1 hits?



Top 10 Artists w/ Most #1 Songs

#1

Taylor Swift

6 songs



#6

Jack Harlow

2 songs



#2

Mariah Carey

5 songs



#7

Drake

2 songs



#3

BTS

4 songs



#8

The Weekend

2 songs



#4

Olivia Rodrigo

3 songs



#9

Beyonce

2 songs



#5

Ariana Grande

3 songs



#10

Morgan Wallen

2 songs





Top 3 Longest-Running #1 Songs



“All I Want for Christmas Is You”

3:15



- Spent 21 Weeks at #1



“A Bar Song (Tipsy)”

3:20



- Spent about 19 Weeks at #1



“Last Night”

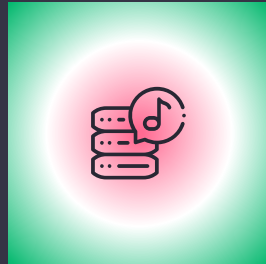
3:10



- Spent about 16 Weeks at #1

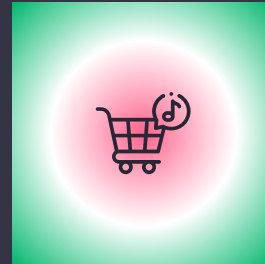


Collaborations vs. Solo Hits



Solo

61.9% of
Billboard songs
are solos (no
features).



Collaboration

38.1% of
Billboard songs
include features.



Most Common Words in #1 Titles



me

3:15



4 song titles contained the word “me”.



please

2:01



3 song titles contained the word “please”.



like

2:18



3 song titles contained the word “like”.



savage

3:30



2 song titles contained the word “savage”.



love

1:50



3 song titles contained the word “love”.



all

3:19



2 song titles contained the word “all”.



Further Questions & Future Work



150,000

Follow

Question 1

Full playlist



Which songs returned to #1 multiple times?

185,000

Follow

Question 2

Full playlist



Which artists have reached #1 for multiple years?

200,000

Follow

Question 3

Full playlist



Future Question: How has the genre or style of #1 songs evolved from 2020 to the present?



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Our Music Playlists

Thanks!

Do you have any questions?

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