Spotify Analysis

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Cam's Spotify Streaming History

Data Cleaning

1. Loading in data
2. Selecting variable I want to keep
3. Renaming variables
4. Dropping rows with missing values
5. Changing the date column from character to date
6. Creating a column for the specific year

```
streaming_data <- read_csv("/Users/camsmithers/Desktop/Data/combined_data.csv")
```

```
## Rows: 273776 Columns: 23
## -- Column specification --------------------------------------------------------
## Delimiter: ","
## chr  (12): platform, conn_country, ip_addr, master_metadata_track_name, mast...
## dbl   (2): ms_played, offline_timestamp
## lgl   (8): audiobook_title, audiobook_uri, audiobook_chapter_uri, audiobook_...
## dttm  (1): ts
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
streaming_data <- streaming_data %>%
    select(ts, ms_played, master_metadata_track_name,
           master_metadata_album_artist_name,
           master_metadata_album_album_name,
           spotify_track_uri, reason_start, reason_end,
           shuffle, skipped) %>%
    rename(
        "play_timestamp"="ts", "millisec_played"="ms_played",
        "song"="master_metadata_track_name",
        "album"="master_metadata_album_album_name",
        "artist"="master_metadata_album_artist_name") %>%
    drop_na() %>%
    mutate(play_timestamp = as.Date(play_timestamp)) %>%
    mutate(play_year = as.factor(year(play_timestamp)))
```

Personal Favorites

Artists/Albums/Songs

1. Selecting needed vars
2. Filtering for favorite artists/albums/songs
3. Using `unique()` to only have one observation
4. Creating a column to specify it's a favorite of mine

```
favorite_artists <-streaming_data %>%
    select(artist) %>%
    filter(
        artist == "H.E.R." | artist == "Kehlani" | artist == "Drake" |
        artist == "Ariana Grande" | artist == "UMI" | artist == "Jenevieve" |
        artist == "Alina Baraz" | artist == "Lil Tecca" |
        artist == "Muni Long" | artist == "J. Cole" | artist == "NIKI" |
        artist == "Mac Ayres") %>%
    unique() %>%
    mutate(favorite_artist = "Yes")

favorite_albums <- streaming_data %>%
    select(album, artist) %>%
    filter(
        (album == "H.E.R." & artist == "H.E.R.") |
            (album == "Back of My Mind" & artist == "H.E.R.") |
            (album == "Forest in the City" & artist == "UMI") |
            (album == "Her Loss" & artist == "Drake") |
            (album == "Championships" & artist == "Meek Mill") |
            (album == "SweetSexySavage" & artist == "Kehlani") |
            (album == "blue water road" & artist == "Kehlani") |
            (album == "Public Displays Of Affection: The Album" &
                 artist == "Muni Long") |
            (album == "Sweetener" & artist == "Ariana Grande") |
            (album == "It Was Divine" & artist == "Alina Baraz") |
            (album == "The Color of You" & artist == "Alina Baraz") |
            (album == "thank u, next" & artist == "Ariana Grande") |
            (album == "Rendezvous - EP" & artist == "Jenevieve") |
            (album == "Harry's House" & artist == "Harry Styles") |
```

```
            (album == "NEVER ENOUGH" & artist == "Daniel Caesar") |
            (album == "Fetty Wap" & artist == "Fetty Wap")) %>%
    unique() %>%
    mutate(favorite_album = "Yes")

favorite_songs <- streaming_data %>%
    select(song, artist) %>%
    filter(
        (artist == "H.E.R." & (song == "Changes" | song == "Gone Away" |
             song == "Rather Be" | song == "Jungle" | song == "My Own")) |
            (artist == "Meek Mill" &
                 song == "Dangerous (feat. Jeremih and PnB Rock)") |
            (artist == "UMI" & (song == "moonlit room" |
                 song == "Love Affair")) |
            (artist == "Eric Bellinger" & song == "Goat 2.0 (feat. Wale)") |
            (artist == "Drake" & song == "Spin Bout U") |
            (artist == "Metro Boomin" &
                 song == "Trance (with Travis Scott & Young Thug)") |
            (artist == "21 Savage" & song == "prove it") |
            (artist == "Kehlani" & (song == "As I Am" | song == "melt" |
                 song == "After Hours")) |
            (artist == "Lil Tecca" & song == "MONEY ON ME") |
            (artist == "Lil Baby" & song == "Go Hard") |
            (artist == "Jenevieve" &
                 (song == "Love Quotes" | song == "Nxwhere")) |
            (artist == "Bryson Tiller" & song == "Years Go By") |
            (artist == "Carly Rae Jepsen" & song == "Run Away With Me") |
            (artist == "Harry Styles" & song == "Satellite")) %>%
    unique() %>%
    mutate(favorite_song = "Yes")
```

Cumulative Counts (by Year and Overall)

Yearly Cumulative Counts

1. Arrange by date
2. Group by…
    - Song, Artist, and Year Played
    - Artist and Year Played
    - Album, Artist, and Year Played
3. Running total of the number of times the artist/song/album was played
4. Remove the groupings

All Time Cumulative Counts

1. Arrange by date
2. Group by…
    - Song and Artist
    - Artist
    - Album and Artist
3. Running total of the number of times the artist/song/album was played
4. Remove the groupings

```
#Total Count by Year for Songs, Artists, Albums
streaming_data_2 <- streaming_data %>%
```

```
    #Yearly Running Total

    ##Song Count
    arrange(play_timestamp) %>%
    group_by(song, artist, play_year) %>%
    mutate(yearly_song_cumsum = row_number(song)) %>%
    ungroup() %>%
    ##Artist Count
    arrange(play_timestamp) %>%
    group_by(artist, play_year) %>%
    mutate(yearly_artist_cumsum = row_number(artist)) %>%
    ungroup() %>%
    ##Album Count
    arrange(play_timestamp) %>%
    group_by(album, artist, play_year) %>%
    mutate(yearly_album_cumsum = row_number(album)) %>%
    ungroup() %>%

    #All Time Running Total

    ##Song Count
    arrange(play_timestamp) %>%
    group_by(song, artist) %>%
    mutate(alltime_song_cumsum = row_number(song)) %>%
    ungroup() %>%
    ##Artist Count
    arrange(play_timestamp) %>%
    group_by(artist) %>%
    mutate(alltime_artist_cumsum = row_number(artist)) %>%
    ungroup() %>%
    ##Artist Count
    arrange(play_timestamp) %>%
    group_by(album, artist) %>%
    mutate(alltime_album_cumsum = row_number(album)) %>%
    ungroup()
```

All Time Songs/Artists/Albums Plays

1. Group by...
    - Song and Artist
    - Artist
    - Album and Artist
2. Count the number of observations
3. Sort the values (high to low)

```
alltime_songs <- streaming_data_2 %>%
    group_by(song, artist) %>%
    summarize(alltime_song_count = n(), .groups = "drop") %>%
    arrange(desc(alltime_song_count))

alltime_artists <- streaming_data_2 %>%
    group_by(artist) %>%
    summarize(alltime_artist_count = n(), .groups = "drop") %>%
    arrange(desc(alltime_artist_count))
```

```r
alltime_albums <- streaming_data_2 %>%
    group_by(album, artist) %>%
    summarize(alltime_album_count = n(), .groups = "drop") %>%
    arrange(desc(alltime_album_count))
```

Yearly Top 10 Songs/Artists/Albums (by number of plays)

Yearly Top 10 Songs/Artists/Albums

1. Group by...
2. Get the maximum cumulative sum
3. Sort the observations by the year played, then by the number of plays
4. Group by the year played
5. Select the top ten values for each year
6. Column to specify if a song/artist/album was top ten in a respective year

Unique Songs/Artists/Albums

1. Using `distinct()` to remove duplicates that were top ten in multiple years

```r
yearly_top10_songs <- streaming_data_2 %>%
    group_by(play_year, song, artist) %>%
    summarize(yearly_top10_songs_count = max(yearly_song_cumsum),
              .groups = "drop") %>%
    arrange(play_year, desc(yearly_top10_songs_count)) %>%
    group_by(play_year) %>%
    slice_head(n = 10) %>%
    mutate(year_x_top10_song = "Top 10 Song")

yearly_top10_artists <- streaming_data_2 %>%
    group_by(play_year, artist) %>%
    summarize(yearly_top10_artists_count = max(yearly_artist_cumsum),
              .groups = "drop")%>%
    arrange(play_year, desc(yearly_top10_artists_count)) %>%
    group_by(play_year) %>%
    slice_head(n = 10) %>%
    mutate(year_x_top10_artist = "Top 10 Artist")

yearly_top10_albums <- streaming_data_2 %>%
    group_by(play_year, album, artist) %>%
    summarize(yearly_top10_albums_count = max(yearly_album_cumsum),
              .groups = "drop") %>%
    arrange(play_year, desc(yearly_top10_albums_count)) %>%
    group_by(play_year) %>%
    slice_head(n = 10) %>%
    mutate(year_x_top10_album = "Top 10 Album")

top_unique_songs <- yearly_top10_songs %>%
    distinct(song, artist)

top_unique_artists <- yearly_top10_artists %>%
    distinct(artist)

top_unique_albums <- yearly_top10_albums %>%
    distinct(album, artist)
```

Joining Data

Using left join to bring summary data frames into the main data frame

```
spotify_data <- streaming_data_2 %>%
    left_join(alltime_songs, by = c("song", "artist")) %>%
    left_join(alltime_artists, by = "artist") %>%
    left_join(alltime_albums, by = c("album", "artist")) %>%
    left_join(yearly_top10_songs, by = c("play_year", "song", "artist")) %>%
    left_join(yearly_top10_artists, by = c("play_year", "artist")) %>%
    left_join(yearly_top10_albums, by = c("play_year", "album", "artist")) %>%
    left_join(favorite_songs, by = c("artist", "song")) %>%
    left_join(favorite_artists, by = "artist") %>%
    left_join(favorite_albums, by = c("artist", "album"))
```

Data Cleaning 2

Column to identify if a song/artist/album is its respective unique list

```
spotify_data_2 <- spotify_data %>%
    mutate(
        ever_top10_song = if_else(
            (artist %in% top_unique_songs$artist) &
                (song %in% top_unique_songs$song), "Yes", NA),
        ever_top10_artist = if_else(
            artist %in% top_unique_artists$artist, "Yes", NA),
        ever_top10_album = if_else(
            (artist %in% top_unique_albums$artist) &
                (album %in% top_unique_albums$album), "Yes", NA))
```

Plotting Data

All Time Song/Artist/Album Plot Data: Joining main data to respective plot data.

```
alltime_songs_plot_data <- alltime_songs %>%
    left_join(spotify_data_2, by = c("song", "artist", "alltime_song_count"))

alltime_albums_plot_data <- alltime_albums %>%
    left_join(spotify_data_2, by = c("album", "artist", "alltime_album_count"))

alltime_artists_plot_data <- alltime_artists %>%
    left_join(spotify_data_2, by = c("artist", "alltime_artist_count"))
```

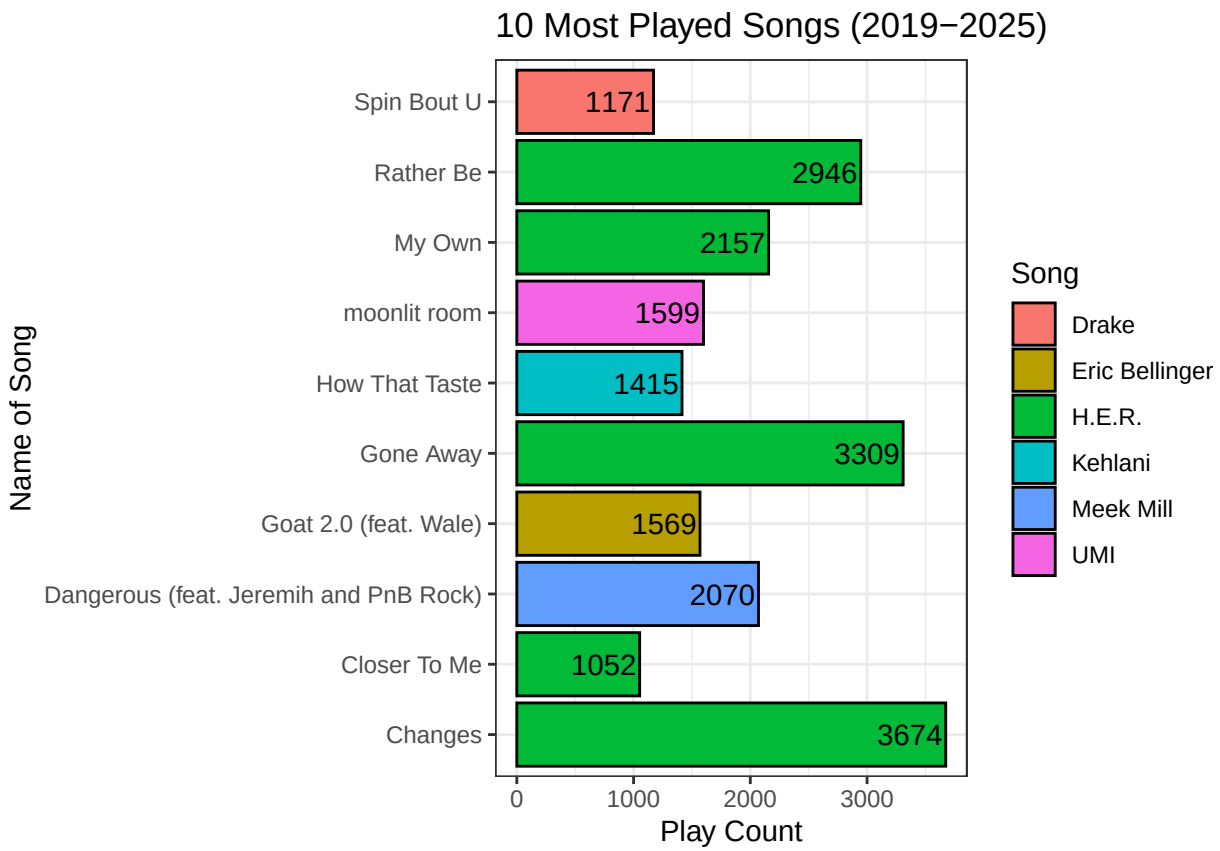
Listening Analysis

All Songs/Artists/Albums

10 Most Played Songs/Artists/Albums of All Time

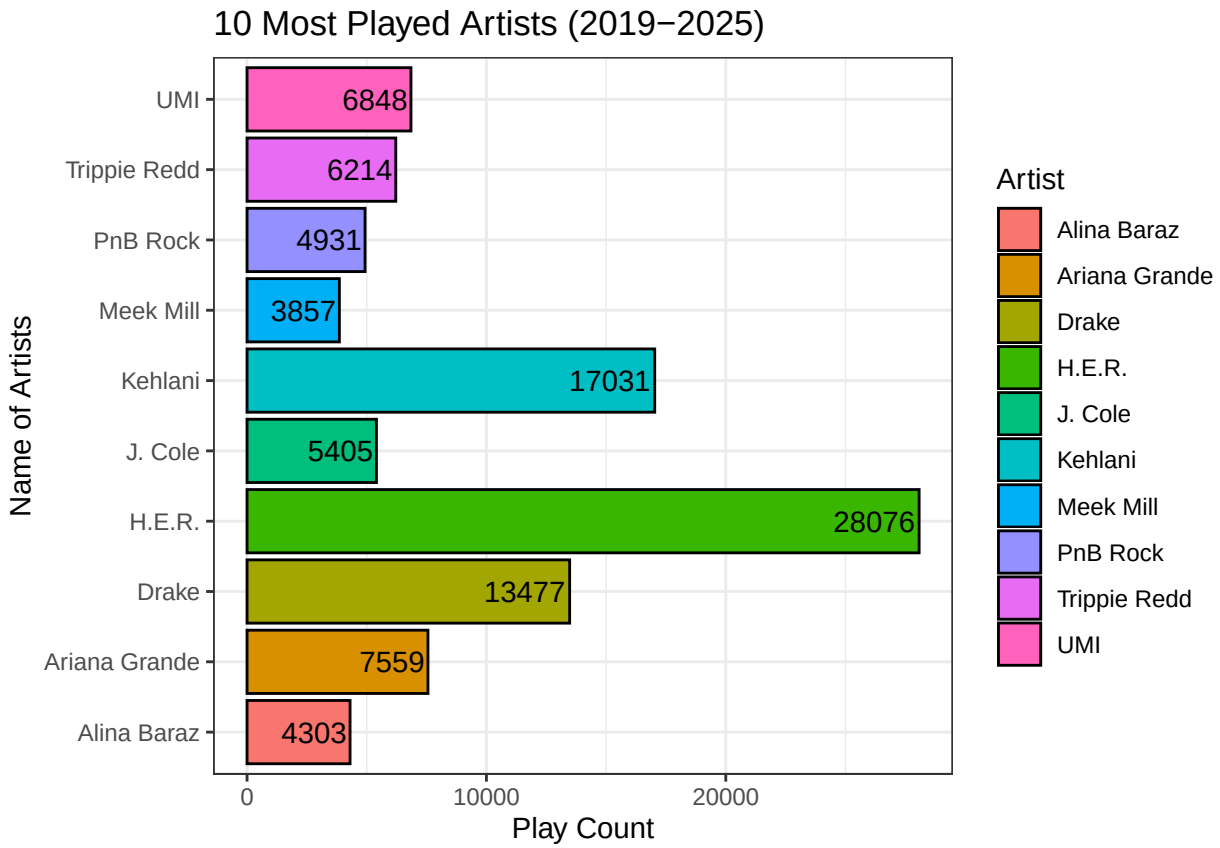
```
#Most Listened to Songs of All Time
top10_songs_oat_bar <- ggplot(alltime_songs %>%
                              slice_head(n = 10),
                          aes(x = alltime_song_count, y = song,
                              fill = artist)) +
```

```
    geom_bar(stat = "identity", position = "dodge", color = "black") +
    geom_text(aes(label = alltime_song_count),
              hjust = 1.05,
              size = 4) +
    theme_bw() +
    labs(
        title = "10 Most Played Songs (2019-2025)",
        fill = "Song",
        y = "Name of Song",
        x = "Play Count"
    )
top10_songs_oat_bar
```

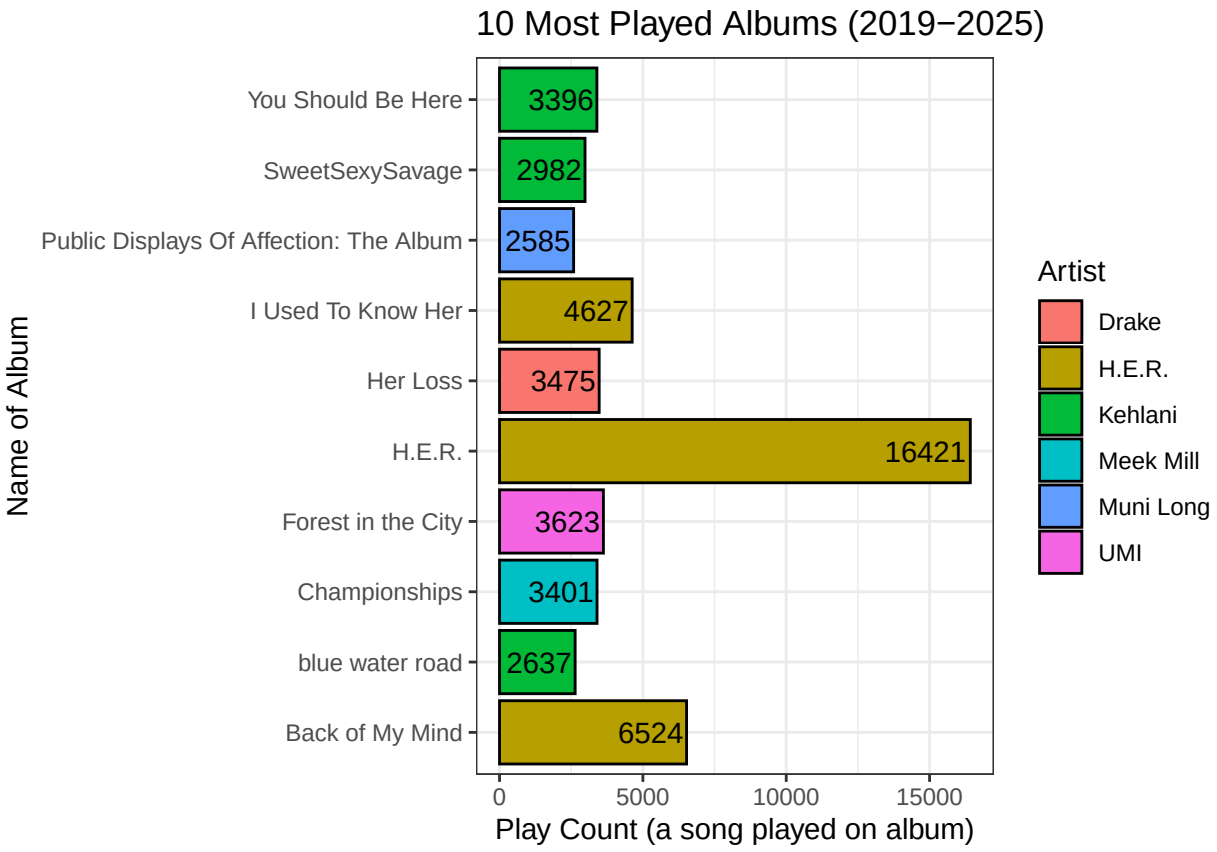



```
#Most Listened to Artists of All Time
top10_artists_oat_bar <- ggplot(alltime_artists %>%
                                slice_head(n = 10),
                            aes(x = alltime_artist_count, y = artist,
                                fill = artist)) +
    geom_bar(stat = "identity", position = "dodge", color = "black") +
    geom_text(aes(label = alltime_artist_count),
              hjust = 1.05,
              size = 4) +
    theme_bw() +
    labs(
        title = "10 Most Played Artists (2019-2025)",
        fill = "Artist",
        y = "Name of Artists",
```

```
        x = "Play Count"
    )
top10_artists_oat_bar
```

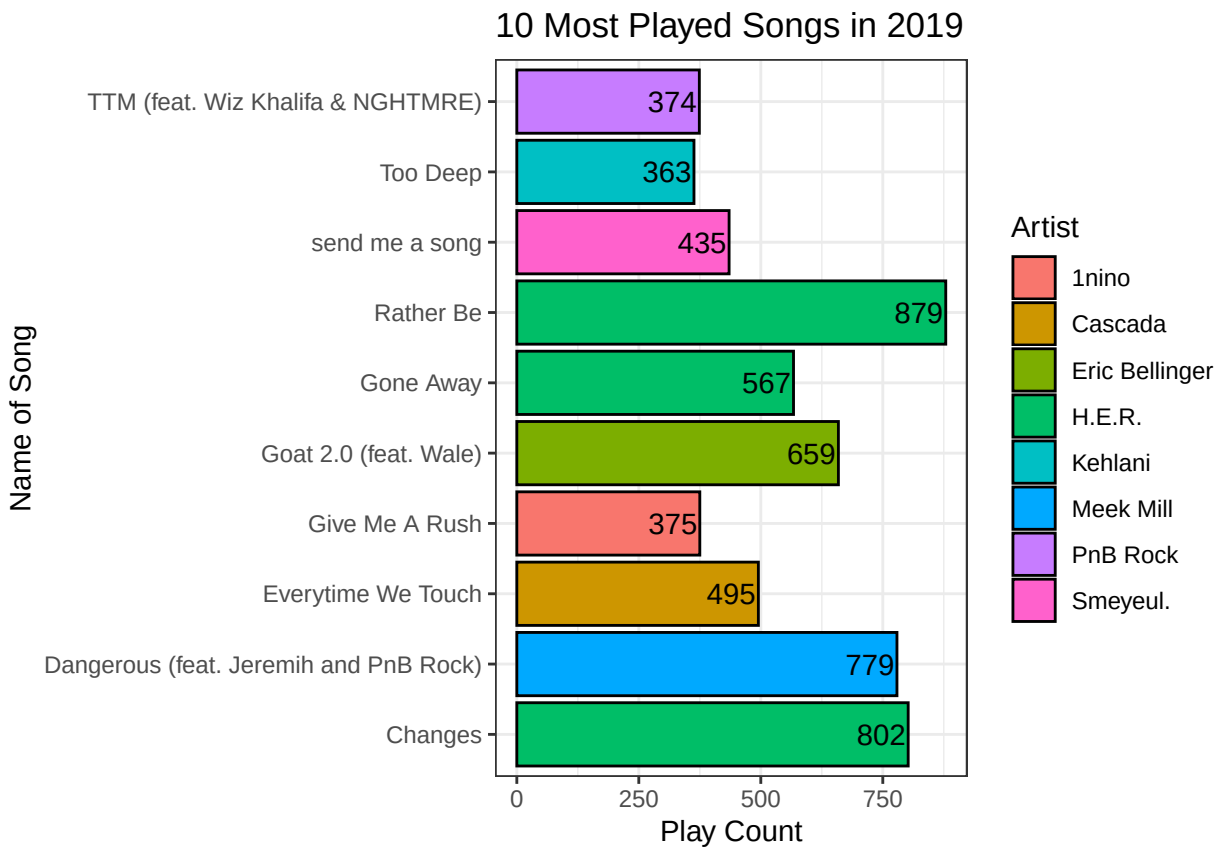


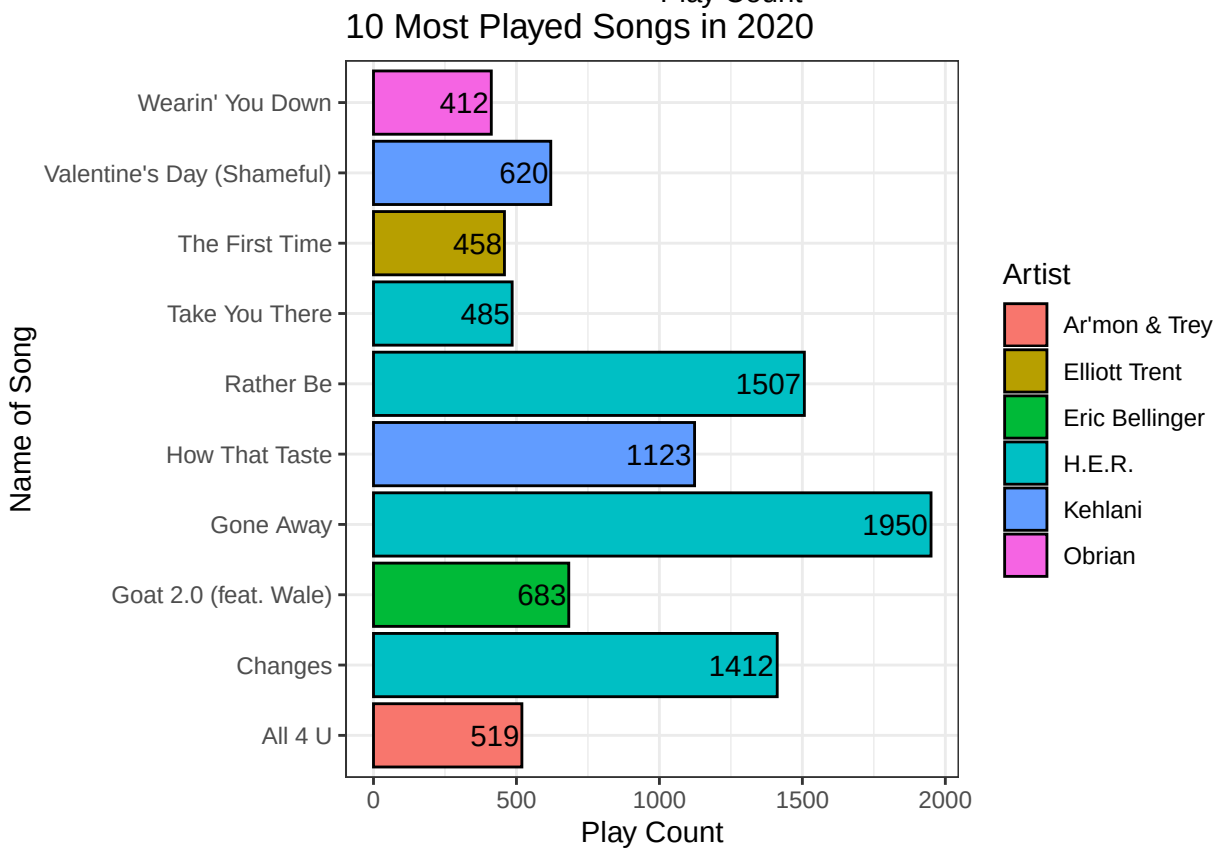

```
#Most Listened to Albums of All Time
top10_albums_oat_bar <- ggplot(alltime_albums %>%
                                 slice_head(n = 10),
                               aes(x = alltime_album_count, y = album,
                                   fill = artist)) +
    geom_bar(stat = "identity", position = "dodge", color = "black") +
    geom_text(aes(label = alltime_album_count),
              hjust = 1.05,
              size = 4) +
    theme_bw() +
    labs(
        title = "10 Most Played Albums (2019-2025)",
        fill = "Artist",
        y = "Name of Album",
        x = "Play Count (a song played on album)"
    )
top10_albums_oat_bar
```

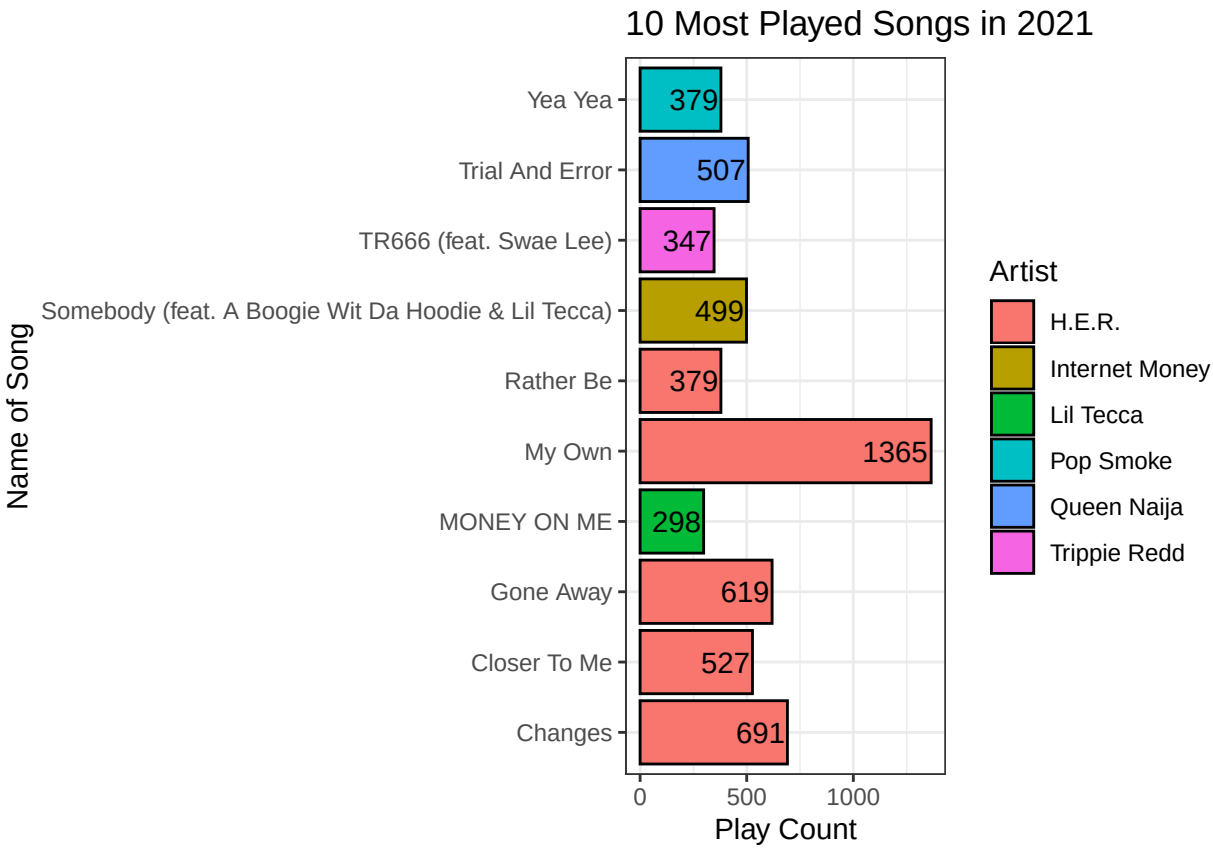


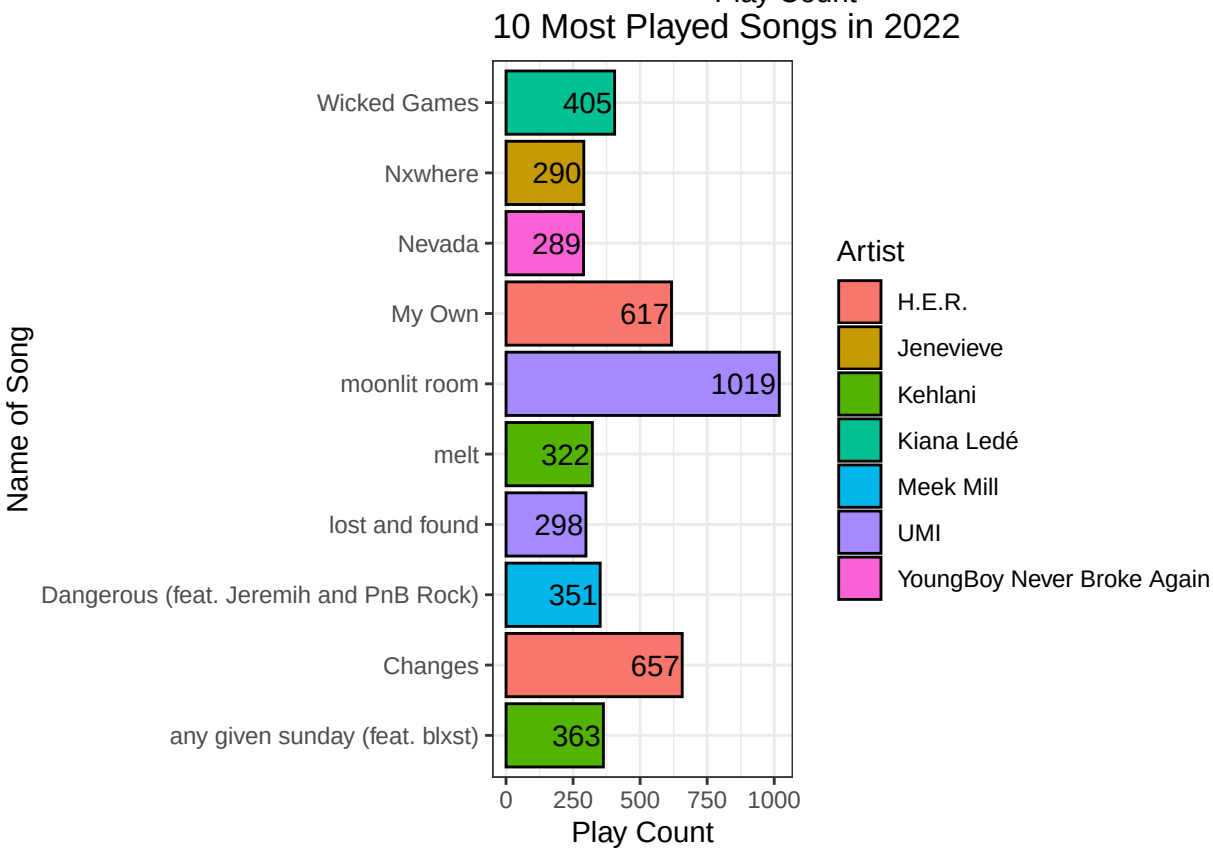
10 Most Played Songs by Year

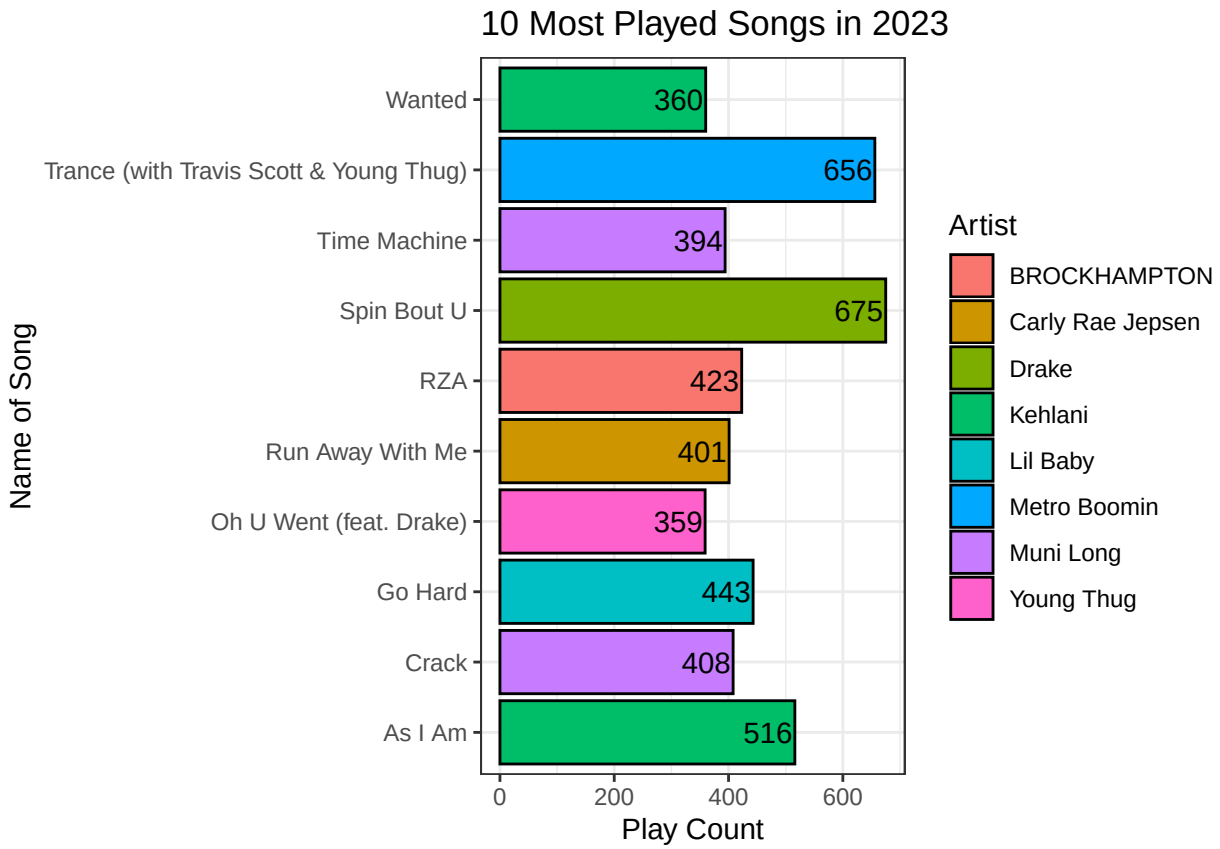
```
#Most Listened to Songs of All Time
music_years <- unique(spotify_data_2$play_year)

for (music_year in music_years) {
    yearly_top10_songs_bar <- ggplot(yearly_top10_songs %>%
                                     filter(play_year == music_year),
                           aes(x = yearly_top10_songs_count, y = song,
                               fill = artist)) +
        geom_bar(stat = "identity", position = "dodge", color = "black") +
        geom_text(aes(label = yearly_top10_songs_count),
              hjust = 1.05,
              size = 4) +
        theme_bw() +
        labs(
        title = paste("10 Most Played Songs in", music_year),
        fill = "Artist",
        y = "Name of Song",
        x = "Play Count"
        )
    print(yearly_top10_songs_bar)
}
```

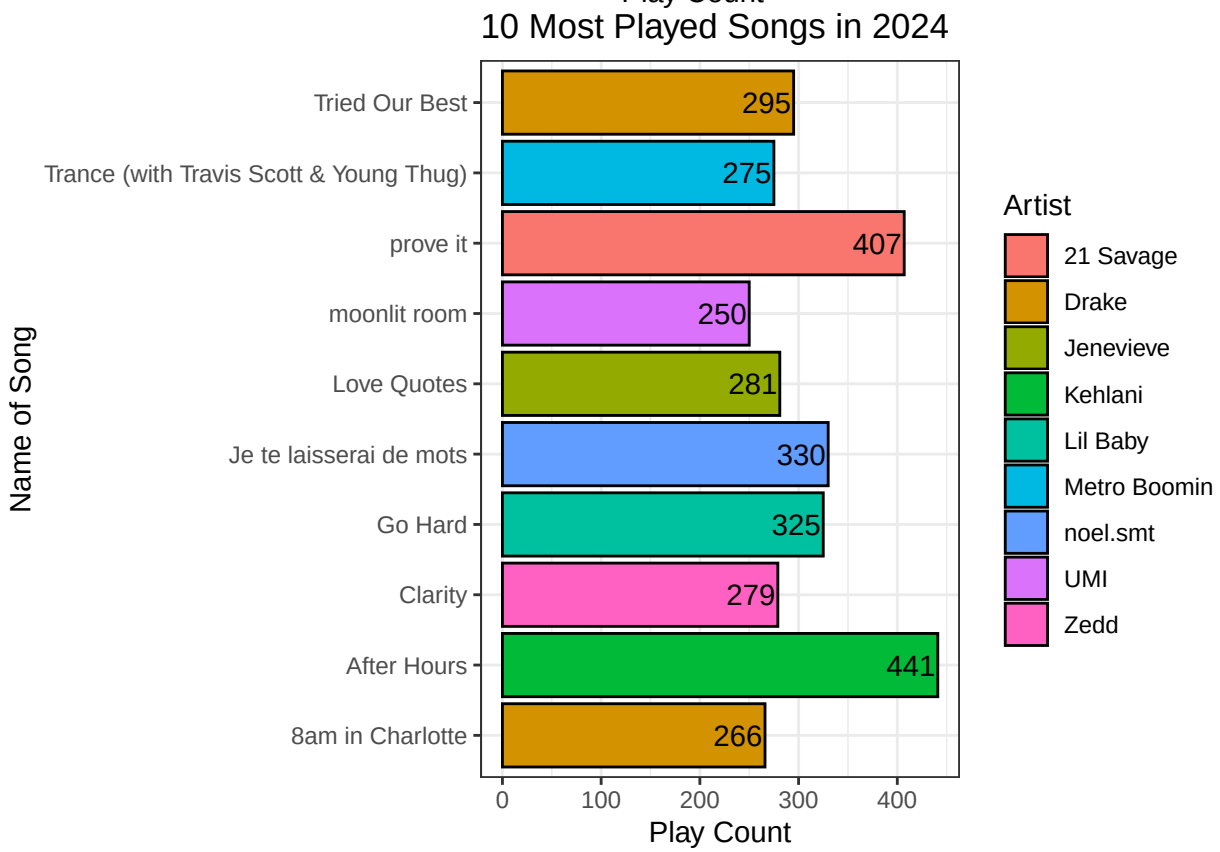

10 Most Played Songs in 2019
TTM (feat. Wiz Khalifa & NGHTMRE)
Too Deep
send me a song
Rather Be
Gone Away
Goat 2.0 (feat. Wale)
Give Me A Rush
Everytime We Touch
Dangerous (feat. Jeremih and PnB Rock)
Changes
374
363
435
879
567
659
375
495
779
802
Name of Song
0
250
500
750
Play Count
Artist
1nino
Cascada
Eric Bellinger
H.E.R.
Kehlani
Meek Mill
PnB Rock
Smeyeul.

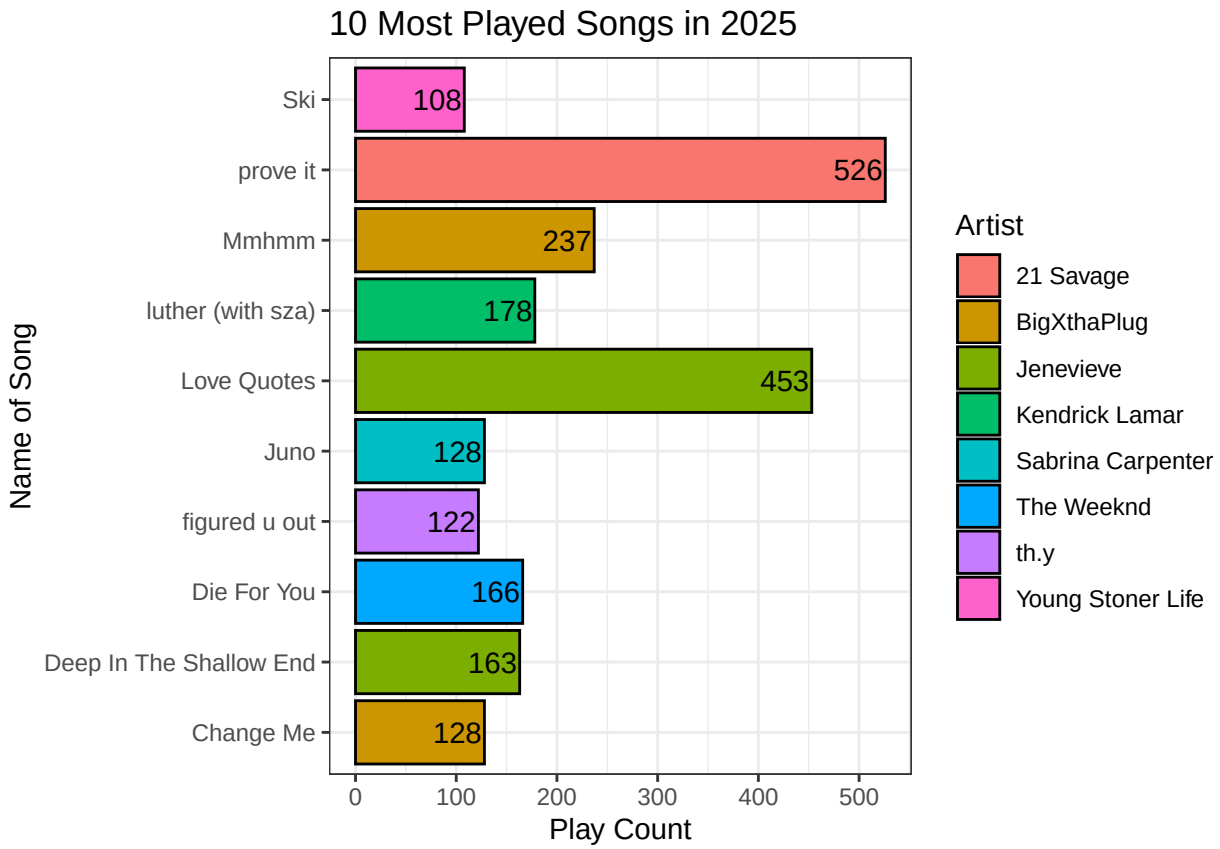

10 Most Played Songs in 2020
Wearin' You Down
Valentine's Day (Shameful)
The First Time
Take You There
Rather Be
How That Taste
Gone Away
Goat 2.0 (feat. Wale)
Changes
All 4 U
412
620
458
485
1507
1123
1950
683
1412
519
Name of Song
0
500
1000
1500
2000
Play Count
Artist
Ar'mon & Trey
Elliott Trent
Eric Bellinger
H.E.R.
Kehlani
Obrian


10 Most Played Songs in 2021
Yea Yea
Trial And Error
TR666 (feat. Swae Lee)
Somebody (feat. A Boogie Wit Da Hoodie & Lil Tecca)
Rather Be
My Own
MONEY ON ME
Gone Away
Closer To Me
Changes
379
507
347
499
379
1365
298
619
527
691
0
500
1000
Play Count
Name of Song
Artist
H.E.R.
Internet Money
Lil Tecca
Pop Smoke
Queen Naija
Trippie Redd


10 Most Played Songs in 2022
Wicked Games
Nxwhere
Nevada
My Own
moonlit room
melt
lost and found
Dangerous (feat. Jeremih and PnB Rock)
Changes
any given sunday (feat. blxst)
405
290
289
617
1019
322
298
351
657
363
0
250
500
750
1000
Play Count
Name of Song
Artist
H.E.R.
Jenevieve
Kehlani
Kiana Ledé
Meek Mill
UMI
YoungBoy Never Broke Again

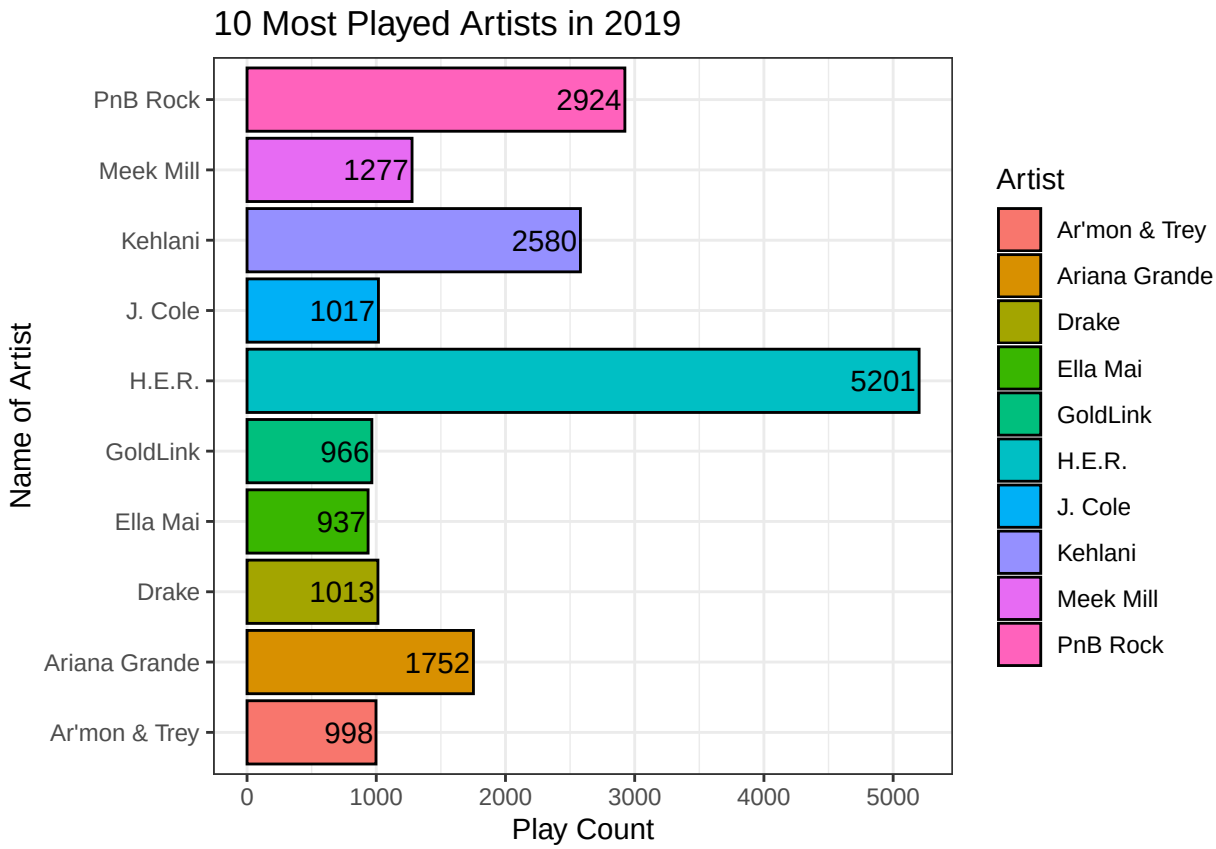

10 Most Played Songs in 2023
Name of Song
Wanted
Trance (with Travis Scott & Young Thug)
Time Machine
Spin Bout U
RZA
Run Away With Me
Oh U Went (feat. Drake)
Go Hard
Crack
As I Am
360
656
394
675
423
401
359
443
408
516
0
200
400
600
Play Count
Artist
BROCKHAMPTON
Carly Rae Jepsen
Drake
Kehlani
Lil Baby
Metro Boomin
Muni Long
Young Thug

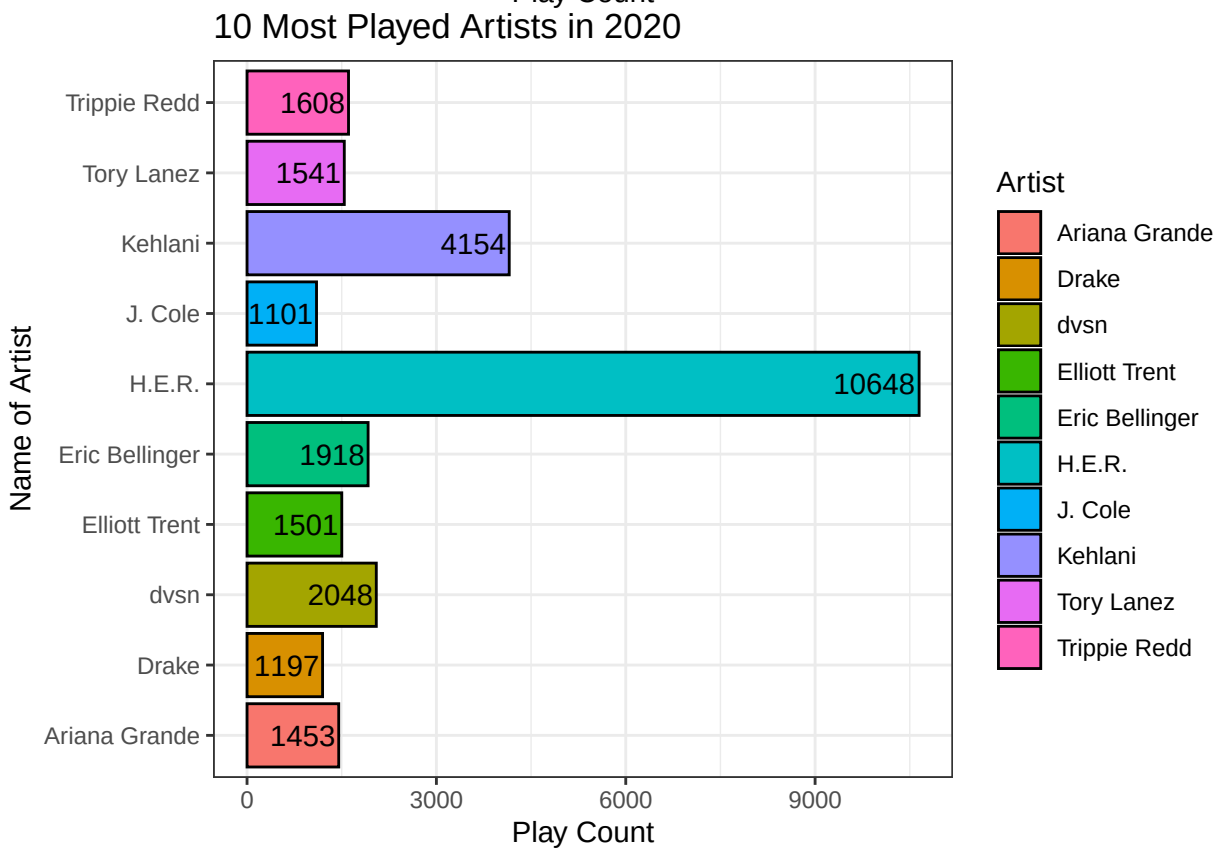

10 Most Played Songs in 2024
Name of Song
Tried Our Best
Trance (with Travis Scott & Young Thug)
prove it
moonlit room
Love Quotes
Je te laisserai de mots
Go Hard
Clarity
After Hours
8am in Charlotte
295
275
407
250
281
330
325
279
441
266
0
100
200
300
400
Play Count
Artist
21 Savage
Drake
Jenevieve
Kehlani
Lil Baby
Metro Boomin
noel.smt
UMI
Zedd

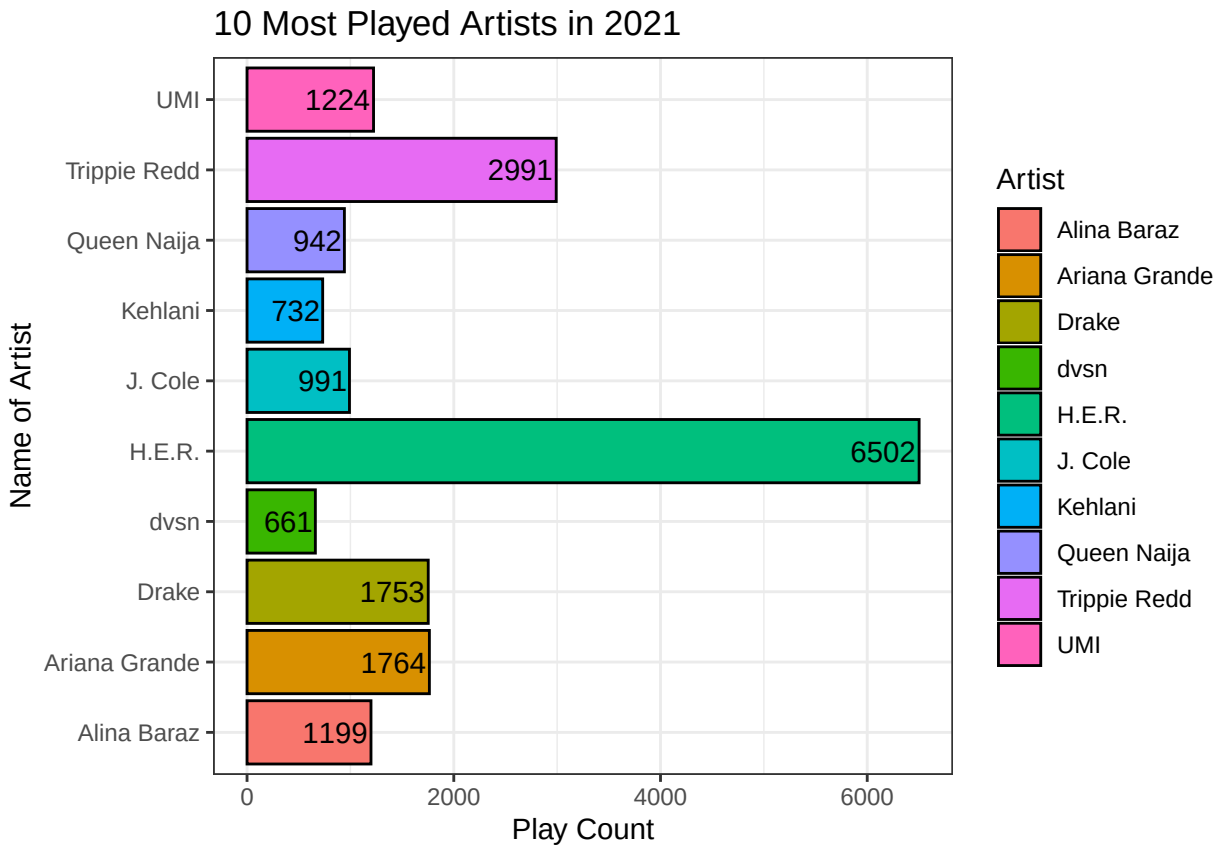


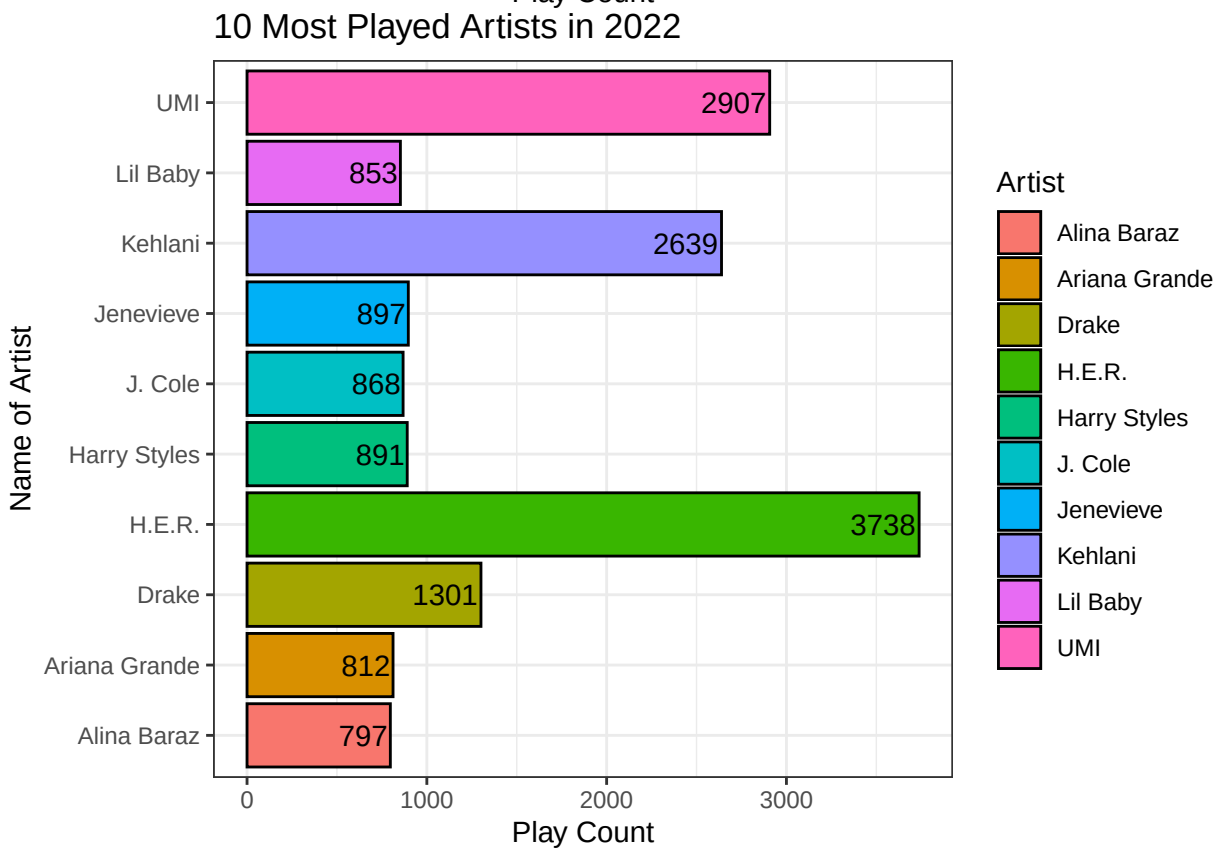
10 Most Played Artists by Year

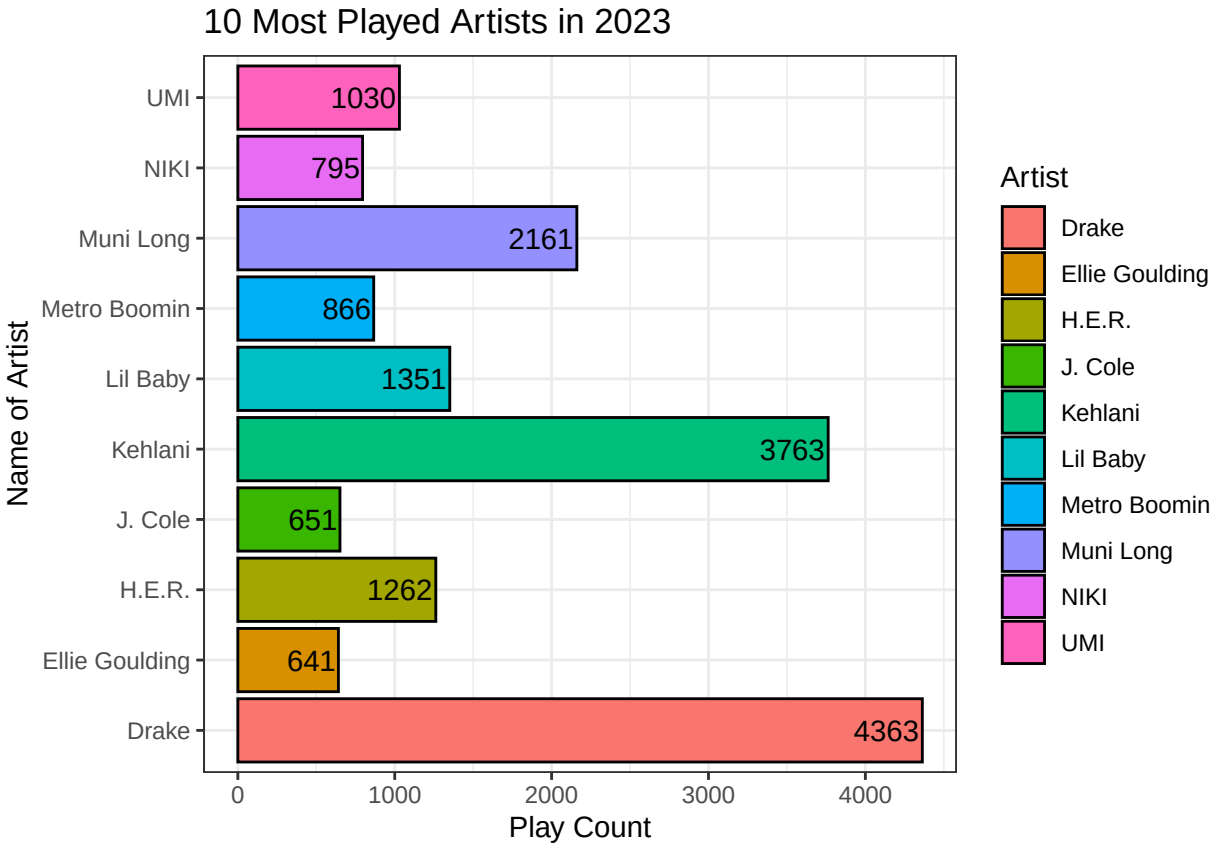
```
for (music_year in music_years) {
    yearly_top10_artists_bar <- ggplot(yearly_top10_artists %>%
                                       filter(play_year == music_year),
                           aes(x = yearly_top10_artists_count, y = artist,
                               fill = artist)) +
        geom_bar(stat = "identity", position = "dodge", color = "black") +
        geom_text(aes(label = yearly_top10_artists_count),
              hjust = 1.05,
              size = 4) +
        theme_bw() +
        labs(
        title = paste("10 Most Played Artists in", music_year),
        fill = "Artist",
        y = "Name of Artist",
        x = "Play Count"
        )
    print(yearly_top10_artists_bar)
}
```

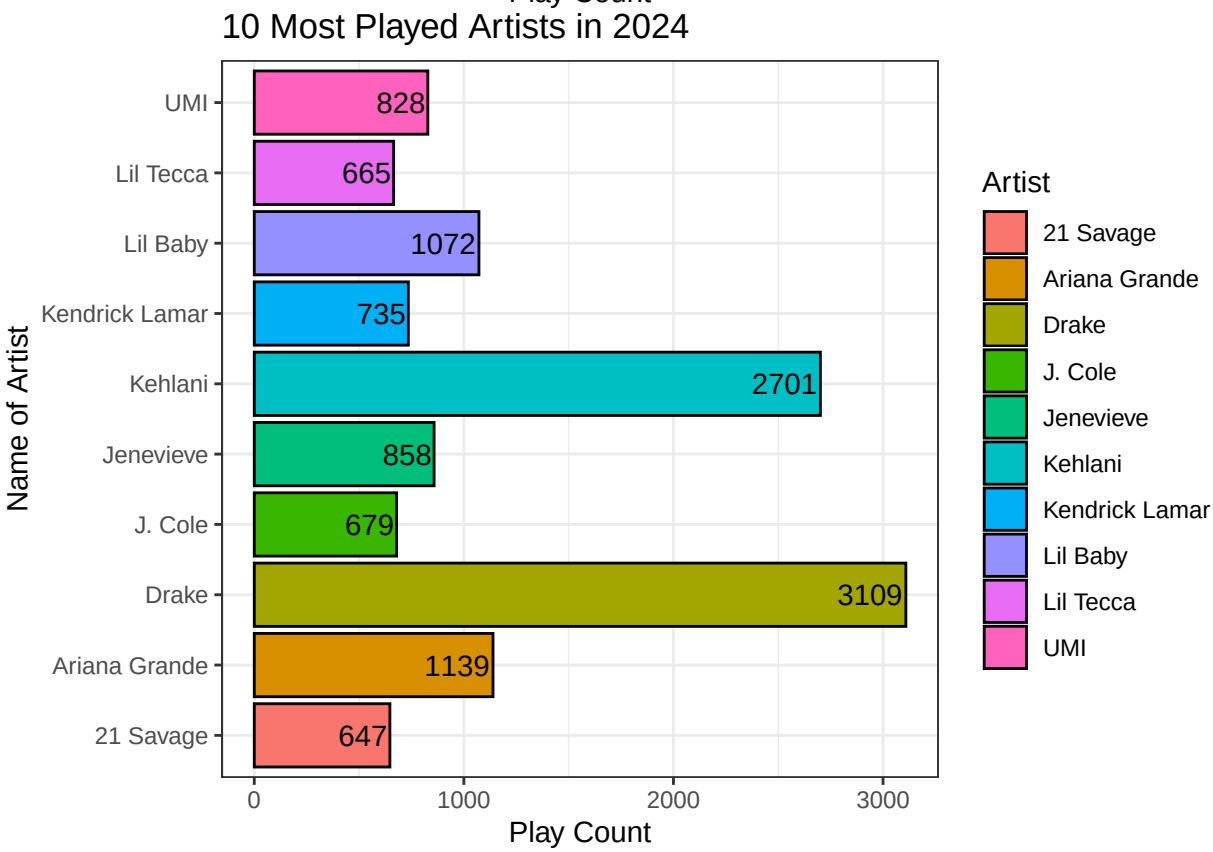

10 Most Played Artists in 2019
PnB Rock
Meek Mill
Kehlani
J. Cole
H.E.R.
GoldLink
Ella Mai
Drake
Ariana Grande
Ar'mon & Trey
2924
1277
2580
1017
5201
966
937
1013
1752
998
Name of Artist
0
1000
2000
3000
4000
5000
Play Count
Artist
Ar'mon & Trey
Ariana Grande
Drake
Ella Mai
GoldLink
H.E.R.
J. Cole
Kehlani
Meek Mill
PnB Rock

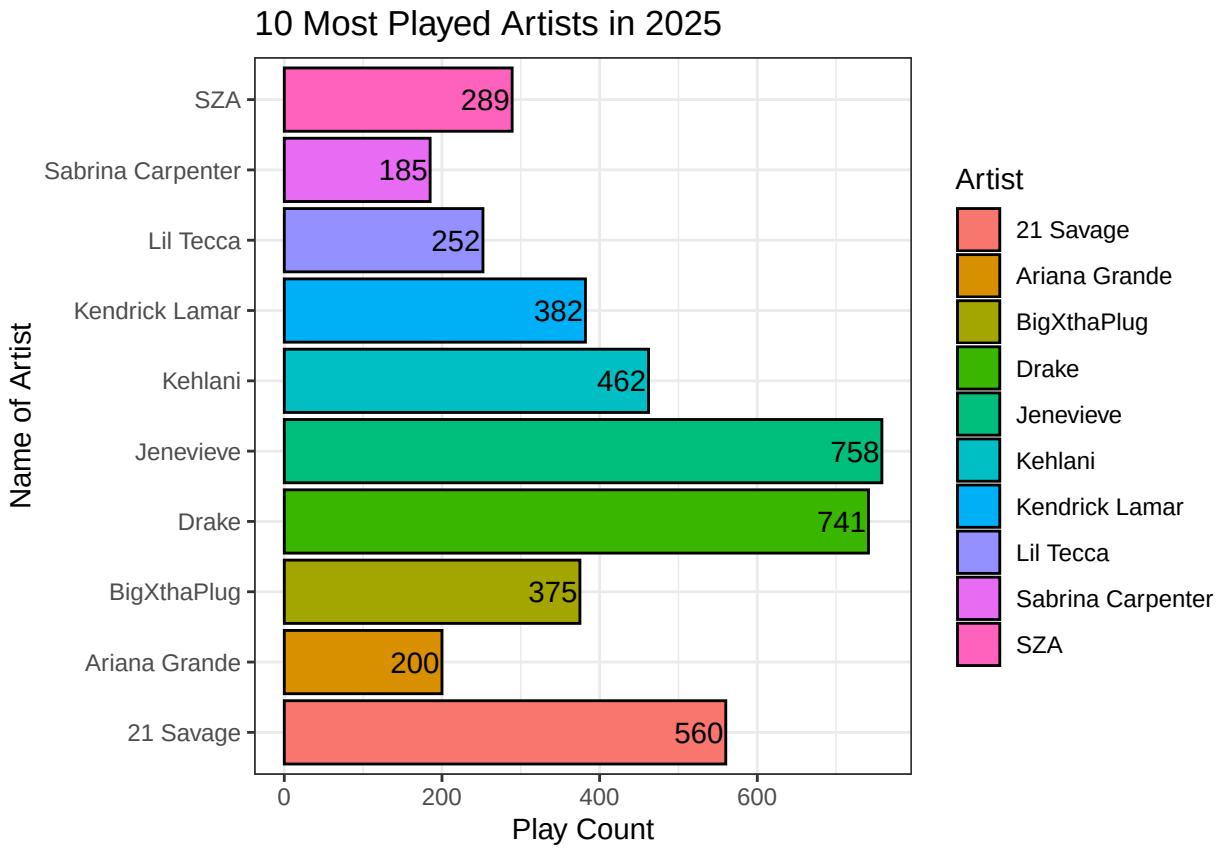

10 Most Played Artists in 2020
Trippie Redd
Tory Lanez
Kehlani
J. Cole
H.E.R.
Eric Bellinger
Elliott Trent
dvsn
Drake
Ariana Grande
1608
1541
4154
1101
10648
1918
1501
2048
1197
1453
Name of Artist
0
3000
6000
9000
Play Count
Artist
Ariana Grande
Drake
dvsn
Elliott Trent
Eric Bellinger
H.E.R.
J. Cole
Kehlani
Tory Lanez
Trippie Redd


10 Most Played Artists in 2021
Name of Artist
UMI
Trippie Redd
Queen Naija
Kehlani
J. Cole
H.E.R.
dvsn
Drake
Ariana Grande
Alina Baraz
1224
2991
942
732
991
6502
661
1753
1764
1199
0
2000
4000
6000
Play Count
Artist
Alina Baraz
Ariana Grande
Drake
dvsn
H.E.R.
J. Cole
Kehlani
Queen Naija
Trippie Redd
UMI


10 Most Played Artists in 2022
Name of Artist
UMI
Lil Baby
Kehlani
Jenevieve
J. Cole
Harry Styles
H.E.R.
Drake
Ariana Grande
Alina Baraz
2907
853
2639
897
868
891
3738
1301
812
797
0
1000
2000
3000
Play Count
Artist
Alina Baraz
Ariana Grande
Drake
H.E.R.
Harry Styles
J. Cole
Jenevieve
Kehlani
Lil Baby
UMI

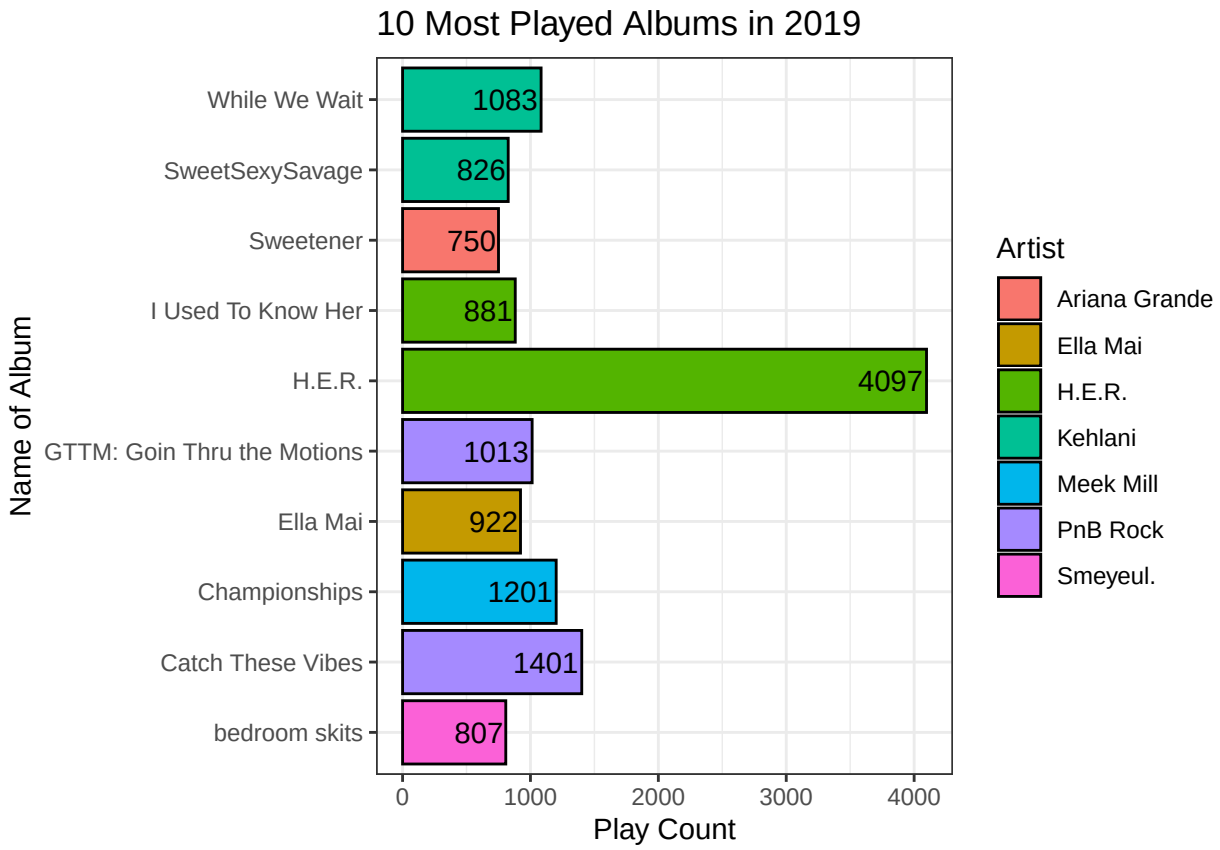

10 Most Played Artists in 2023
Name of Artist
UMI
NIKI
Muni Long
Metro Boomin
Lil Baby
Kehlani
J. Cole
H.E.R.
Ellie Goulding
Drake
1030
795
2161
866
1351
3763
651
1262
641
4363
0
1000
2000
3000
4000
Play Count
Artist
Drake
Ellie Goulding
H.E.R.
J. Cole
Kehlani
Lil Baby
Metro Boomin
Muni Long
NIKI
UMI

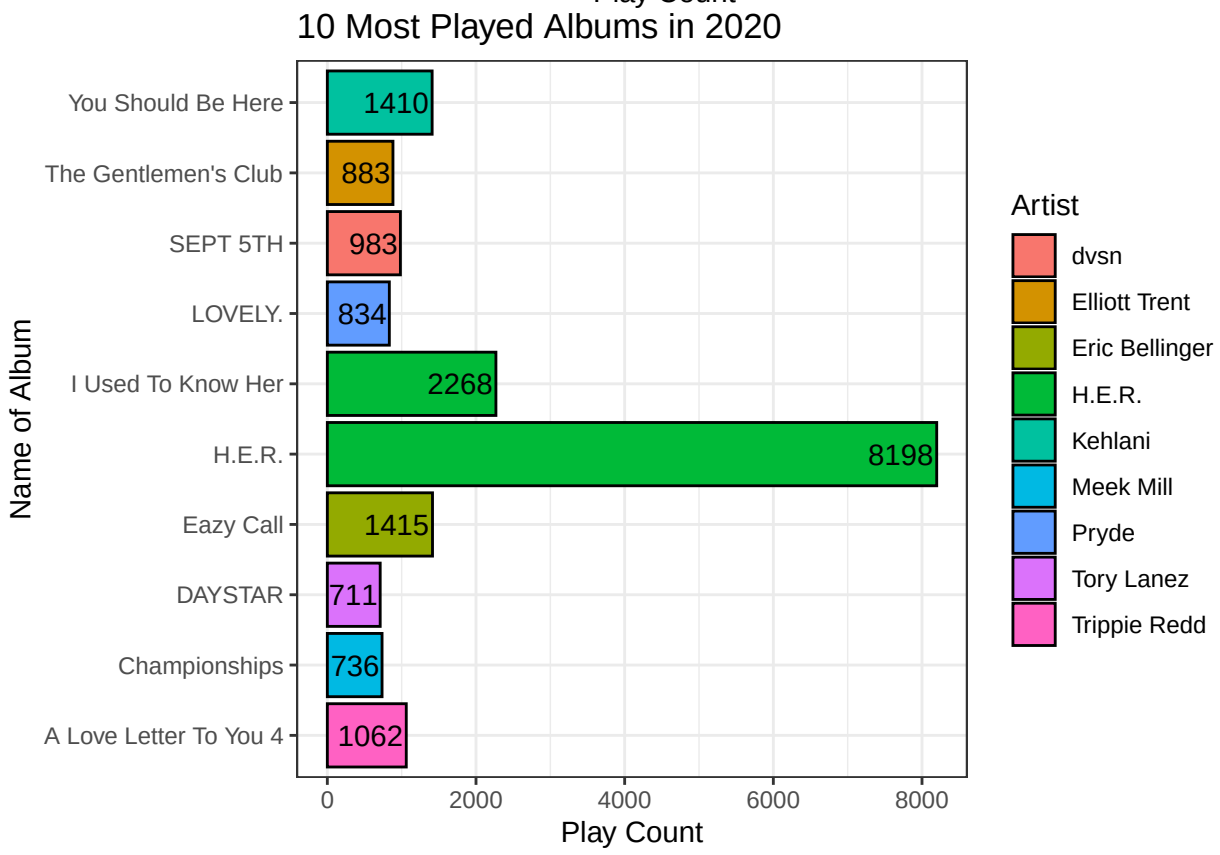

10 Most Played Artists in 2024
Name of Artist
UMI
Lil Tecca
Lil Baby
Kendrick Lamar
Kehlani
Jenevieve
J. Cole
Drake
Ariana Grande
21 Savage
828
665
1072
735
2701
858
679
3109
1139
647
0
1000
2000
3000
Play Count
Artist
21 Savage
Ariana Grande
Drake
J. Cole
Jenevieve
Kehlani
Kendrick Lamar
Lil Baby
Lil Tecca
UMI

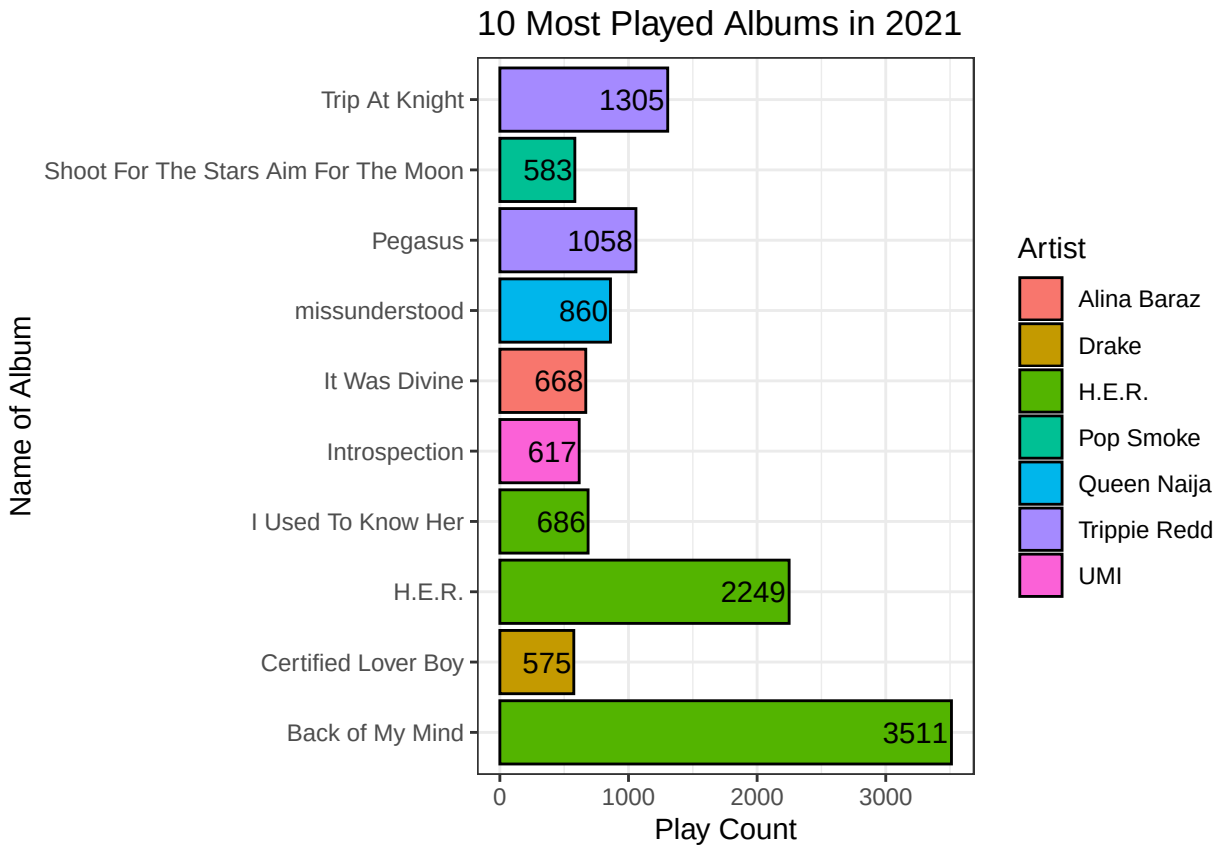


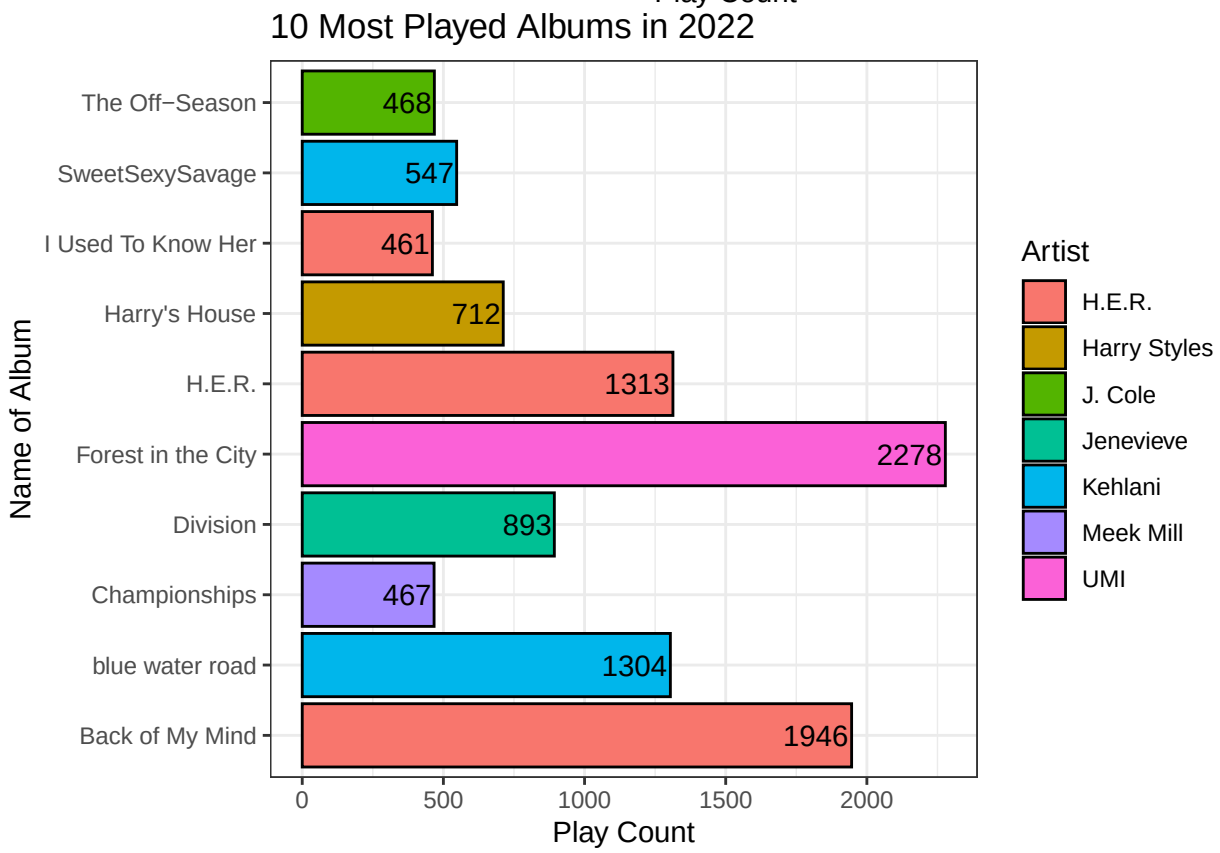
10 Most Played Albums by Year

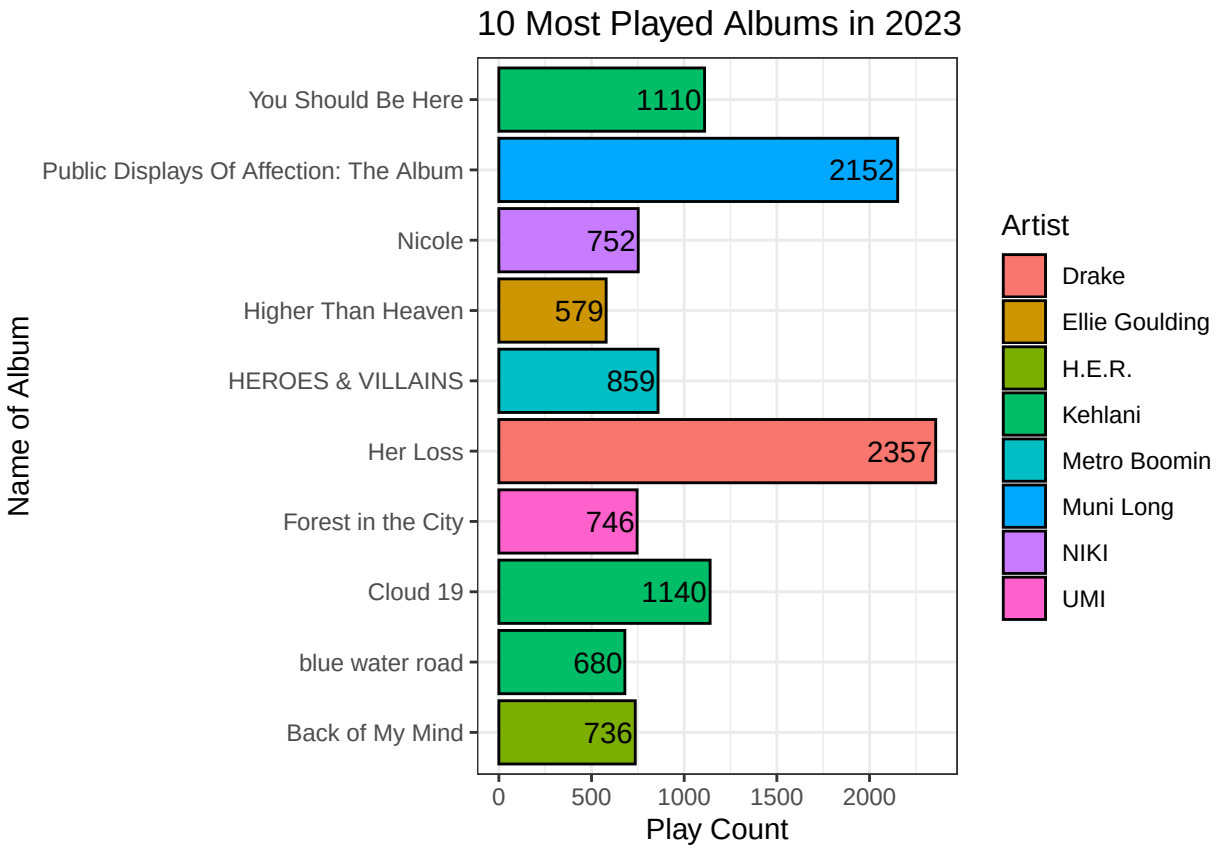
```
for (music_year in music_years) {
    yearly_top10_albums_bar <- ggplot(yearly_top10_albums %>%
                                      filter(play_year == music_year),
                           aes(x = yearly_top10_albums_count, y = album,
                               fill = artist)) +
        geom_bar(stat = "identity", position = "dodge", color = "black") +
        geom_text(aes(label = yearly_top10_albums_count),
              hjust = 1.05,
              size = 4) +
        theme_bw() +
        labs(
        title = paste("10 Most Played Albums in", music_year),
        fill = "Artist",
        y = "Name of Album",
        x = "Play Count"
        )
    print(yearly_top10_albums_bar)
    }
```

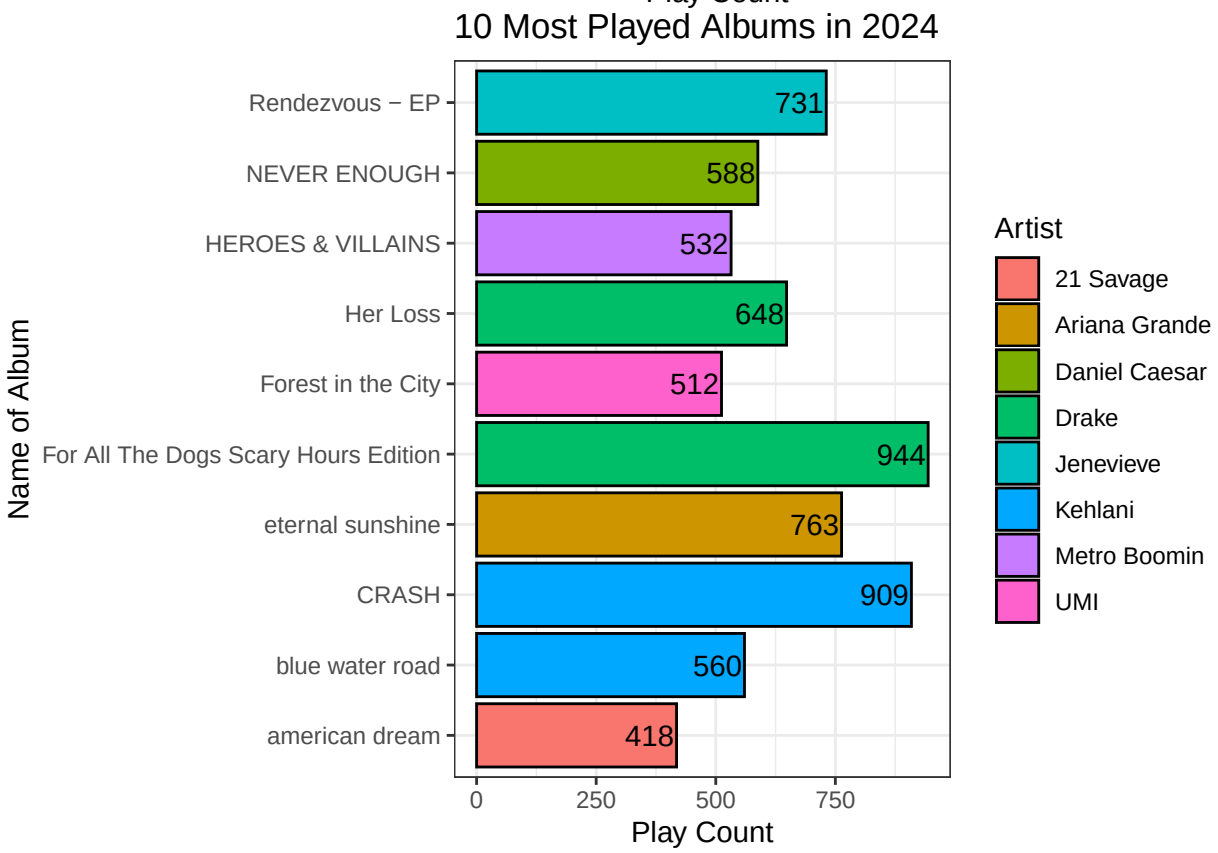

10 Most Played Albums in 2019
While We Wait
SweetSexySavage
Sweetener
I Used To Know Her
H.E.R.
GTTM: Goin Thru the Motions
Ella Mai
Championships
Catch These Vibes
bedroom skits
1083
826
750
881
4097
1013
922
1201
1401
807
0
1000
2000
3000
4000
Play Count
Name of Album
Artist
Ariana Grande
Ella Mai
H.E.R.
Kehlani
Meek Mill
PnB Rock
Smeyeul.

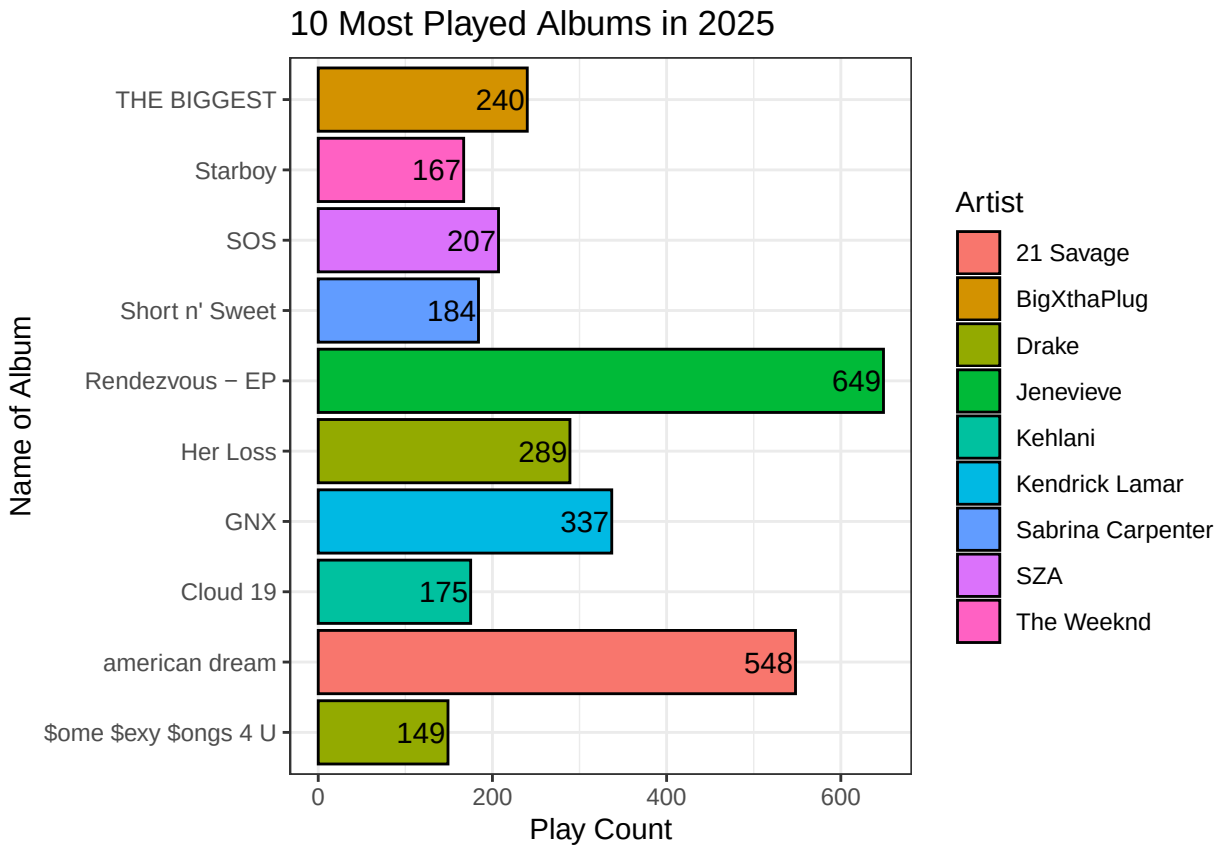

10 Most Played Albums in 2020
You Should Be Here
The Gentlemen's Club
SEPT 5TH
LOVELY.
I Used To Know Her
H.E.R.
Eazy Call
DAYSTAR
Championships
A Love Letter To You 4
1410
883
983
834
2268
8198
1415
711
736
1062
0
2000
4000
6000
8000
Play Count
Name of Album
Artist
dvsn
Elliott Trent
Eric Bellinger
H.E.R.
Kehlani
Meek Mill
Pryde
Tory Lanez
Trippie Redd


10 Most Played Albums in 2021
Trip At Knight
Shoot For The Stars Aim For The Moon
Pegasus
missunderstood
It Was Divine
Introspection
I Used To Know Her
H.E.R.
Certified Lover Boy
Back of My Mind
1305
583
1058
860
668
617
686
2249
575
3511
0
1000
2000
3000
Play Count
Name of Album
Artist
Alina Baraz
Drake
H.E.R.
Pop Smoke
Queen Naija
Trippie Redd
UMI


10 Most Played Albums in 2022
The Off−Season
SweetSexySavage
I Used To Know Her
Harry's House
H.E.R.
Forest in the City
Division
Championships
blue water road
Back of My Mind
468
547
461
712
1313
2278
893
467
1304
1946
0
500
1000
1500
2000
Play Count
Name of Album
Artist
H.E.R.
Harry Styles
J. Cole
Jenevieve
Kehlani
Meek Mill
UMI


10 Most Played Albums in 2023
You Should Be Here
Public Displays Of Affection: The Album
Nicole
Higher Than Heaven
HEROES & VILLAINS
Her Loss
Forest in the City
Cloud 19
blue water road
Back of My Mind
1110
2152
752
579
859
2357
746
1140
680
736
0
500
1000
1500
2000
Play Count
Name of Album
Artist
Drake
Ellie Goulding
H.E.R.
Kehlani
Metro Boomin
Muni Long
NIKI
UMI

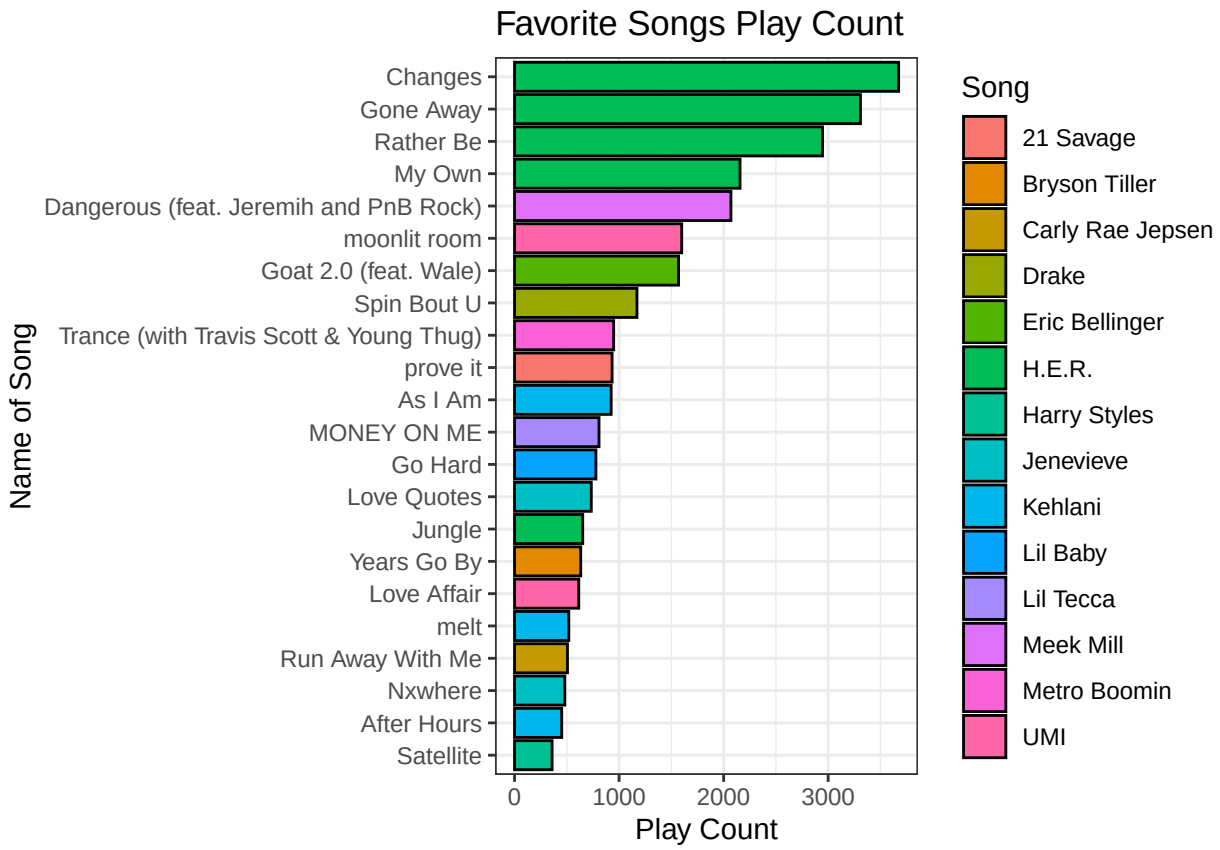

10 Most Played Albums in 2024
Rendezvous − EP
NEVER ENOUGH
HEROES & VILLAINS
Her Loss
Forest in the City
For All The Dogs Scary Hours Edition
eternal sunshine
CRASH
blue water road
american dream
731
588
532
648
512
944
763
909
560
418
0
250
500
750
Play Count
Name of Album
Artist
21 Savage
Ariana Grande
Daniel Caesar
Drake
Jenevieve
Kehlani
Metro Boomin
UMI



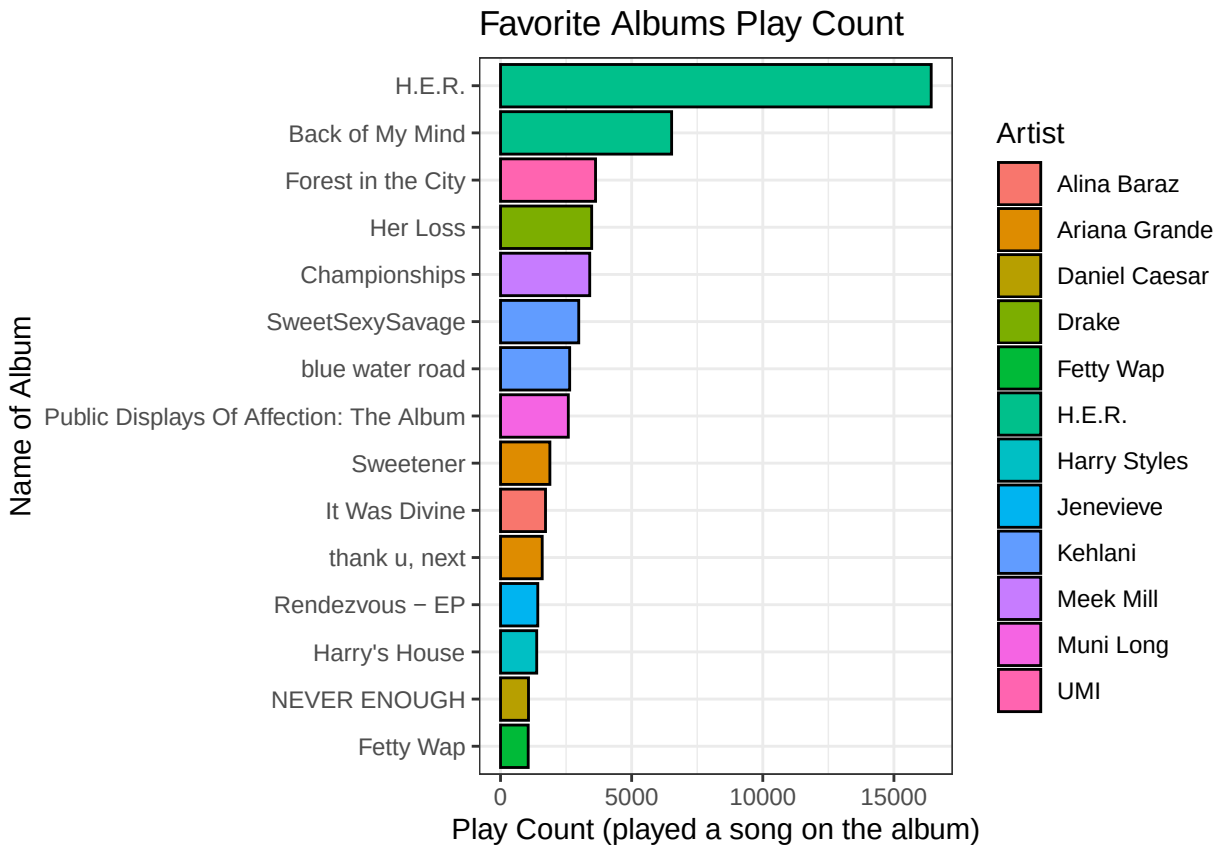
Favorite Songs/Artists/Albums Statistics

Play Count of Favorite Songs/Artists/Albums

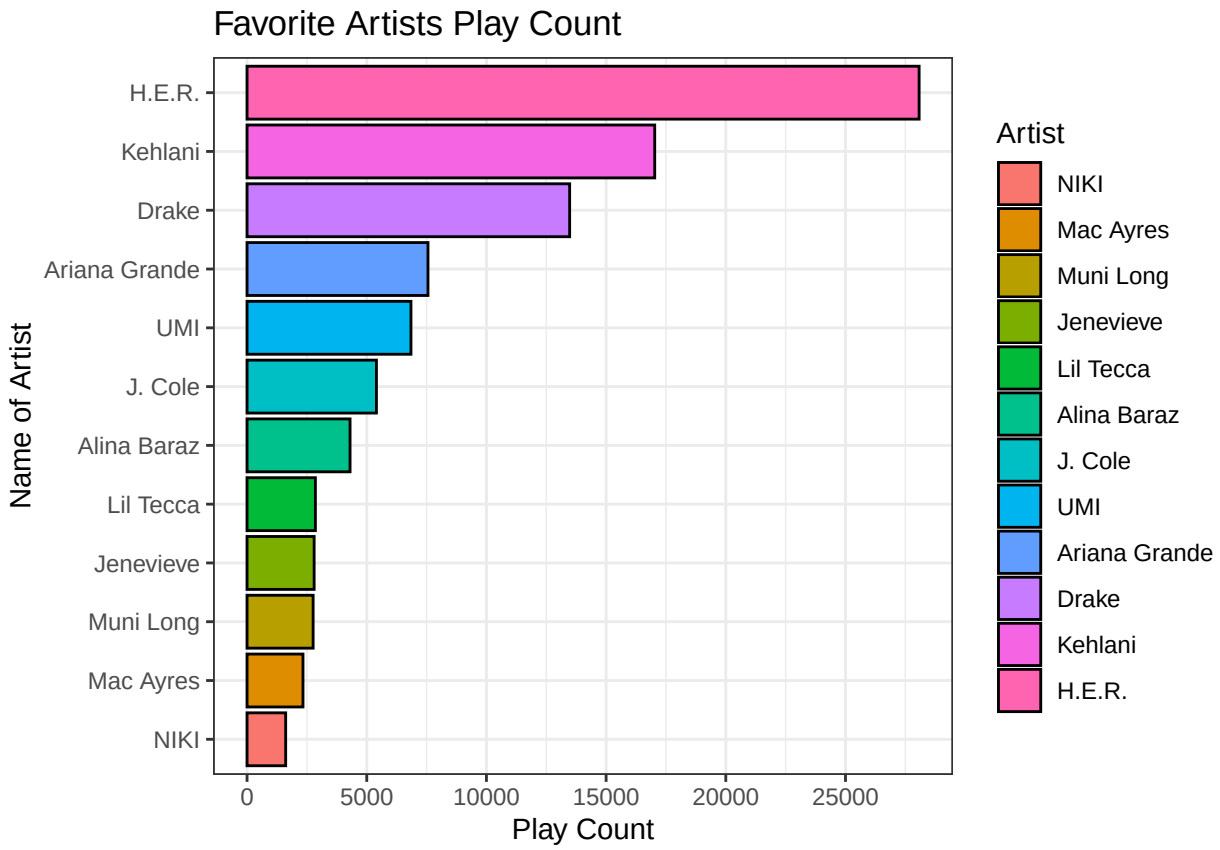
```
fav_songs_oat_bar <- ggplot(alltime_songs_plot_data %>%
                            filter(favorite_song == "Yes") %>%
                            mutate(
                                song = fct_reorder(song, alltime_song_count)
                                ) %>%
                            distinct(song, artist, alltime_song_count),
                        aes(x = alltime_song_count, y = song, fill = artist)) +
    geom_bar(stat = "identity", position = "dodge", color = "black") +
    theme_bw() +
    labs(
        title = "Favorite Songs Play Count",
        fill = "Song",
        y = "Name of Song",
        x = "Play Count"
    )
fav_songs_oat_bar
```




```
fav_albums_oat_bar <- ggplot(alltime_albums_plot_data %>%
                             filter(favorite_album == "Yes") %>%
                             mutate(
                                 album = fct_reorder(album, alltime_album_count)
                                 ) %>%
                             distinct(album, artist, alltime_album_count),
                           aes(x = alltime_album_count, y = album, fill = artist)) +
    geom_bar(stat = "identity", position = "dodge", color = "black") +
    theme_bw() +
    labs(
        title = "Favorite Albums Play Count",
        fill = "Artist",
        y = "Name of Album",
        x = "Play Count (played a song on the album)"
    )
fav_albums_oat_bar
```

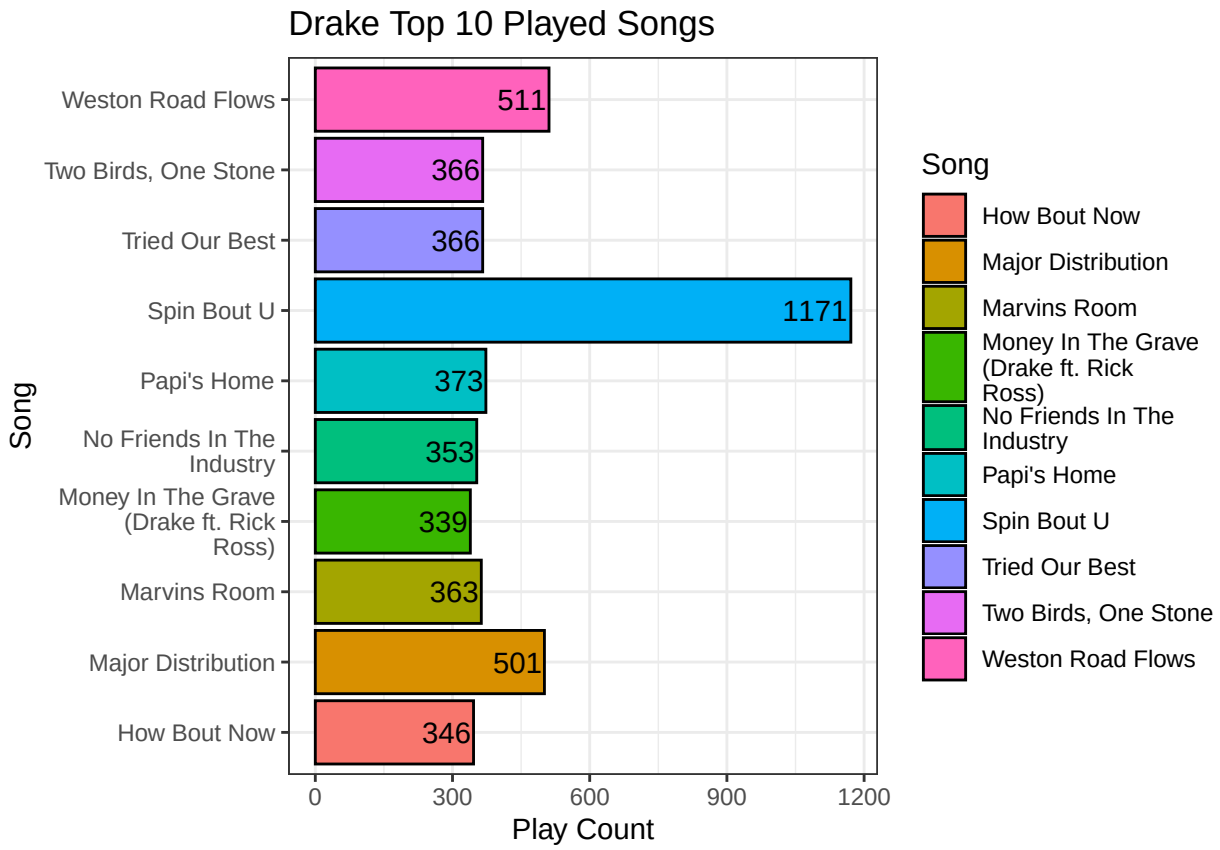


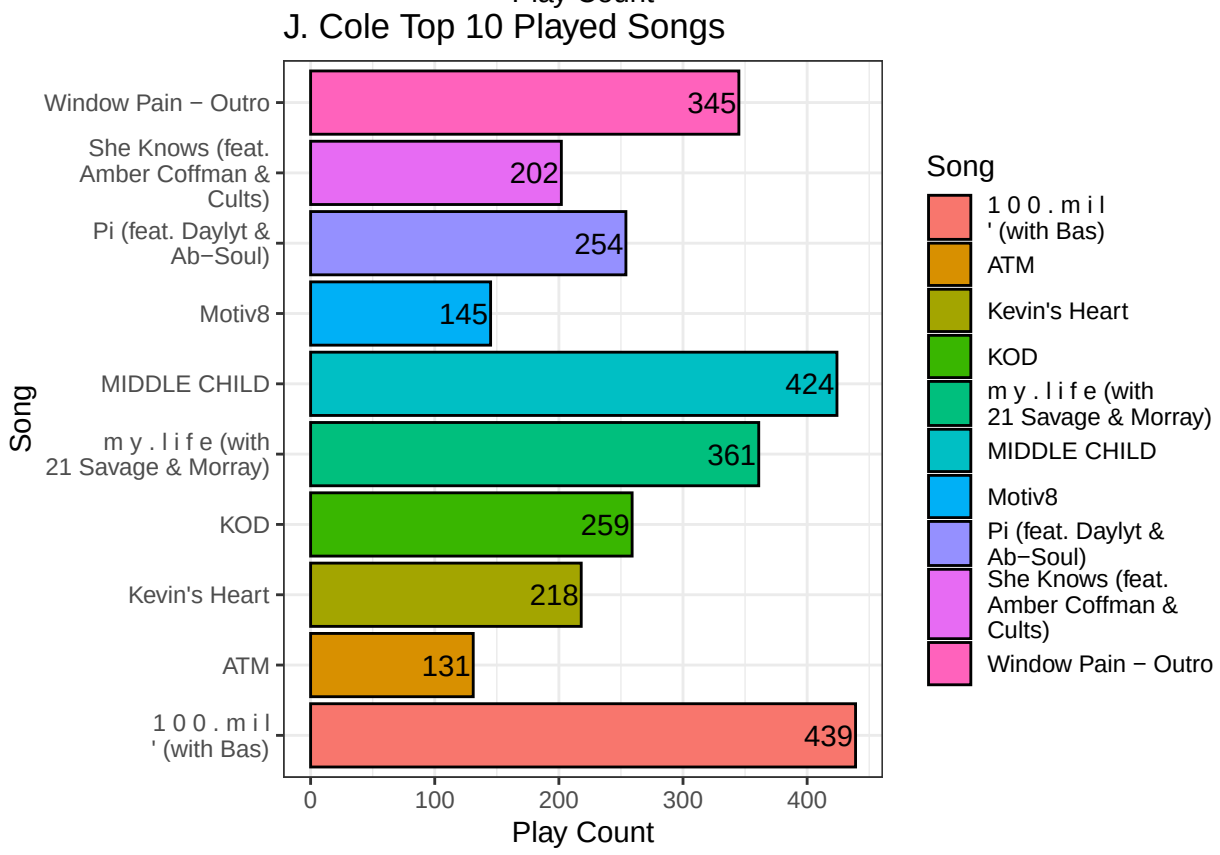

```
fav_artists_oat_bar <- ggplot(alltime_artists_plot_data %>%
                              filter(favorite_artist == "Yes") %>%
                              mutate(
                                  artist = fct_reorder(artist,
                                                       alltime_artist_count)
                                  ) %>%
                              distinct(artist, alltime_artist_count),
                          aes(x = alltime_artist_count, y = artist,
                              fill = artist)) +
    geom_bar(stat = "identity", position = "dodge", color = "black") +
    scale_x_continuous(
        breaks = seq(0, max(alltime_artists_plot_data$alltime_artist_count),
                     by = 5000)) +
    theme_bw() +
    labs(
        title = "Favorite Artists Play Count",
        fill = "Artist",
        y = "Name of Artist",
        x = "Play Count"
    )
fav_artists_oat_bar
```

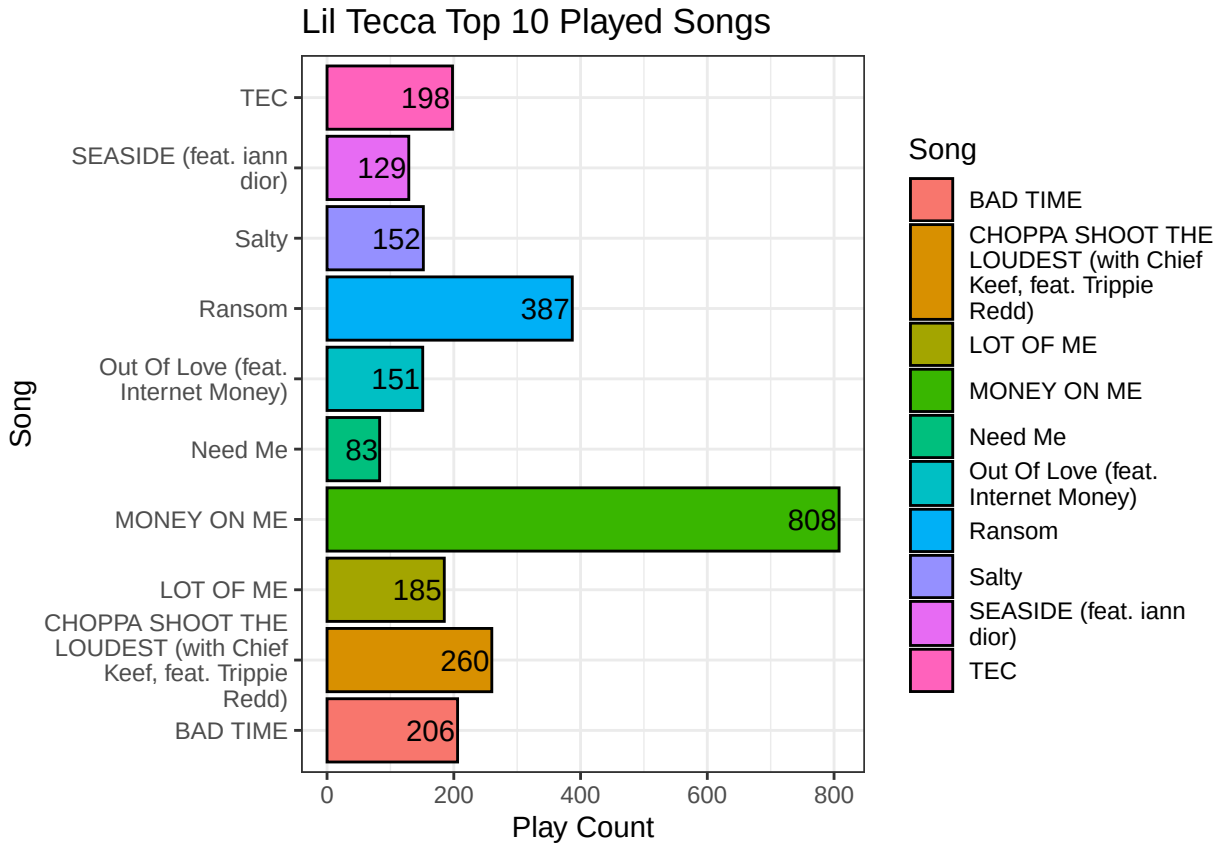


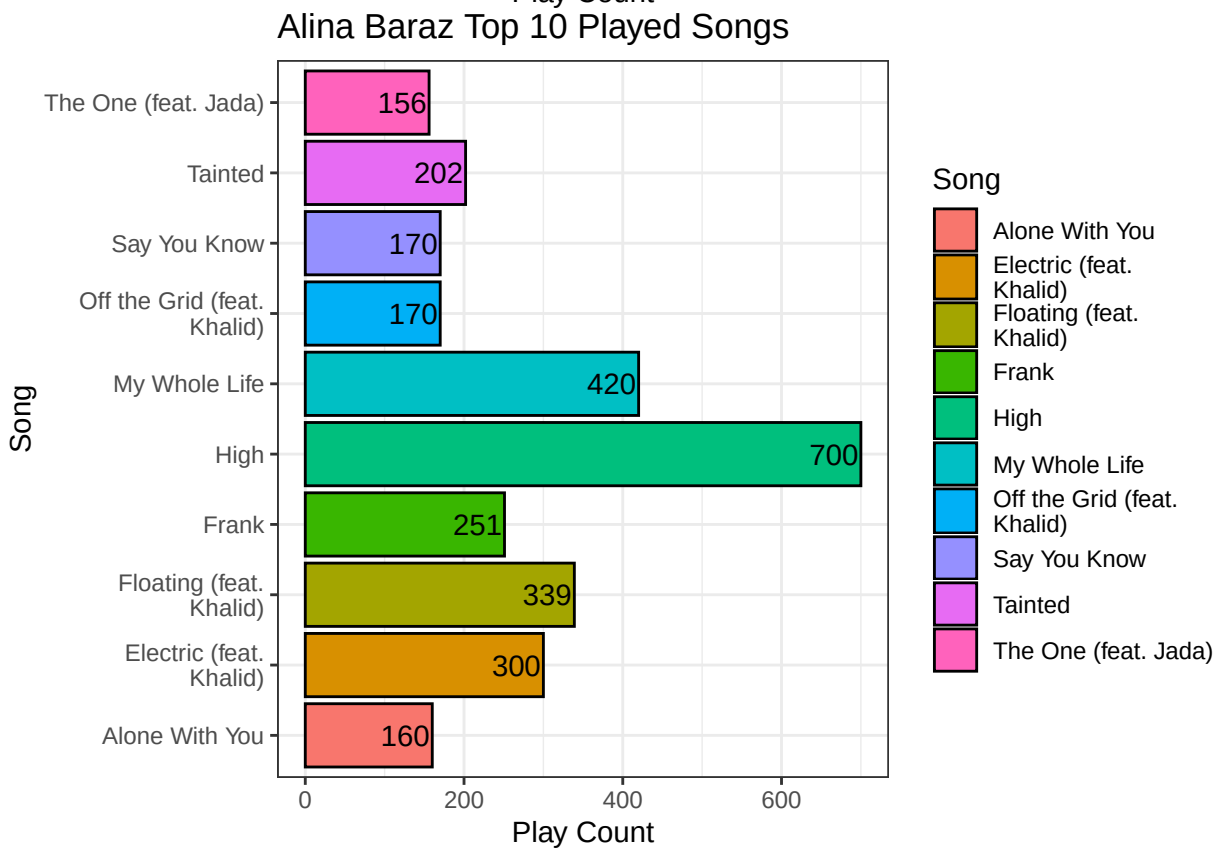
10 Most Played Songs for Favorite Artist

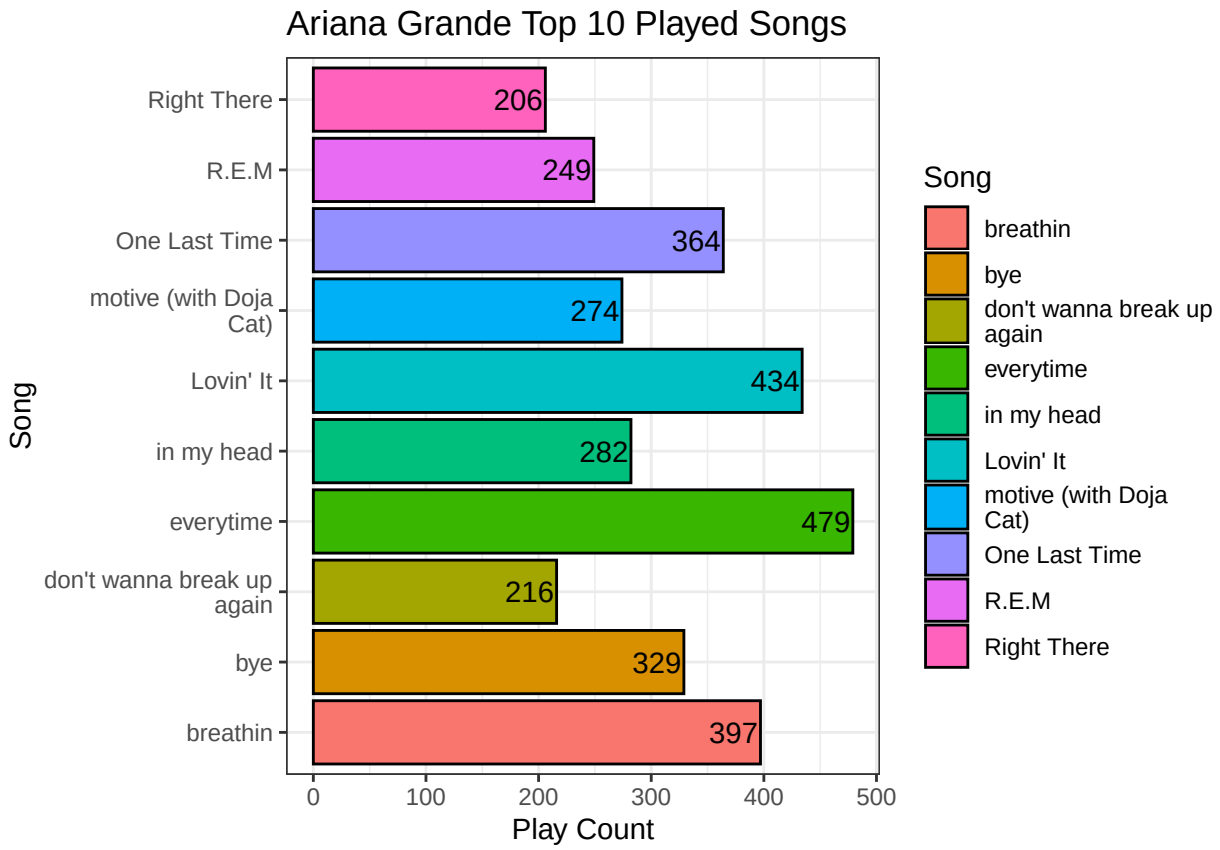
```
for (music_artist in favorite_artists$artist) {
    artist_top10_songs_bar <- ggplot(alltime_songs %>%
                                         mutate(song = str_wrap(song, width = 20)) %>%
                                         filter(artist == music_artist) %>%
                                         slice_head(n = 10),
                                     aes(x = alltime_song_count, y = song,
                                fill = song)) +
        geom_bar(stat = "identity", position = "dodge", color = "black") +
        geom_text(aes(label = alltime_song_count),
              hjust = 1.05,
              size = 4) +
        theme_bw() +
        labs(
            title = paste(music_artist, "Top 10 Played Songs"),
            y = "Song",
            x = "Play Count",
            fill = "Song"
        )
    print(artist_top10_songs_bar)
}
```

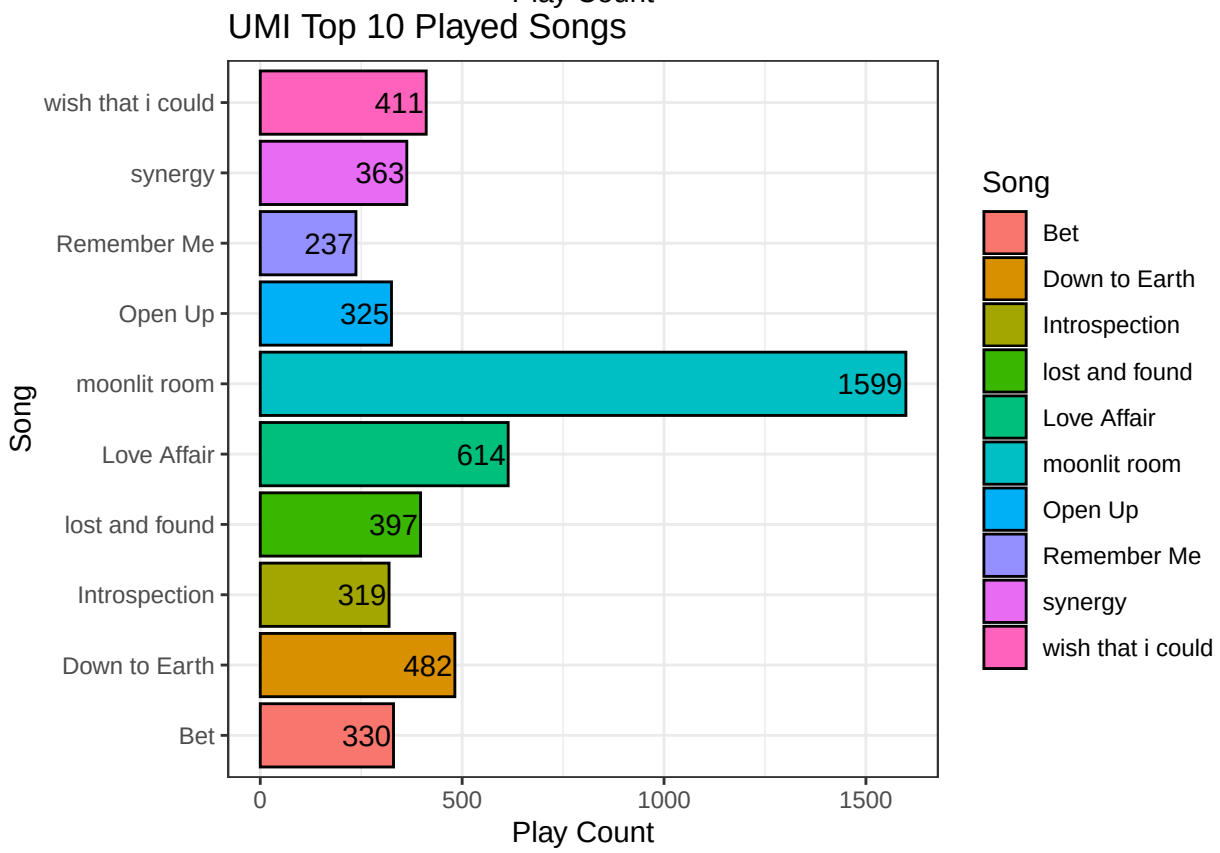

Drake Top 10 Played Songs
Weston Road Flows
Two Birds, One Stone
Tried Our Best
Spin Bout U
Papi's Home
No Friends In The Industry
Money In The Grave (Drake ft. Rick Ross)
Marvins Room
Major Distribution
How Bout Now
511
366
366
1171
373
353
339
363
501
346
Song
0
300
600
900
1200
Play Count
Song
How Bout Now
Major Distribution
Marvins Room
Money In The Grave (Drake ft. Rick Ross)
No Friends In The Industry
Papi's Home
Spin Bout U
Tried Our Best
Two Birds, One Stone
Weston Road Flows

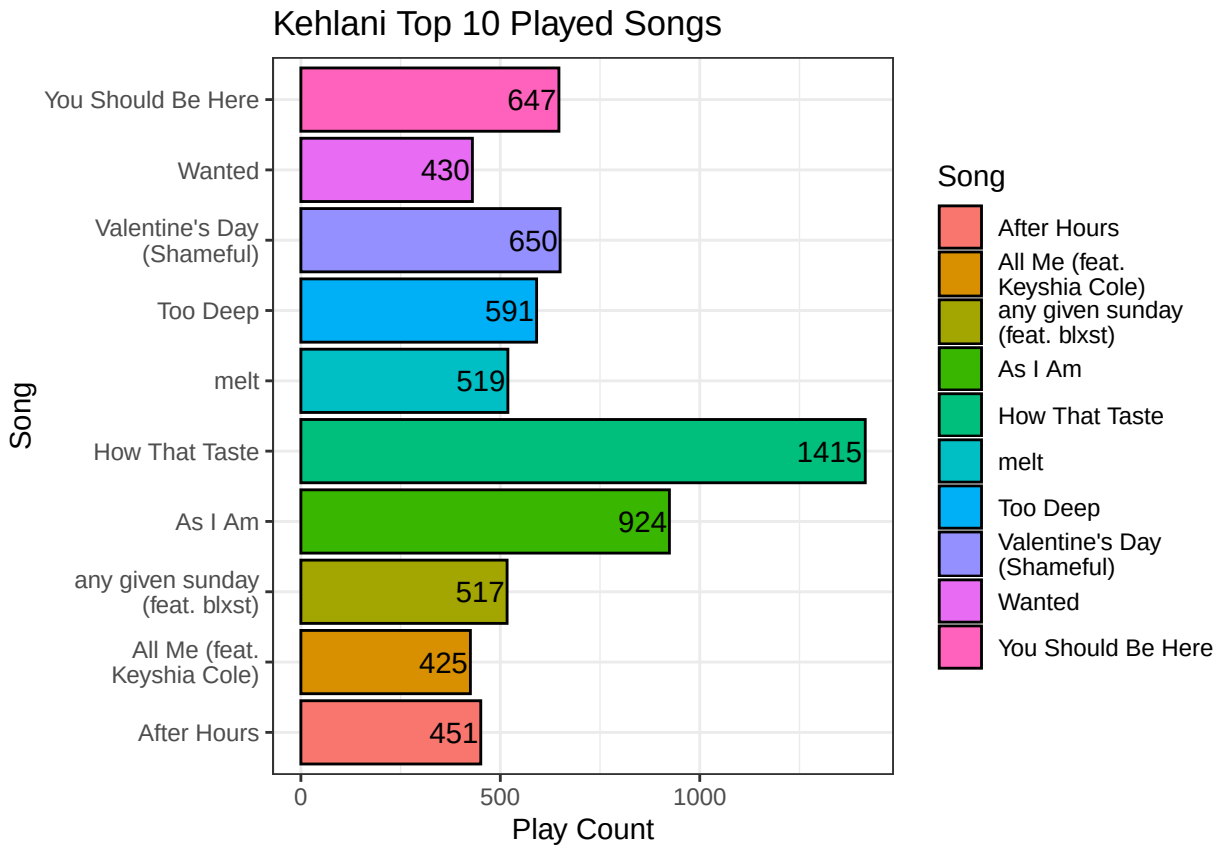

J. Cole Top 10 Played Songs
Window Pain − Outro
She Knows (feat. Amber Coffman & Cults)
Pi (feat. Daylyt & Ab−Soul)
Motiv8
MIDDLE CHILD
m y . l i f e (with 21 Savage & Morray)
KOD
Kevin's Heart
ATM
1 0 0 . m i l ' (with Bas)
345
202
254
145
424
361
259
218
131
439
Song
0
100
200
300
400
Play Count
Song
1 0 0 . m i l ' (with Bas)
ATM
Kevin's Heart
KOD
m y . l i f e (with 21 Savage & Morray)
MIDDLE CHILD
Motiv8
Pi (feat. Daylyt & Ab−Soul)
She Knows (feat. Amber Coffman & Cults)
Window Pain − Outro

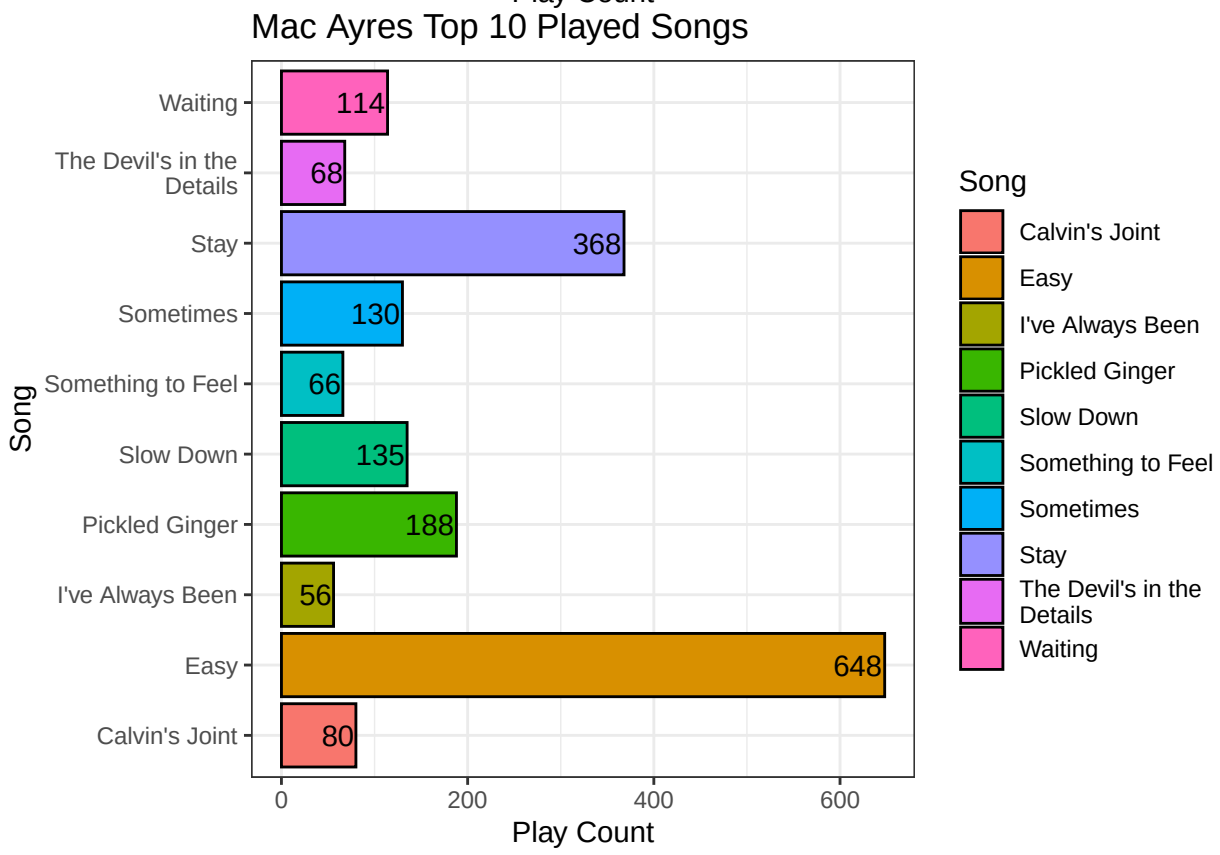

Lil Tecca Top 10 Played Songs
TEC
SEASIDE (feat. iann dior)
Salty
Ransom
Out Of Love (feat. Internet Money)
Need Me
MONEY ON ME
LOT OF ME
CHOPPA SHOOT THE LOUDEST (with Chief Keef, feat. Trippie Redd)
BAD TIME
198
129
152
387
151
83
808
185
260
206
Song
0
200
400
600
800
Play Count
Song
BAD TIME
CHOPPA SHOOT THE LOUDEST (with Chief Keef, feat. Trippie Redd)
LOT OF ME
MONEY ON ME
Need Me
Out Of Love (feat. Internet Money)
Ransom
Salty
SEASIDE (feat. iann dior)
TEC

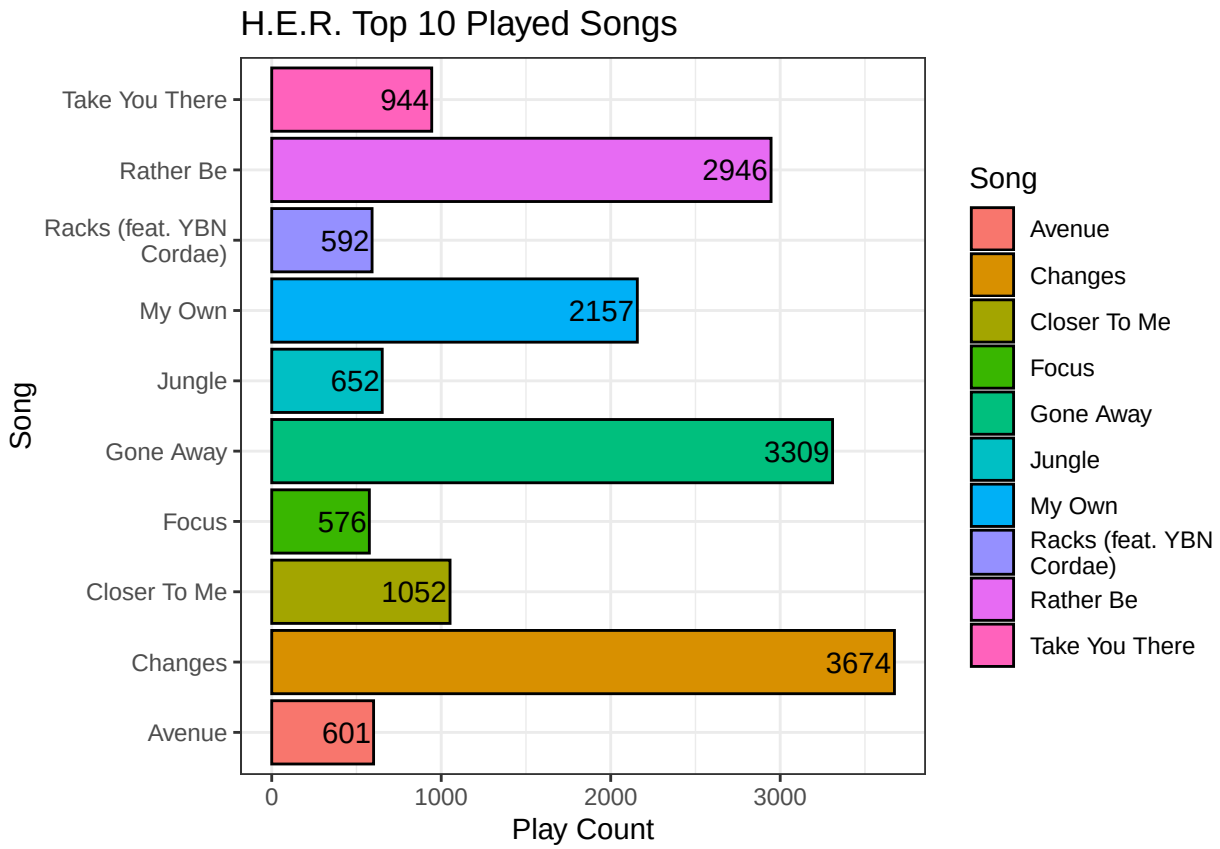

Alina Baraz Top 10 Played Songs
The One (feat. Jada)
Tainted
Say You Know
Off the Grid (feat. Khalid)
My Whole Life
High
Frank
Floating (feat. Khalid)
Electric (feat. Khalid)
Alone With You
156
202
170
170
420
700
251
339
300
160
Song
0
200
400
600
Play Count
Song
Alone With You
Electric (feat. Khalid)
Floating (feat. Khalid)
Frank
High
My Whole Life
Off the Grid (feat. Khalid)
Say You Know
Tainted
The One (feat. Jada)

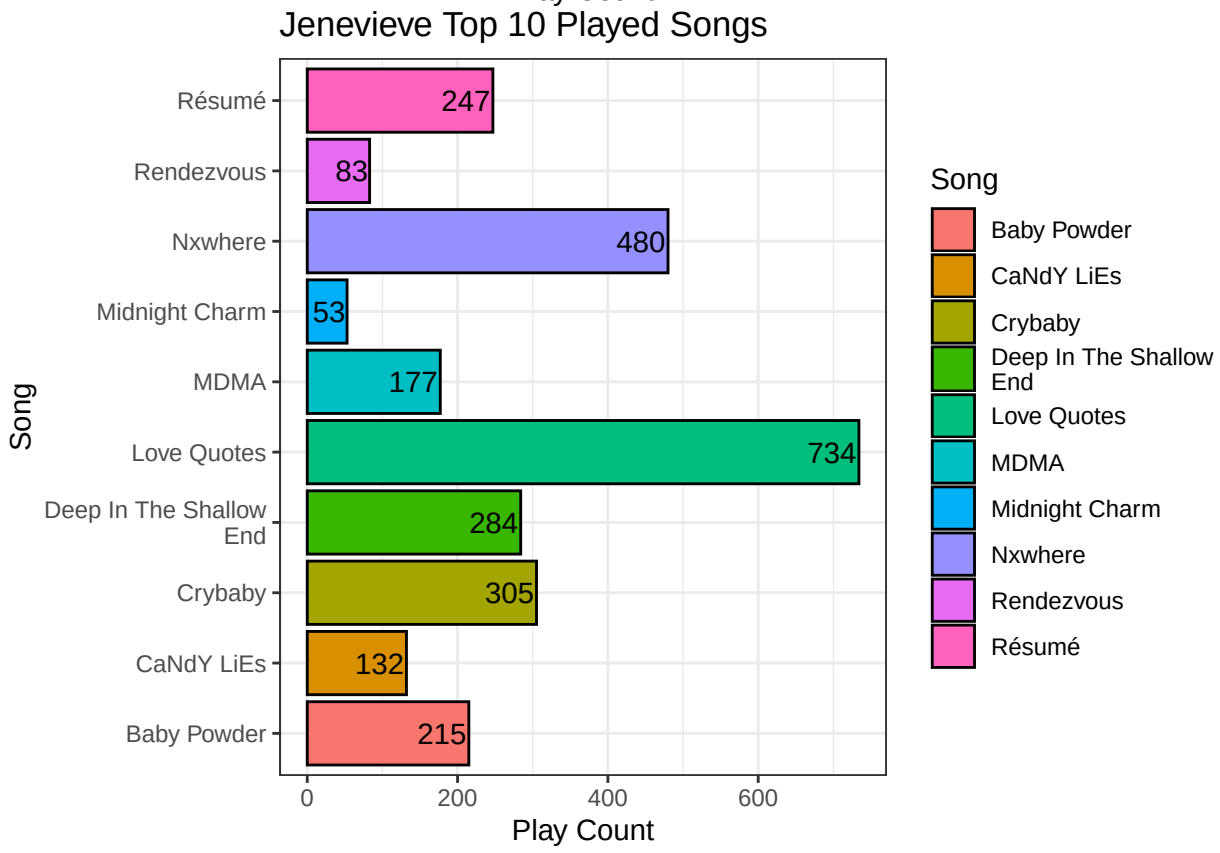

Ariana Grande Top 10 Played Songs
Right There
R.E.M
One Last Time
motive (with Doja Cat)
Lovin' It
in my head
everytime
don't wanna break up again
bye
breathin
206
249
364
274
434
282
479
216
329
397
0
100
200
300
400
500
Play Count
Song
Song
breathin
bye
don't wanna break up again
everytime
in my head
Lovin' It
motive (with Doja Cat)
One Last Time
R.E.M
Right There

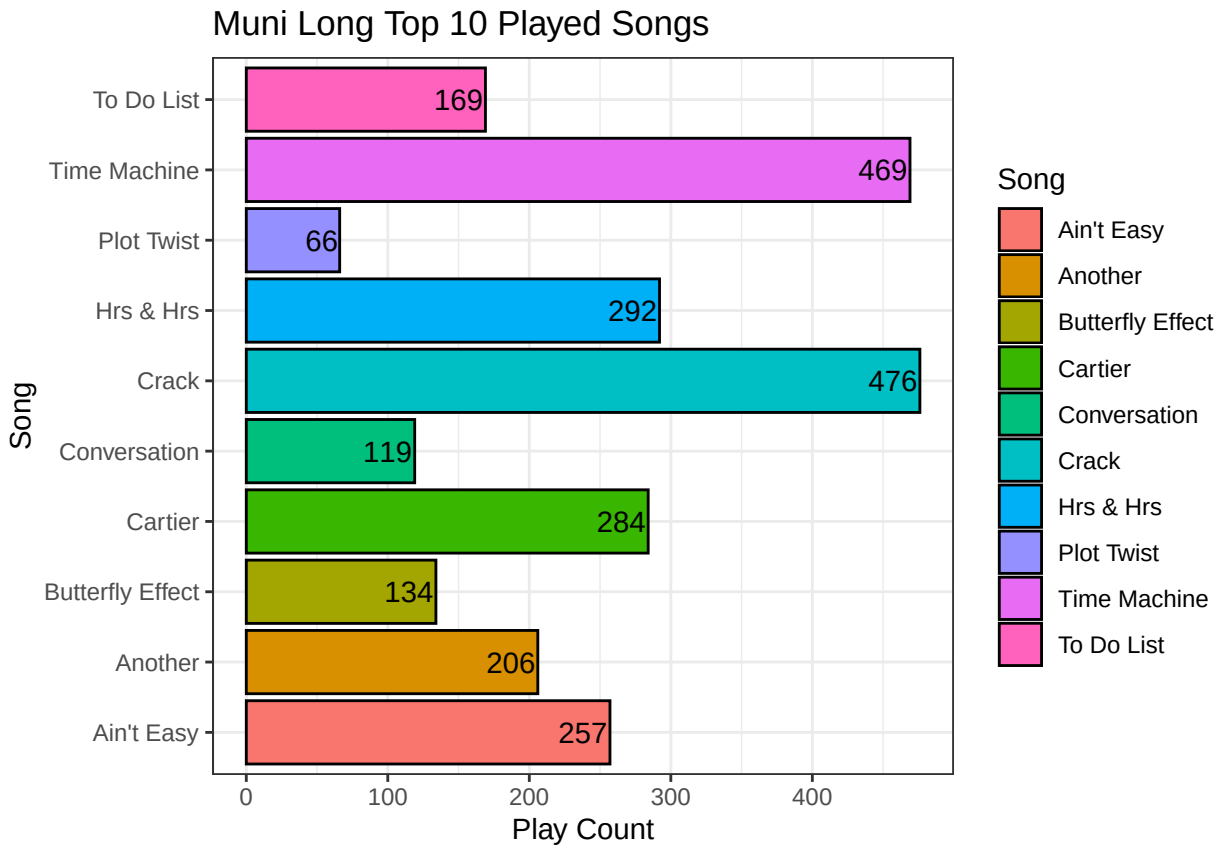

UMI Top 10 Played Songs
wish that i could
synergy
Remember Me
Open Up
moonlit room
Love Affair
lost and found
Introspection
Down to Earth
Bet
411
363
237
325
1599
614
397
319
482
330
0
500
1000
1500
Play Count
Song
Song
Bet
Down to Earth
Introspection
lost and found
Love Affair
moonlit room
Open Up
Remember Me
synergy
wish that i could

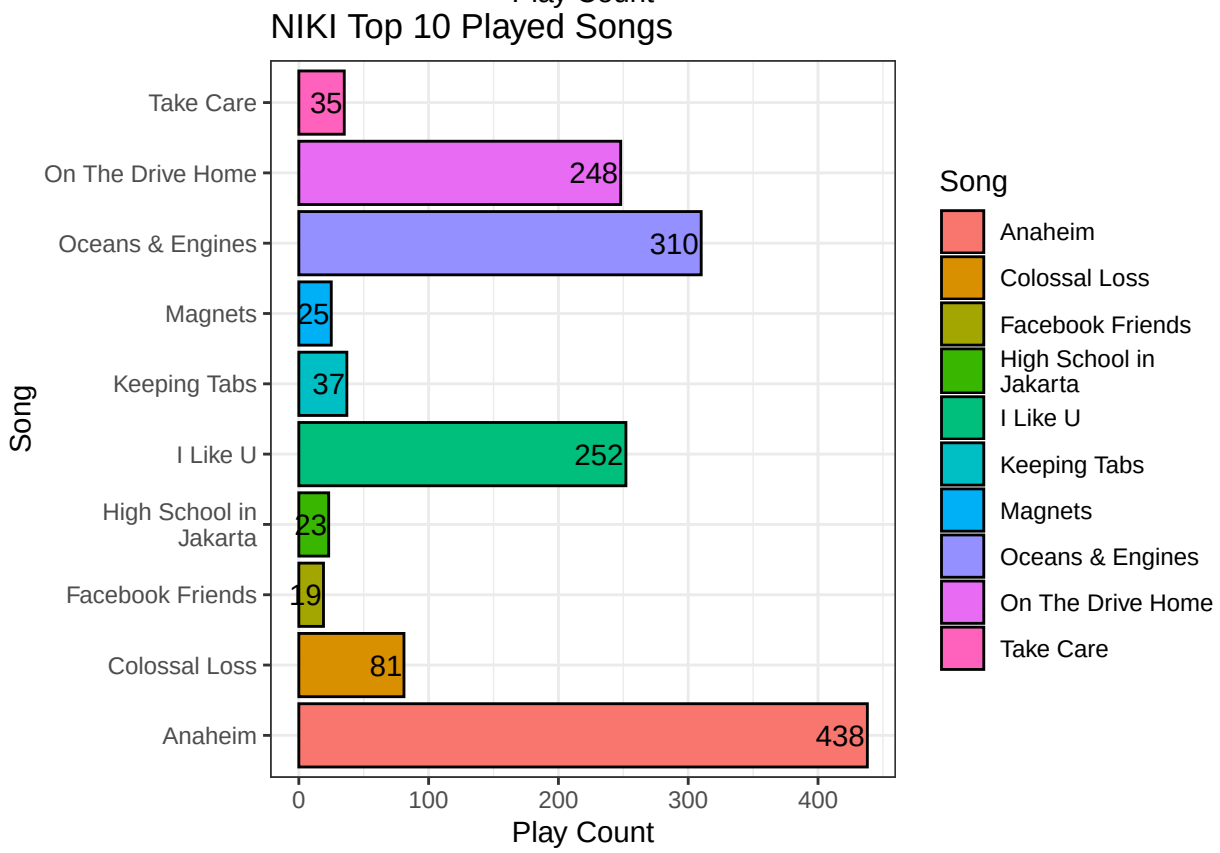

Kehlani Top 10 Played Songs
You Should Be Here
Wanted
Valentine's Day (Shameful)
Too Deep
melt
How That Taste
As I Am
any given sunday (feat. blxst)
All Me (feat. Keyshia Cole)
After Hours
647
430
650
591
519
1415
924
517
425
451
0
500
1000
Play Count
Song
Song
After Hours
All Me (feat. Keyshia Cole)
any given sunday (feat. blxst)
As I Am
How That Taste
melt
Too Deep
Valentine's Day (Shameful)
Wanted
You Should Be Here


Mac Ayres Top 10 Played Songs
Waiting
The Devil's in the Details
Stay
Sometimes
Something to Feel
Slow Down
Pickled Ginger
I've Always Been
Easy
Calvin's Joint
114
68
368
130
66
135
188
56
648
80
0
200
400
600
Play Count
Song
Song
Calvin's Joint
Easy
I've Always Been
Pickled Ginger
Slow Down
Something to Feel
Sometimes
Stay
The Devil's in the Details
Waiting


H.E.R. Top 10 Played Songs
Take You There
Rather Be
Racks (feat. YBN Cordae)
My Own
Jungle
Gone Away
Focus
Closer To Me
Changes
Avenue
944
2946
592
2157
652
3309
576
1052
3674
601
Song
0
1000
2000
3000
Play Count
Song
Avenue
Changes
Closer To Me
Focus
Gone Away
Jungle
My Own
Racks (feat. YBN Cordae)
Rather Be
Take You There

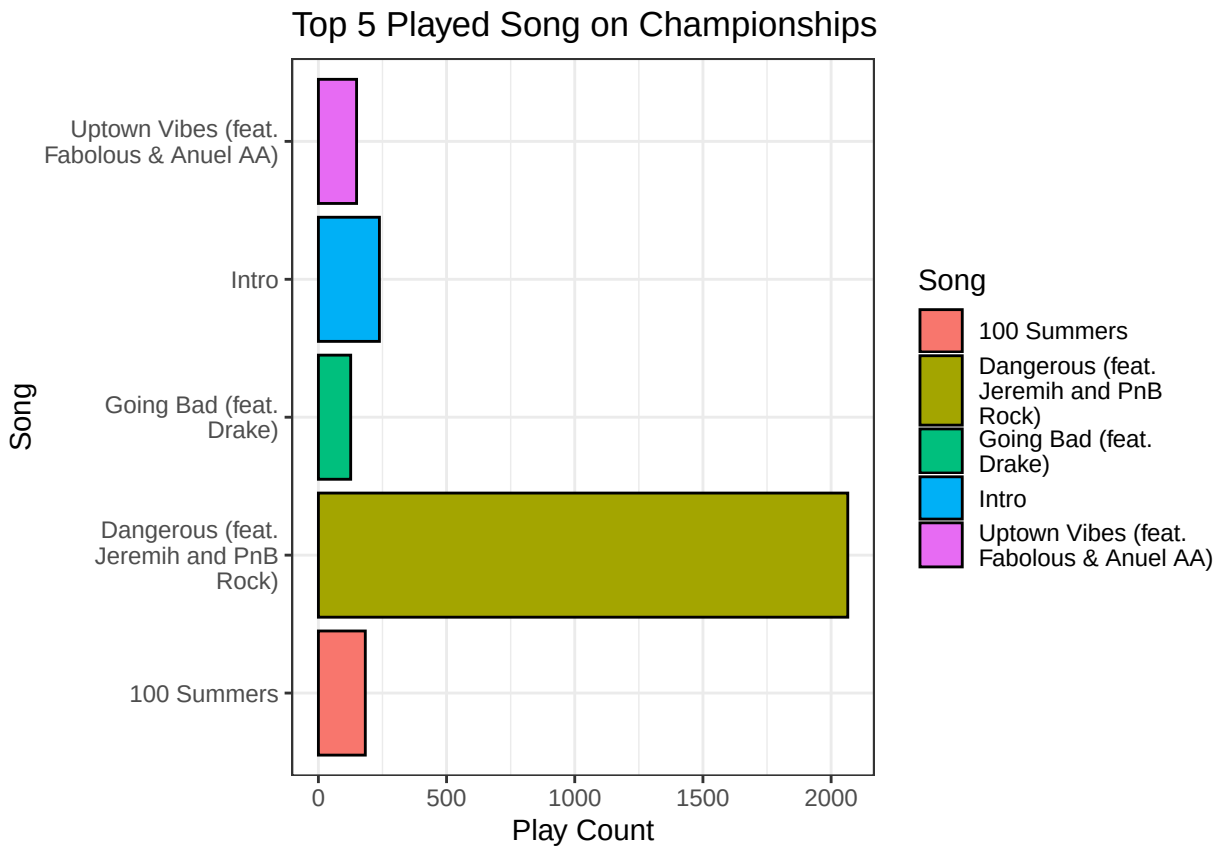

Jenevieve Top 10 Played Songs
Résumé
Rendezvous
Nxwhere
Midnight Charm
MDMA
Love Quotes
Deep In The Shallow End
Crybaby
CaNdY LiEs
Baby Powder
247
83
480
53
177
734
284
305
132
215
Song
0
200
400
600
Play Count
Song
Baby Powder
CaNdY LiEs
Crybaby
Deep In The Shallow End
Love Quotes
MDMA
Midnight Charm
Nxwhere
Rendezvous
Résumé

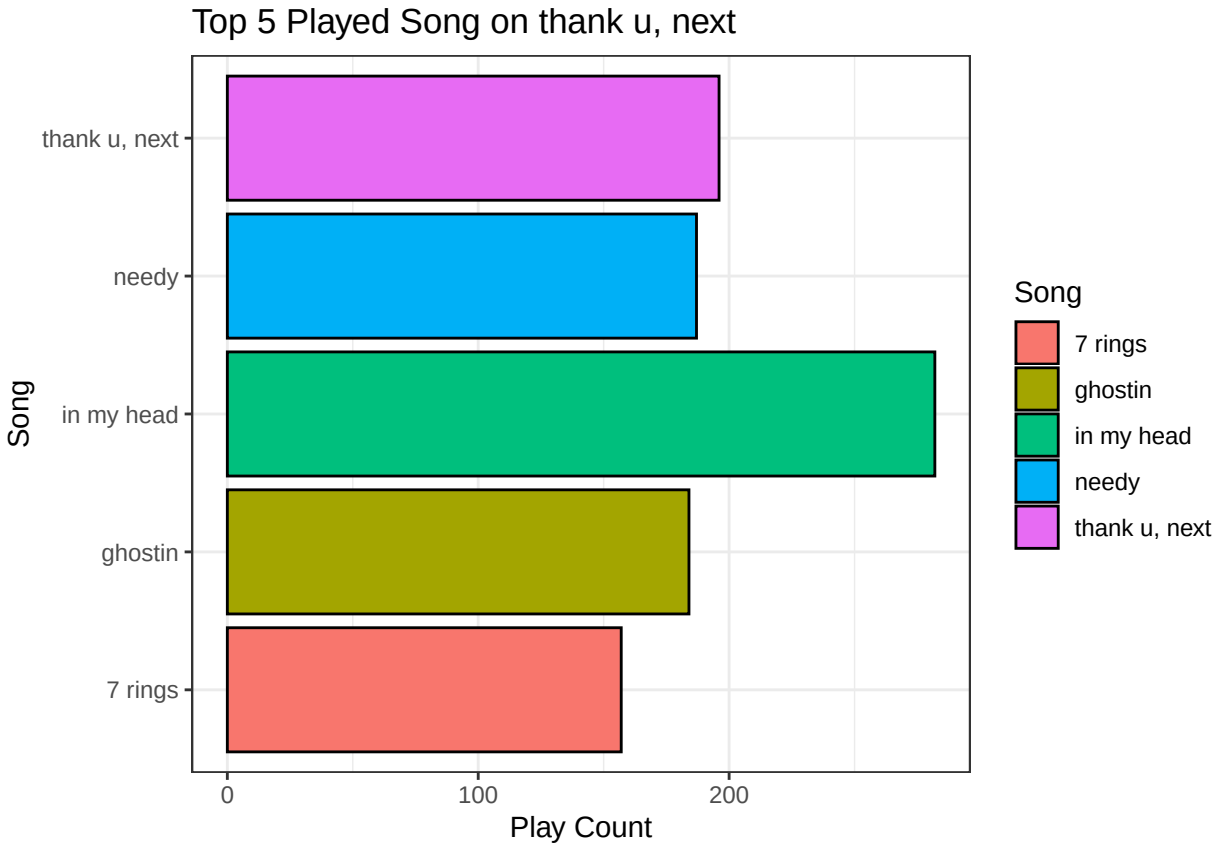

Muni Long Top 10 Played Songs
To Do List
Time Machine
Plot Twist
Hrs & Hrs
Crack
Conversation
Cartier
Butterfly Effect
Another
Ain't Easy
169
469
66
292
476
119
284
134
206
257
Song
0
100
200
300
400
Play Count
Song
Ain't Easy
Another
Butterfly Effect
Cartier
Conversation
Crack
Hrs & Hrs
Plot Twist
Time Machine
To Do List

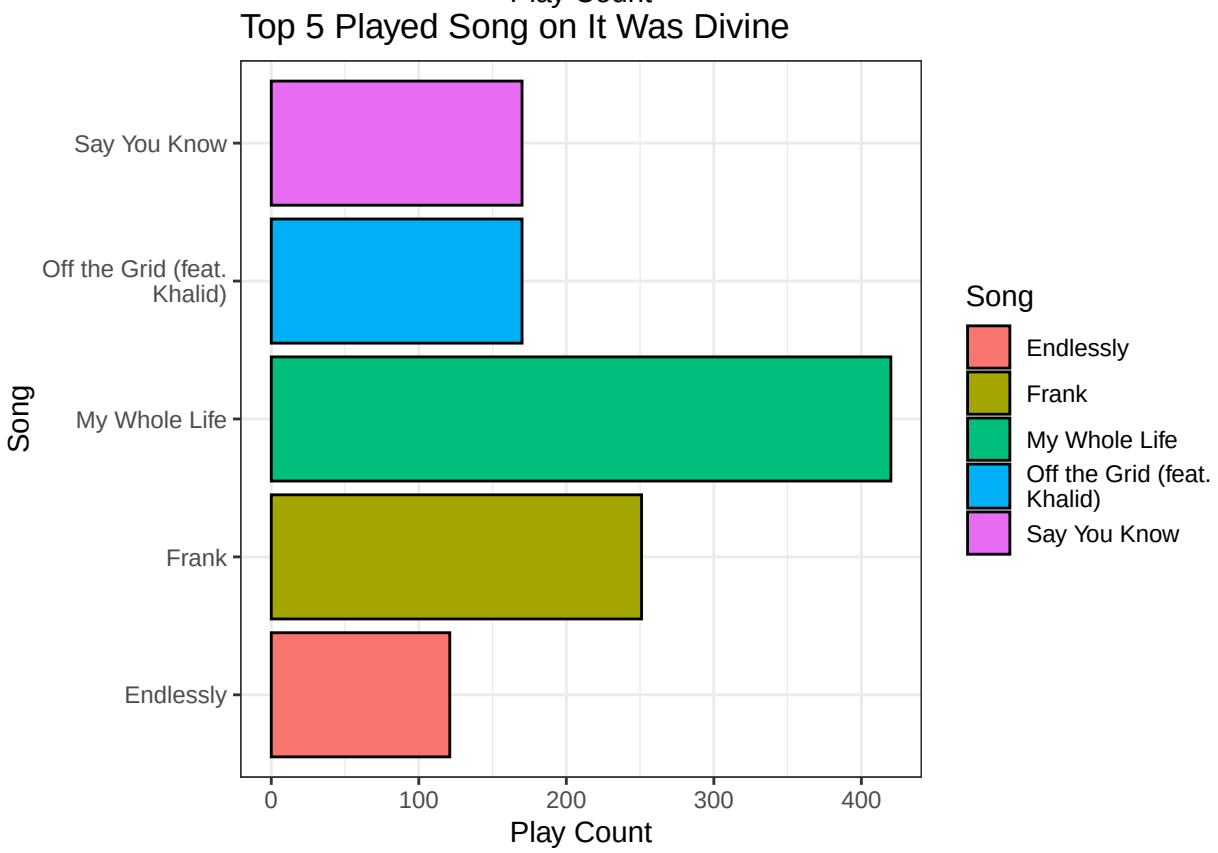

NIKI Top 10 Played Songs
Take Care
On The Drive Home
Oceans & Engines
Magnets
Keeping Tabs
I Like U
High School in Jakarta
Facebook Friends
Colossal Loss
Anaheim
35
248
310
25
37
252
23
19
81
438
Song
0
100
200
300
400
Play Count
Song
Anaheim
Colossal Loss
Facebook Friends
High School in Jakarta
I Like U
Keeping Tabs
Magnets
Oceans & Engines
On The Drive Home
Take Care

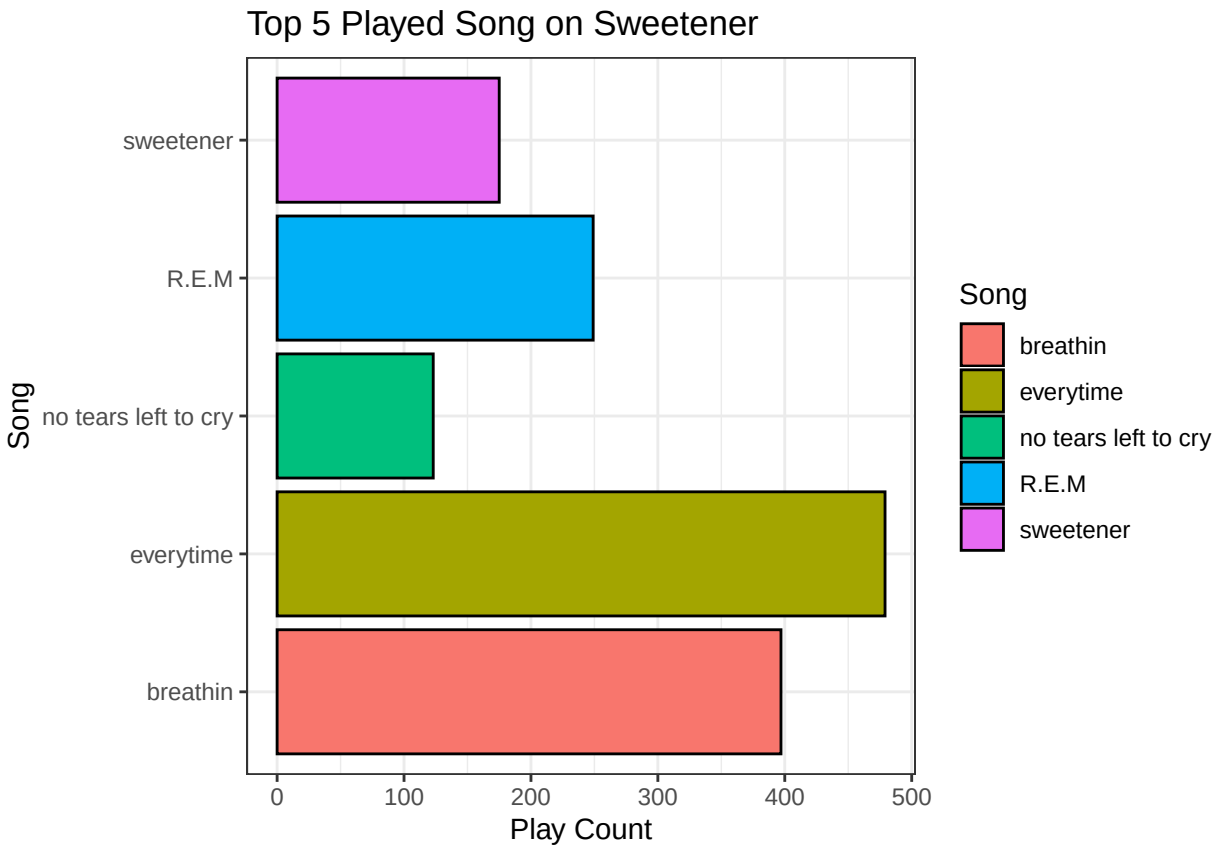
Top 5 Songs from Favorite Albums

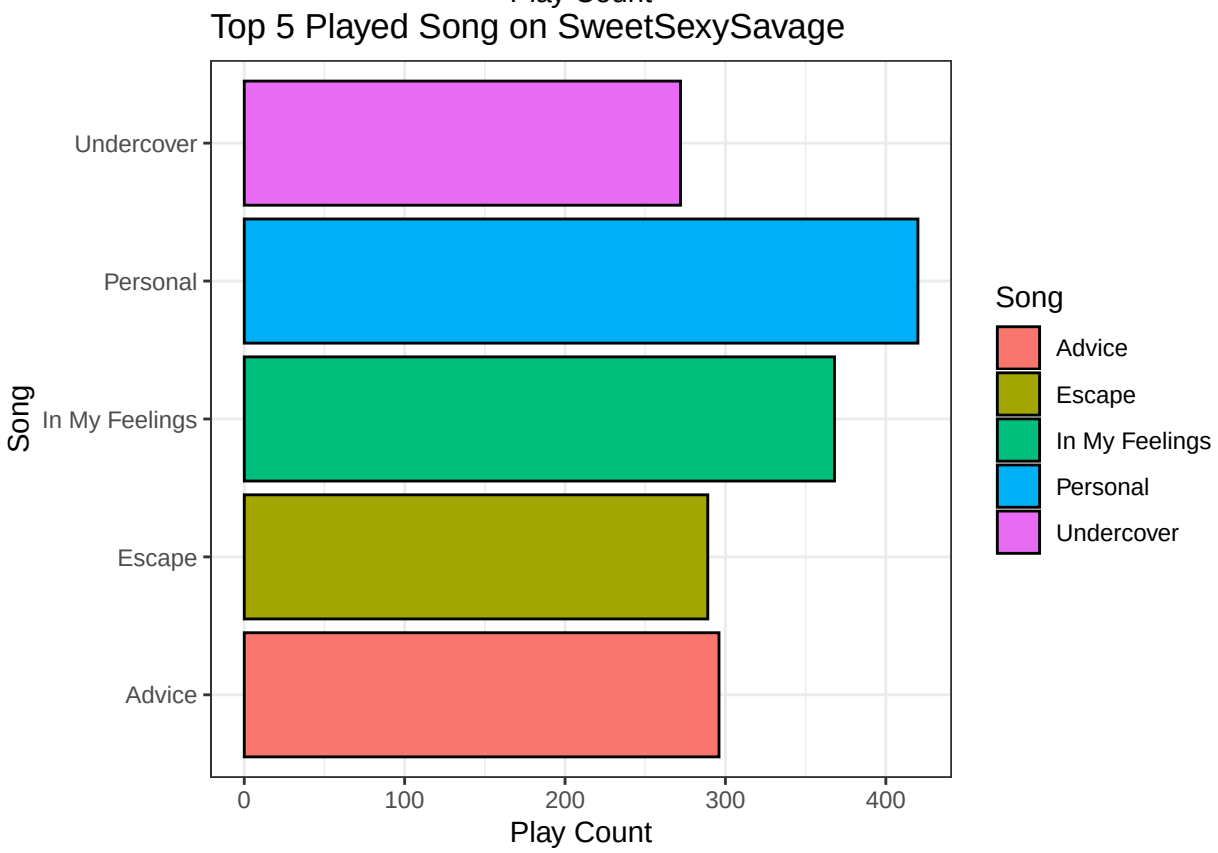
```
for (music_album in favorite_albums$album) {
    album_loop_data <- streaming_data_2 %>%
        filter(album == music_album) %>%
        group_by(song) %>%
        summarize(song_album_count = n(), .groups = "drop") %>%
        arrange(desc(song_album_count)) %>%
        slice_head(n = 5)

    top5_album_songs <- ggplot(album_loop_data %>%
                               mutate(song = str_wrap(song, width = 20)),
                               aes(x = song_album_count,
                                   y = song,
                                   fill = song)) +
        geom_bar(stat = "identity", position = "dodge", color = "black") +
        theme_bw() +
        labs(
            title = paste("Top 5 Played Song on", music_album),
            y = "Song",
            x = "Play Count",
            fill = "Song"
        )
    print(top5_album_songs)
}
```

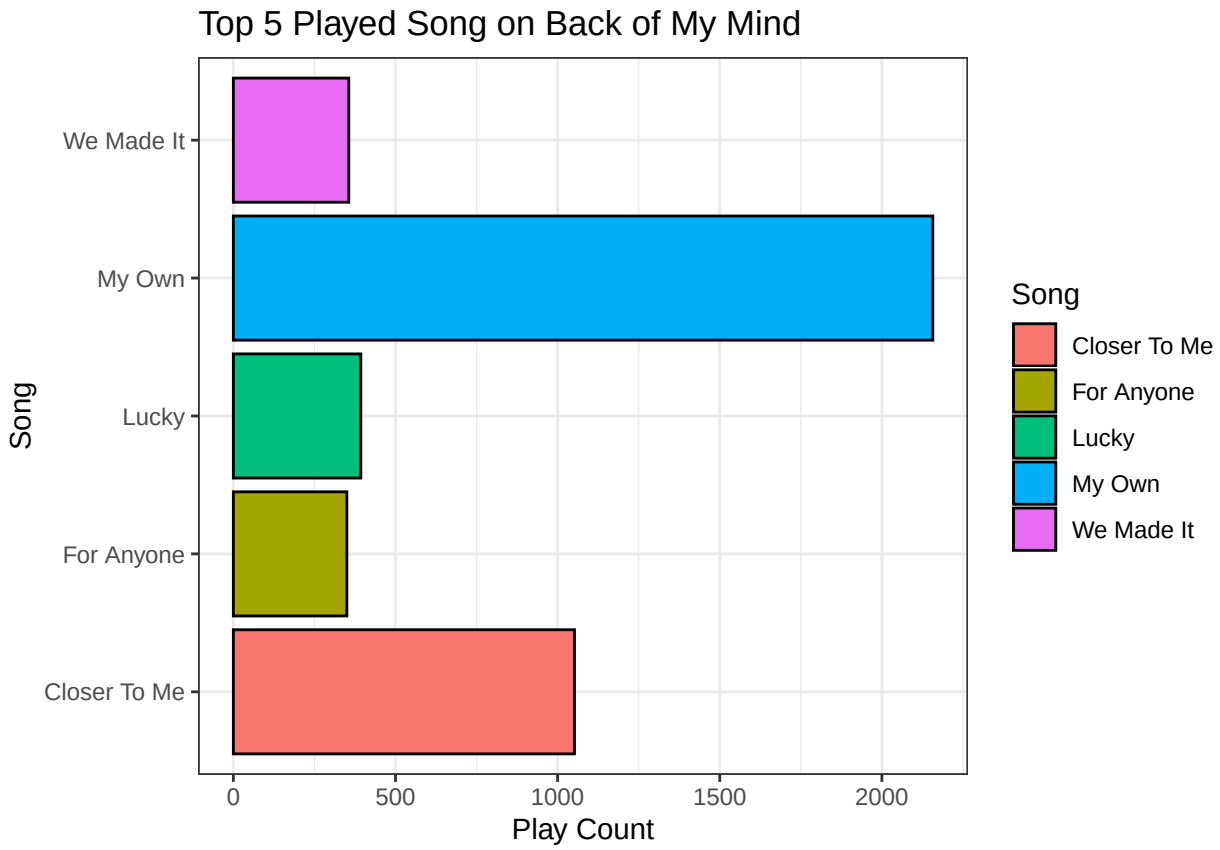


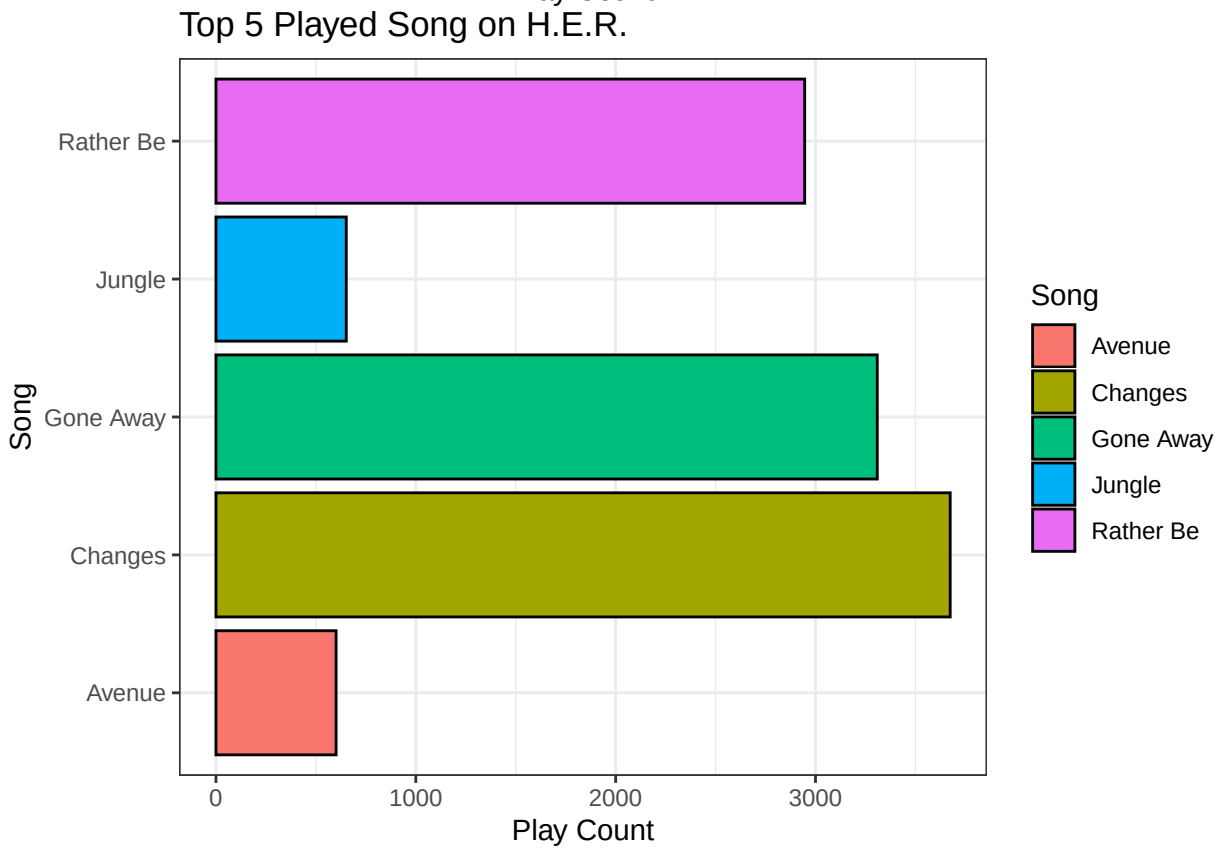

Top 5 Played Song on thank u, next
thank u, next
needy
in my head
ghostin
7 rings
Song
0
100
200
Play Count
Song
7 rings
ghostin
in my head
needy
thank u, next

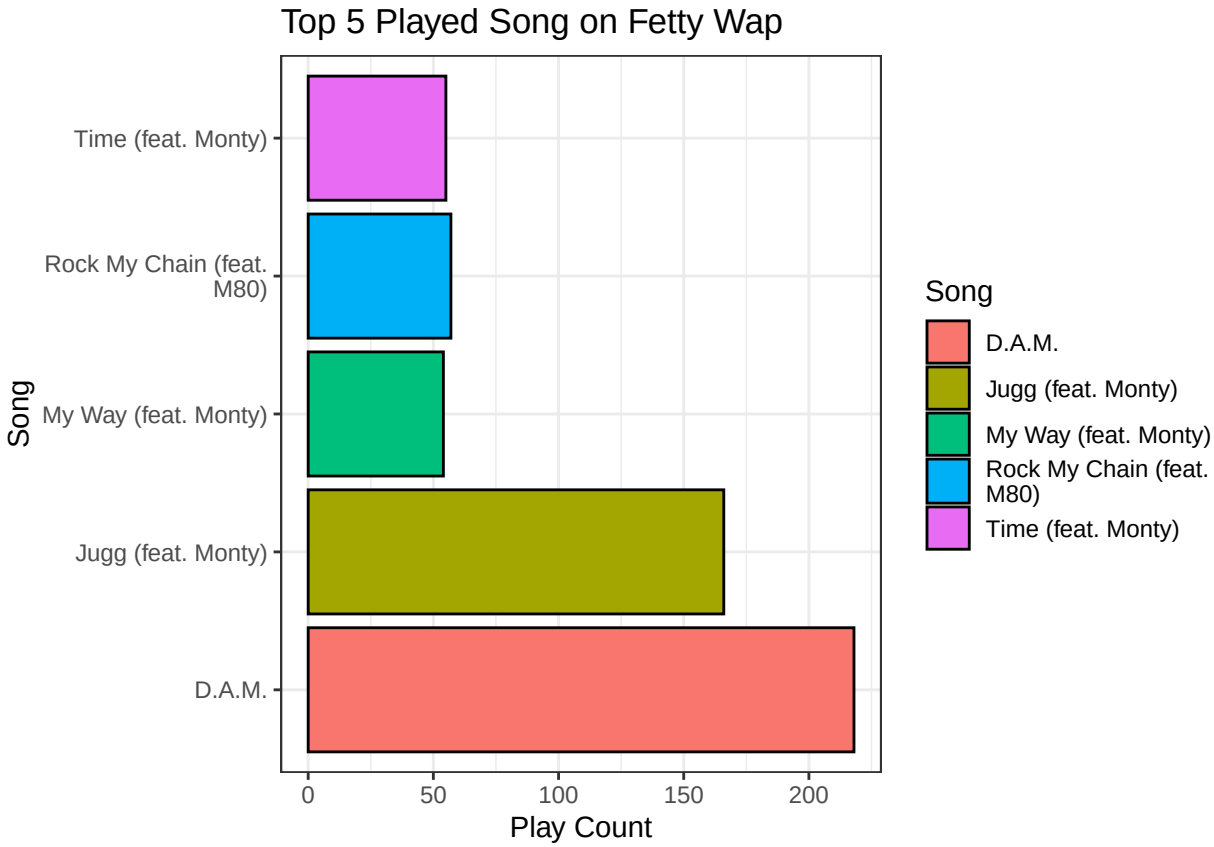

Top 5 Played Song on It Was Divine
Say You Know
Off the Grid (feat. Khalid)
My Whole Life
Frank
Endlessly
Song
0
100
200
300
400
Play Count
Song
Endlessly
Frank
My Whole Life
Off the Grid (feat. Khalid)
Say You Know

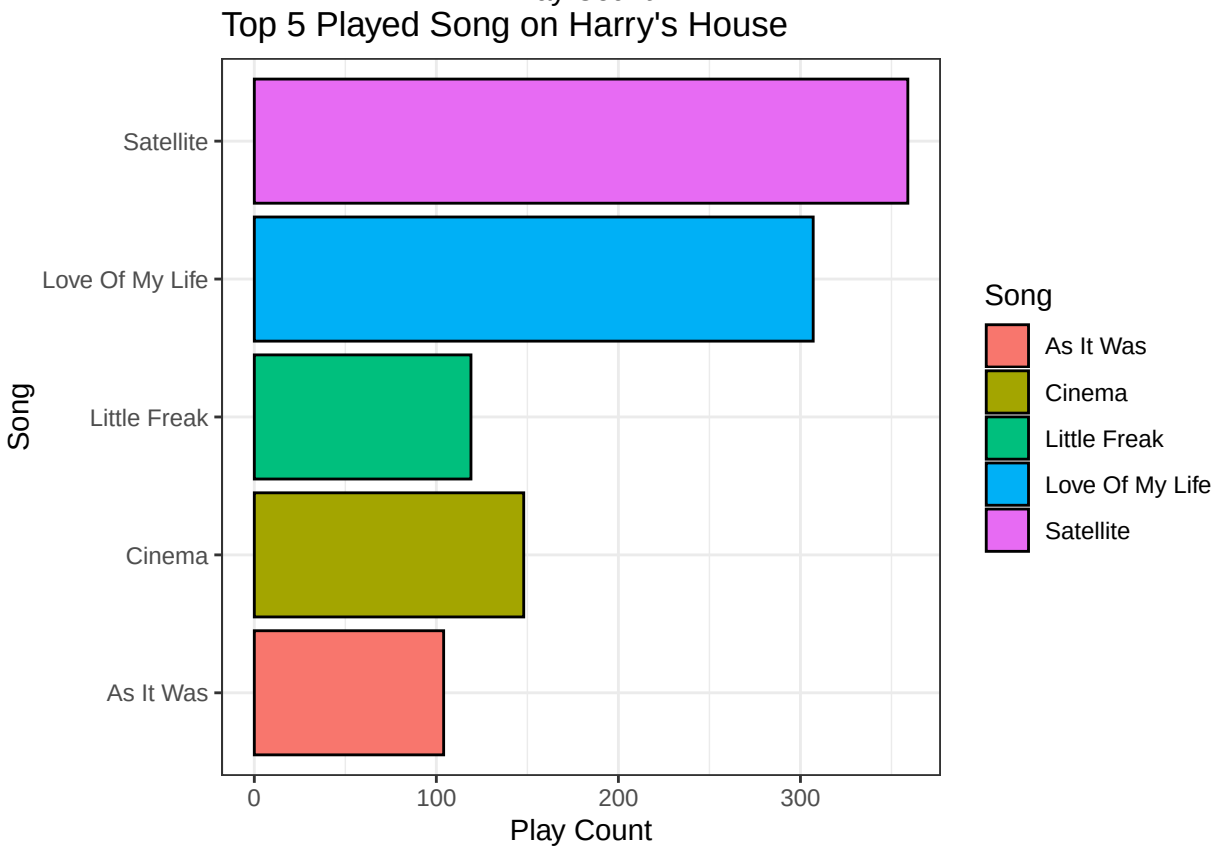

Top 5 Played Song on Sweetener
Song
sweetener
R.E.M
no tears left to cry
everytime
breathin
0
100
200
300
400
500
Play Count
Song
breathin
everytime
no tears left to cry
R.E.M
sweetener

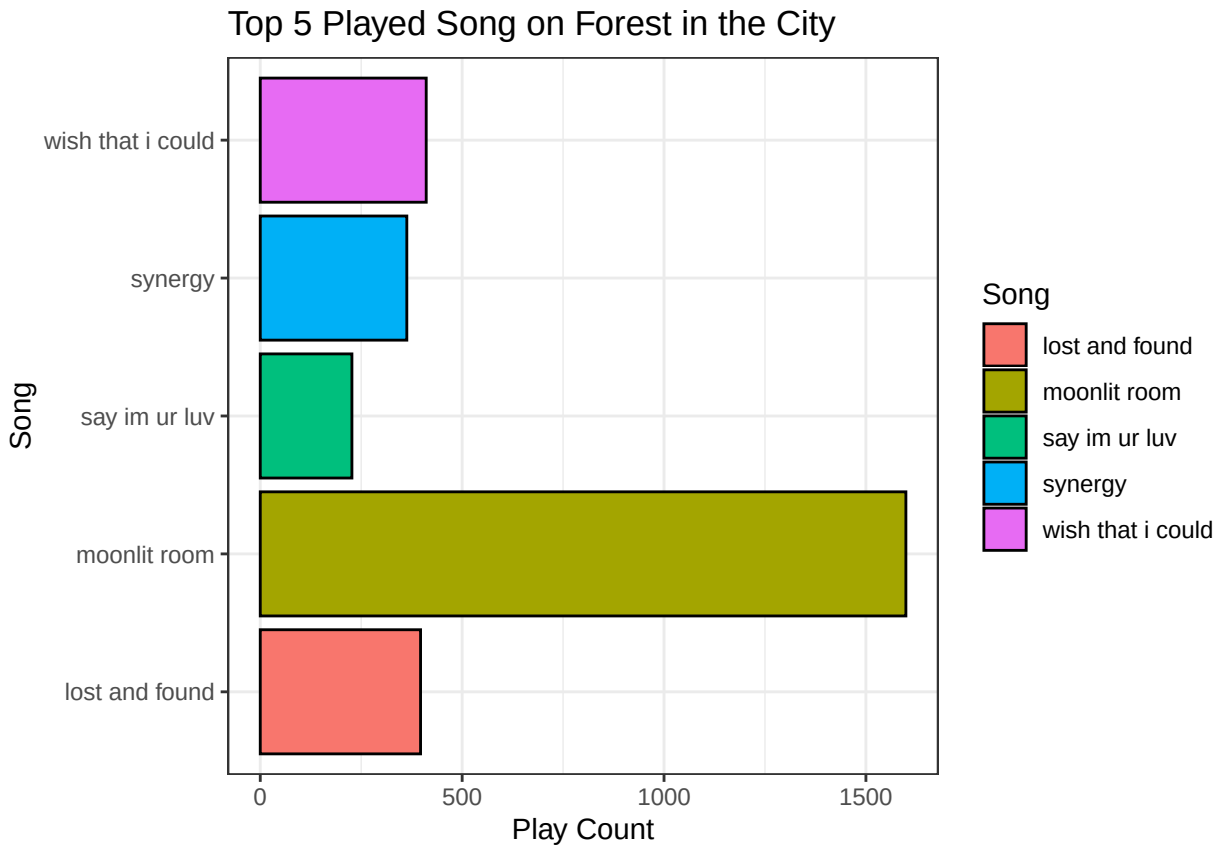

Top 5 Played Song on SweetSexySavage
Song
Undercover
Personal
In My Feelings
Escape
Advice
0
100
200
300
400
Play Count
Song
Advice
Escape
In My Feelings
Personal
Undercover

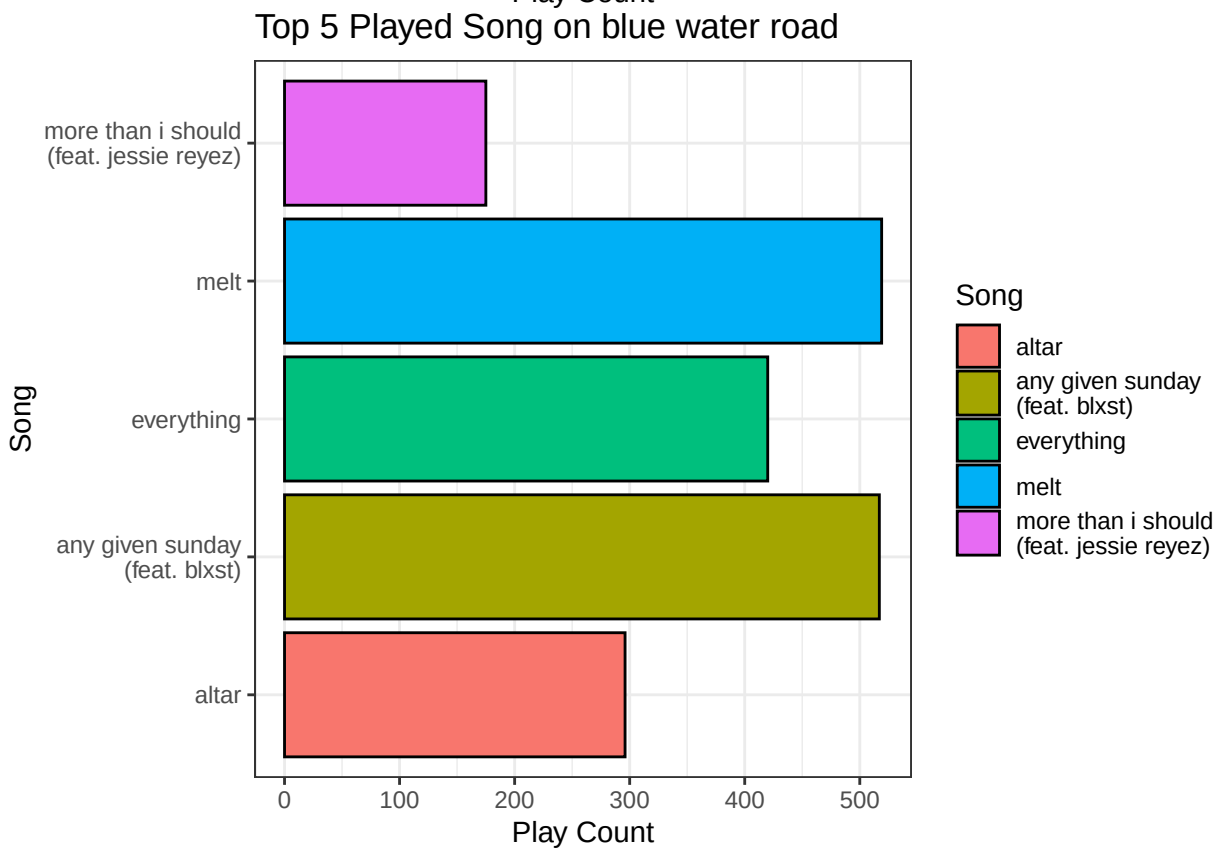

Top 5 Played Song on Back of My Mind
We Made It
My Own
Lucky
For Anyone
Closer To Me
Song
0
500
1000
1500
2000
Play Count
Song
Closer To Me
For Anyone
Lucky
My Own
We Made It

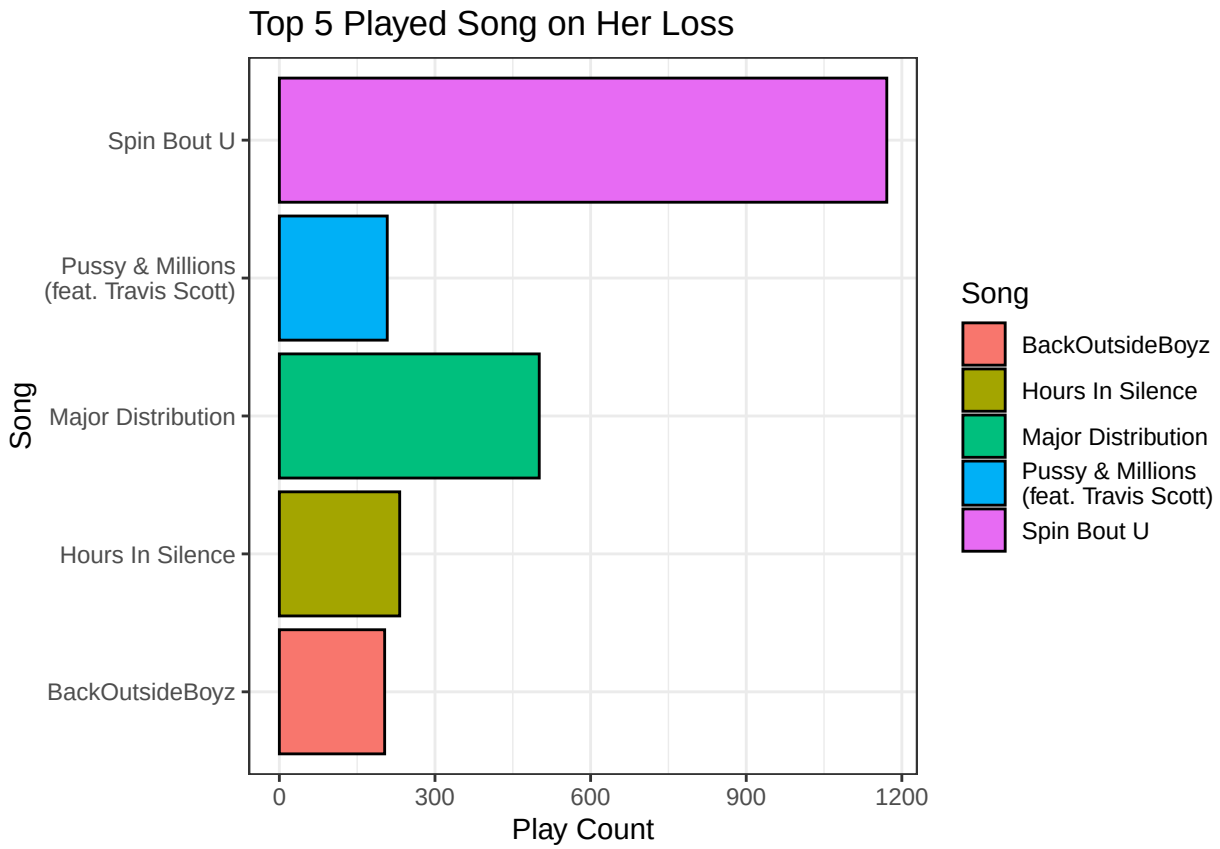

Top 5 Played Song on H.E.R.
Rather Be
Jungle
Gone Away
Changes
Avenue
Song
0
1000
2000
3000
Play Count
Song
Avenue
Changes
Gone Away
Jungle
Rather Be

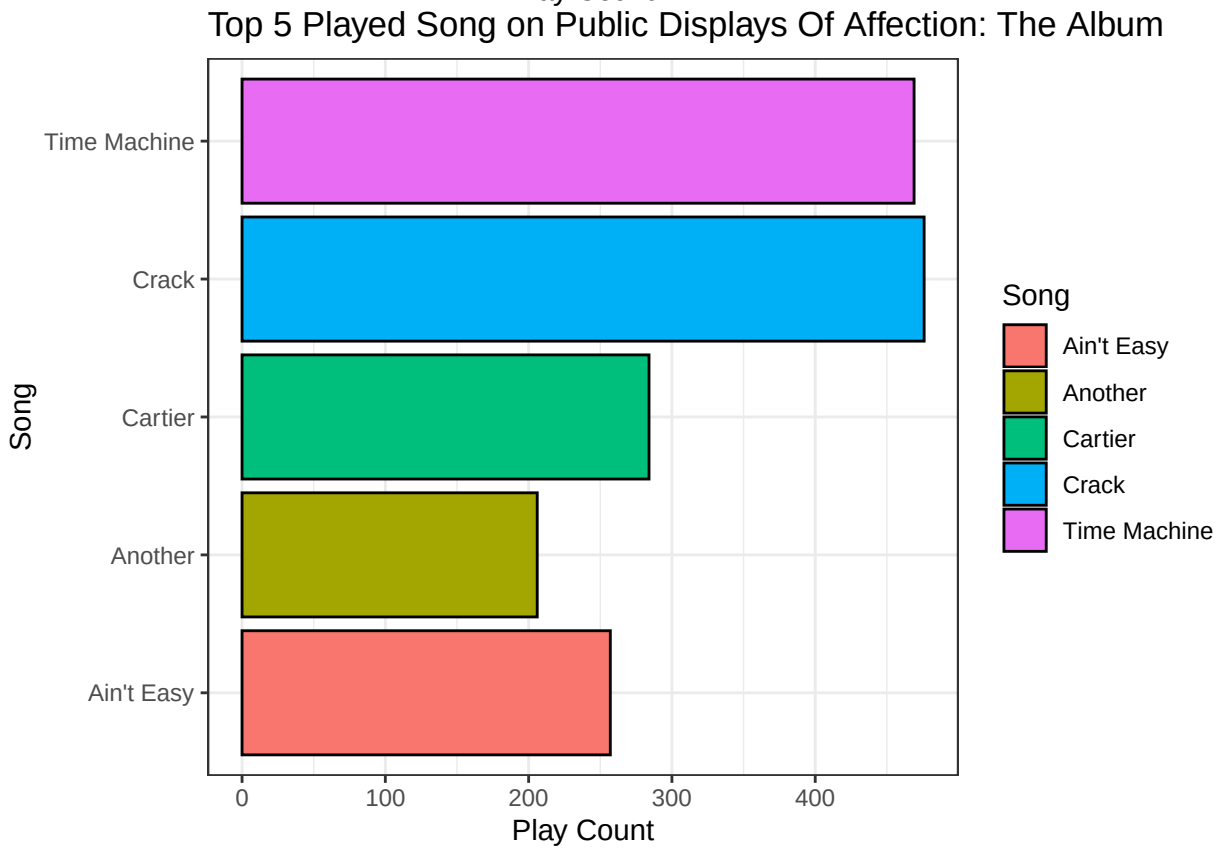

Top 5 Played Song on Fetty Wap
Time (feat. Monty)
Rock My Chain (feat. M80)
My Way (feat. Monty)
Jugg (feat. Monty)
D.A.M.
Song
0
50
100
150
200
Play Count
Song
D.A.M.
Jugg (feat. Monty)
My Way (feat. Monty)
Rock My Chain (feat. M80)
Time (feat. Monty)

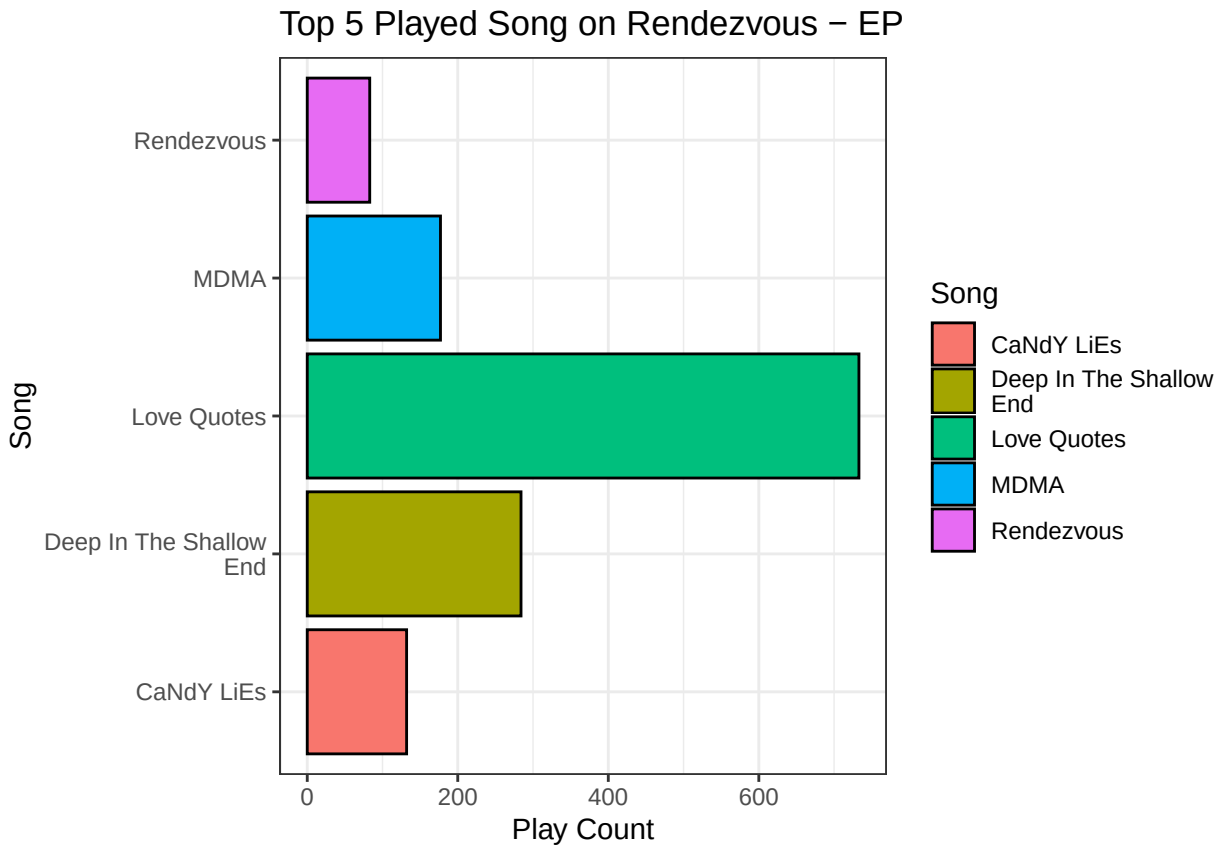

Top 5 Played Song on Harry's House
Satellite
Love Of My Life
Little Freak
Cinema
As It Was
Song
0
100
200
300
Play Count
Song
As It Was
Cinema
Little Freak
Love Of My Life
Satellite

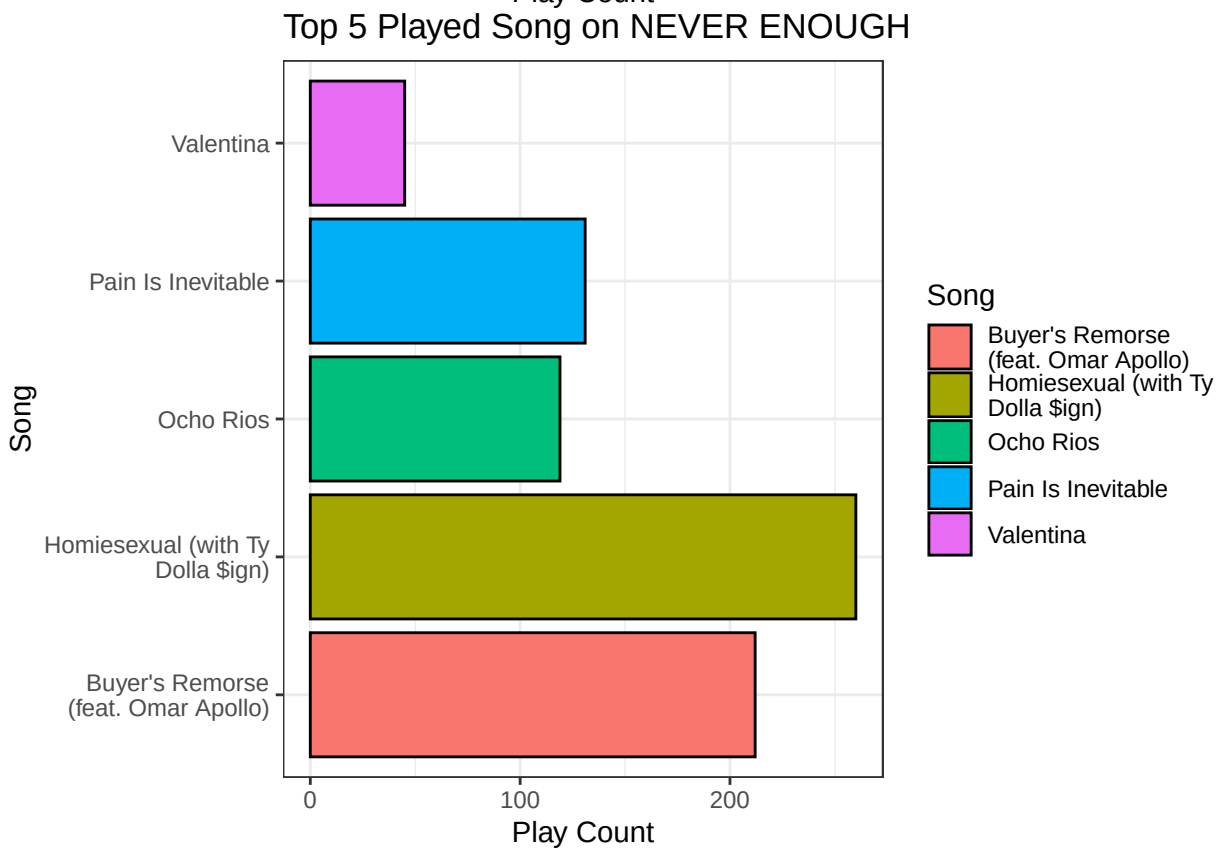

Top 5 Played Song on Forest in the City
wish that i could
synergy
say im ur luv
moonlit room
lost and found
Song
0
500
1000
1500
Play Count
Song
lost and found
moonlit room
say im ur luv
synergy
wish that i could


Top 5 Played Song on blue water road
more than i should
(feat. jessie reyez)
melt
everything
any given sunday
(feat. blxst)
altar
Song
0
100
200
300
400
500
Play Count
Song
altar
any given sunday
(feat. blxst)
everything
melt
more than i should
(feat. jessie reyez)


Top 5 Played Song on Her Loss
Spin Bout U
Pussy & Millions
(feat. Travis Scott)
Major Distribution
Hours In Silence
BackOutsideBoyz
Song
0
300
600
900
1200
Play Count
Song
BackOutsideBoyz
Hours In Silence
Major Distribution
Pussy & Millions
(feat. Travis Scott)
Spin Bout U

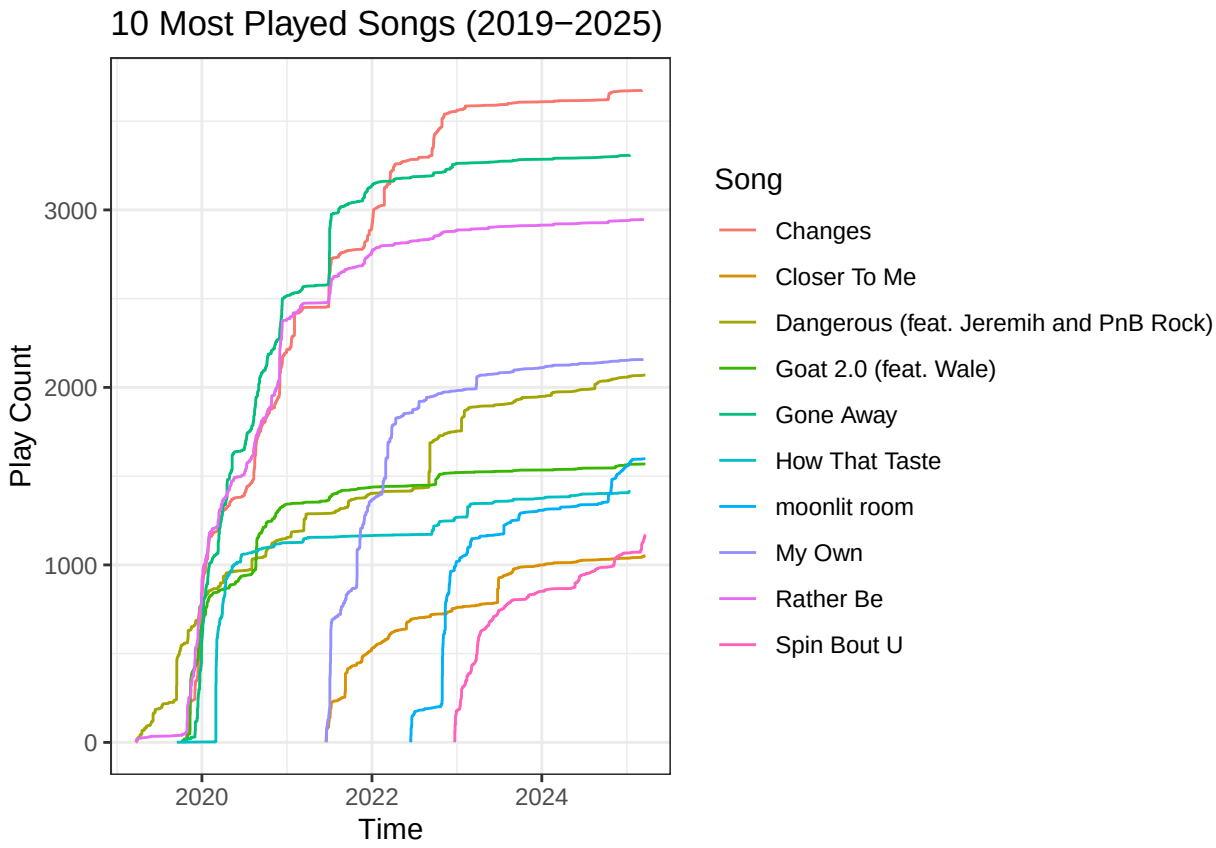

Top 5 Played Song on Public Displays Of Affection: The Album
Time Machine
Crack
Cartier
Another
Ain't Easy
Song
0
100
200
300
400
Play Count
Song
Ain't Easy
Another
Cartier
Crack
Time Machine


Top 5 Played Song on Rendezvous − EP
Song
Rendezvous
MDMA
Love Quotes
Deep In The Shallow End
CaNdY LiEs
0
200
400
600
Play Count
Song
CaNdY LiEs
Deep In The Shallow End
Love Quotes
MDMA
Rendezvous

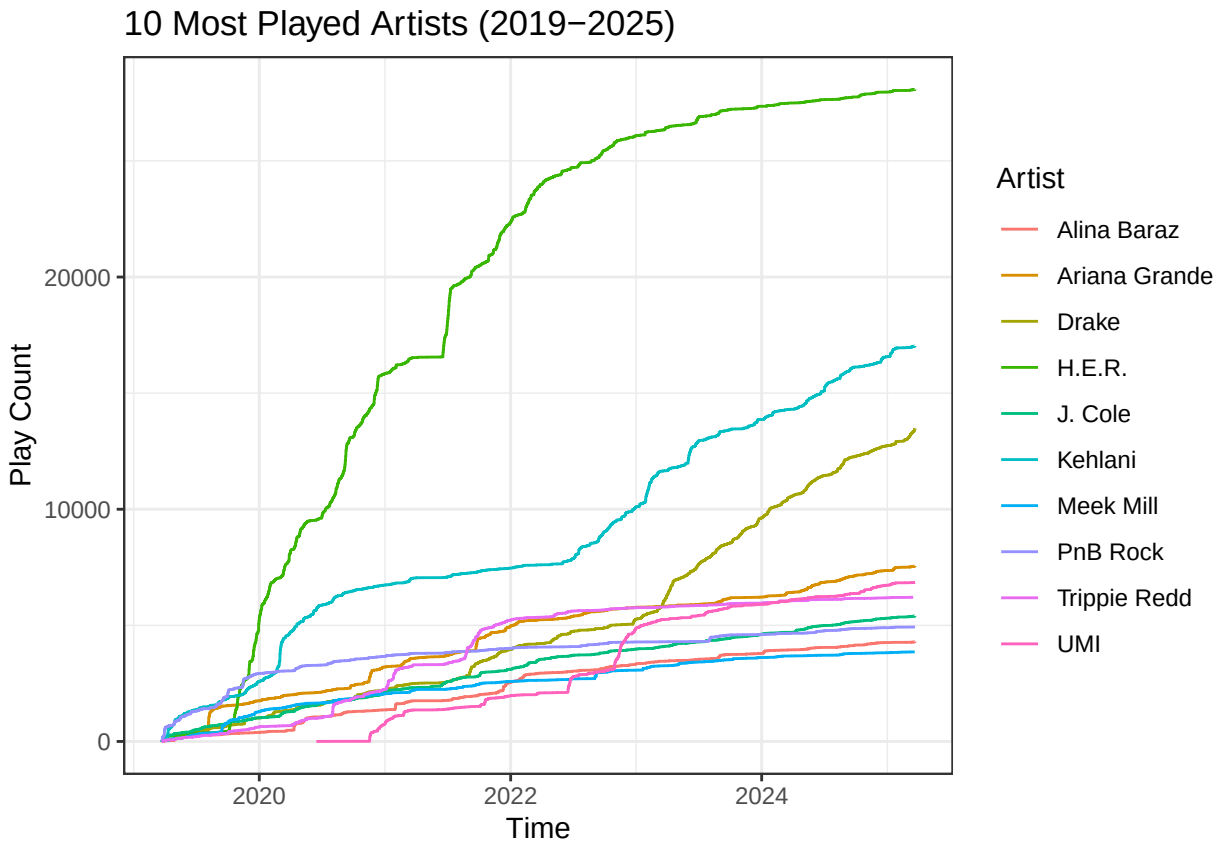

Top 5 Played Song on NEVER ENOUGH
Song
Valentina
Pain Is Inevitable
Ocho Rios
Homiesexual (with Ty Dolla $ign)
Buyer's Remorse (feat. Omar Apollo)
0
100
200
Play Count
Song
Buyer's Remorse (feat. Omar Apollo)
Homiesexual (with Ty Dolla $ign)
Ocho Rios
Pain Is Inevitable
Valentina

10 Most Played Songs/Artists/Albums (of All Time) Over Time

```
#Most Listened to Songs of All Time
alltime_songs_2 <- alltime_songs %>%
    arrange(desc(alltime_song_count)) %>%
    slice_head(n = 10)


top10_songs_oat_bytime <- ggplot(alltime_songs_plot_data %>%
                                     filter(
                                         song %in% alltime_songs_2$song &
                                             artist %in% alltime_songs_2$artist &
                                             alltime_song_count %in%
                                             alltime_songs_2$alltime_song_count),
                            aes(x = play_timestamp,
                                y = alltime_song_cumsum,
                                color = song)) +
    geom_path() +
    theme_bw() +
    labs(
        title = "10 Most Played Songs (2019-2025)",
        color = "Song",
        x = "Time",
        y = "Play Count"
    )
top10_songs_oat_bytime
```

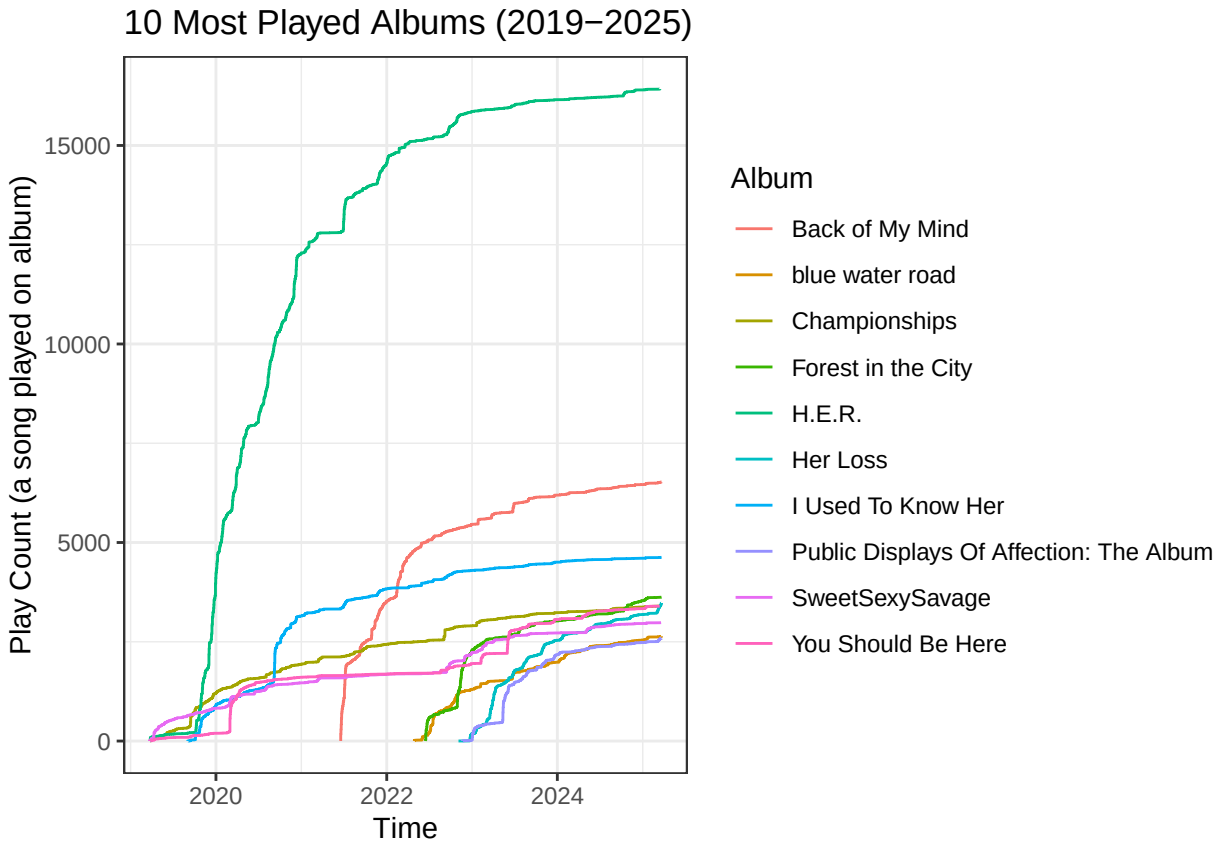


```r
#Most Listened to Artists of All Time
alltime_artists_2 <- alltime_artists %>%
    arrange(desc(alltime_artist_count)) %>%
    slice_head(n = 10)

top10_artists_oat_bytime <- ggplot(alltime_artists_plot_data %>%
                                       filter(
                                           artist %in% alltime_artists_2$artist &
                                               alltime_artist_count %in%
                                               alltime_artists_2$alltime_artist_count),
                                   aes(x = play_timestamp,
                                       y = alltime_artist_cumsum,
                                       color = artist)) +
    geom_path() +
    theme_bw() +
    labs(
        title = "10 Most Played Artists (2019-2025)",
        color = "Artist",
        x = "Time",
        y = "Play Count"
    )
top10_artists_oat_bytime
```




```r
#Most Listened to Albums of All Time
alltime_albums_2 <- alltime_albums %>%
    arrange(desc(alltime_album_count)) %>%
    slice_head(n = 10)
```

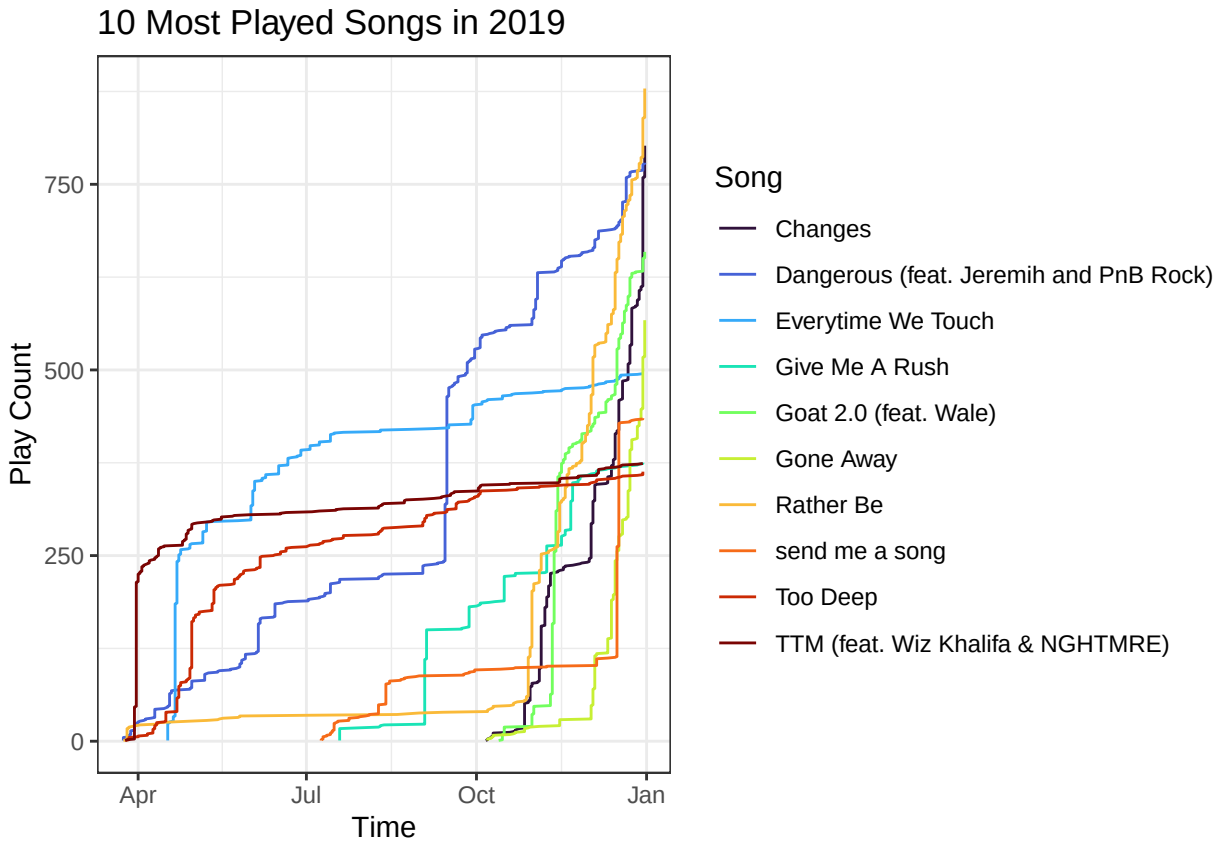
```
top10_albums_oat_bytime  <- ggplot(alltime_albums_plot_data %>%
                                       filter(
                                           album %in% alltime_albums_2$album &
                                               artist %in% alltime_albums_2$artist &
                                               alltime_album_count %in%
                                               alltime_albums_2$alltime_album_count),
                                   aes(x = play_timestamp,
                                       y = alltime_album_cumsum, color = album)) +
    geom_path() +
    theme_bw() +
    labs(
        title = "10 Most Played Albums (2019-2025)",
        color = "Album",
        x = "Time",
        y = "Play Count (a song played on album)"
    )
top10_albums_oat_bytime
```

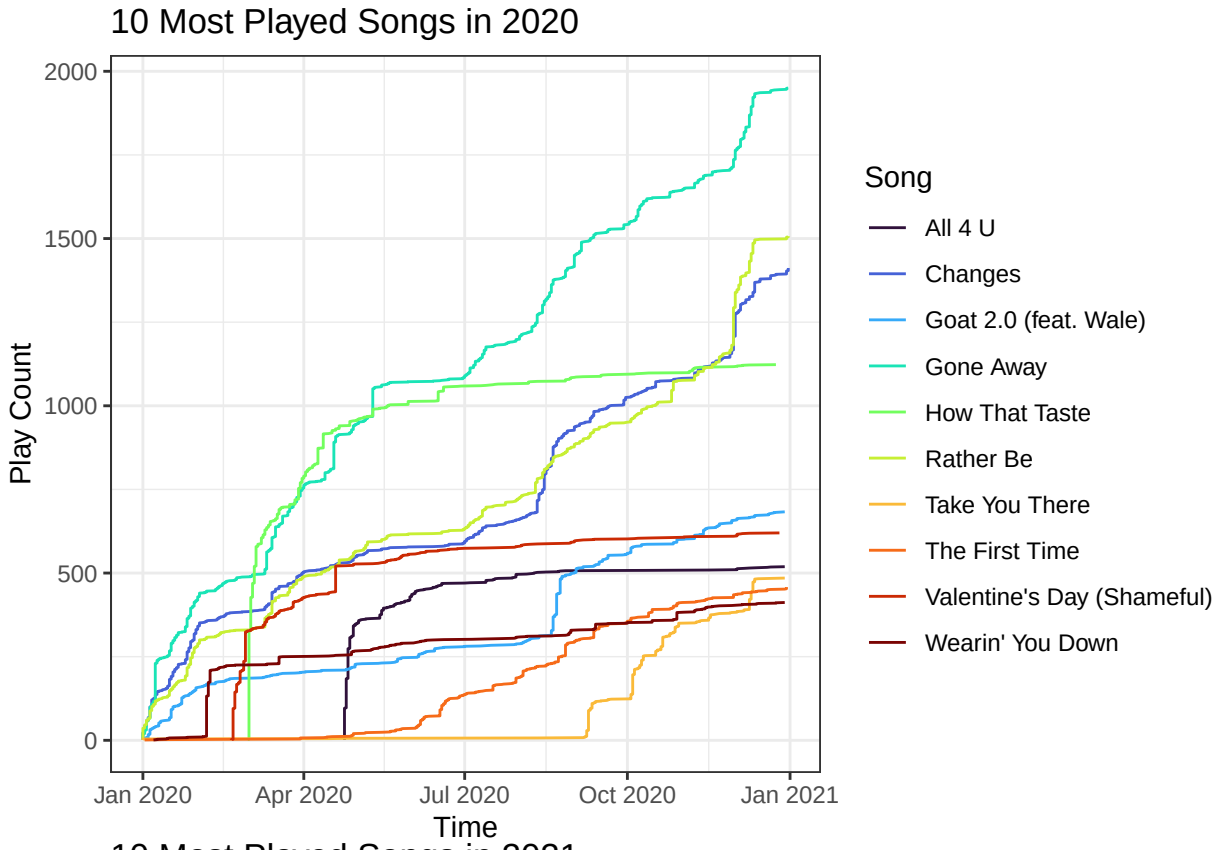


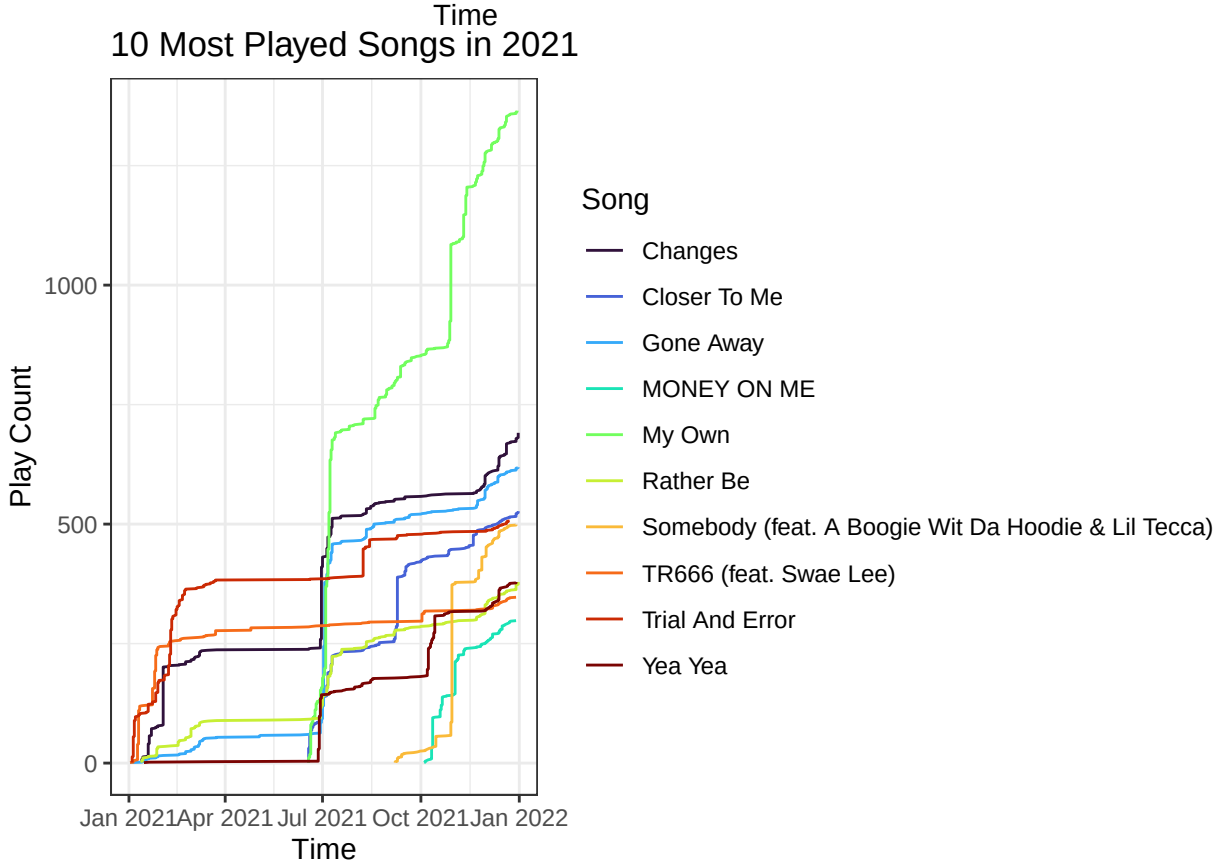
10 Most Played Songs (in Each Year) Over the Year

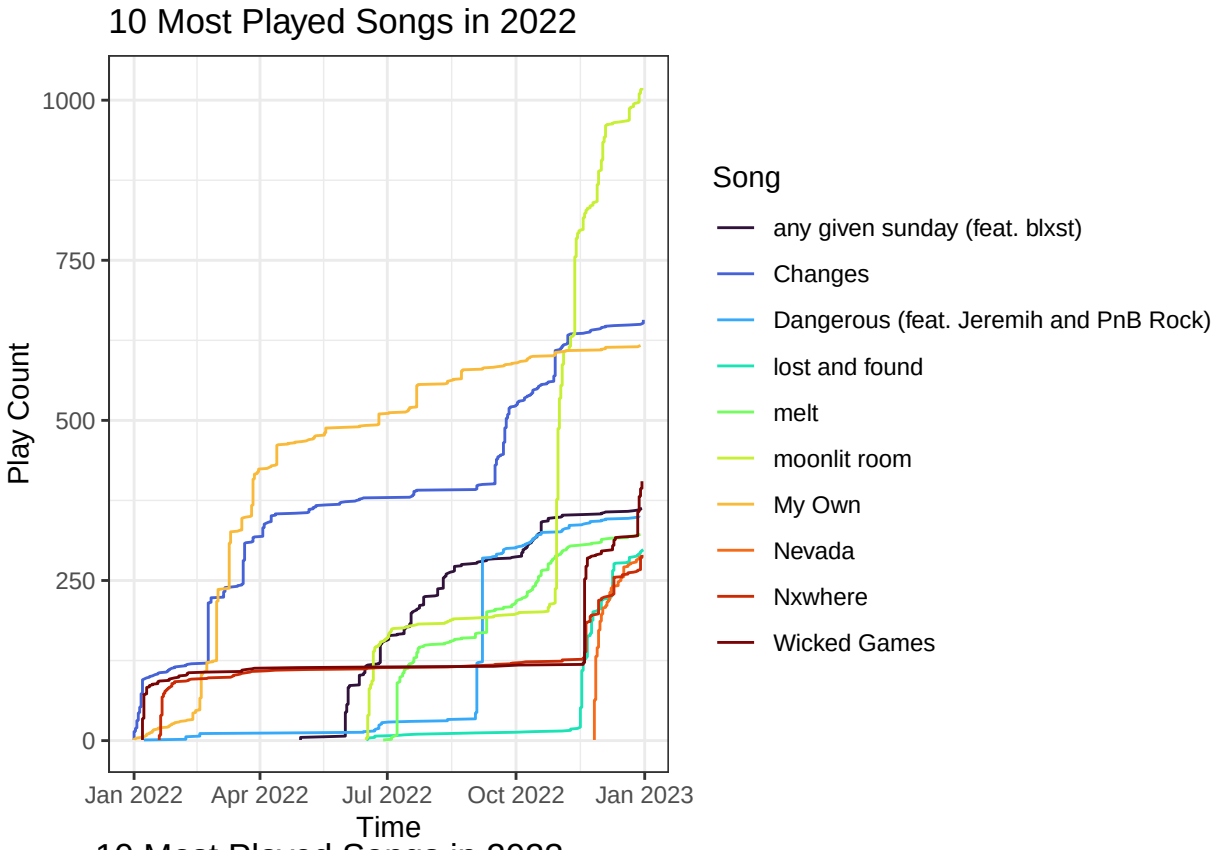
```
for (music_year in music_years) {
    yearly_top10_songs_bytime<- ggplot(alltime_songs_plot_data %>%
                                           filter(play_year == music_year &
                                                      year_x_top10_song == "Top 10 Song"),
                                       aes(x = play_timestamp,
                                           y = yearly_song_cumsum,
```

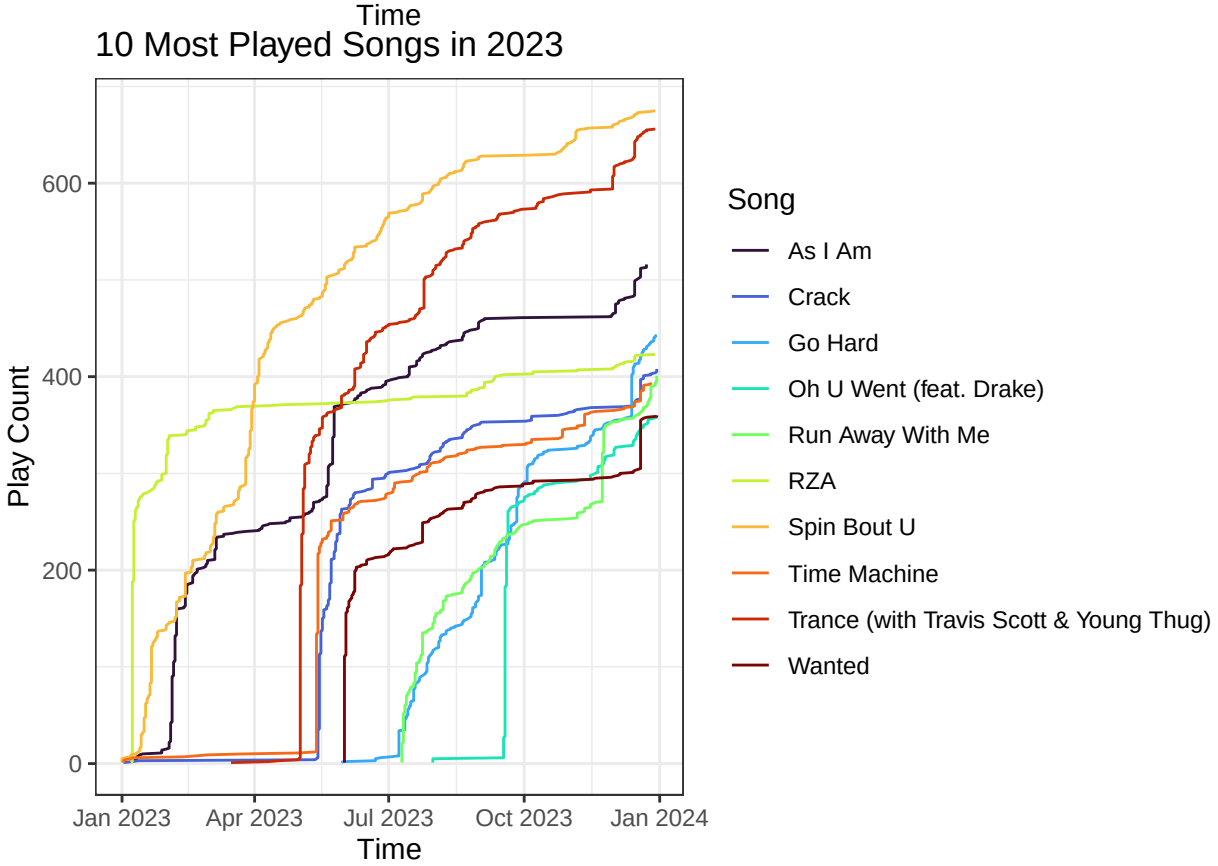
```
                                        color = song)) +
        geom_path() +
        scale_color_viridis_d(option = "turbo") +
        theme_bw() +
        labs(
            title = paste("10 Most Played Songs in", music_year),
            color = "Song",
            x = "Time",
            y = "Play Count"
            )
    print(yearly_top10_songs_bytime)
}
```

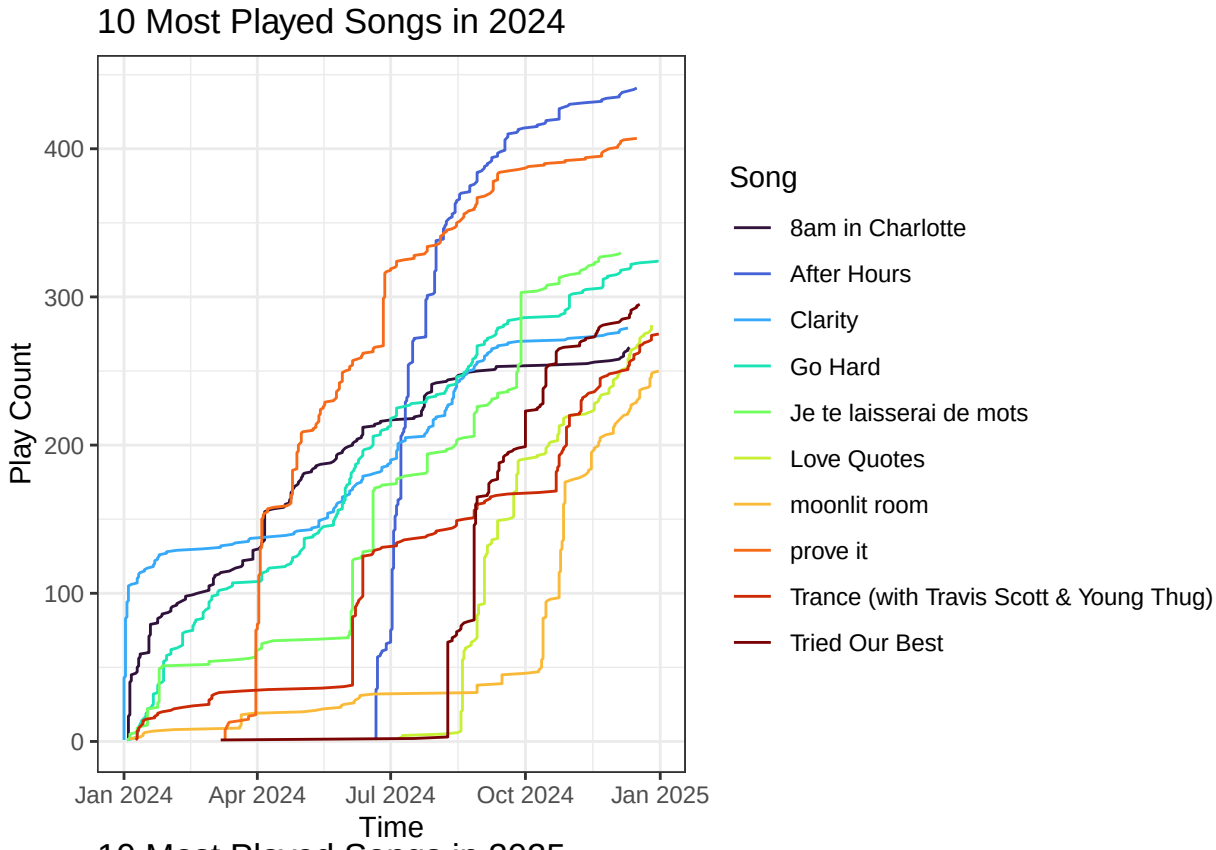


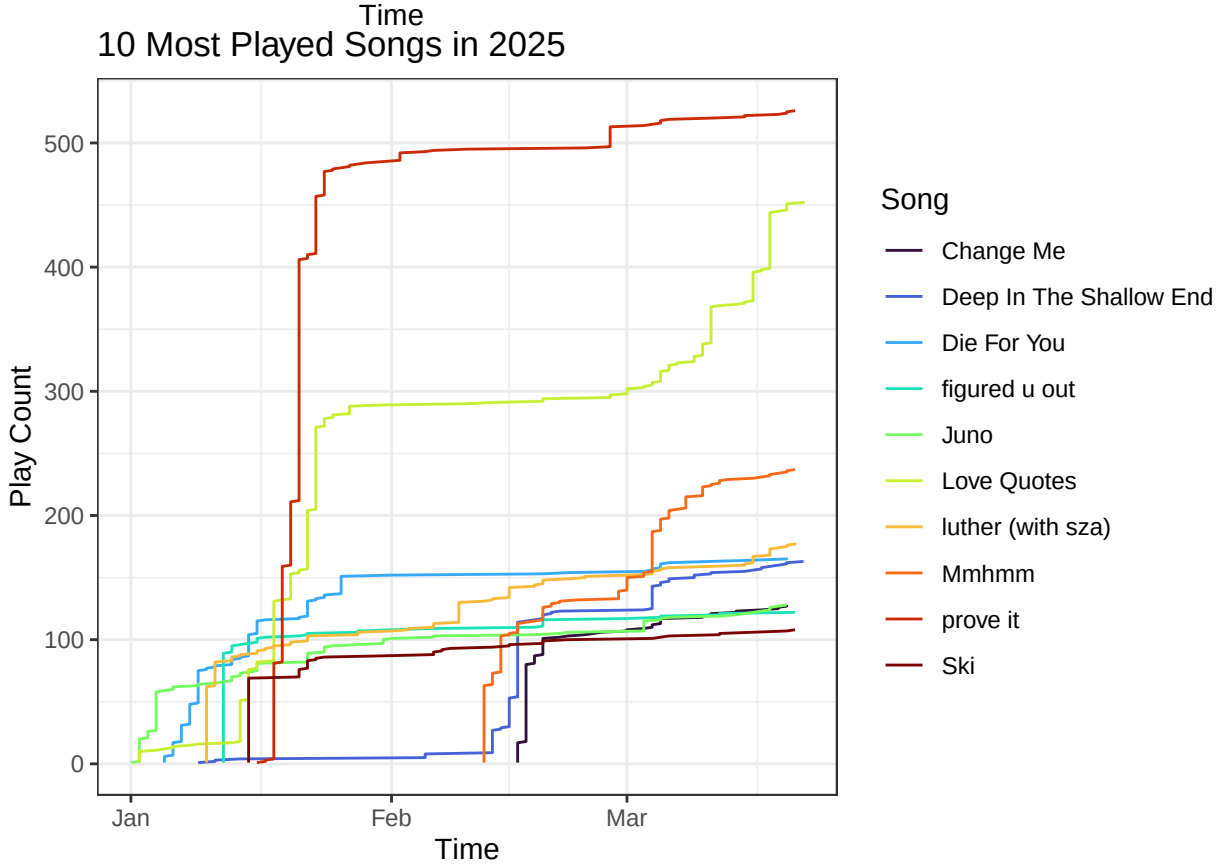

10 Most Played Songs in 2020
Play Count
2000
1500
1000
500
0
Jan 2020
Apr 2020
Jul 2020
Oct 2020
Jan 2021
Time
Song
All 4 U
Changes
Goat 2.0 (feat. Wale)
Gone Away
How That Taste
Rather Be
Take You There
The First Time
Valentine's Day (Shameful)
Wearin' You Down


10 Most Played Songs in 2021
Play Count
1000
500
0
Jan 2021
Apr 2021
Jul 2021
Oct 2021
Jan 2022
Time
Song
Changes
Closer To Me
Gone Away
MONEY ON ME
My Own
Rather Be
Somebody (feat. A Boogie Wit Da Hoodie & Lil Tecca)
TR666 (feat. Swae Lee)
Trial And Error
Yea Yea


10 Most Played Songs in 2022
Play Count
1000
750
500
250
0
Jan 2022
Apr 2022
Jul 2022
Oct 2022
Jan 2023
Time
Song
any given sunday (feat. blxst)
Changes
Dangerous (feat. Jeremih and PnB Rock)
lost and found
melt
moonlit room
My Own
Nevada
Nxwhere
Wicked Games

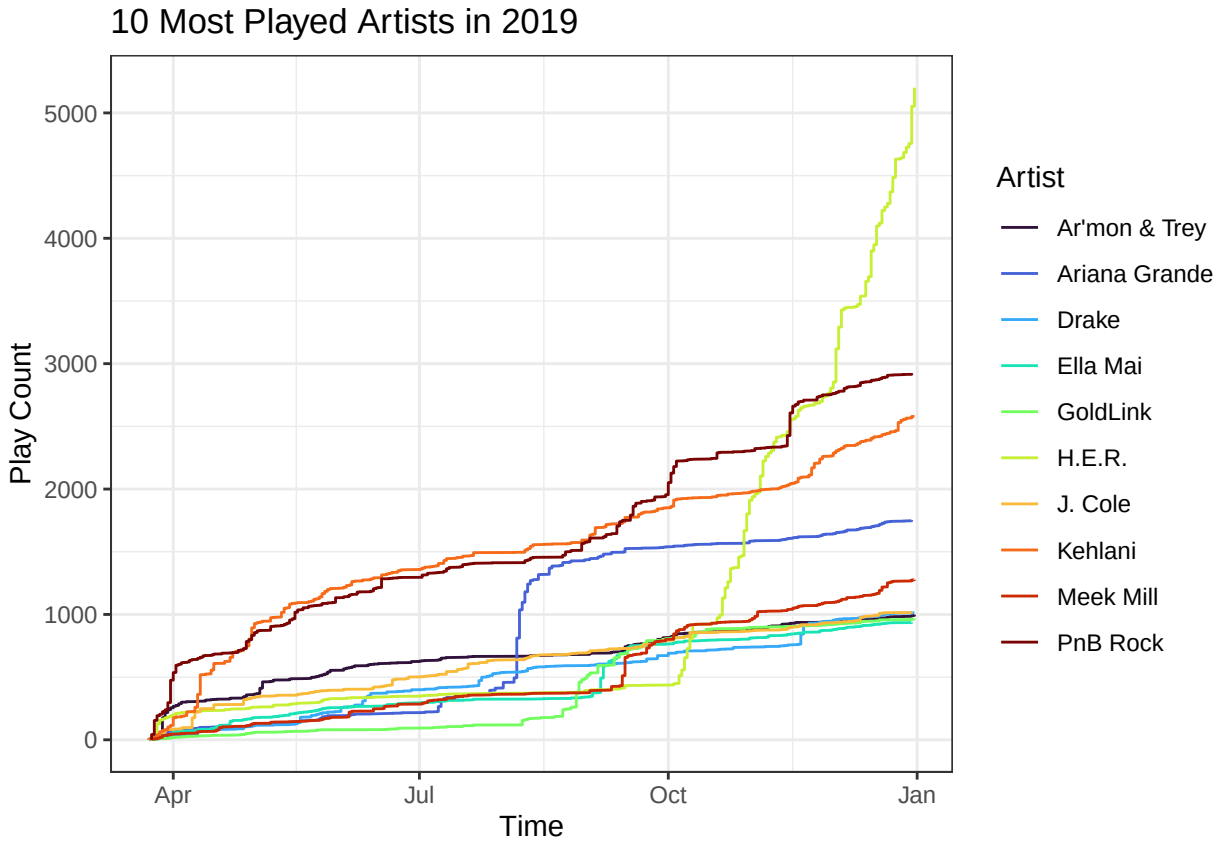

10 Most Played Songs in 2023
Play Count
600
400
200
0
Jan 2023
Apr 2023
Jul 2023
Oct 2023
Jan 2024
Time
Song
As I Am
Crack
Go Hard
Oh U Went (feat. Drake)
Run Away With Me
RZA
Spin Bout U
Time Machine
Trance (with Travis Scott & Young Thug)
Wanted

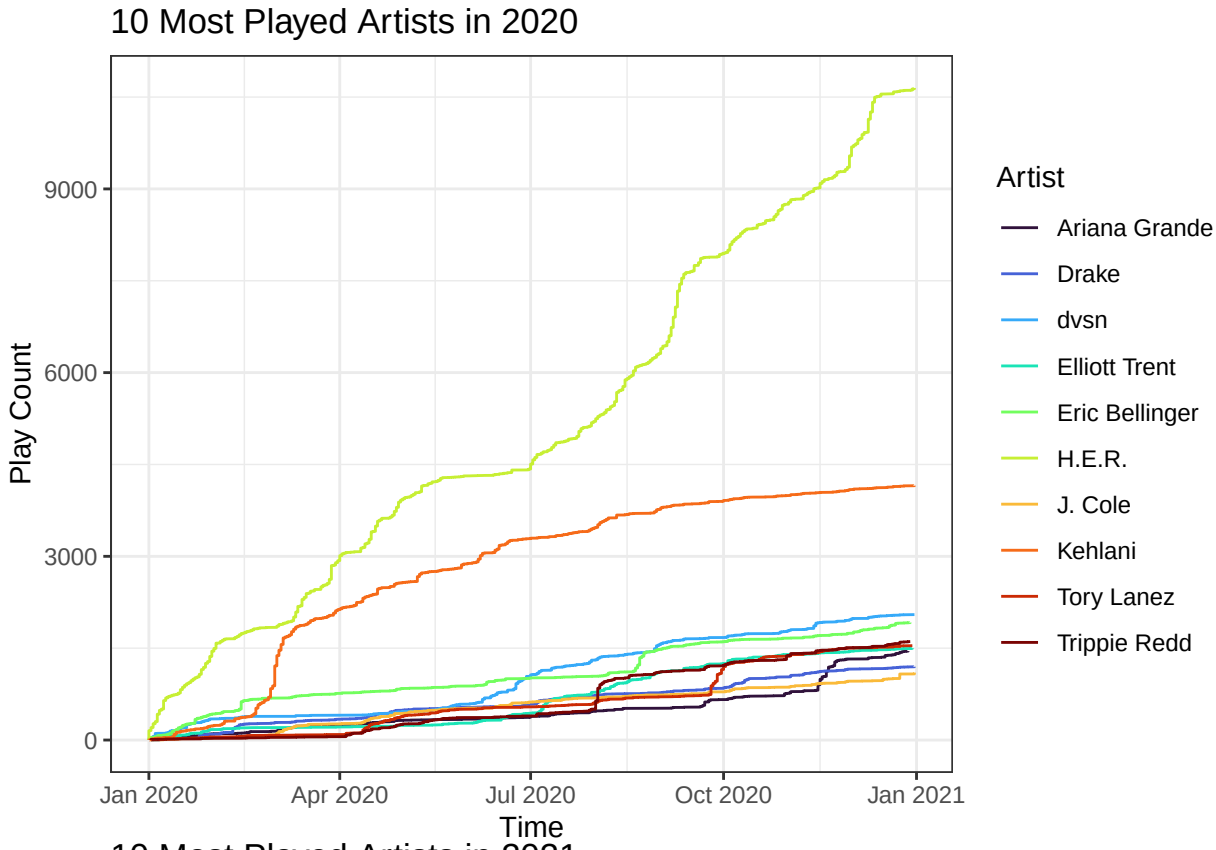

10 Most Played Songs in 2024
Play Count
0
100
200
300
400
Jan 2024
Apr 2024
Jul 2024
Oct 2024
Jan 2025
Time
Song
8am in Charlotte
After Hours
Clarity
Go Hard
Je te laisserai de mots
Love Quotes
moonlit room
prove it
Trance (with Travis Scott & Young Thug)
Tried Our Best

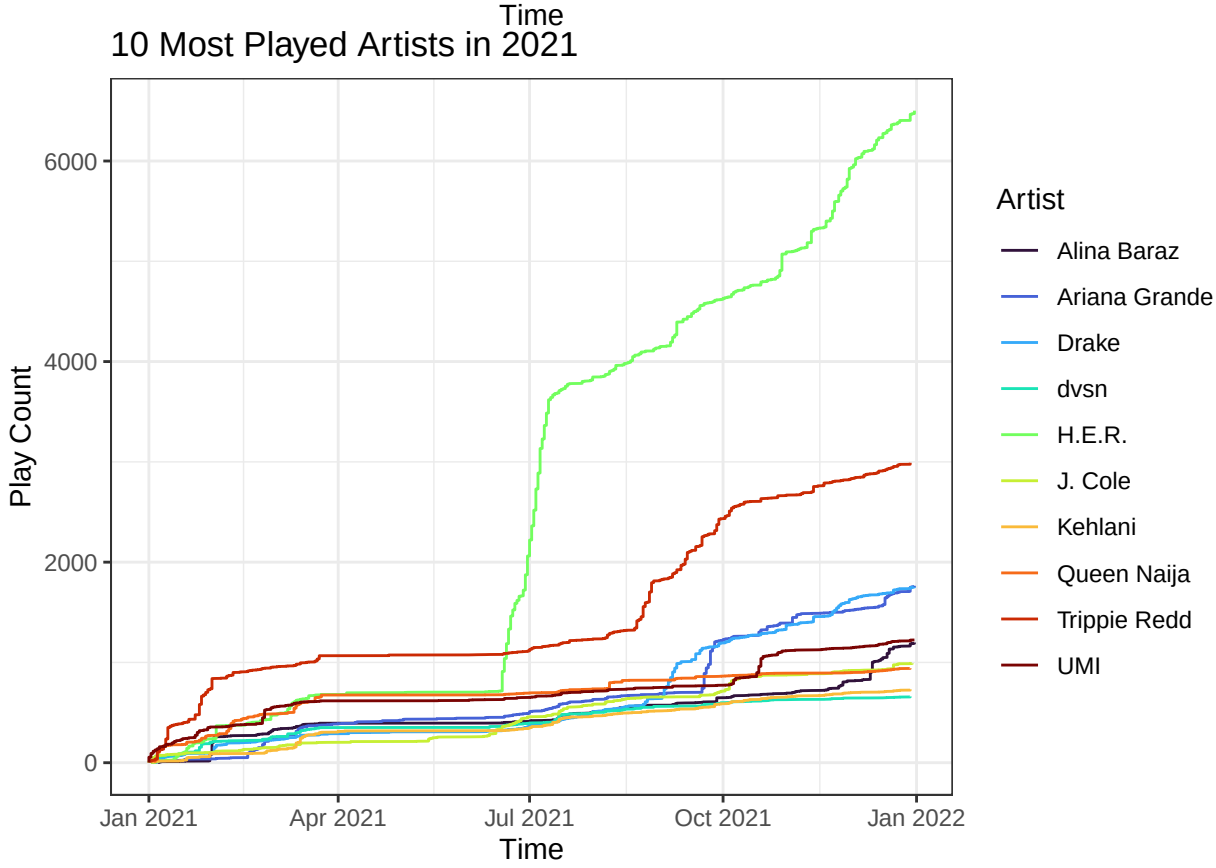

10 Most Played Songs in 2025
Play Count
0
100
200
300
400
500
Jan
Feb
Mar
Time
Song
Change Me
Deep In The Shallow End
Die For You
figured u out
Juno
Love Quotes
luther (with sza)
Mmhmm
prove it
Ski

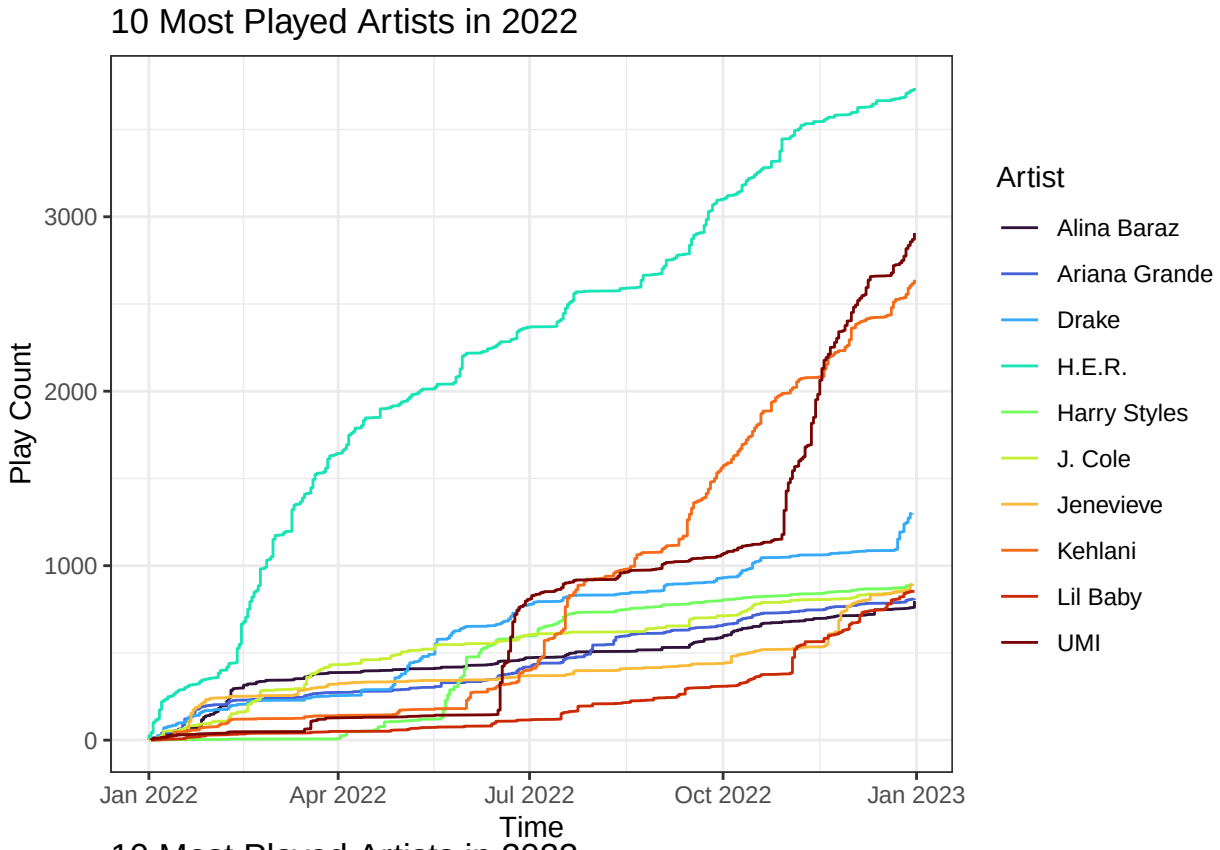
10 Most Played Artists (in Each Year) Over the Year

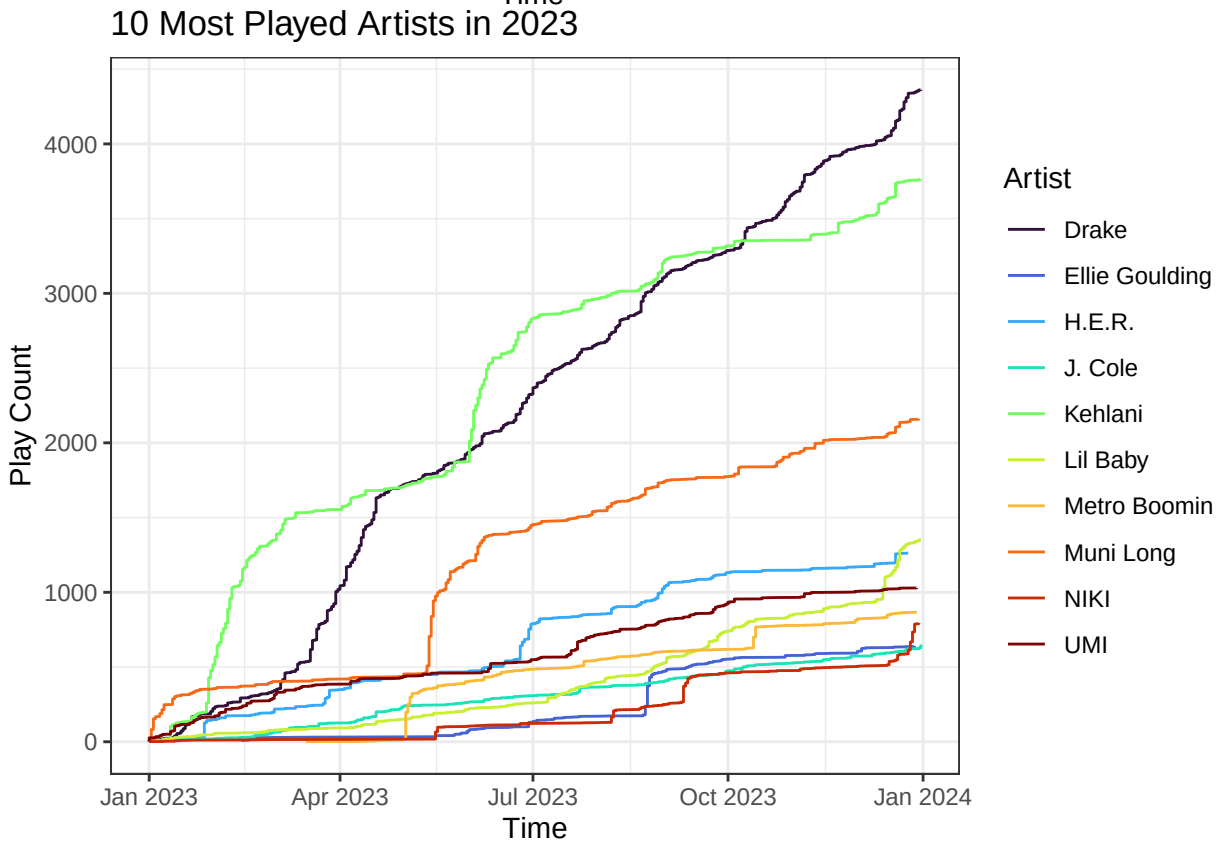
```
for (music_year in music_years) {
    yearly_top10_artists_bytime<- ggplot(alltime_artists_plot_data %>%
                                             filter(
                                                 play_year == music_year &
                                                     year_x_top10_artist == "Top 10 Artist"),
                                         aes(x = play_timestamp,
                                             y = yearly_artist_cumsum,
                                             color = artist)) +
        geom_path() +
        scale_color_viridis_d(option = "turbo") +
        theme_bw() +
        labs(
            title = paste("10 Most Played Artists in", music_year),
            color = "Artist",
            x = "Time",
            y = "Play Count"
            )
    print(yearly_top10_artists_bytime)
    }
```

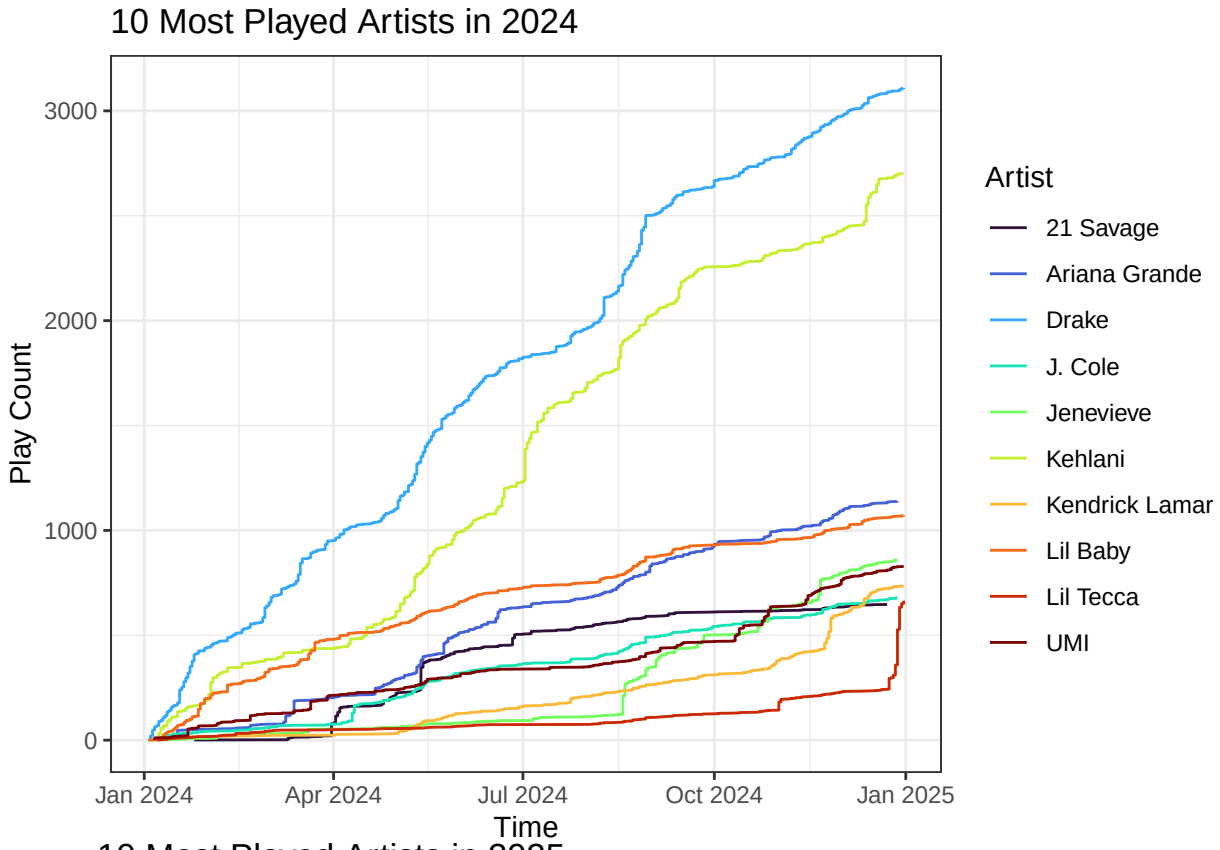


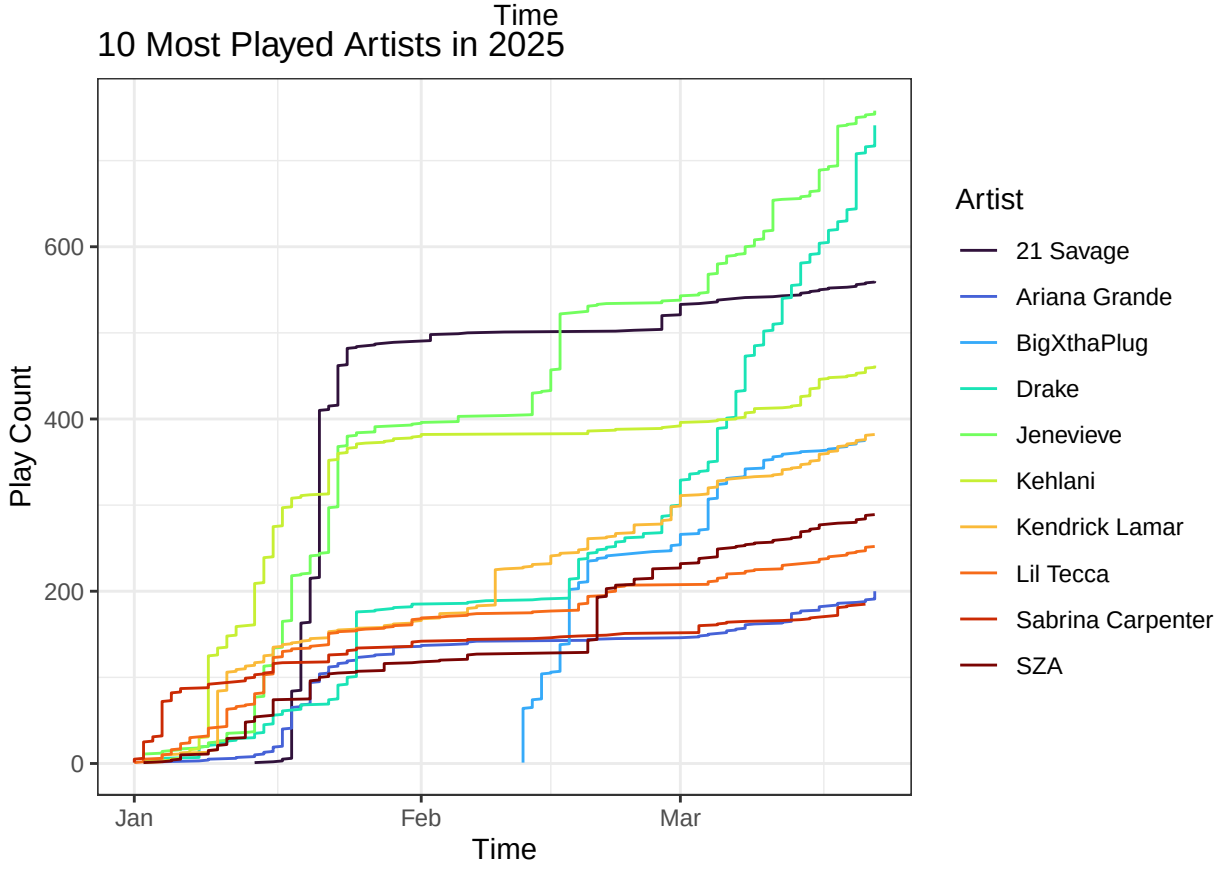

10 Most Played Artists in 2020
Play Count
9000
6000
3000
0
Jan 2020
Apr 2020
Jul 2020
Oct 2020
Jan 2021
Time
Artist
Ariana Grande
Drake
dvsn
Elliott Trent
Eric Bellinger
H.E.R.
J. Cole
Kehlani
Tory Lanez
Trippie Redd


10 Most Played Artists in 2021
Play Count
6000
4000
2000
0
Jan 2021
Apr 2021
Jul 2021
Oct 2021
Jan 2022
Time
Artist
Alina Baraz
Ariana Grande
Drake
dvsn
H.E.R.
J. Cole
Kehlani
Queen Naija
Trippie Redd
UMI


10 Most Played Artists in 2022
Play Count
0
1000
2000
3000
Jan 2022
Apr 2022
Jul 2022
Oct 2022
Jan 2023
Time
Artist
Alina Baraz
Ariana Grande
Drake
H.E.R.
Harry Styles
J. Cole
Jenevieve
Kehlani
Lil Baby
UMI

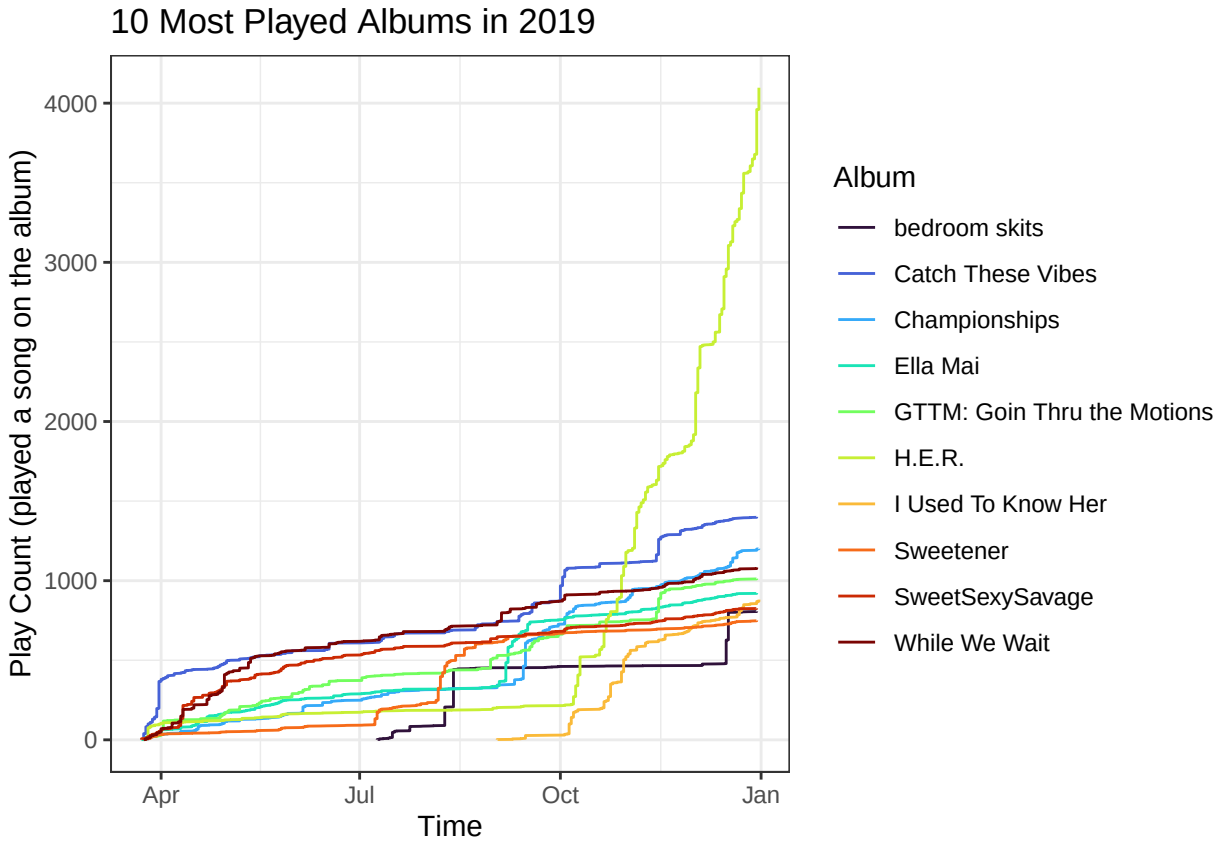

10 Most Played Artists in 2023
Play Count
0
1000
2000
3000
4000
Jan 2023
Apr 2023
Jul 2023
Oct 2023
Jan 2024
Time
Artist
Drake
Ellie Goulding
H.E.R.
J. Cole
Kehlani
Lil Baby
Metro Boomin
Muni Long
NIKI
UMI

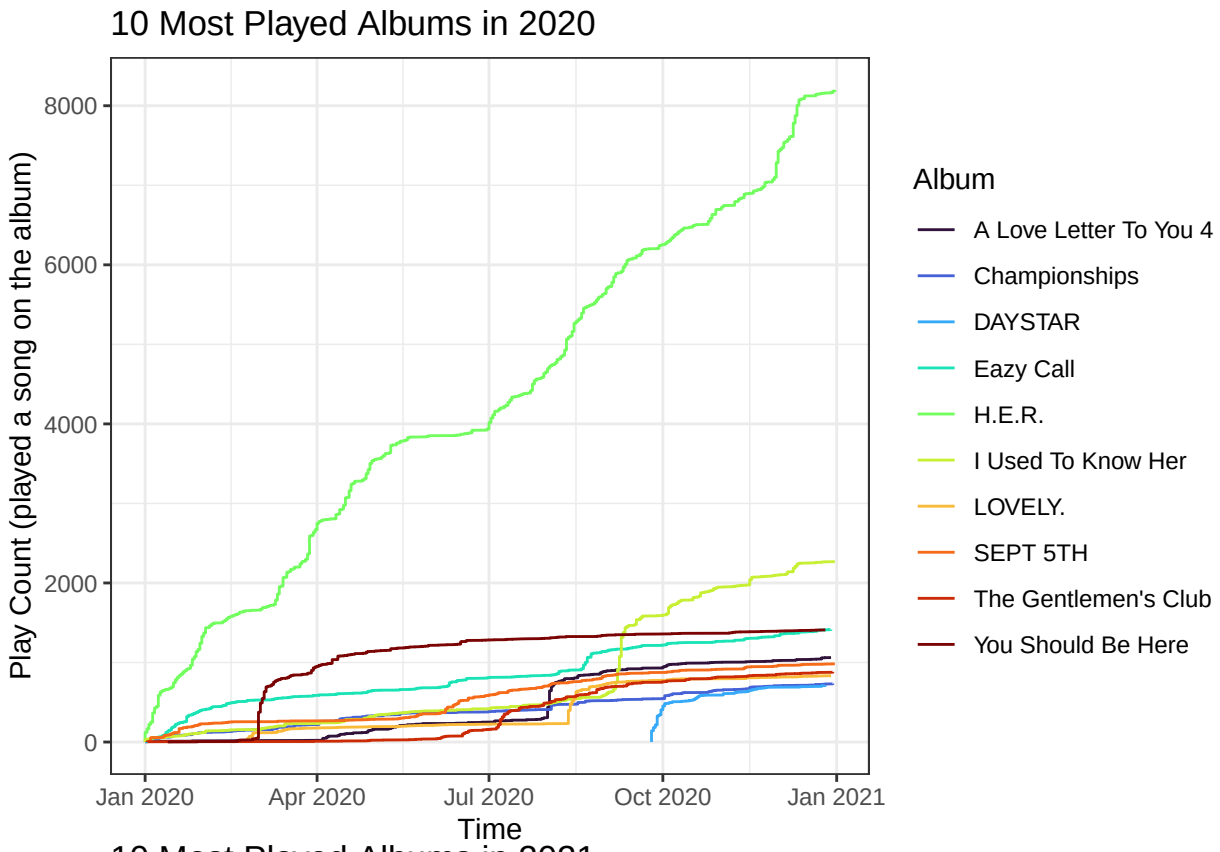

10 Most Played Artists in 2024
Play Count
3000
2000
1000
0
Jan 2024
Apr 2024
Jul 2024
Oct 2024
Jan 2025
Time
Artist
21 Savage
Ariana Grande
Drake
J. Cole
Jenevieve
Kehlani
Kendrick Lamar
Lil Baby
Lil Tecca
UMI

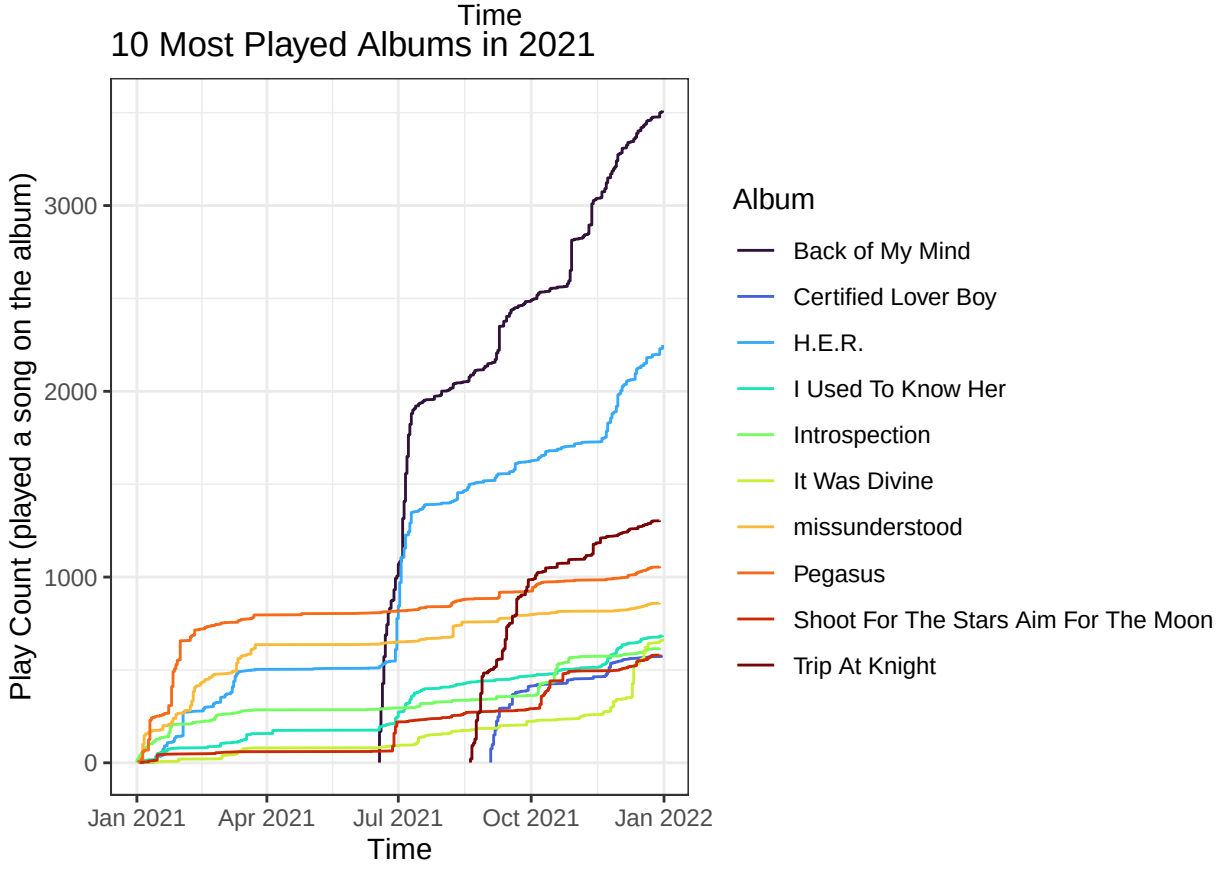

10 Most Played Artists in 2025
Play Count
600
400
200
0
Jan
Feb
Mar
Time
Artist
21 Savage
Ariana Grande
BigXthaPlug
Drake
Jenevieve
Kehlani
Kendrick Lamar
Lil Tecca
Sabrina Carpenter
SZA

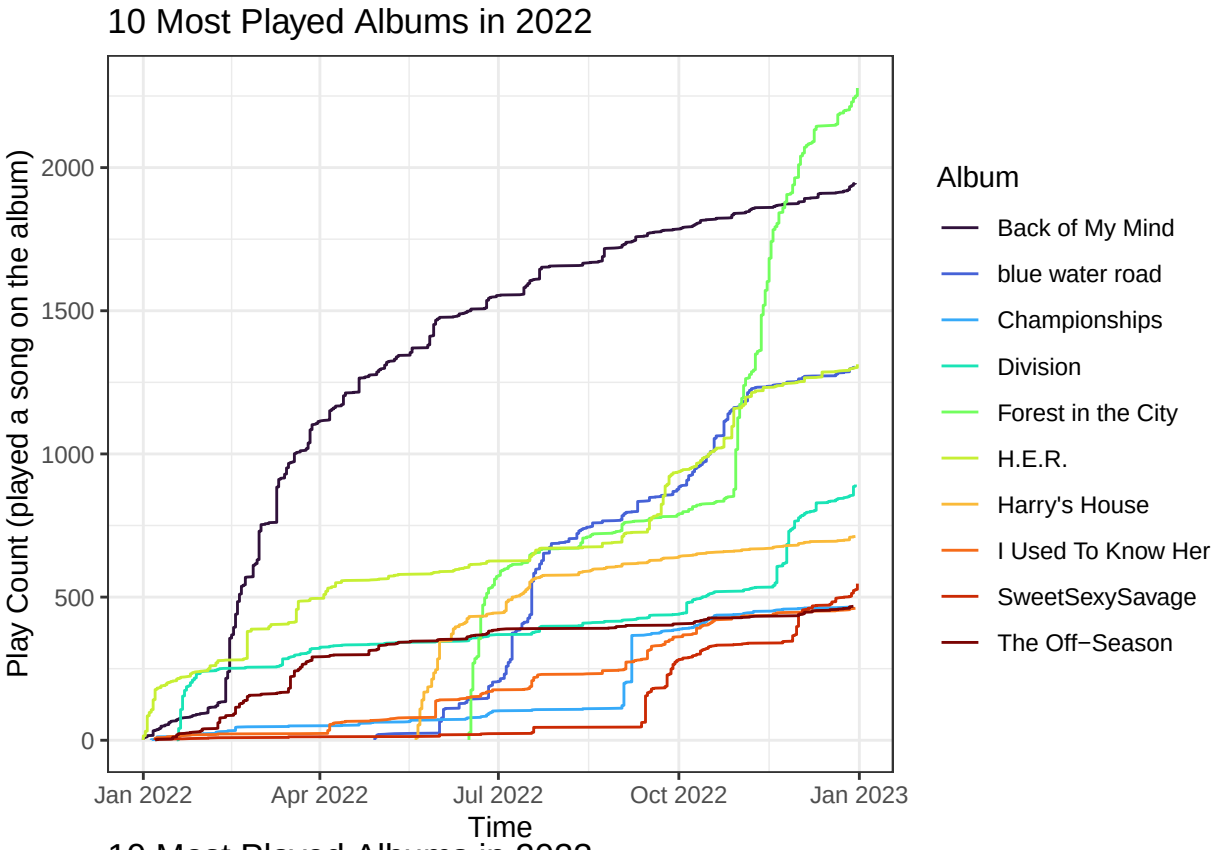
10 Most Played Albums (in Each Year) Over the Year

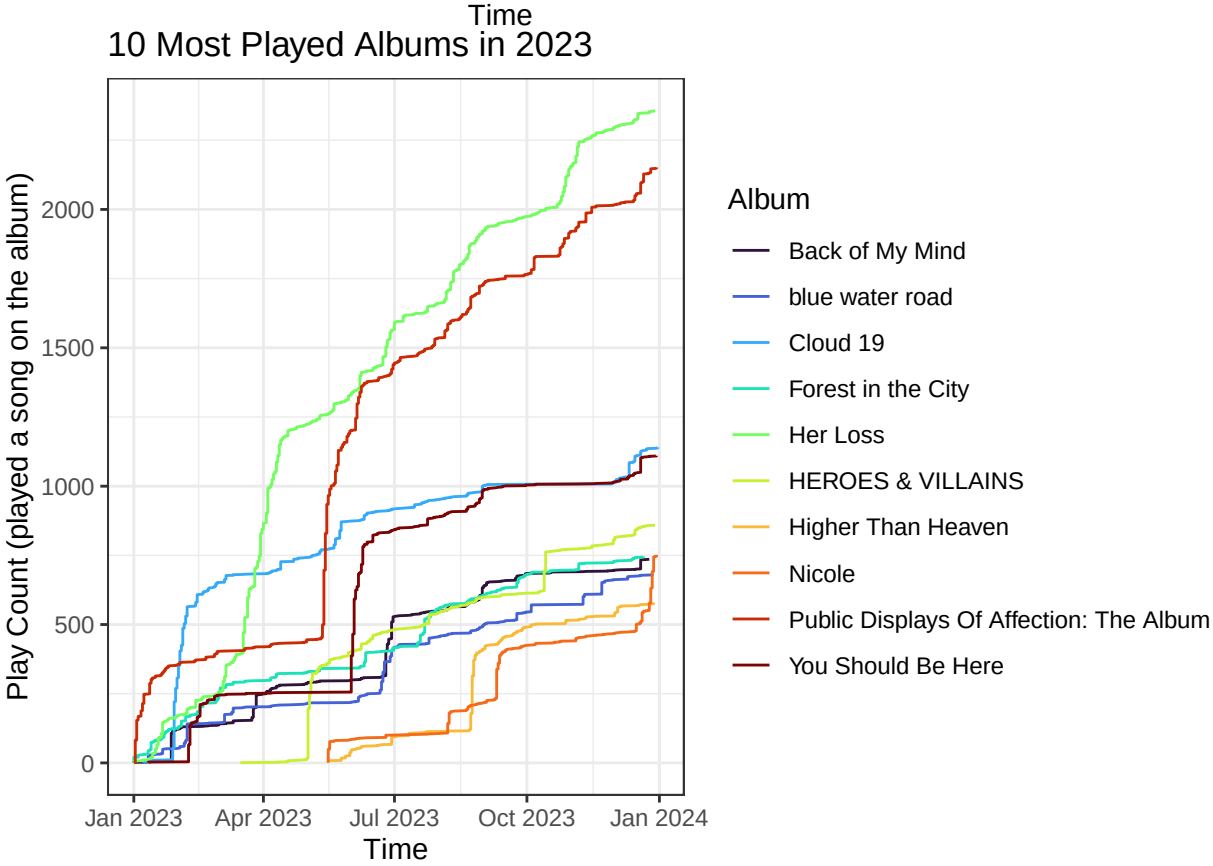
```
for (music_year in music_years) {
    yearly_top10_albums_bytime<- ggplot(alltime_albums_plot_data %>%
                                            filter(
                                                play_year == music_year &
                                                    year_x_top10_album == "Top 10 Album"),
                                        aes(x = play_timestamp,
                                            y = yearly_album_cumsum,
                                            color = album)) +
        geom_path() +
        scale_color_viridis_d(option = "turbo") +
        theme_bw() +
        labs(
            title = paste("10 Most Played Albums in", music_year),
            color = "Album",
            x = "Time",
            y = "Play Count (played a song on the album)"
            )
    print(yearly_top10_albums_bytime)
    }
```

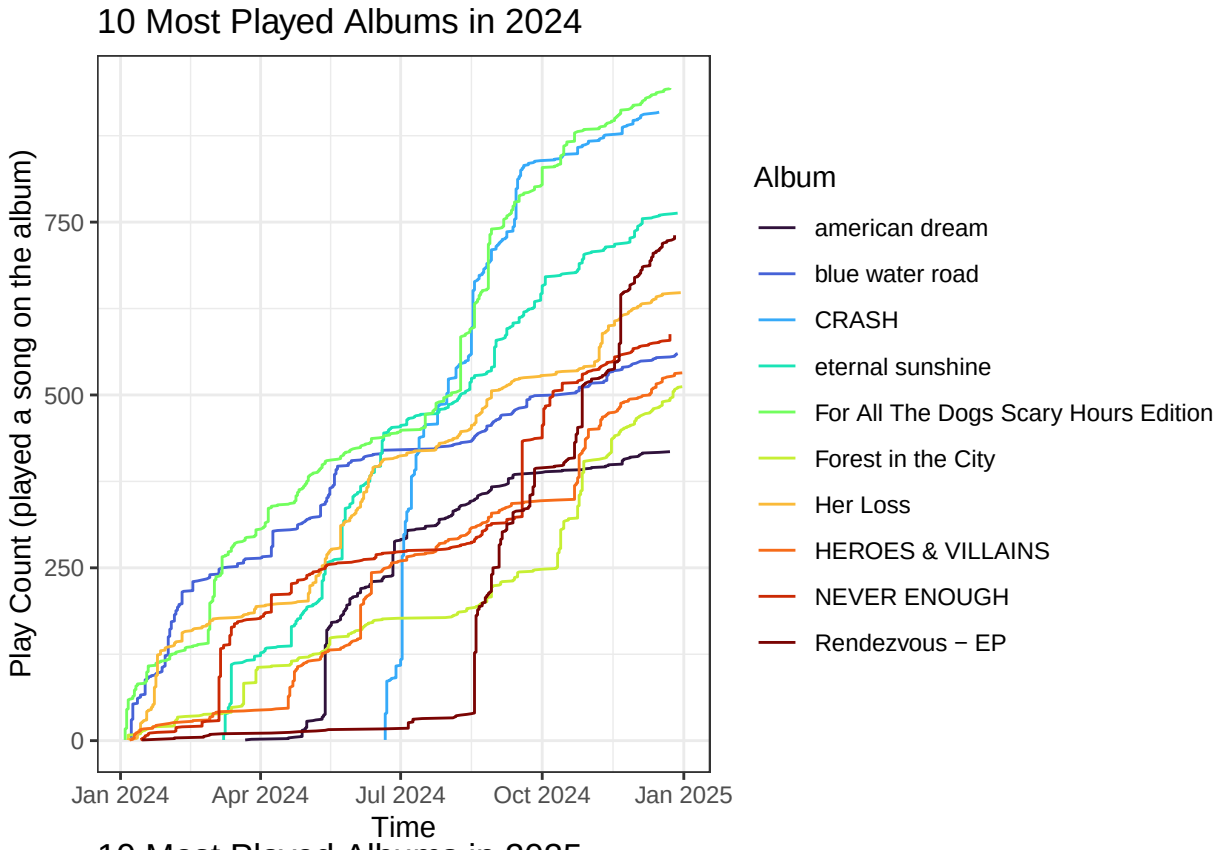


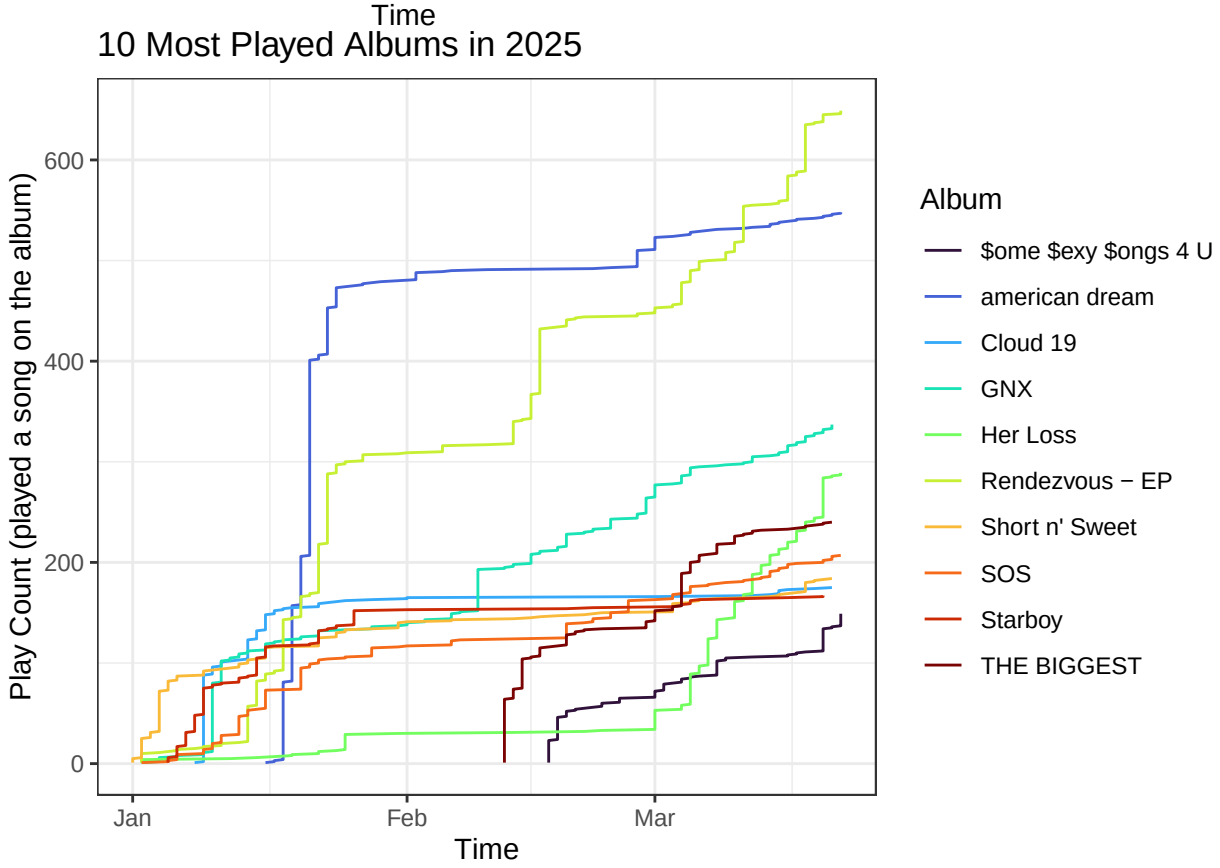

10 Most Played Albums in 2020
Play Count (played a song on the album)
8000
6000
4000
2000
0
Jan 2020
Apr 2020
Jul 2020
Oct 2020
Jan 2021
Time
Album
A Love Letter To You 4
Championships
DAYSTAR
Eazy Call
H.E.R.
I Used To Know Her
LOVELY.
SEPT 5TH
The Gentlemen's Club
You Should Be Here


10 Most Played Albums in 2021
Play Count (played a song on the album)
3000
2000
1000
0
Jan 2021
Apr 2021
Jul 2021
Oct 2021
Jan 2022
Time
Album
Back of My Mind
Certified Lover Boy
H.E.R.
I Used To Know Her
Introspection
It Was Divine
missunderstood
Pegasus
Shoot For The Stars Aim For The Moon
Trip At Knight


10 Most Played Albums in 2022
Play Count (played a song on the album)
2000
1500
1000
500
0
Jan 2022
Apr 2022
Jul 2022
Oct 2022
Jan 2023
Time
Album
Back of My Mind
blue water road
Championships
Division
Forest in the City
H.E.R.
Harry's House
I Used To Know Her
SweetSexySavage
The Off−Season


10 Most Played Albums in 2023
Play Count (played a song on the album)
2000
1500
1000
500
0
Jan 2023
Apr 2023
Jul 2023
Oct 2023
Jan 2024
Time
Album
Back of My Mind
blue water road
Cloud 19
Forest in the City
Her Loss
HEROES & VILLAINS
Higher Than Heaven
Nicole
Public Displays Of Affection: The Album
You Should Be Here

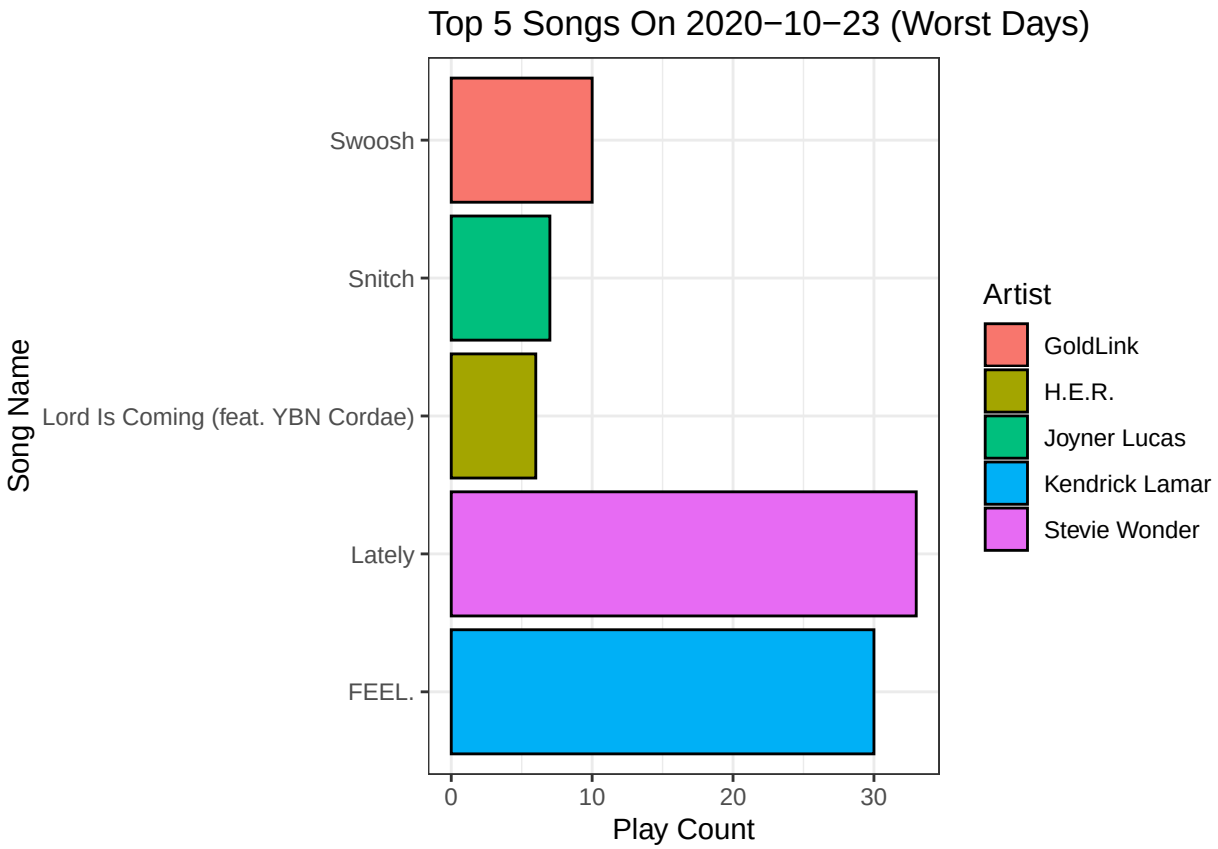

10 Most Played Albums in 2024
Play Count (played a song on the album)
0
250
500
750
Jan 2024
Apr 2024
Jul 2024
Oct 2024
Jan 2025
Time
Album
american dream
blue water road
CRASH
eternal sunshine
For All The Dogs Scary Hours Edition
Forest in the City
Her Loss
HEROES & VILLAINS
NEVER ENOUGH
Rendezvous − EP

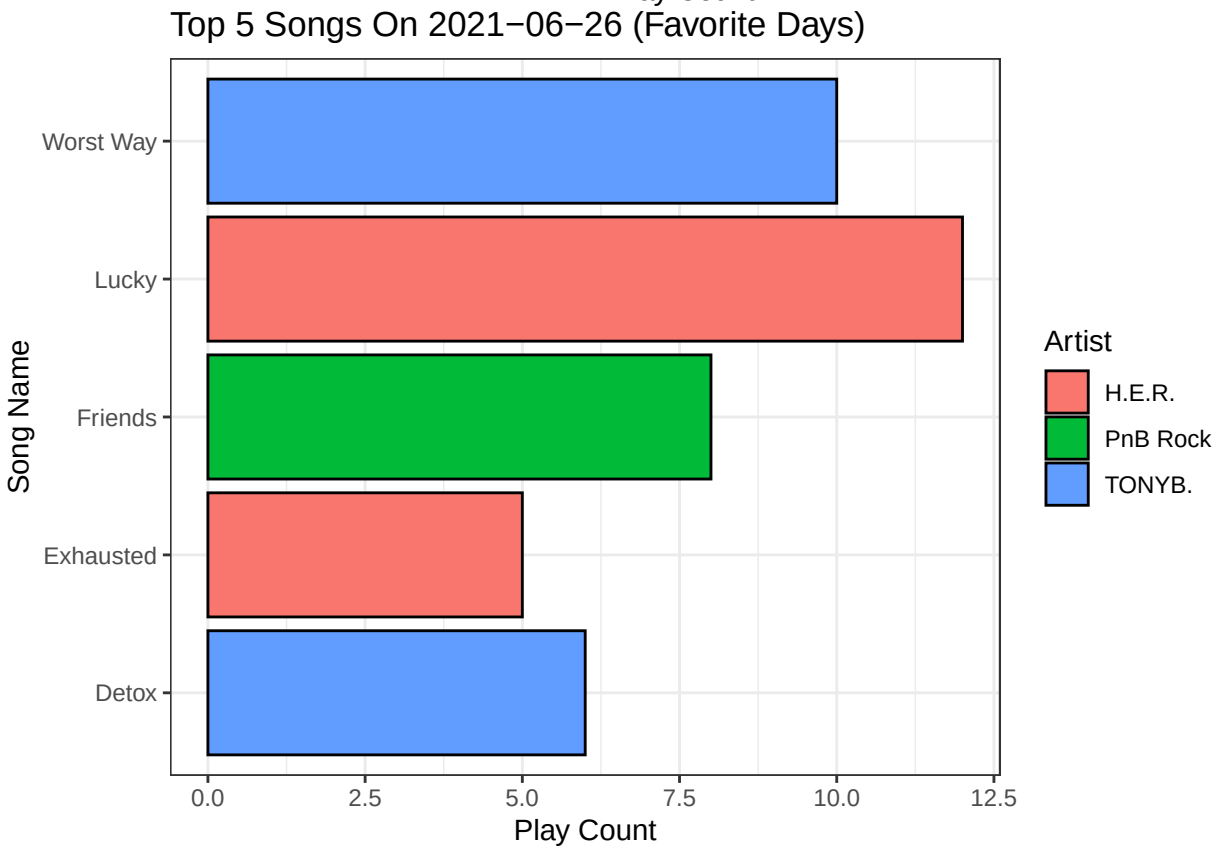

10 Most Played Albums in 2025
Play Count (played a song on the album)
0
200
400
600
Jan
Feb
Mar
Time
Album
$ome $exy $ongs 4 U
american dream
Cloud 19
GNX
Her Loss
Rendezvous − EP
Short n' Sweet
SOS
Starboy
THE BIGGEST

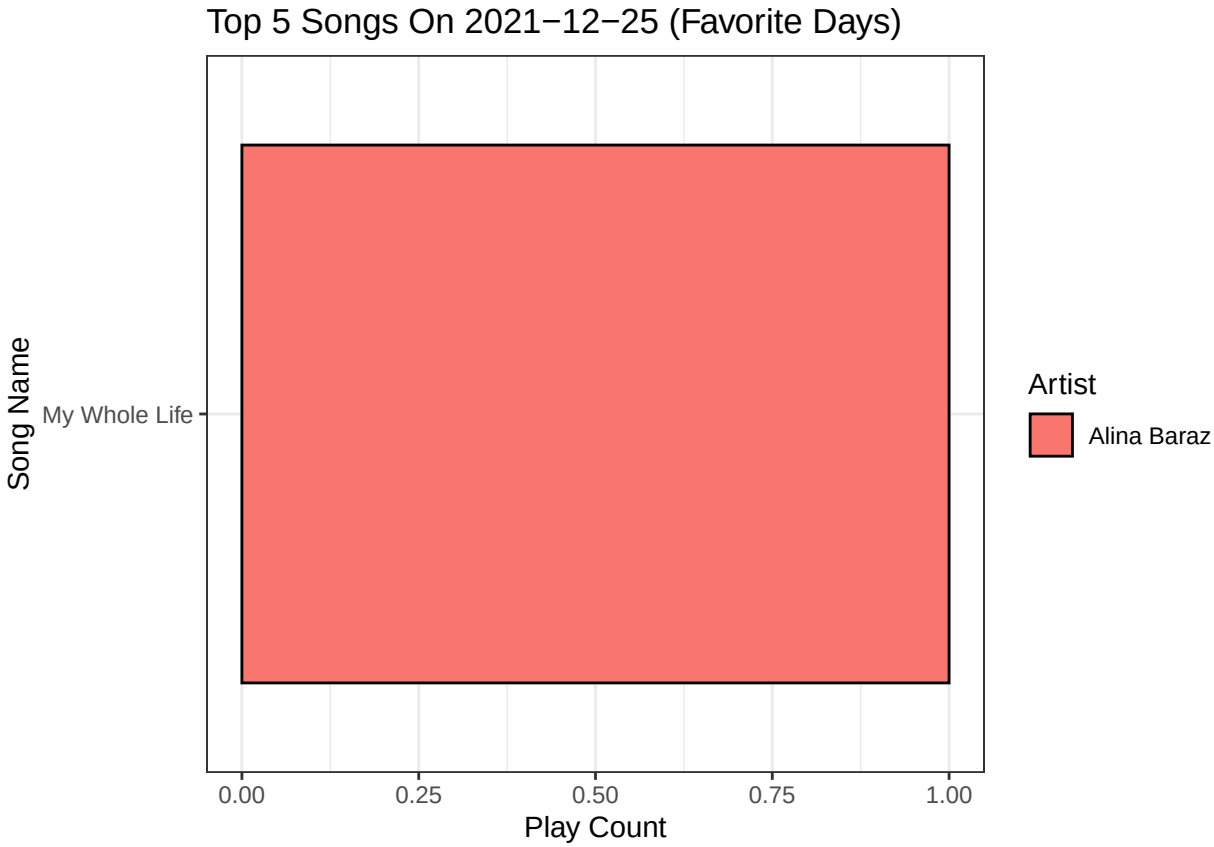
Significant Dates

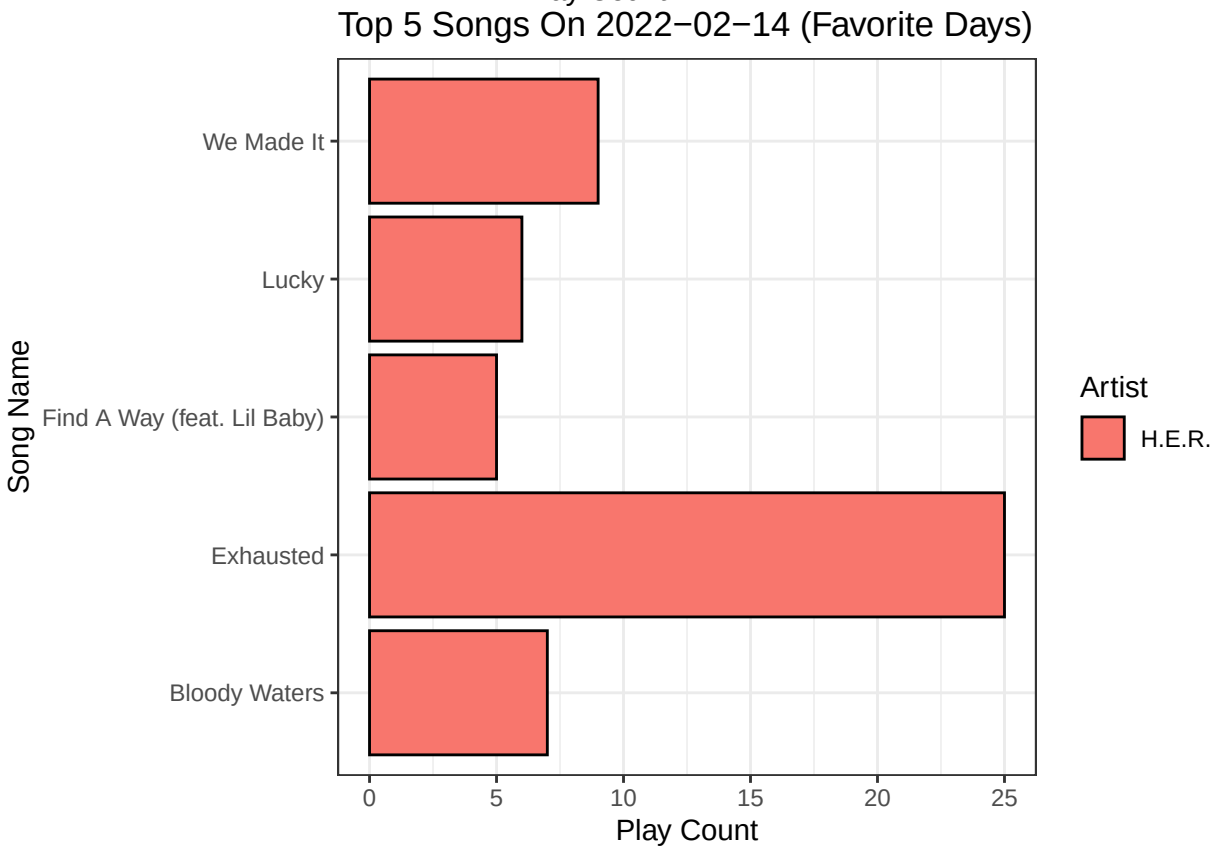
Music has been something I've always loved, most days I listen to music for hours upon hours. When I'm feeling certain emotions or I'm going through something significant, I tend to turn to music that aligns with those emotions.

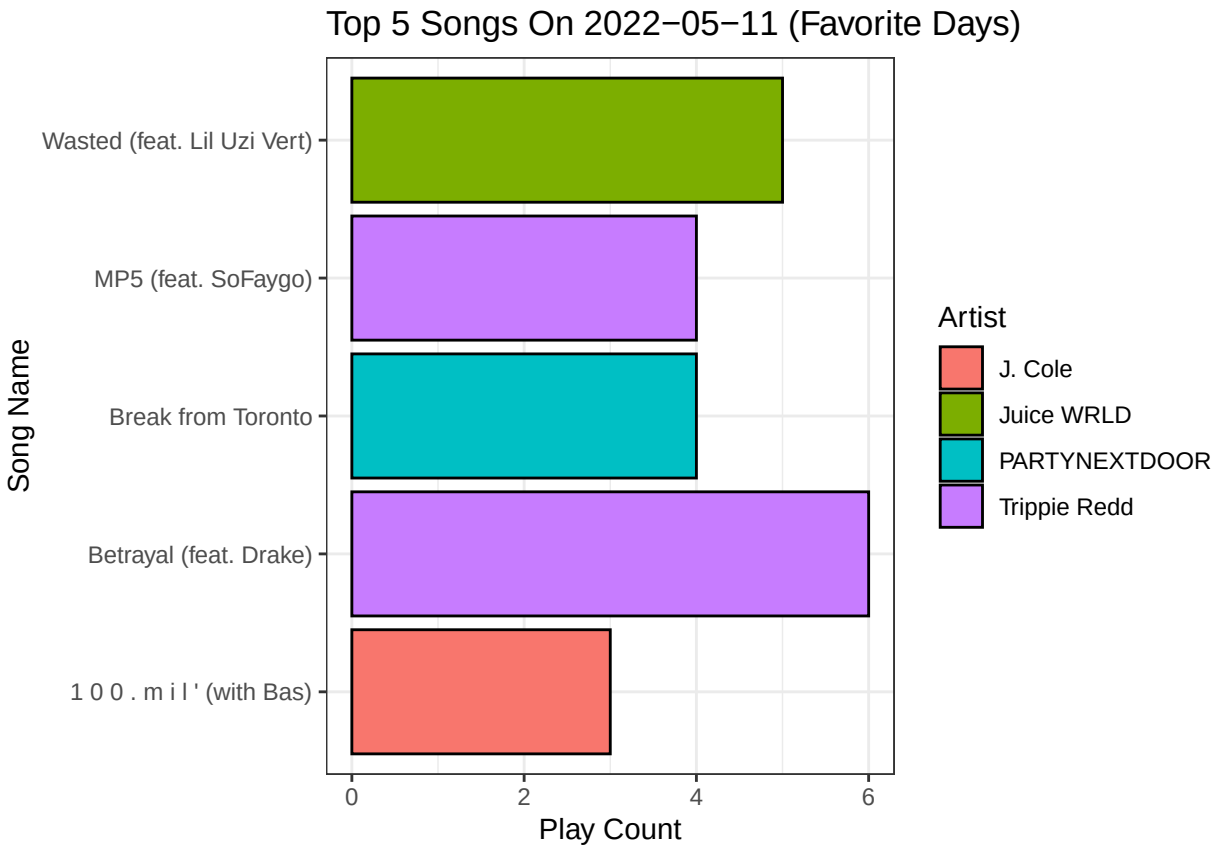
```
significant_dates <- c("2020-10-23", "2021-06-26", "2021-12-25", "2022-02-14",
                       "2022-05-11", "2022-07-10", "2022-09-07", "2022-11-12",
                       "2022-12-24", "2024-11-05", "2025-02-14", "2025-03-11")
significant_dates <- as.Date(significant_dates)

daily_songs <- streaming_data_2 %>%
    group_by(play_timestamp, song, artist) %>%
    summarize(daily_song_count = n(), .groups = "drop") %>%
    arrange(play_timestamp, desc(daily_song_count)) %>%
    group_by(play_timestamp) %>%
    slice_head(n = 5)

for (sig_date in significant_dates) {
    sig_date_plot <- ggplot(daily_songs %>%
              filter(play_timestamp == sig_date),
           aes(x = daily_song_count, y = song, fill = artist)) +
        geom_bar(stat = "identity", position = "dodge", color = "black") +
        theme_bw() +
        labs(
            title = paste("Top 5 Songs On", as.Date(sig_date),
                          ifelse(
                              as.Date(sig_date) %in%
                                  as.Date(c("2021-06-26","2021-12-25",
                                            "2022-07-10", "2022-02-14",
                                            "2022-05-11","2025-02-14",
                                            "2025-03-11")),
                              "(Favorite Days)", "(Worst Days)")),
            y = "Song Name",
            x = "Play Count",
            fill = "Artist"
        )
    print(sig_date_plot)
    }
```

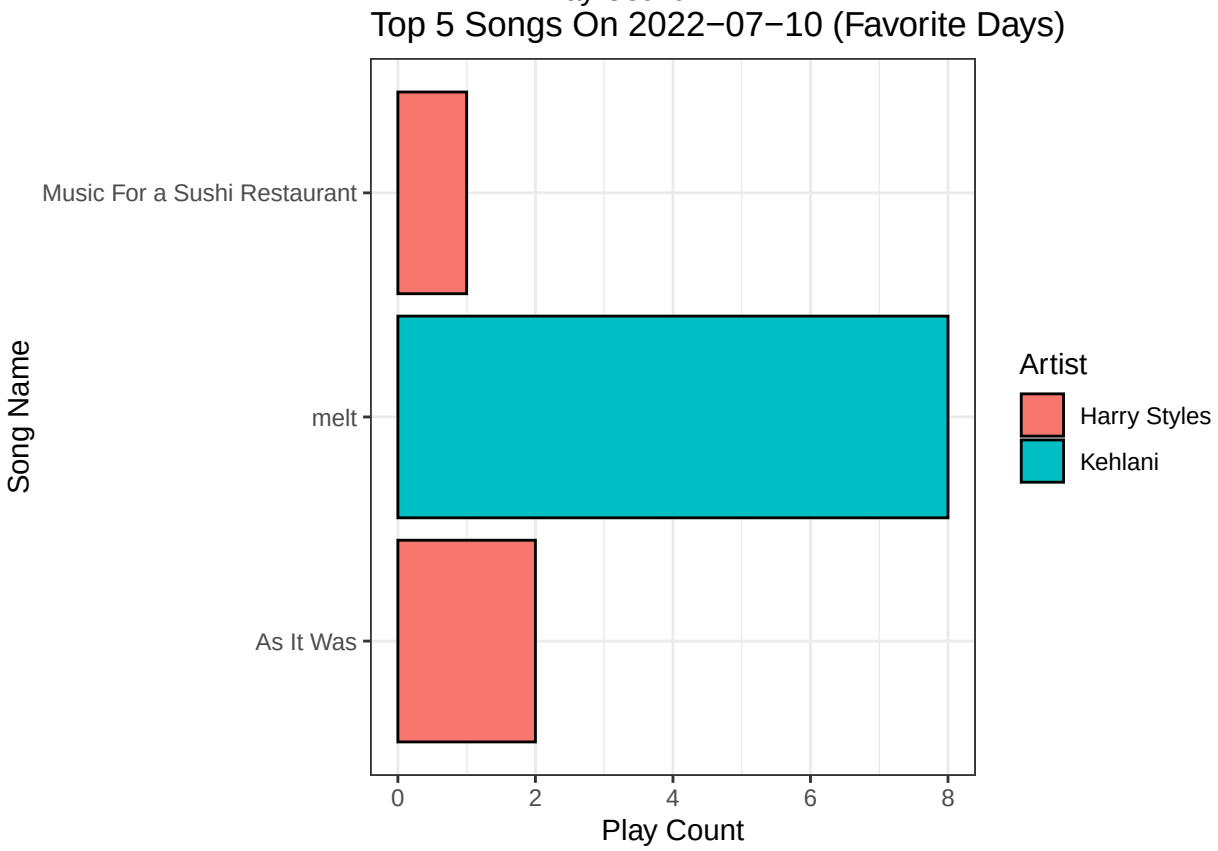

Top 5 Songs On 2020−10−23 (Worst Days)
Swoosh
Snitch
Lord Is Coming (feat. YBN Cordae)
Lately
FEEL.
Song Name
0
10
20
30
Play Count
Artist
GoldLink
H.E.R.
Joyner Lucas
Kendrick Lamar
Stevie Wonder

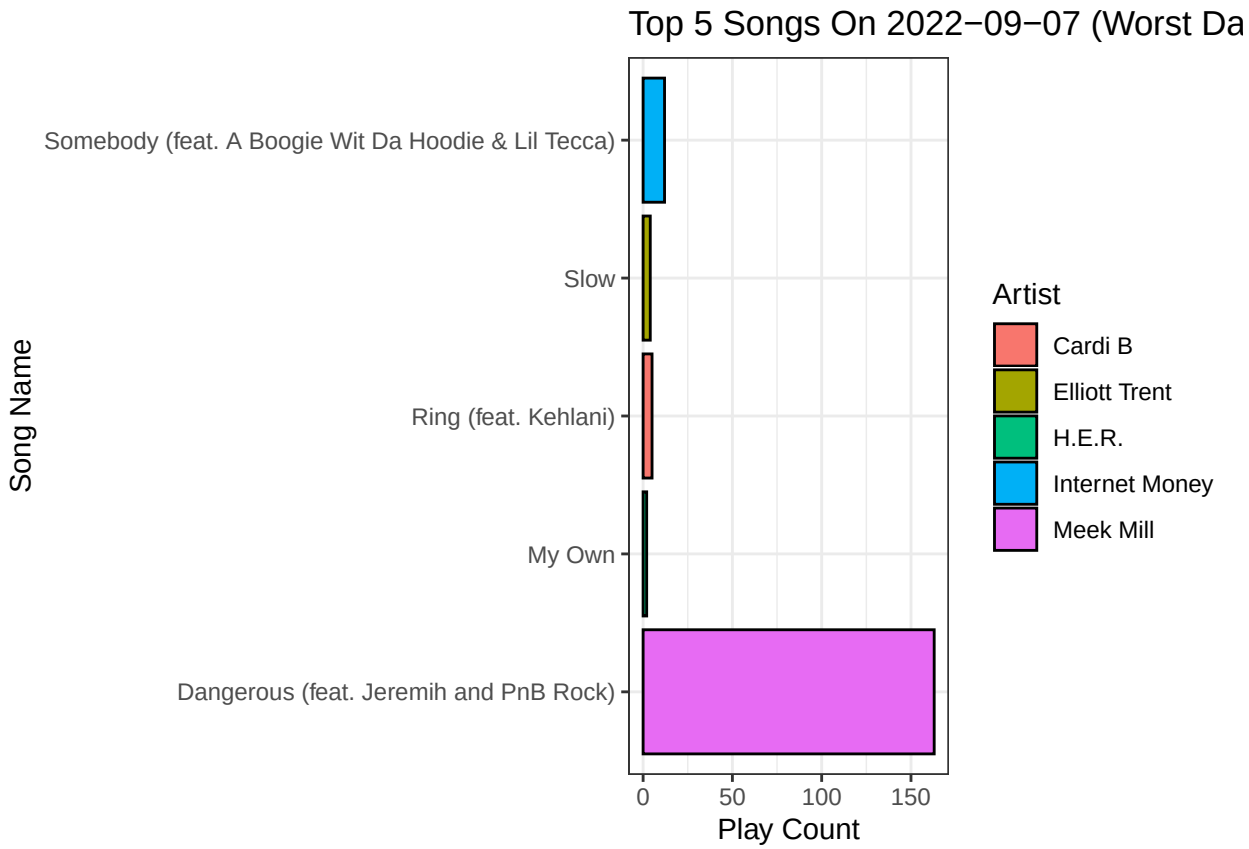

Top 5 Songs On 2021−06−26 (Favorite Days)
Worst Way
Lucky
Friends
Exhausted
Detox
Song Name
0.0
2.5
5.0
7.5
10.0
12.5
Play Count
Artist
H.E.R.
PnB Rock
TONYB.

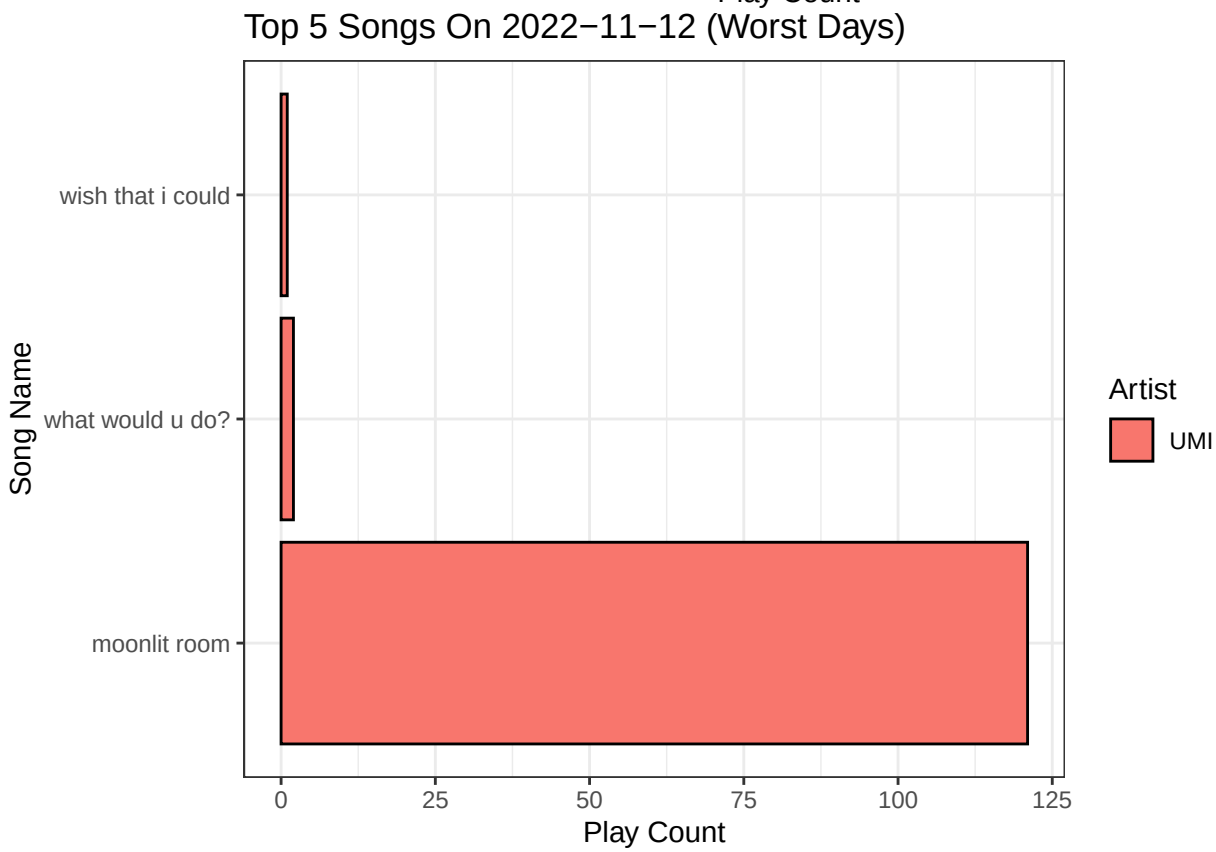

Top 5 Songs On 2021−12−25 (Favorite Days)
Song Name
My Whole Life
0.00
0.25
0.50
0.75
1.00
Play Count
Artist
Alina Baraz

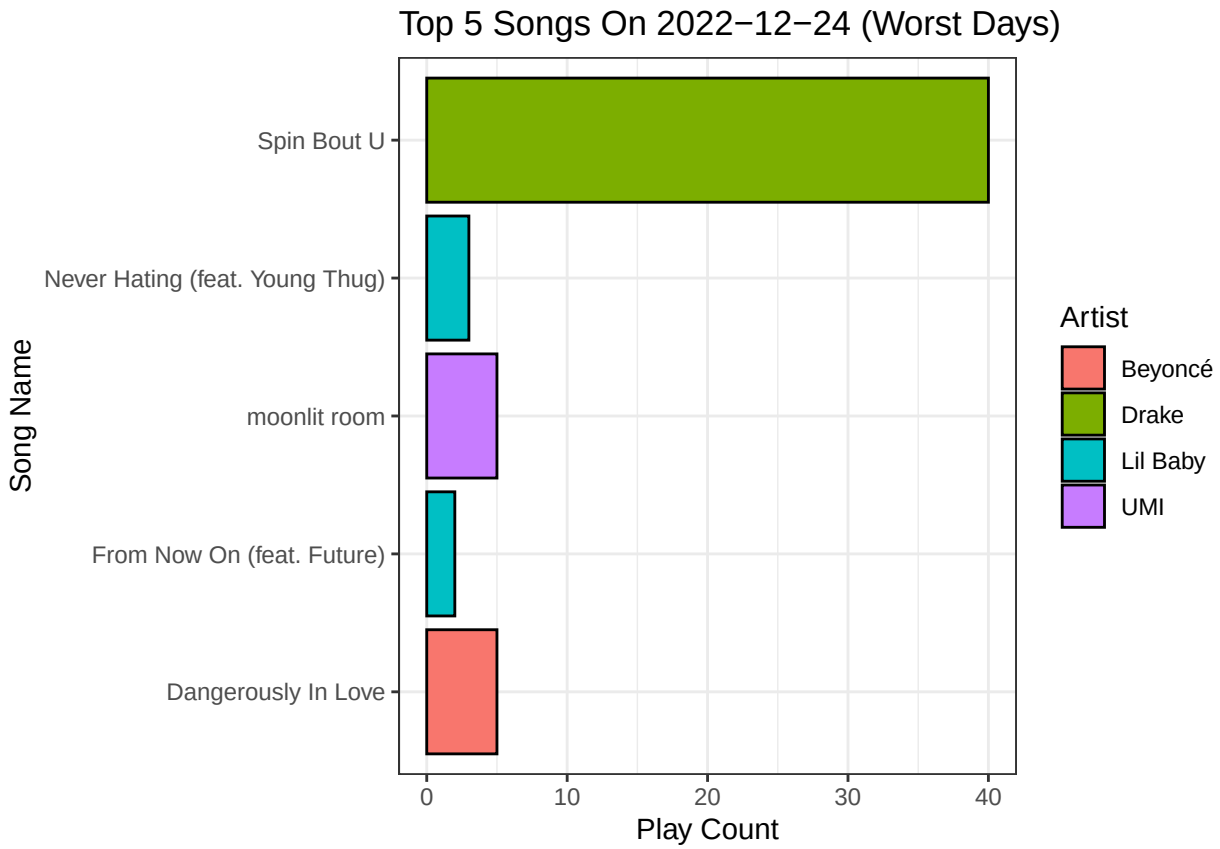

Top 5 Songs On 2022−02−14 (Favorite Days)
Song Name
We Made It
Lucky
Find A Way (feat. Lil Baby)
Exhausted
Bloody Waters
0
5
10
15
20
25
Play Count
Artist
H.E.R.

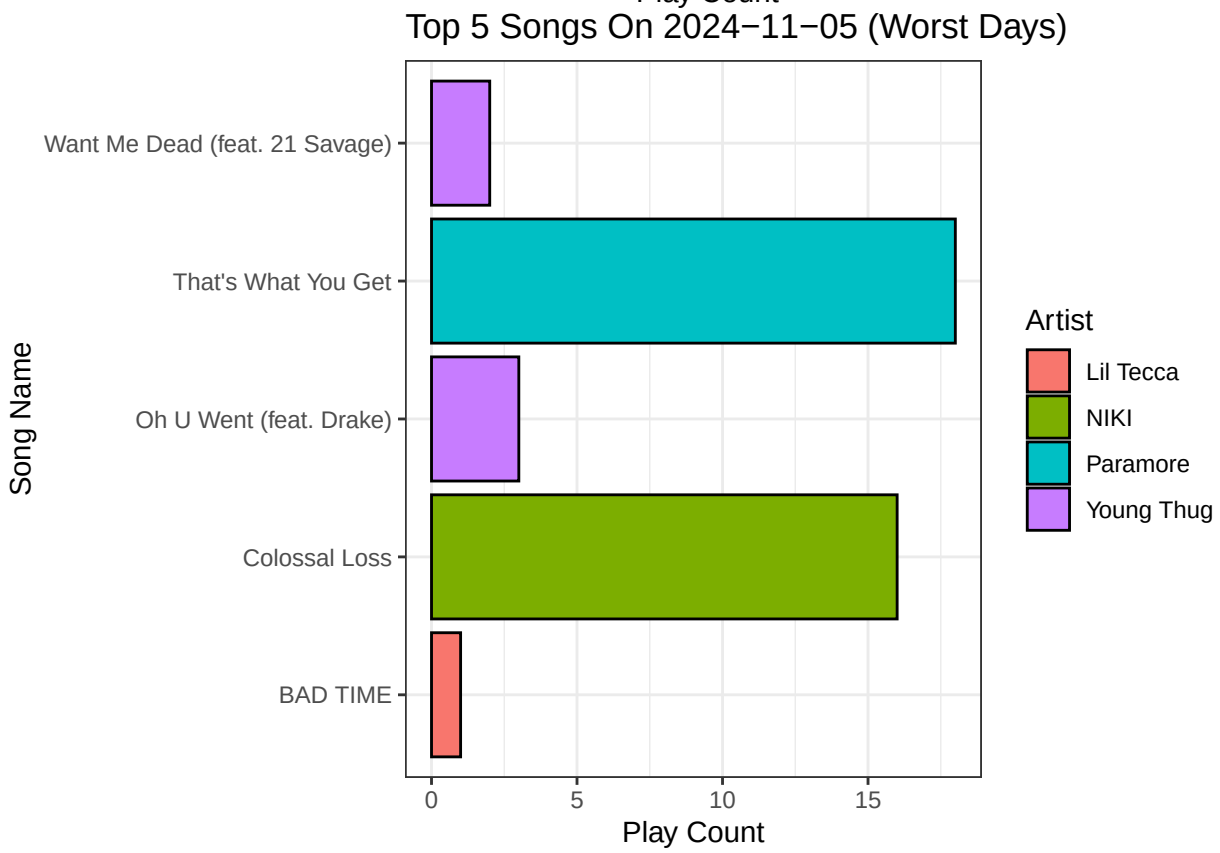

Top 5 Songs On 2022−05−11 (Favorite Days)
Wasted (feat. Lil Uzi Vert)
MP5 (feat. SoFaygo)
Break from Toronto
Betrayal (feat. Drake)
1 0 0 . m i l ' (with Bas)
Song Name
0
2
4
6
Play Count
Artist
J. Cole
Juice WRLD
PARTYNEXTDOOR
Trippie Redd

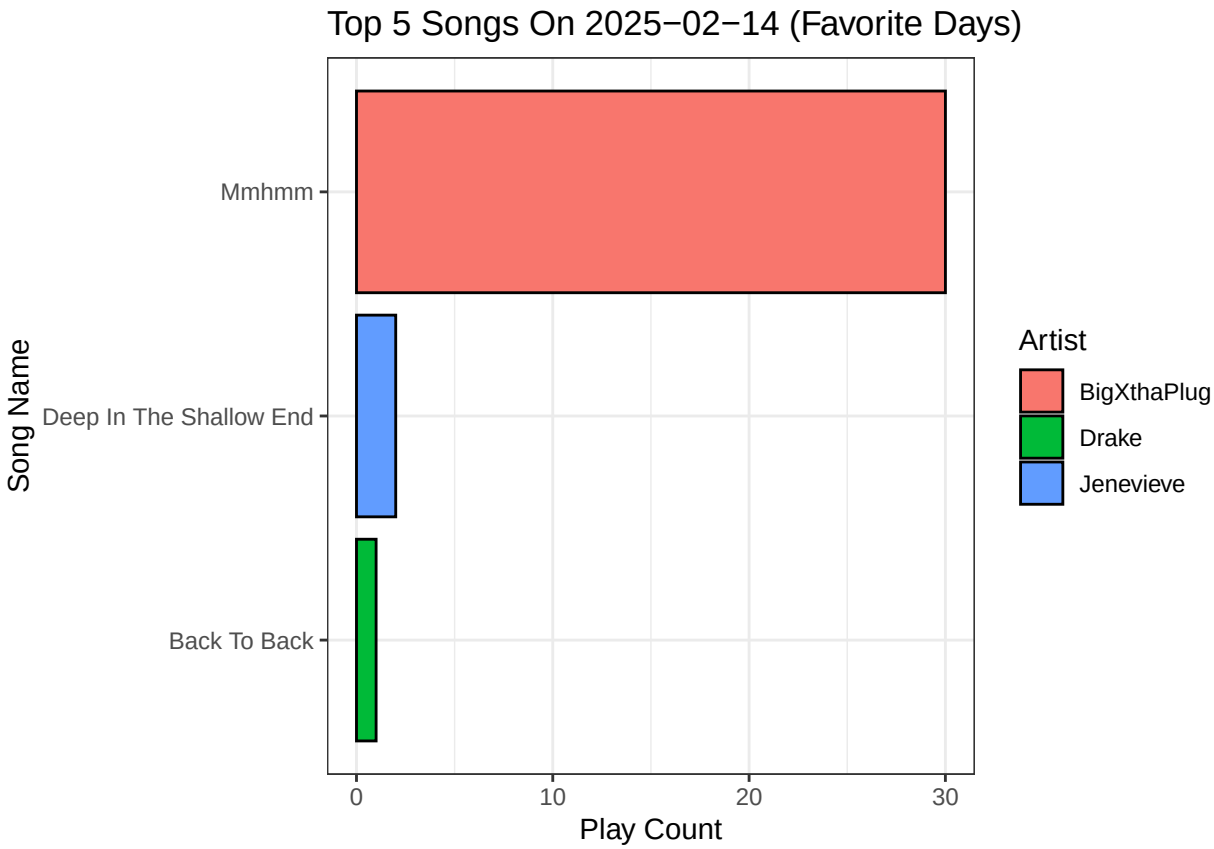

Top 5 Songs On 2022−07−10 (Favorite Days)
Music For a Sushi Restaurant
melt
As It Was
Song Name
0
2
4
6
8
Play Count
Artist
Harry Styles
Kehlani

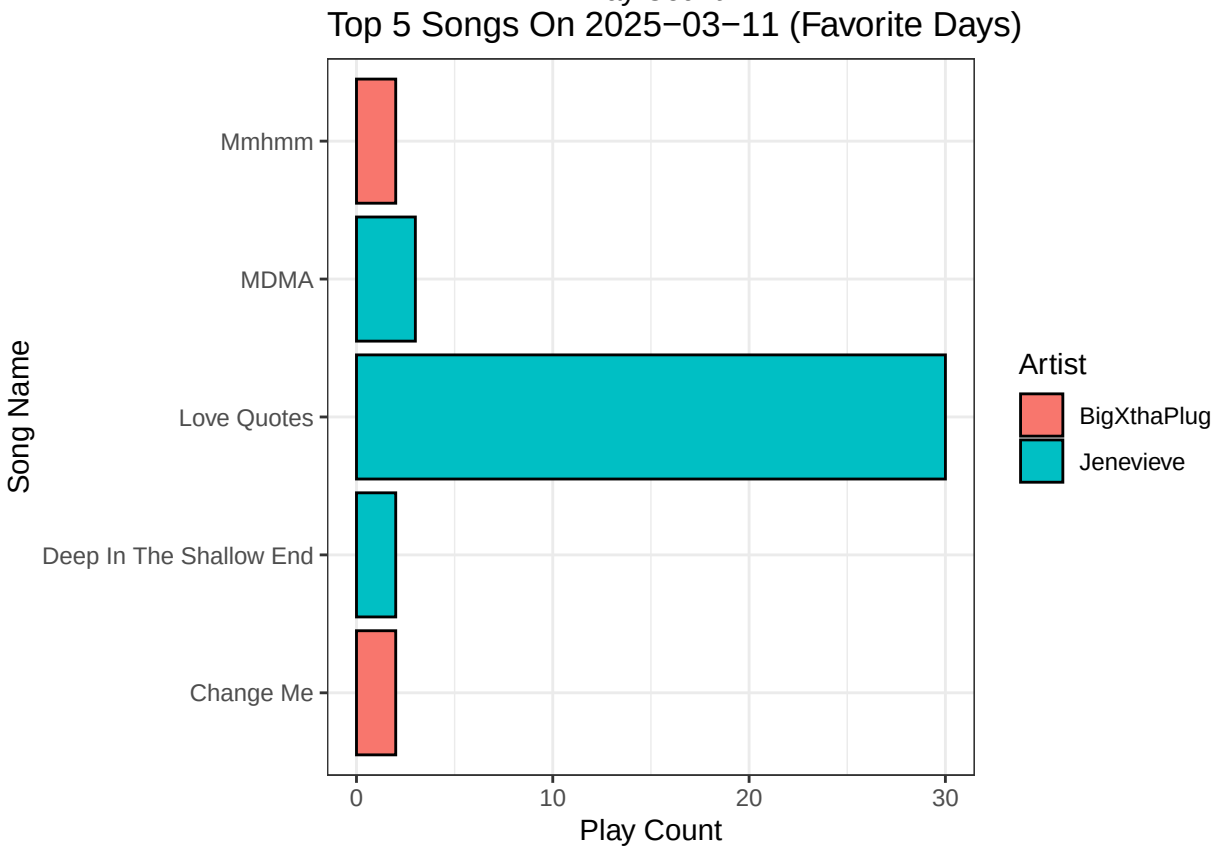

Top 5 Songs On 2022−09−07 (Worst Da
Somebody (feat. A Boogie Wit Da Hoodie & Lil Tecca)
Slow
Ring (feat. Kehlani)
My Own
Dangerous (feat. Jeremih and PnB Rock)
Song Name
0
50
100
150
Play Count
Artist
Cardi B
Elliott Trent
H.E.R.
Internet Money
Meek Mill


Top 5 Songs On 2022−11−12 (Worst Days)
wish that i could
what would u do?
moonlit room
Song Name
0
25
50
75
100
125
Play Count
Artist
UMI


Top 5 Songs On 2022−12−24 (Worst Days)
Spin Bout U
Never Hating (feat. Young Thug)
moonlit room
From Now On (feat. Future)
Dangerously In Love
Song Name
0
10
20
30
40
Play Count
Artist
Beyoncé
Drake
Lil Baby
UMI


Top 5 Songs On 2024−11−05 (Worst Days)
Want Me Dead (feat. 21 Savage)
That's What You Get
Oh U Went (feat. Drake)
Colossal Loss
BAD TIME
Song Name
0
5
10
15
Play Count
Artist
Lil Tecca
NIKI
Paramore
Young Thug


Top 5 Songs On 2025−02−14 (Favorite Days)
Song Name
Mmhmm
Deep In The Shallow End
Back To Back
0
10
20
30
Play Count
Artist
BigXthaPlug
Drake
Jenevieve


Top 5 Songs On 2025−03−11 (Favorite Days)
Song Name
Mmhmm
MDMA
Love Quotes
Deep In The Shallow End
Change Me
0
10
20
30
Play Count
Artist
BigXthaPlug
Jenevieve