Tables

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5/10/2018

```
library(tidyverse)
```

```
## -- Attaching packages --------------------------------- tidyverse 1.2.1 --
```

```
## ✓ ggplot2 2.2.1     ✓ purrr   0.2.4
## ✓ tibble  1.4.1     ✓ dplyr   0.7.4
## ✓ tidyr   0.7.2     ✓ stringr 1.2.0
## ✓ readr   1.1.1     ✓ forcats 0.2.0
```

```
## -- Conflicts ------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
library(devtools)
library(sm)
```

```
## Warning in fun(libname, pkgname): couldn't connect to display ":0"
```

```
## Package 'sm', version 2.2-5.5: type help(sm) for summary information
```

```
library(rgl)
```

```
## Warning in rgl.init(initValue, onlyNULL): RGL: unable to open X11 display
```

```
## Warning: 'rgl_init' failed, running with rgl.useNULL = TRUE
```

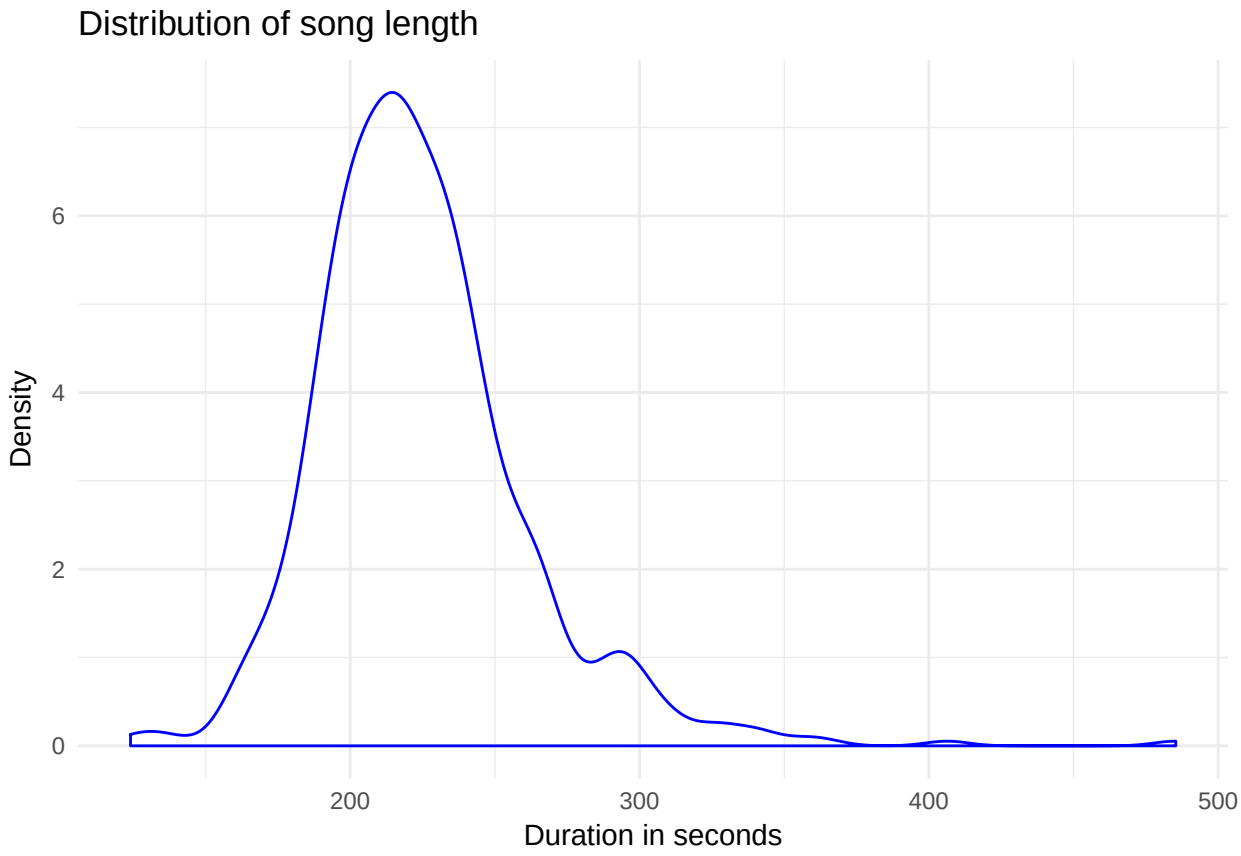
```
library(httr)
library(xtable)
install_github("calebmbrooks/Rspotify")
```

```
## Skipping install of 'Rspotify' from a github remote, the SHA1 (f23e1e0a) has not changed since last instal
##   Use `force = TRUE` to force installation
```

```
library(Rspotify)
```

```
topAllTime <- readRDS("data/topAllTime.rds")
probs <- c(0.1, 0.25, 0.5, 0.75, 0.9)
quantiles <- quantile(topAllTime$duration_ms, prob=probs)

topAllTime %>%
  mutate(duration_s = duration_ms/1000) %>%
  ggplot(aes(x = duration_s))+
  geom_density(color = "Blue", aes(y = ..count..))+
  labs(title = "Distribution of song length", x = "Duration in seconds", y = "Density")+
  theme_minimal()
```




```
t1 <- topAllTime %>%
  group_by(artist) %>%
  summarise(numberOfSongs = n(),
            meanRank = mean(rank),
            sumReverseRank = sum(rank_desc),
            sumReverseRankSq = sum(rank_desc_sq)) %>%
  arrange(desc(sumReverseRankSq)) %>%
  head(n = 20)

topAllTime %>%
  group_by(artist) %>%
  summarise(numberOfSongs = n()) %>%
  arrange(desc(numberOfSongs)) %>%
  head(n = 5) %>%
  summarise(sum = sum(numberOfSongs))
```

```
## # A tibble: 1 x 1
##     sum
##   <int>
## 1    58
```

```
topAllTime %>%
  group_by(artist) %>%
  summarise(avg_pos = (mean(rank)/(n()^2))) %>%
  arrange(avg_pos)
```

```
## # A tibble: 256 x 2
##    artist           avg_pos
```

```
##    <chr>              <dbl>
##  1 Calvin Harris       1.25
##  2 Ed Sheeran          1.29
##  3 Maroon 5            1.86
##  4 Drake               2.03
##  5 Coldplay            2.12
##  6 The Weeknd          2.53
##  7 The Chainsmokers    2.61
##  8 Ariana Grande       2.86
##  9 David Guetta        3.41
## 10 Luis Fonsi          3.62
## # ... with 246 more rows
```

```
t2 <- topAllTime %>%
  select(tracks, artist, rank) %>%
  arrange(rank) %>%
  head(n = 20)

t3 <- topAllTime %>%
  group_by(mode) %>%
  summarise(numTracks = n()) %>%
  arrange(desc(numTracks))

topAllTime %>%
  filter(time_signature == 5)
```

```
##           tracks                      id popularity         artist
## 1     Chandelier 2s1sdSqGcKxpPr5lCl7jAV         71            Sia
## 2      The Hills 25khomWgBVamSdKw7hzm3l         76     The Weeknd
## 3    Locked Away 7x5xYW5W42OGPAdHUyyguy         71        R. City
## 4           Gold 6ZSO7kPn8IMJFymyticbJO         74         Kiiara
## 5 Safe and Sound 1fzJyTCKeZuTSLByCsLRHl         13 Capital Cities
##                 artist_full              artistId
## 1                       Sia 5WUlDfRSoLAfcVSX1WnrxN
## 2                The Weeknd 1Xyo4u8uXC1ZmMpatF05PJ
## 3 R. City feat. Adam Levine 4TH4BHy0LdBi3dpBW4P2UX
## 4                   Kiiara 4u5smJBskI6Adzv08PuiUP
## 5           Capital Cities 4gwpcMTbLWtBUlOijbVpuu
##                                album                albumId danceability
## 1 1000 Forms Of Fear (Deluxe Version) 6FdNvoO5sF4EKwCX9je1MH        0.399
## 2           Beauty Behind The Madness 28ZKQMoNBBOetKXZ97G2SN        0.356
## 3             What Dreams Are Made Of 4AUTMNSP56xicSznzKgzjB        0.509
## 4                      low kii savage 2EvTMiJyF3H4BoxNCL4HLh        0.600
## 5          In A Tidal Wave Of Mystery 0oGhveAbsimFjFVF5aIkjW        0.655
##   energy key loudness mode speechiness acousticness instrumentalness
## 1  0.787   1   -2.880    1      0.0499     0.019700         6.07e-05
## 2  0.567   0   -7.011    0      0.0798     0.086100         0.00e+00
## 3  0.671   1   -5.709    1      0.0678     0.304000         0.00e+00
## 4  0.412   8   -9.343    1      0.3440     0.615000         2.50e-03
## 5  0.819   0   -4.852    1      0.0316     0.000176         3.74e-03
##   liveness valence   tempo duration_ms time_signature
## 1   0.0685   0.572 117.089      216120              5
## 2   0.1370   0.109 135.553      242253              5
## 3   0.0452   0.550 118.413      227480              5
## 4   0.1340   0.408 113.049      225882              5
```

```
## 5   0.1040   0.766 117.956      192790              5
##                                  uri
## 1 spotify:track:2s1sdSqGcKxpPr5lCl7jAV
## 2 spotify:track:25khomWgBVamSdKw7hzm3l
## 3 spotify:track:7x5xYW5W42OGPAdHUyyguy
## 4 spotify:track:6ZSO7kPn8IMJFymyticbJO
## 5 spotify:track:1fzJyTCKeZuTSLByCsLRHl
##                                                    analysis_url rank
## 1 https://api.spotify.com/v1/audio-analysis/2s1sdSqGcKxpPr5lCl7jAV   53
## 2 https://api.spotify.com/v1/audio-analysis/25khomWgBVamSdKw7hzm3l   54
## 3 https://api.spotify.com/v1/audio-analysis/7x5xYW5W42OGPAdHUyyguy  134
## 4 https://api.spotify.com/v1/audio-analysis/6ZSO7kPn8IMJFymyticbJO  179
## 5 https://api.spotify.com/v1/audio-analysis/1fzJyTCKeZuTSLByCsLRHl  195
##   rank_desc rank_desc_sq cluster
## 1       503       253009       3
## 2       502       252004       8
## 3       422       178084       4
## 4       377       142129       1
## 5       361       130321       5
```

```
topAllTime %>%
  filter(time_signature == 3)
```

```
##                                                                    tracks
## 1                                                                 Perfect
## 2 Earned It (Fifty Shades Of Grey) - From The "Fifty Shades Of Grey" Soundtrack
## 3                                                        Dangerous Woman
## 4                                                 Like I'm Gonna Lose You
## 5                                                            In The Night
## 6                                                          Say Something
## 7                                                                   Dive
##                        id popularity            artist
## 1 0tgVpDi06FyKpA1z0VMD4v         92        Ed Sheeran
## 2 2PIvq1pGrUjY007X5y1UpM         75        The Weeknd
## 3 7l94dyN2hX9c6wWcZQuOGJ         72     Ariana Grande
## 4 2YlZnw2ikdb837oKMKjBkW         81    Meghan Trainor
## 5 25KybV9BOUlvcnv7nN3Pyo         69        The Weeknd
## 6 6Vc5wAMmXdKIAM7WUoEb7N         78 A Great Big World
## 7 51ChrwmUPDJvedPQnIU8Ls         82        Ed Sheeran
##                                  artist_full               artistId
## 1                                Ed Sheeran 6eUKZXaKkcviH0Ku9w2n3V
## 2                                The Weeknd 1Xyo4u8uXC1ZmMpatF05PJ
## 3                             Ariana Grande 66CXWjxzNUsdJxJ2JdwvnR
## 4          Meghan Trainor feat. John Legend 6JL8zeS1NmiOftqZTRgdTz
## 5                                The Weeknd 1Xyo4u8uXC1ZmMpatF05PJ
## 6 A Great Big World feat. Christina Aguilera 5xKp3UyavIBUsGy3DQdXeF
## 7                                Ed Sheeran 6eUKZXaKkcviH0Ku9w2n3V
##                                                                    album
## 1                                                                ÷ (Deluxe)
## 2 Earned It (Fifty Shades Of Grey) [From The "Fifty Shades Of Grey" Soundtrack]
## 3                                                        Dangerous Woman
## 4                                                         Title (Deluxe)
## 5                                                  Beauty Behind The Madness
## 6                                                Is There Anybody Out There?
## 7                                                                ÷ (Deluxe)
```

```
##                  albumId danceability energy key loudness mode speechiness
## 1 3T4tUhGYeRNVUGevb0wThu        0.599  0.448   8   -6.312    1      0.0232
## 2 61Ba3txRZWfiX6ZTEZlFCV        0.664  0.371   2   -5.959    0      0.0306
## 3 3OZgEywV4krCZ814pTJWr7        0.672  0.605   7   -5.353    1      0.0378
## 4 5W98Ab4VvQEuFEE4TIe5fE        0.630  0.530   0   -7.259    1      0.0434
## 5 0P3oVJBFOv3TDXlYRhGL7s        0.317  0.683   7   -4.989    1      0.1340
## 6 1yOcLa4euMk9sV7rRJ89Dl        0.407  0.147   2   -8.822    1      0.0355
## 7 3T4tUhGYeRNVUGevb0wThu        0.761  0.386   4   -6.158    1      0.0399
##   acousticness instrumentalness liveness valence   tempo duration_ms
## 1       0.1630         0.00e+00   0.1060  0.1680  95.050      263400
## 2       0.4040         0.00e+00   0.0971  0.4290 119.950      252227
## 3       0.0499         0.00e+00   0.3570  0.2970 134.015      235947
## 4       0.4000         0.00e+00   0.1770  0.4170 108.038      225053
## 5       0.0794         0.00e+00   0.0465  0.5380 167.615      235653
## 6       0.8570         2.89e-06   0.0913  0.0765 141.284      229400
## 7       0.3550         0.00e+00   0.0953  0.5260 134.943      238440
##   time_signature                                  uri
## 1              3 spotify:track:0tgVpDi06FyKpA1z0VMD4v
## 2              3 spotify:track:2PIvq1pGrUjY007X5y1UpM
## 3              3 spotify:track:7l94dyN2hX9c6wWcZQuOGJ
## 4              3 spotify:track:2YlZnw2ikdb837oKMKjBkW
## 5              3 spotify:track:25KybV9BOUlvcnv7nN3Pyo
## 6              3 spotify:track:6Vc5wAMmXdKIAM7WUoEb7N
## 7              3 spotify:track:51ChrwmUPDJvedPQnIU8Ls
##                                                 analysis_url rank
## 1 https://api.spotify.com/v1/audio-analysis/0tgVpDi06FyKpA1z0VMD4v   85
## 2 https://api.spotify.com/v1/audio-analysis/2PIvq1pGrUjY007X5y1UpM   98
## 3 https://api.spotify.com/v1/audio-analysis/7l94dyN2hX9c6wWcZQuOGJ  214
## 4 https://api.spotify.com/v1/audio-analysis/2YlZnw2ikdb837oKMKjBkW  255
## 5 https://api.spotify.com/v1/audio-analysis/25KybV9BOUlvcnv7nN3Pyo  323
## 6 https://api.spotify.com/v1/audio-analysis/6Vc5wAMmXdKIAM7WUoEb7N  357
## 7 https://api.spotify.com/v1/audio-analysis/51ChrwmUPDJvedPQnIU8Ls  514
##   rank_desc rank_desc_sq cluster
## 1       471       221841       4
## 2       458       209764       4
## 3       342       116964       9
## 4       301        90601      10
## 5       233        54289       5
## 6       199        39601       1
## 7        42         1764       4
```

```
contPreds <- c(9,10,12,14,15,16,17,18)
clusters <- kmeans(topAllTime[contPreds], 10)

clusters$cluster
```

```
##   [1]  6  5  5  6  5  4  2  3  1 10 10 10  1  9  1  3  1  5  8  5  5  2  8
##  [24] 10  1  6  5  1 10  5  1  5  5 10  2  4 10  8  1  4  9  8  8  8  4  4
##  [47]  1  5  2 10  4 10  6 10 10 10  8  9  1  4  1  5  1  5  2  1  2  8  7
##  [70]  2  5  2  6 10  4 10  2 10  5  1  2  4  4 10 10  1  8  1  8 10 10 10
##  [93]  8  4  1  2  9  5  2  4  5  4  4  5  5  4  5  3  5  1  1  4  2  4  8
## [116]  4 10  5 10  5  5  2  2  4  1  9  4  4  9  4  5  5  4  5  1  3  5  1
## [139] 10  8  5  1 10  4 10  1 10  4  4  4  1  4  1 10  8  8 10  4  4  2  4
## [162]  1  2  9  4  8  6  2  1 10  1  1  5  7  9  4  4  9  9  5  4  8  9  8
## [185]  2  2  1  9 10  9  1  2  9 10  2  9  8  6  2  1  5  2  8  4  9  5  2
```

```
## [208]  1 10 10  1 10  4  1  2  1  1  1  4  4  9  4  6 10  2 10  1  5  2  1
## [231]  3  1  8  1  3  9 10 10  5  5  1  2  8  4  1  2  9  2  1  6  2  1  5
## [254]  1  8 10 10  4  3  8  6  4  1  1  5  8  1  5  4  1  6  2  1 10  4 10
## [277]  8  5 10  4  2  2  1  9  5  5  5  1  2  2 10  5  5  6  2  5  3  8  6
## [300]  6  5  5 10  6  9  4  2  5  1 10  6  2  6  4  4 10 10  4  8  6  1  6
## [323]  1  5  8 10  2  7  9  8 10  6  7  4  7 10  6  6  4  1  6  6  1  6  4
## [346]  2  5  2  1  9  9  9  8  4 10  2  9  3  8 10  4  6  5  6  2  8 10 10
## [369]  3  4  5 10  9  5  8  9  1  1  8  2  3  1  4 10  4  2  3  2  6  5  6
## [392]  5  2  8  3  5  3  9  1  6  2  5  5  4  1  4  5  5  1  1  1  7  8  2
## [415] 10  9  4  6  8  8  2  8 10  2  9  1  9  1  5  6  8  1  9  5  6  8  8
## [438]  4  5  5  5 10  5  1  9  2  8  9  2 10  1  9 10  6  5  1  4  1  4  9
## [461]  2  6  5  1  6  6  4 10  5  5 10  9  6 10  5  1 10  4  6  1  1 10  2
## [484]  5  1  8  4  1  2  8  1  4  9 10  4  2  4 10  2  4  4  5 10  2  8  8
## [507]  8  5  4  5 10  1  4  5  8  1  6  4  2  1  8  5  4  2  5  6  5  3  9
## [530] 10  2  9  8  2  2  4  8  2  5  8  9  6  8  2  1  2  3  2  2 10  5  4
## [553]  7  6  1
```

```
topAllTime <- topAllTime %>%
  mutate(cluster = clusters$cluster)

saveRDS(topAllTime, "data/topAllTime.rds")

smaller <- select(topAllTime, tracks, artist, cluster)

topAllTime %>%
  filter(tempo < 89 | tempo > 125)
```

```
##                                                                    tracks
## 1                                                        Thinking Out Loud
## 2                                                        Despacito - Remix
## 3                                                        Don't Let Me Down
## 4                                                                rockstar
## 5                                                                 Starboy
## 6                                                        What Do You Mean?
## 7                                                             Stressed Out
## 8                                      Despacito (Featuring Daddy Yankee)
## 9                                                  Say You Won't Let Go
## 10                                                             Stitches
## 11                                                                Hello
## 12                                                   Take Me to Church
## 13                                                                Work
## 14                                                             HUMBLE.
## 15                                                   Treat You Better
## 16                                                        Stay With Me
## 17                                     See You Again (feat. Charlie Puth)
## 18                                                            Let Her Go
## 19                                                       Hotline Bling
## 20                                   Where Are Ü Now (with Justin Bieber)
## 21                                                               Panda
## 22                                                         I'm the One
## 23                                                       XO TOUR Llif3
## 24                                                        Radioactive
## 25                                                          The Hills
## 26                                                  That's What I Like
## 27                          Love Me Like You Do - From "Fifty Shades Of Grey"
```

```
## 28                                                                  Ride
## 29                                                   In the Name of Love
## 30                                                              Thunder
## 31                                       Can't Hold Us - feat. Ray Dalton
## 32                                                          Side To Side
## 33                                                            Trap Queen
## 34                                         Happy - From "Despicable Me 2"
## 35                                                             Mask Off
## 36                                                            Bang Bang
## 37                                                           Dark Horse
## 38                                                               Summer
## 39                                                     Never Forget You
## 40                                                           I See Fire
## 41                                                              Pompeii
## 42                                                                 Rude
## 43                                                    Shut Up and Dance
## 44                                                               Timber
## 45                                                            Fake Love
## 46                                                             No Money
## 47                                                  I'm Not The Only One
## 48                                                    Castle on the Hill
## 49                                                                Blame
## 50                                                   All About That Bass
## 51                                   GDFR (feat. Sage The Gemini & Lookas)
## 52                                                               Royals
## 53                                                              Outside
## 54                                                            El Perdón
## 55                                                         Black Beatles
## 56                                                      Waiting For Love
## 57                                                       FourFiveSeconds
## 58                                                            Break Free
## 59                                                          Good For You
## 60                          Hey Mama (feat. Nicki Minaj, Bebe Rexha & Afrojack)
## 61                                                               Animals
## 62                                                         Elastic Heart
## 63                                                  Titanium (feat. Sia)
## 64                                                          Drag Me Down
## 65                                                               Jumpman
## 66                                                  Locked Out Of Heaven
## 67                                                                  Burn
## 68                                                  Heroes (we could be)
## 69                                  Five More Hours - Deorro x Chris Brown
## 70                                                         We Found Love
## 71                                                            On My Mind
## 72                                                       Ni**as In Paris
## 73                                                              Budapest
## 74                                         Bad (feat. Vassy) - Radio Edit
## 75                                                                Ho Hey
## 76                                                 679 (feat. Remy Boyz)
## 77                                                       Runaway (U & I)
## 78                                                         White Iverson
## 79                                                      Do I Wanna Know?
## 80                                                         One Last Time
## 81                                       Send My Love (To Your New Lover)
```

```
## 82                                                    Somebody That I Used To Know
## 83                                                             When I Was Your Man
## 84                                                                    Hall of Fame
## 85                                                                        Mirrors
## 86                                                 Don't You Worry Child - Radio Edit
## 87                                                Lose Yourself - Soundtrack Version
## 88                                                                Someone Like You
## 89                                                                       Cool Kids
## 90                                                                      The Nights
## 91                                                                 Dangerous Woman
## 92                                                                        Trumpets
## 93                                 We Are Young (feat. Janelle Monáe) - feat. Janelle Monae
## 94                                                             Love The Way You Lie
## 95                                                                       I'm Yours
## 96                                                                     Black Widow
## 97                                                                       Centuries
## 98                                                         Wiggle (feat. Snoop Dogg)
## 99                                                                    We Can't Stop
## 100                        Moves Like Jagger - Studio Recording From The Voice Performance
## 101                                                             You Know You Like It
## 102                                                                      The A Team
## 103                                                         Watch Me (Whip / Nae Nae)
## 104                                                                   Drunk in Love
## 105                                                                        Geronimo
## 106                                                                 Pumped Up Kicks
## 107                                                                            7/11
## 108                                                                   The Scientist
## 109                                                                         Fix You
## 110                                                                      Don't Mind
## 111                                                                 'Till I Collapse
## 112                                                                I'm an Albatraoz
## 113                                                                     Viva La Vida
## 114                                                                   Mr. Brightside
## 115                                                                        Broccoli
## 116                                                                            Halo
## 117                                                                 Money On My Mind
## 118                                                                        La La La
## 119                                       I Love It (feat. Charli XCX) - Original Version
## 120                                                                      Wonderwall
## 121     Summertime Sadness (Lana Del Rey Vs. Cedric Gervais) - Cedric Gervais Remix / Radio Edit
## 122                                                                        Paradise
## 123                                                                    Danza Kuduro
## 124                                                                   Lips Are Movin
## 125                                                                     Skinny Love
## 126                                                                       Renegades
## 127                                                                     Sex on Fire
## 128                                                                           Often
## 129                                                                   Scream & Shout
## 130                                                                         Rap God
## 131                                                                    I'll Show You
## 132                                                                Levels - Radio Edit
## 133 Sucker For Pain (with Wiz Khalifa, Imagine Dragons, Logic & Ty Dolla $ign feat. X Ambassadors)
## 134                                                                       Starships
## 135                                                                    Under Control
```

```
## 136                                                                  Sweet Nothing
## 137                                                                     Holy Grail
## 138                                                          Wild Ones (feat. Sia)
## 139                                                                       Low Life
## 140                                                     Feel So Close - Radio Edit
## 141                                                 Hey Ya! - Radio Mix / Club Mix
## 142                                                                   In The Night
## 143                                                                    I Will Wait
## 144                                                                         Yellow
## 145                                                             Animals - Extended
## 146                                                                   Skinny Love
## 147                                                                Under The Bridge
## 148                 Free Fallin' - Live at the Nokia Theatre, Los Angeles, CA - December 2007
## 149                                                              Gangnam Style (   )
## 150                                                                         Famous
## 151                                                         What Makes You Beautiful
## 152                                                               Give Me Everything
## 153                                                                    Glad You Came
## 154                                                                    The Greatest
## 155                                                                  Ain't My Fault
## 156                                                                           Alarm
## 157                                                                        You & Me
## 158                                                                           Mercy
## 159                                                                   Say Something
## 160                                                                       Let It Go
## 161                                                              Hold Back The River
## 162                                                              Scared to Be Lonely
## 163                                                           Say It (feat. Tove Lo)
## 164                                                          iSpy (feat. Lil Yachty)
## 165                                                                        Location
## 166                                                                  Borro Cassette
## 167                                                                         No Type
## 168                                                 How Far I'll Go - From "Moana"
## 169                                                                        Redbone
## 170                                                                       El Amante
## 171                                                                            DNA.
## 172                                                                         Safari
## 173                                                                X (feat. Future)
## 174                                                Bad Things (with Camila Cabello)
## 175                                                                   La Bicicleta
## 176                                                                             2U
## 177                                                                   Tunnel Vision
## 178                                                           Make You Feel My Love
## 179                                                                Thinkin Bout You
## 180                                                                   Party Monster
## 181                                            Bad and Boujee (feat. Lil Uzi Vert)
## 182                                                              pick up the phone
## 183                                                                       Antidote
## 184                                                                     goosebumps
## 185                                                                    Bounce Back
## 186                                                          Wild Ones (feat. Sia)
## 187                                                            Sweet Child O' Mine
## 188                                                                          POWER
## 189                                                                         Malibu
```

```
## 190                                                                 Wet Dreamz
## 191                                                                      Swang
## 192                                                                 Ahora Dice
## 193                                                                    Silence
## 194                                                                I Fall Apart
## 195                                                                     Go Flex
## 196                                                                Green Light
## 197                                          All I Want for Christmas Is You
## 198                                                                   No Limit
## 199                                                                  I Mean It
## 200                                                                Bodak Yellow
## 201                                                         Crying in the Club
## 202                                           Drowning (feat. Kodak Black)
## 203                                                                Bank Account
## 204                                                          LOVE. FEAT. ZACARI.
## 205                                                  Look What You Made Me Do
## 206                                                                Shake It Off
## 207                                                         Young Dumb & Broke
## 208                                                               Feel It Still
## 209                                                                    Portland
## 210                                                                        3005
## 211                                                         Versace On The Floor
## 212                                                                Slow Hands
## 213                                                             Butterfly Effect
## 214                                           Glorious (feat. Skylar Grey)
## 215                                                                    Malibu
## 216                                                         Party In The U.S.A.
## 217                                                                All Night
## 218                                          Bad Things (with Camila Cabello)
## 219                                                                Fight Song
## 220                                               Dusk Till Dawn - Radio Edit
## 221                                                                    History
## 222                                                         Sit Still, Look Pretty
## 223                                                                Sorry Not Sorry
## 224                                                                Please Don't Go
## 225                                                               Shout Out to My Ex
## 226                                                                    Steal My Girl
## 227                                                The Heart Wants What It Wants
## 228                                                                 Money Longer
## 229                                                                You Was Right
## 230                                                                    Magnolia
## 231                                                Slippery (feat. Gucci Mane)
## 232                                                                      T-Shirt
## 233                                                               When We Were Young
## 234                                                                        Dive
## 235                                                                  Superheroes
## 236                                  My Songs Know What You Did In The Dark (Light Em Up)
## 237                                                I Write Sins Not Tragedies
## 238                                                                Let You Down
## 239                                                                  Se Preparó
## 240                                                                     Tú Foto
## 241                                                                   Criminal
## 242                                                                   Exchange
## 243                                                                God's Plan
```

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## 244                                          Meant to Be (feat. Florida Georgia Line)
## 245                                                                The Sound Of Silence
## 246                                                      Psycho (feat. Ty Dolla $ign)
## 247                                                                    Million Reasons
## 248                                       Sweet Dreams (Are Made of This) - Remastered
## 249                                                                       Love Me Again
## 250                                                              Him & I (with Halsey)
## 251                                                                               Mine
##                         id popularity                  artist
## 1   34gCuhDGsG4bRPIf9bb02f         85              Ed Sheeran
## 2   6rPO02ozF3bM7NnOV4h6s2         79              Luis Fonsi
## 3   0w75KG0DuLDi6tdHmEMovD         60        The Chainsmokers
## 4   1OmcAT5Y8eg5bUPv9qJT4R         67             Post Malone
## 5   7MXVkk9YMctZqd1Srtv4MB         80              The Weeknd
## 6   4B0JvthVoAAuygILe3n4Bs         72           Justin Bieber
## 7   3CRDbSIZ4r5MsZ0YwxuEkn         83       Twenty One Pilots
## 8   7CUYHcu0RnbOnMz4RuN07w         76              Luis Fonsi
## 9   5uCax9HTNlzGybIStD3vDh         85            James Arthur
## 10  3zkWCteF82vJwv0hRLba76         16            Shawn Mendes
## 11  4sPmO7WMQUAf45kwMOtONw         72                   Adele
## 12  0aOluBqXYd0rFSCsgDyAWX         75                  Hozier
## 13  4m6D70k5xMmCDCB19u7Bi0         55                 Rihanna
## 14  7KXjTSCq5nL1LoYtL7XAwS         84          Kendrick Lamar
## 15  1rtDwblY1CJ9i490fMzJnc         17            Shawn Mendes
## 16  4cdv3CQkDVZzZOKm0kaaZu          4               Sam Smith
## 17  7wqSzGeodspE3V6RBD5W8L         27             Wiz Khalifa
## 18  6GmUVqe73u5YRfUUynZK6I         73               Passenger
## 19  0wwPcA6wtMf6HUMpIRdeP7         73                   Drake
## 20  66hayvUbTotekKU3H4ta1f         78                  Jack Ü
## 21  5YEOzOojehCqxGQCcQiyR4         67               Desiigner
## 22  72Q0FQQo32KJloivv5xge2         32               DJ Khaled
## 23  2eMwDehkIC1j68U6FA3Eiq         39            Lil Uzi Vert
## 24  4G8gkOterJn0Ywt6uhqbhp         75         Imagine Dragons
## 25  25khomWgBVamSdKw7hzm3l         76              The Weeknd
## 26  0KKkJNfGyhkQ5aFogxQAPU         86              Bruno Mars
## 27  1ip2IGDWMrUmlaepEbWlL8         61          Ellie Goulding
## 28  2Z8WuEywRWYTKe1NybPQEW         82       Twenty One Pilots
## 29  23L5CiUhw2jV1OIMwthR3S         82           Martin Garrix
## 30  5VnDkUNyX6u5Sk0yZiP8XB         63         Imagine Dragons
## 31  3bidbhpOYeV4knp8AIu8Xn         83 Macklemore & Ryan Lewis
## 32  1pKeFVVUOPjFsOABub0OaV         77           Ariana Grande
## 33  2d8JP84HNLKhmd6IYOoupQ         74               Fetty Wap
## 34  3RkvscbM4aNbELiQf7PJwn         26       Pharrell Williams
## 35  3rOSwuTsUlJp0Pu0MkN8r8         32                  Future
## 36  0puf9yIluy9W0vpMEUoAnN         69                Jessie J
## 37  5jrdCoLpJSvHHorevXBATy         71              Katy Perry
## 38  7b71WsDLb8gG0cSyDTFAEW         26           Calvin Harris
## 39  6WLS56xiRrXjSm9RSdL3zD         22            Zara Larsson
## 40  5pY3ovFxbvAg7reGZjJQSp         30              Ed Sheeran
## 41  3gbBpTdY8lnQwqxNCcf795         70                Bastille
## 42  6RtPijgfPKROxEzTHNRiDp         75                  MAGIC!
## 43  4kbj5MwxO1bq9wjT5g9HaA         80           WALK THE MOON
## 44  3cHyrEgdyYRjgJKSOiOtcS         76                 Pitbull
## 45  6NMNgWgEAzde5M8U3lc6FN         14                   Drake
```

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## 46  0gb1J5UrTpzaU1s3nupgCd         75              Galantis
## 47  0fioLzGM8ngbD1w6fMmm45         75            Sam Smith
## 48  66qlqxhEMpSHOzjRK4il0b         72           Ed Sheeran
## 49  7EYWEwJyai7udNmqvRPsZM         19         Calvin Harris
## 50  0ifSeVGUr7py5GggttDhXw         69        Meghan Trainor
## 51  6N9ZOtguCnnrvwH7zD82WJ         66             Flo Rida
## 52  2dLLR6qlu5UJ5gk0dKz0h3         74                Lorde
## 53  7MmG8p0F9N3C4AXdK6o6Eb         74         Calvin Harris
## 54  7qCAVkHWZkF44OzOUKf8Cr         78             Nicky Jam
## 55  6fujklziTHa8uoM5OQSfIo         74          Rae Sremmurd
## 56  2P4OICZRVAQcYAV2JReRfj         77                Avicii
## 57  78TTtXnFQPzwqlbtbwqN0y         75               Rihanna
## 58  12KUFSHFgT0XCoiSlvdQi4         71         Ariana Grande
## 59  5XfywqPX6XBOdYQNbOaQvy         60          Selena Gomez
## 60  5b2bu6yyATC1zMXDGScJ2d         63          David Guetta
## 61  3vMCg2Odt8lUiPozDINUBf          6             Maroon 5
## 62  6kwAbEjseqBob48jCus7Sz         73                  Sia
## 63  0lHAMNU8RGiIObScrsRgmP         62          David Guetta
## 64  70OTIpw8x8UXUsuCHW9i1i         65          One Direction
## 65  27GmP9AWRs744SzKcpJsTZ         76                Drake
## 66  1qCdYQdkWvm4cYXAuOlbyc         49           Bruno Mars
## 67  0xMd5bcWTbyXS7wPrBtZA6         67        Ellie Goulding
## 68  3zU9rdflI65tK4dkkNSp77         65                Alesso
## 69  6YwLgicpvVuMt1eE2OldwQ         74                Deorro
## 70  0385HqYimoTQaHZP17KwG1         17         Calvin Harris
## 71  4nS1sut0R2mgmFitKIShVe         65        Ellie Goulding
## 72  2Zb7wnGUnNPCas2E0wWSQ5         15                 JAY Z
## 73  48gsLPdOUEDjr7P8Wvykne         63          George Ezra
## 74  6PtXobrqImYfnpIxNsJApa         67          David Guetta
## 75  5BSndweF91KDqyxANsZcQH         16         The Lumineers
## 76  5NQbUaeTEOGdD6hHcre0dZ         75             Fetty Wap
## 77  46lFttIf5hnUZMGvjK0Wxo         75              Galantis
## 78  2N0NifjyXAdMOB4KBGvBJ6         10           Post Malone
## 79  3jfr0TF6DQcOLat8gGn7E2         22        Arctic Monkeys
## 80  7xoUc6faLbCqZO6fQEYprd         75         Ariana Grande
## 81  4BHzQ9C00ceJxfG16AlNWb         72                 Adele
## 82  4wCmqSrbyCgxEXROQE6vtV         72                 Gotye
## 83  0nJW01T7XtvILxQgC5J7Wh         82            Bruno Mars
## 84  1X1DWw2pcNZ8zSub3uhlNz         71            The Script
## 85  03gqZZavMKhWbSjdQvpF6O         58      Justin Timberlake
## 86  2V65y3PX4DkRhy1djlxd9p         78    Swedish House Mafia
## 87  5ZO1UMMf7V1oOMzF86s6WJ         77                Eminem
## 88  4kflIGfjdZJW4ot2ioixTB         77                 Adele
## 89  13P5rwmk2EsoFRIz9UCeh9         71             Echosmith
## 90  0ct6r3EGTcMLPtrXHDvVjc         76                Avicii
## 91  7l94dyN2hX9c6wWcZQuOGJ         72         Ariana Grande
## 92  5KONnBIQ9LqCxyeSPin26k         71          Jason Derulo
## 93  7a86XRg84qjasly9f6bPSD         69                  fun.
## 94  15JINEqzVMv3SvJTAXAKED         73                Eminem
## 95  1EzrEOXmMH3G43AXT1y7pA         84            Jason Mraz
## 96  7pNC5ZIKtwUK0ReSpM3P9f         65           Iggy Azalea
## 97  04aAxqtGp5pv12UXAg4pkq         74          Fall Out Boy
## 98  2sLwPnIP3CUVmIuHranJZU         62          Jason Derulo
## 99  2y4lAQpi5VTNLu2ldeTdUH         77           Miley Cyrus
```

```
## 100 7LcfRTgAVTs5pQGEQgUEzN         69              Maroon 5
## 101 57kR5SniQIbsbVoIjjOUDa         66              DJ Snake
## 102 1VdZ0vKfR5jneCmWIUAMxK         78            Ed Sheeran
## 103 5RIVoVdkDLEygELLCniZFr         62               Silentó
## 104 5EmCpD8tUj78VW3kgaEjME         54               Beyoncé
## 105 2Pavqy0vPxGilGe0IIetdP         62              Sheppard
## 106 7w87IxuO7BDcJ3YUqCyMTT         83     Foster The People
## 107 02M6vucOvmRfMxTXDUwRXu         76               Beyoncé
## 108 75JFxkI2RXiU7L9VXzMkle         84              Coldplay
## 109 7LVHVU3tWfcxj5aiPFEW4Q         81              Coldplay
## 110 27PmvZoffODNFW2p7ehZTQ         70            Kent Jones
## 111 4xkOaSrkexMciUUogZKVTS         78                Eminem
## 112 5MhsZlmKJG6X5kTHkdwC4B         73             AronChupa
## 113 1mea3bSkSGXuIRvnydlB5b         79              Coldplay
## 114 7oK9VyNzrYvRFo7nQEYkWN         79            The Killers
## 115 0qy5D3OJre7SPJNMOL9I71         72                   DRAM
## 116 4JehYebiI9JE8sR8MisGVb         80               Beyoncé
## 117 0N6Bxsif1tT4vHz8tnkjzP         44             Sam Smith
## 118 1CcTBs5sc6tCvGXsULeqMy          3            Naughty Boy
## 119 3VZQshi4COChhXaz7cLP02         68              Icona Pop
## 120 4w7RuuQAVP0JXlAom3z1aC         58                  Oasis
## 121 6PUIzlqotEmPuBfjbwYWOB         69           Lana Del Rey
## 122 6nek1Nin9q48AVZcWs9e9D         78                Coldplay
## 123 2a1o6ZejUi8U3wzzOtCOYw         74               Don Omar
## 124 6gj08XDlv9Duc2fPOxUmVD         69          Meghan Trainor
## 125 4RL77hMWUq35NYnPLXBpih         77                   Birdy
## 126 0fYVliAYKHuPmECRs1pbRf         70            X Ambassadors
## 127 0ntQJM78wzOLVeCUAW7Y45         78            Kings of Leon
## 128 5SqSckut3FcoQKmGkMWgp1         70               The Weeknd
## 129 054ue8u2erwwGNgSIZLEPq         46                will.i.am
## 130 7xB3TwyZMOnKcF50RIXh5b         56                  Eminem
## 131 0SNIAtRCPVVLoGEPcuHSIc         62           Justin Bieber
## 132 5QjJgPU8AJeickx34f7on6         78                  Avicii
## 133 4dASQiO1Eoo3RJvt74FtXB         81                Lil Wayne
## 134 59RSrxkSKSixEWBAIvE5Wa         68              Nicki Minaj
## 135 352zfYbDFG8sxkmOAhVeuj         20            Calvin Harris
## 136 24LS4lQShWyixJ0ZrJXfJ5         71            Calvin Harris
## 137 37jTPJgwCCmIGMPB45jrPV          1                    JAY Z
## 138 5Z7ygHQo02SUrFmcgpwsKW         60                Flo Rida
## 139 7EiZI6JVHllARrX9PUvAdX         79                  Future
## 140 1gihuPhrLraKYrJMAEONyc         73            Calvin Harris
## 141 2PpruBYCo4H7WOBJ7Q2EwM         76                  OutKast
## 142 25KybV9BOUlvcnv7nN3Pyo         69               The Weeknd
## 143 3kyxRga5wDGbKdmxXssbps         11           Mumford & Sons
## 144 3AJwUDP919kvQ9QcozQPxg         81                Coldplay
## 145 6JEntXLt4z98CcDtIH9sU7         59            Martin Garrix
## 146 2cbic3TiUENlJX91y67ARR         72                 Bon Iver
## 147 5PclxRY6shIQzSKxxbdZso         47   Red Hot Chili Peppers
## 148 4LloVtxNZpeh7q7xdi1DQc         75               John Mayer
## 149 03UrZgTINDqvnUMbbIMhql         59                      PSY
## 150 19a3JfW8BQwqHWUMbcqSx8         73               Kanye West
## 151 3SPDQfj2UfWq6A2NllZnzn         67            One Direction
## 152 4QNpBfC0zvjKqPJcyqBy9W         74                  Pitbull
## 153 1OXfWI3FQMdsKKC6lkvzSx         55               The Wanted
```

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## 154 3XIIOCu6B8PuGq5j61asEM         26                    Sia
## 155 4nA0biSjtvOL41Hd9MBXqR         20            Zara Larsson
## 156 0OwX5aROoW1Iip8FV51Efg         73              Anne-Marie
## 157 52qH79XktzCUPkN0dlRbUs         65           Marc E. Bassy
## 158 7evPpWWu01KlxiOKlPxR17         25            Shawn Mendes
## 159 6Vc5wAMmXdKIAM7WUoEb7N         78       A Great Big World
## 160 13HVjjWUZFaWilh2QUJKsP         76               James Bay
## 161 7tmtOEDxPN7CWaQWBsG1DY         67               James Bay
## 162 3ebXMykcMXOcLeJ9xZ17XH         84           Martin Garrix
## 163 4sQMalN597HdggTu196aL0         16                   Flume
## 164 2EEeOnHehOozLq4aS0n6SL         82                    KYLE
## 165 152lZdxL1OR0ZMW6KquMif         86                  Khalid
## 166 6DUdDIRgLqCGq1DwkNWQTN         77                  Maluma
## 167 4scpF6J5uMBvoh6sFB7EL1         70            Rae Sremmurd
## 168 5EbX5xL3O2xT8FxCpYzgUO         70            Alessia Cara
## 169 3kxfsdsCpFgN412fpnW85Y         80         Childish Gambino
## 170 3umS4y3uQDkqekNjVpiRUs         79                Nicky Jam
## 171 6HZILIRieu8S0iqY8kIKhj         80           Kendrick Lamar
## 172 456xBIOmLRoLzCvCzZrWge         71                J Balvin
## 173 6fwdbPMwP1zVStm8FybmkO         79               21 Savage
## 174 1PSBzsahR2AKwLJgx8ehBj         29       Machine Gun Kelly
## 175 0sXvAOmXgjR2QUqLK1MltU         68             Carlos Vives
## 176 762UXiwEHYY97VL45sAUPR         73             David Guetta
## 177 4Q3N4Ct4zCuIHuZ65E3BD4         79              Kodak Black
## 178 7rPLZ8Krm6CZIbraFUlnWZ         69                    Adele
## 179 7DfFc7a6Rwfi3YQMRbDMau         74              Frank Ocean
## 180 4F7AODXBrmUAkp32uenhZt         73               The Weeknd
## 181 4Km5HrUvYTaSUfiSGPJeQR         80                    Migos
## 182 20dP2DaMHIAmwWAbp7peSr         77               Young Thug
## 183 1wHZx0LgzFHyeIZkUydNXq         77             Travis Scott
## 184 6gBFPUFcJLzWGx4lenP6h2         87             Travis Scott
## 185 0SGkqnVQo9KPytSri1H6cF         79                 Big Sean
## 186 1NpW5kyvO4XrNJ3rnfcNy3         79                 Flo Rida
## 187 4MhTFsyqIJnjsOweVcU8ug         76            Guns N' Roses
## 188 2gZUPNdnz5Y45eiGxpHGSc         76               Kanye West
## 189 2habSXqcJGExM6JJyskY7O         69              Miley Cyrus
## 190 6Ius4TC0L3cN74HT7ENE6e         81                  J. Cole
## 191 6mapJIPnQ23RTAevUoE0DL         75             Rae Sremmurd
## 192 5LVoGJTyG6fLJgoGkY2QAZ         76              Chris Jeday
## 193 7vGuf3Y35N4wmASOKLUVVU         89              Marshmello
## 194 75ZvA4QfFiZvzhj2xkaWAh         88              Post Malone
## 195 5yuShbu70mtHXY0yLzCQLQ         82              Post Malone
## 196 3I4QOvltiKcMu3xmnQjEct         72                    Lorde
## 197 0bYg9bo50gSsH3LtXe2SQn         65             Mariah Carey
## 198 2DQ1ITjI0YoLFzuADN1ZBW         78                   G-Eazy
## 199 6jmTHeoWvBaSrwWttr8Xvu         76                   G-Eazy
## 200 2771LMNxwf62FTAdpJMQfM         83                  Cardi B
## 201 1SJtlNRJDeYHioymcvsqev         79           Camila Cabello
## 202 1f5cbQtDrykjarZVrShaDI         82  A Boogie Wit da Hoodie
## 203 2fQrGHiQOvpL9UgPvtYy6G         87                21 Savage
## 204 6PGoSesOD9eUDeeAafB2As         83           Kendrick Lamar
## 205 1P17dC1amhFzptugyAO7Il         77             Taylor Swift
## 206 5xTtaWoae3wi06K5WfVUUH         70             Taylor Swift
## 207 5Z3GHaZ6ec9bsiI5BenrbY         89                  Khalid
```

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## 208 6QgjcU0zLnzq5OrUoSZ3OK        89      Portugal. The Man
## 209 2bjwRfXMk4uRgOD9IBYl9h        78                  Drake
## 210 3Z2sglqDj1rDRMF5x0Sz2R        75       Childish Gambino
## 211 0kN8xEmgMW9mh7UmDYHlJP        79             Bruno Mars
## 212 2cOUlop2ZakjOKe4WinesN        70            Niall Horan
## 213 1yxgsra98r3qAtxqiGZPiX        86           Travis Scott
## 214 0CokSRCu5hZgPxcZBaEzVE        84             Macklemore
## 215 1UZOjK1BwmwWU14Erba9CZ        81            Miley Cyrus
## 216 5Q0Nhxo0l2bP3pNjpGJwV1        74            Miley Cyrus
## 217 0dXNQ8dckG4eYfEtq9zcva        69              The Vamps
## 218 1KzGj3xvi9IiY05kBlkm2G        73      Machine Gun Kelly
## 219 37f4ITSlgPX81ad2EvmVQr        77         Rachel Platten
## 220 1j4kHkkpqZRBwE0A4CN4Yv        88                   ZAYN
## 221 0HMjXBAZmSYOTTi33WpMso        73          One Direction
## 222 0EGuSSpuu9wmHCtvb4PdLO        70                   Daya
## 223 3Du2K5dLzmduCNp6uwuaL0        81            Demi Lovato
## 224 3cNjgVBKTJ1SvKhunrCdVy        76             Joel Adams
## 225 1pwo8l3Ko7idwaz4LVUEC4        79             Little Mix
## 226 2Bs4jQEGMycglOfWPBqrVG        70          One Direction
## 227 2dRvMEW4EwySxRUtEamSfG        67           Selena Gomez
## 228 0B8QzDH7YWih85V5SEMnyJ        79           Lil Uzi Vert
## 229 2ANLarE8yHVsLWW21nj79M        76           Lil Uzi Vert
## 230 1e1JKLEDKP7hEQzJfNAgPl        79          Playboi Carti
## 231 6p8NuHm8uCGnn2Dtbtf7zE        83                  Migos
## 232 7KOlJ92bu51cltsD9KU5I7        79                  Migos
## 233 7IWkJwX9C0J7tHurTD7ViL        72                  Adele
## 234 51ChrwmUPDJvedPQnIU8Ls        82             Ed Sheeran
## 235 37sINbJZcFdHFAsVNsPq1i        73             The Script
## 236 7s0lDK7y3XLmI7tcsRAbW0        71           Fall Out Boy
## 237 4bPQs0PHn4xbipzdPfn6du        75     Panic! At The Disco
## 238 52okn5MNA47tk87PeZJLEL        82                     NF
## 239 1m69ELEgE6k5ZWsap40ozt        85                  Ozuna
## 240 5zSOVwaY3sVjnmLhuEfsuf        75                  Ozuna
## 241 6Za3190Sbw39BBC77WSS1C        90          Natti Natasha
## 242 43PuMrRfbyyuz4QpZ3oAwN        81          Bryson Tiller
## 243 2XW4DbS6NddZxRPm5rMCeY        95                  Drake
## 244 7iDa6hUg2VgEL1o1HjmfBn        94             Bebe Rexha
## 245 0eZBeB2xFIS65jQHerispi        71              Disturbed
## 246 65NwOZqoXny4JxqAPlfxRF        93            Post Malone
## 247 7dZ1Odmx9jWIweQSatnRqo        73              Lady Gaga
## 248 1TfqLAPs4K3s2rJMoCokcS        82             Eurythmics
## 249 5VSCgNlSmTV2Yq5lB40Eaw        63            John Newman
## 250 5k38wzpLb15YgncyWdTZE4        88                 G-Eazy
## 251 6tHWl8ows5JOZq9Yfaqn3M        90                  Bazzi
##                                                                                  artist_full
## 1                                                                                 Ed Sheeran
## 2                                       Luis Fonsi feat. Daddy Yankee feat. Justin Bieber
## 3                                                          The Chainsmokers feat. Daya
## 4                                                          Post Malone feat. 21 Savage
## 5                                                           The Weeknd feat. Daft Punk
## 6                                                                         Justin Bieber
## 7                                                                     Twenty One Pilots
## 8                                                        Luis Fonsi feat. Daddy Yankee
## 9                                                                          James Arthur
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## 10                                                                    Shawn Mendes
## 11                                                                           Adele
## 12                                                                          Hozier
## 13                                                                Rihanna feat. Drake
## 14                                                                    Kendrick Lamar
## 15                                                                    Shawn Mendes
## 16                                                                       Sam Smith
## 17                                                    Wiz Khalifa feat. Charlie Puth
## 18                                                                       Passenger
## 19                                                                           Drake
## 20                                    Jack Ü feat. Skrillex feat. Diplo feat. Justin Bieber
## 21                                                                     Desiigner
## 22 DJ Khaled feat. Justin Bieber feat. Quavo feat. Chance The Rapper feat. Lil Wayne
## 23                                                                   Lil Uzi Vert
## 24                                                                 Imagine Dragons
## 25                                                                      The Weeknd
## 26                                                                      Bruno Mars
## 27                                                                  Ellie Goulding
## 28                                                                Twenty One Pilots
## 29                                                    Martin Garrix feat. Bebe Rexha
## 30                                                                 Imagine Dragons
## 31                                                           Macklemore & Ryan Lewis
## 32                                                  Ariana Grande feat. Nicki Minaj
## 33                                                                       Fetty Wap
## 34                                                                Pharrell Williams
## 35                                                                          Future
## 36                                        Jessie J feat. Ariana Grande feat. Nicki Minaj
## 37                                                     Katy Perry feat. Juicy J
## 38                                                                   Calvin Harris
## 39                                                    Zara Larsson feat. MNEK
## 40                                                                     Ed Sheeran
## 41                                                                       Bastille
## 42                                                                         MAGIC!
## 43                                                                    WALK THE MOON
## 44                                                                Pitbull feat. Kesha
## 45                                                                           Drake
## 46                                                                        Galantis
## 47                                                                       Sam Smith
## 48                                                                     Ed Sheeran
## 49                                                  Calvin Harris feat. John Newman
## 50                                                                  Meghan Trainor
## 51                                      Flo Rida feat. Sage The Gemini feat. Lookas
## 52                                                                           Lorde
## 53                                                Calvin Harris feat. Ellie Goulding
## 54                                                  Nicky Jam feat. Enrique Iglesias
## 55                                                     Rae Sremmurd feat. Gucci Mane
## 56                                                                         Avicii
## 57                                      Rihanna feat. Kanye West feat. Paul McCartney
## 58                                                       Ariana Grande feat. Zedd
## 59                                                  Selena Gomez feat. A$AP Rocky
## 60                                 David Guetta feat. Nicki Minaj feat. Bebe Rexha feat. Afrojack
## 61                                                                       Maroon 5
## 62                                                                            Sia
## 63                                                         David Guetta feat. Sia
```

```
## 64                                                    One Direction
## 65                                               Drake feat. Future
## 66                                                      Bruno Mars
## 67                                                   Ellie Goulding
## 68                                             Alesso feat. Tove Lo
## 69                                         Deorro feat. Chris Brown
## 70                                    Calvin Harris feat. Rihanna
## 71                                                   Ellie Goulding
## 72                                          JAY Z feat. Kanye West
## 73                                                     George Ezra
## 74                                David Guetta feat. Showtek feat. Vassy
## 75                                                   The Lumineers
## 76                                        Fetty Wap feat. Remy Boyz
## 77                                                        Galantis
## 78                                                      Post Malone
## 79                                                   Arctic Monkeys
## 80                                                    Ariana Grande
## 81                                                            Adele
## 82                                              Gotye feat. Kimbra
## 83                                                      Bruno Mars
## 84                                      The Script feat. will.i.am
## 85                                                Justin Timberlake
## 86                                 Swedish House Mafia feat. John Martin
## 87                                                           Eminem
## 88                                                            Adele
## 89                                                        Echosmith
## 90                                                           Avicii
## 91                                                    Ariana Grande
## 92                                                     Jason Derulo
## 93                                         fun. feat. Janelle Monáe
## 94                                             Eminem feat. Rihanna
## 95                                                       Jason Mraz
## 96                                       Iggy Azalea feat. Rita Ora
## 97                                                     Fall Out Boy
## 98                                   Jason Derulo feat. Snoop Dogg
## 99                                                      Miley Cyrus
## 100                                Maroon 5 feat. Christina Aguilera
## 101                                     DJ Snake feat. AlunaGeorge
## 102                                                     Ed Sheeran
## 103                                                        Silentó
## 104                                             Beyoncé feat. JAY Z
## 105                                                       Sheppard
## 106                                               Foster The People
## 107                                                        Beyoncé
## 108                                                       Coldplay
## 109                                                       Coldplay
## 110                                                      Kent Jones
## 111                                          Eminem feat. Nate Dogg
## 112                                                      AronChupa
## 113                                                       Coldplay
## 114                                                     The Killers
## 115                                            DRAM feat. Lil Yachty
## 116                                                        Beyoncé
## 117                                                      Sam Smith
```

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## 118                                                                 Naughty Boy feat. Sam Smith
## 119                                                                  Icona Pop feat. Charli XCX
## 120                                                                                       Oasis
## 121                                                          Lana Del Rey feat. Cedric Gervais
## 122                                                                                    Coldplay
## 123                                                                 Don Omar feat. Lucenzo
## 124                                                                         Meghan Trainor
## 125                                                                                  Birdy
## 126                                                                          X Ambassadors
## 127                                                                          Kings of Leon
## 128                                                                            The Weeknd
## 129                                                          will.i.am feat. Britney Spears
## 130                                                                                 Eminem
## 131                                                                          Justin Bieber
## 132                                                                                 Avicii
## 133 Lil Wayne feat. Wiz Khalifa feat. Imagine Dragons feat. Logic feat. Ty Dolla $ign feat. X Ambassadors
## 134                                                                           Nicki Minaj
## 135                                                    Calvin Harris feat. Alesso feat. Hurts
## 136                                                       Calvin Harris feat. Florence Welch
## 137                                                            JAY Z feat. Justin Timberlake
## 138                                                                  Flo Rida feat. Sia
## 139                                                               Future feat. The Weeknd
## 140                                                                         Calvin Harris
## 141                                                                                OutKast
## 142                                                                            The Weeknd
## 143                                                                         Mumford & Sons
## 144                                                                                Coldplay
## 145                                                                         Martin Garrix
## 146                                                                              Bon Iver
## 147                                                                Red Hot Chili Peppers
## 148                                                                          John Mayer
## 149                                                                                 PSY
## 150                                                                           Kanye West
## 151                                                                         One Direction
## 152                                                  Pitbull feat. Ne-Yo feat. Afrojack feat. Nayer
## 153                                                                         The Wanted
## 154                                                           Sia feat. Kendrick Lamar
## 155                                                                          Zara Larsson
## 156                                                                           Anne-Marie
## 157                                                          Marc E. Bassy feat. G-Eazy
## 158                                                                         Shawn Mendes
## 159                                                 A Great Big World feat. Christina Aguilera
## 160                                                                            James Bay
## 161                                                                            James Bay
## 162                                                         Martin Garrix feat. Dua Lipa
## 163                                                                  Flume feat. Tove Lo
## 164                                                               KYLE feat. Lil Yachty
## 165                                                                               Khalid
## 166                                                                               Maluma
## 167                                                                          Rae Sremmurd
## 168                                                                          Alessia Cara
## 169                                                                       Childish Gambino
## 170                                                                              Nicky Jam
## 171                                                                        Kendrick Lamar
```

```
## 172                                  J Balvin feat. Pharrell Williams feat. BIA feat. Sky
## 173                                           21 Savage feat. Metro Boomin feat. Future
## 174                                      Machine Gun Kelly feat. Camila Cabello
## 175                                                Carlos Vives feat. Shakira
## 176                                           David Guetta feat. Justin Bieber
## 177                                                                 Kodak Black
## 178                                                                       Adele
## 179                                                                 Frank Ocean
## 180                                                                  The Weeknd
## 181                                                        Migos feat. Lil Uzi Vert
## 182                                                  Young Thug feat. Travis Scott
## 183                                                                 Travis Scott
## 184                                                                 Travis Scott
## 185                                                                     Big Sean
## 186                                                           Flo Rida feat. Sia
## 187                                                                Guns N' Roses
## 188                                                                   Kanye West
## 189                                                                  Miley Cyrus
## 190                                                                      J. Cole
## 191                                                                  Rae Sremmurd
## 192                            Chris Jeday feat. J Balvin feat. Ozuna feat. Arcangel
## 193                                                 Marshmello feat. Khalid
## 194                                                                 Post Malone
## 195                                                                 Post Malone
## 196                                                                       Lorde
## 197                                                                Mariah Carey
## 198                                          G-Eazy feat. A$AP Rocky feat. Cardi B
## 199                                                       G-Eazy feat. Remo
## 200                                                                    Cardi B
## 201                                                               Camila Cabello
## 202                                        A Boogie Wit da Hoodie feat. Kodak Black
## 203                                                                   21 Savage
## 204                                                 Kendrick Lamar feat. Zacari
## 205                                                                 Taylor Swift
## 206                                                                 Taylor Swift
## 207                                                                       Khalid
## 208                                                          Portugal. The Man
## 209                                             Drake feat. Quavo feat. Travis Scott
## 210                                                              Childish Gambino
## 211                                                                   Bruno Mars
## 212                                                                  Niall Horan
## 213                                                                 Travis Scott
## 214                                                 Macklemore feat. Skylar Grey
## 215                                                                  Miley Cyrus
## 216                                                                  Miley Cyrus
## 217                                                        The Vamps feat. Matoma
## 218                                      Machine Gun Kelly feat. Camila Cabello
## 219                                                                Rachel Platten
## 220                                                            ZAYN feat. Sia
## 221                                                                One Direction
## 222                                                                         Daya
## 223                                                                  Demi Lovato
## 224                                                                   Joel Adams
## 225                                                                   Little Mix
```

```
## 226                                                                One Direction
## 227                                                                 Selena Gomez
## 228                                                                 Lil Uzi Vert
## 229                                                                 Lil Uzi Vert
## 230                                                                Playboi Carti
## 231                                                  Migos feat. Gucci Mane
## 232                                                                       Migos
## 233                                                                       Adele
## 234                                                                  Ed Sheeran
## 235                                                                  The Script
## 236                                                                Fall Out Boy
## 237                                                   Panic! At The Disco
## 238                                                                          NF
## 239                                                                       Ozuna
## 240                                                                       Ozuna
## 241                                                 Natti Natasha feat. Ozuna
## 242                                                               Bryson Tiller
## 243                                                                       Drake
## 244                                  Bebe Rexha feat. Florida Georgia Line
## 245                                                                   Disturbed
## 246                                        Post Malone feat. Ty Dolla $ign
## 247                                                                 Lady Gaga
## 248                                                                Eurythmics
## 249                                                               John Newman
## 250                                                  G-Eazy feat. Halsey
## 251                                                                       Bazzi
##                    artistId
## 1   6eUKZXaKkcviH0Ku9w2n3V
## 2   4V8Sr092TqfHkfAA5fXXqG
## 3   69GGBxA162lTqCwzJG5jLp
## 4   246dkjvS1zLTtiykXe5h60
## 5   1Xyo4u8uXC1ZmMpatF05PJ
## 6   1uNFoZAHBGtllmzznpCI3s
## 7   3YQKmKGau1PzlVlkL1iodx
## 8   4V8Sr092TqfHkfAA5fXXqG
## 9   4IWBUUAFIplrNtaOHcJPRM
## 10  7n2wHs1TKAczGzO7Dd2rGr
## 11  4dpARuHxo51G3z768sgnrY
## 12  2FXC3k01G6Gw61bmprjgqS
## 13  5pKCCKE2ajJHZ9KAiaK11H
## 14  2YZyLoL8N0Wb9xBt1NhZWg
## 15  7n2wHs1TKAczGzO7Dd2rGr
## 16  2wY79sveU1sp5g7SokKOiI
## 17  137W8MRPWKqSmrBGDBFSop
## 18  0gadJ2b9A4SKsB1RFkBb66
## 19  3TVXtAsR1Inumwj472S9r4
## 20  1HxJeLhIuegM3KgvPn8sTa
## 21  7pFeBzX627ff0VnN6bxPR4
## 22  0QHgL1lAIqAw0HtD7YldmP
## 23  4O15NlyKLIASxsJ0PrXPfz
## 24  53XhwfbYqKCa1cC15pYq2q
## 25  1Xyo4u8uXC1ZmMpatF05PJ
## 26  0du5cEVh5yTK9QJze8zA0C
## 27  0X2BH1fck6amBIoJhDVmmJ
```

```
## 28  3YQKmKGau1PzlVlkL1iodx
## 29  60d24wfXkVzDSfLS6hyCjZ
## 30  53XhwfbYqKCa1cC15pYq2q
## 31  5BcAKTbp20cv7tC5VqPFoC
## 32  66CXWjxzNUsdJxJ2JdwvnR
## 33  6PXS4YHDkKvl1wkIl4V8DL
## 34  2RdwBSPQiwcmiDo9kixcl8
## 35  1RyvyyTE3xzB2ZywiAwp0i
## 36  2gsggkzM5R49q6jpPvazou
## 37  6jJ0s89eD6GaHleKKya26X
## 38  7CajNmpbOovFoOoasH2HaY
## 39  1Xylc3o4UrD53lo9CvFvVg
## 40  6eUKZXaKkcviH0Ku9w2n3V
## 41  7EQ0qTo7fWT7DPxmxtSYEc
## 42  0DxeaLnv6SyYk2DOqkLO8c
## 43  6DIS6PRrLS3wbnZsf7vYic
## 44  0TnOYISbd1XYRBk9myaseg
## 45  3TVXtAsR1Inumwj472S9r4
## 46  4sTQVOfp9vEMCemLw50sbu
## 47  2wY79sveU1sp5g7SokKOiI
## 48  6eUKZXaKkcviH0Ku9w2n3V
## 49  7CajNmpbOovFoOoasH2HaY
## 50  6JL8zeS1NmiOftqZTRgdTz
## 51  0jnsk9HBra6NMjO2oANoPY
## 52  163tK9Wjr9P9DmM0AVK7lm
## 53  7CajNmpbOovFoOoasH2HaY
## 54  1SupJlEpv7RS2tPNRaHViT
## 55  7iZtZyCzp3LItcw1wtPI3D
## 56  1vCWHaC5f2uS3yhpwWbIA6
## 57  5pKCCKE2ajJHZ9KAiaK11H
## 58  66CXWjxzNUsdJxJ2JdwvnR
## 59  0C8ZW7ezQVs4URX5aX7Kqx
## 60  1Cs0zKBU1kc0i8ypK3B9ai
## 61  04gDigrS5kc9YWfZHwBETP
## 62  5WUlDfRSoLAfcVSX1WnrxN
## 63  1Cs0zKBU1kc0i8ypK3B9ai
## 64  4AK6F7OLvEQ5QYCBNiQWHq
## 65  3TVXtAsR1Inumwj472S9r4
## 66  0du5cEVh5yTK9QJze8zA0C
## 67  0X2BH1fck6amBIoJhDVmmJ
## 68  4AVFqumd2ogHFlRbKIjp1t
## 69  6VD4UEUPvtsemqD3mmTqCR
## 70  7CajNmpbOovFoOoasH2HaY
## 71  0X2BH1fck6amBIoJhDVmmJ
## 72  3nFkdlSjzX9mRTtwJOzDYB
## 73  2ysnwxxNtSgbb9t1m2Ur4j
## 74  1Cs0zKBU1kc0i8ypK3B9ai
## 75  16oZKvXb6WkQlVAjwo2Wbg
## 76  6PXS4YHDkKvl1wkIl4V8DL
## 77  4sTQVOfp9vEMCemLw50sbu
## 78  246dkjvS1zLTtiykXe5h60
## 79  7Ln80lUS6He07XvHI8qqHH
## 80  66CXWjxzNUsdJxJ2JdwvnR
## 81  4dpARuHxo51G3z768sgnrY
```

```
## 82  2AsusXITU8P25dlRNhcAbG
## 83  0du5cEVh5yTK9QJze8zA0C
## 84  3AQRLZ9PuTAozP28Skbq8V
## 85  31TPClRtHm23RisEBtV3X7
## 86  1h6Cn3P4NGzXbaXidqURXs
## 87  7dGJo4pcD2V6oG8kP0tJRR
## 88  4dpARuHxo51G3z768sgnrY
## 89  1PbBg2aYjWLKRk84zJK15x
## 90  1vCWHaC5f2uS3yhpwWbIA6
## 91  66CXWjxzNUsdJxJ2JdwvnR
## 92  07YZf4WDAMNwqr4jfgOZ8y
## 93  5nCi3BB41mBaMH9gfr6Su0
## 94  7dGJo4pcD2V6oG8kP0tJRR
## 95  4phGZZrJZRo4ElhRtViYdl
## 96  5yG7ZAZafVaAlMTeBybKAL
## 97  4UXqAaa6dQYAk18Lv7PEgX
## 98  07YZf4WDAMNwqr4jfgOZ8y
## 99  5YGY8feqx7naU7z4HrwZM6
## 100 04gDigrS5kc9YWfZHwBETP
## 101 540vIaP2JwjQb9dm3aArA4
## 102 6eUKZXaKkcviH0Ku9w2n3V
## 103 7juKTDFlPesGeWQ1GmjmOv
## 104 6vWDO969PvNqNYHIOW5v0m
## 105 6VxCmtR7S3yz4vnzsJqhSV
## 106 7gP3bB2nilZXLfPHJhMdvc
## 107 6vWDO969PvNqNYHIOW5v0m
## 108 4gzpq5DPGxSnKTe4SA8HAU
## 109 4gzpq5DPGxSnKTe4SA8HAU
## 110 3jHBxvZ9gbBkZ17wKUqVsO
## 111 7dGJo4pcD2V6oG8kP0tJRR
## 112 5vCOdeiQt9LyzdI87kt5Sh
## 113 4gzpq5DPGxSnKTe4SA8HAU
## 114 0C0XlULifJtAgn6ZNCW2eu
## 115 5M0lbkGluOPXLeFjApw8r8
## 116 6vWDO969PvNqNYHIOW5v0m
## 117 2wY79sveU1sp5g7SokKOiI
## 118 1bT7m67vi78r2oqvxrP3X5
## 119 1VBflYyxBhnDc9uVib98rw
## 120 2DaxqgrOhkeH0fpeiQq2f4
## 121 00FQb4jTyendYWaN8pK0wa
## 122 4gzpq5DPGxSnKTe4SA8HAU
## 123 33ScadVnbm2X8kkUqOkC6Z
## 124 6JL8zeS1NmiOftqZTRgdTz
## 125 2WX2uTcsvV5OnS0inACecP
## 126 3NPpFNZtSTHheNBaWC82rB
## 127 2qk9voo8llSGYcZ6xrBzKx
## 128 1Xyo4u8uXC1ZmMpatF05PJ
## 129 085pc2PYOi8bGKj0PNjekA
## 130 7dGJo4pcD2V6oG8kP0tJRR
## 131 1uNFoZAHBGtllmzznpCI3s
## 132 1vCWHaC5f2uS3yhpwWbIA6
## 133 55Aa2cqylxrFIXC767Z865
## 134 0hCNtLu0JehylgoiP8L4Gh
## 135 7CajNmpbOovFoOoasH2HaY
```

```
## 136 7CajNmpbOovFoOoasH2HaY
## 137 3nFkdlSjzX9mRTtwJOzDYB
## 138 0jnsk9HBra6NMjO2oANoPY
## 139 1RyvyyTE3xzB2ZywiAwp0i
## 140 7CajNmpbOovFoOoasH2HaY
## 141 1G9G7WwrXka3Z1r7aIDjI7
## 142 1Xyo4u8uXC1ZmMpatF05PJ
## 143 3gd8FJtBJtkRxdfbTu19U2
## 144 4gzpq5DPGxSnKTe4SA8HAU
## 145 60d24wfXkVzDSfLS6hyCjZ
## 146 4LEiUm1SRbFMgfqnQTwUbQ
## 147 0L8ExT028jH3ddEcZwqJJ5
## 148 0hEurMDQu99nJRq8pTxO14
## 149 2dd5mrQZvg6SmahdgVKDzh
## 150 5K4W6rqBFWDnAN6FQUkS6x
## 151 4AK6F7OLvEQ5QYCBNiQWHq
## 152 0TnOYISbd1XYRBk9myaseg
## 153 2NhdGz9EDv2FeUw6udu2g1
## 154 5WUlDfRSoLAfcVSX1WnrxN
## 155 1Xylc3o4UrD53lo9CvFvVg
## 156 1zNqDE7qDGCsyzJwohVaoX
## 157 3tQx1LPXbsYjE9VwN1Peaa
## 158 7n2wHs1TKAczGzO7Dd2rGr
## 159 5xKp3UyavIBUsGy3DQdXeF
## 160 4EzkuveR9pLvDVFNx6foYD
## 161 4EzkuveR9pLvDVFNx6foYD
## 162 60d24wfXkVzDSfLS6hyCjZ
## 163 6nxWCVXbOlEVRexSbLsTer
## 164 4qBgvVog0wzW75IQ48mU7v
## 165 6LuN9FCkKOj5PcnpouEgny
## 166 1r4hJ1h58CWwUQe3MxPuau
## 167 7iZtZyCzp3LItcw1wtPI3D
## 168 2wUjUUtkb5lvLKcGKsKqsR
## 169 73sIBHcqh3Z3NyqHKZ7FOL
## 170 1SupJlEpv7RS2tPNRaHViT
## 171 2YZyLoL8N0Wb9xBt1NhZWg
## 172 1vyhD5VmyZ7KMfW5gqLgo5
## 173 1URnnhqYAYcrqrcwql10ft
## 174 6TIYQ3jFPwQSRmorSezPxX
## 175 4vhNDa5ycK0ST968ek7kRr
## 176 1Cs0zKBU1kc0i8ypK3B9ai
## 177 46SHBwWsqBkxI7EeeBEQG7
## 178 4dpARuHxo51G3z768sgnrY
## 179 2h93pZq0e7k5yf4dywlkpM
## 180 1Xyo4u8uXC1ZmMpatF05PJ
## 181 6oMuImdp5ZcFhWP0ESe6mG
## 182 50co4Is1HCEo8bhOyUWKpn
## 183 0Y5tJX1MQlPlqiwlOH1tJY
## 184 0Y5tJX1MQlPlqiwlOH1tJY
## 185 0c173mlxpT3dSFRgMO8XPh
## 186 0jnsk9HBra6NMjO2oANoPY
## 187 3qm84nBOXUEQ2vnTfUTTFC
## 188 5K4W6rqBFWDnAN6FQUkS6x
## 189 5YGY8feqx7naU7z4HrwZM6
```

```
## 190 6l3HvQ5sa6mXTsMTB19rO5
## 191 7iZtZyCzp3LItcw1wtPI3D
## 192 0qTZZWLzuD59Un5r1speHm
## 193 64KEffDW9EtZ1y2vBYgq8T
## 194 246dkjvS1zLTtiykXe5h60
## 195 246dkjvS1zLTtiykXe5h60
## 196 163tK9Wjr9P9DmM0AVK7lm
## 197 4iHNK0tOyZPYnBU7nGAgpQ
## 198 02kJSzxNuaWGqwubyUba0Z
## 199 02kJSzxNuaWGqwubyUba0Z
## 200 4kYSro6naA4h99UJvo89HB
## 201 4nDoRrQiYLoBzwC5BhVJzF
## 202 31W5EY0aAly4Qieq6OFu6I
## 203 1URnnhqYAYcrqrcwql10ft
## 204 2YZyLoL8N0Wb9xBt1NhZWg
## 205 06HL4z0CvFAxyc27GXpf02
## 206 06HL4z0CvFAxyc27GXpf02
## 207 6LuN9FCkKOj5PcnpouEgny
## 208 4kI8Ie27vjvonwaB2ePh8T
## 209 3TVXtAsR1Inumwj472S9r4
## 210 73sIBHcqh3Z3NyqHKZ7FOL
## 211 0du5cEVh5yTK9QJze8zA0C
## 212 1Hsdzj7Dlq2I7tHP7501T4
## 213 0Y5tJX1MQlPlqiwlOH1tJY
## 214 3JhNCzhSMTxs9WLGJJxWOY
## 215 5YGY8feqx7naU7z4HrwZM6
## 216 5YGY8feqx7naU7z4HrwZM6
## 217 7gAppWoH7pcYmphCVTXkzs
## 218 6TIYQ3jFPwQSRmorSezPxX
## 219 3QLIkT4rD2FMusaqmkepbq
## 220 5ZsFI1h6hIdQRw2ti0hz81
## 221 4AK6F7OLvEQ5QYCBNiQWHq
## 222 6Dd3NScHWwnW6obMFbl1BH
## 223 6S2OmqARrzebs0tKUEyXyp
## 224 36jaGQtMj5UWD0eO1fCVdD
## 225 3e7awlrlDSwF3iM0WBjGMp
## 226 4AK6F7OLvEQ5QYCBNiQWHq
## 227 0C8ZW7ezQVs4URX5aX7Kqx
## 228 4O15NlyKLIASxsJ0PrXPfz
## 229 4O15NlyKLIASxsJ0PrXPfz
## 230 699OTQXzgjhIYAHMy9RyPD
## 231 6oMuImdp5ZcFhWP0ESe6mG
## 232 6oMuImdp5ZcFhWP0ESe6mG
## 233 4dpARuHxo51G3z768sgnrY
## 234 6eUKZXaKkcviH0Ku9w2n3V
## 235 3AQRLZ9PuTAozP28Skbq8V
## 236 4UXqAaa6dQYAk18Lv7PEgX
## 237 20JZFwl6HVl6yg8a4H3ZqK
## 238 6fOMl44jA4Sp5b9PpYCkzz
## 239 1i8SpTcr7yvPOmcqrbnVXY
## 240 1i8SpTcr7yvPOmcqrbnVXY
## 241 1GDbiv3spRmZ1XdM1jQbT7
## 242 2EMAnMvWE2eb56ToJVfCWs
## 243 3TVXtAsR1Inumwj472S9r4
```

```
## 244 64M6ah0SkkRsnPGtGiRAbb
## 245 3TOqt5oJwL9BE2NG9MEwDa
## 246 246dkjvS1zLTtiykXe5h60
## 247 1HY2Jd0NmPuamShAr6KMms
## 248 0NKDgy9j66h3DLnN8qu1bB
## 249 34v5MVKeQnIo0CWYMbbrPf
## 250 02kJSzxNuaWGqwubyUba0Z
## 251 4GvEc3ANtPPjt1ZJllr5Zl
##                                                                    album
## 1                                                       x (Deluxe Edition)
## 2                                   Despacito Feat. Justin Bieber (Remix)
## 3                                                             Collage EP
## 4                                                               rockstar
## 5                                                                Starboy
## 6                                                      Purpose (Deluxe)
## 7                                                             Blurryface
## 8                                     Despacito (Featuring Daddy Yankee)
## 9                                                    Back from the Edge
## 10                                                          Handwritten
## 11                                                                   25
## 12                                                               Hozier
## 13                                                         ANTI (Deluxe)
## 14                                                                DAMN.
## 15                                                  Illuminate (Deluxe)
## 16                                          In The Lonely Hour (Deluxe)
## 17                                    See You Again (feat. Charlie Puth)
## 18                                                 All the Little Lights
## 19                                                                Views
## 20                                     Skrillex and Diplo present Jack Ü
## 21                                                          New English
## 22                                                          I'm the One
## 23                                                         XO TOUR Llif3
## 24                                                         Night Visions
## 25                                             Beauty Behind The Madness
## 26                                                             24K Magic
## 27                  Fifty Shades Of Grey (Original Motion Picture Soundtrack)
## 28                                                            Blurryface
## 29                                                  In the Name of Love
## 30                                                               Evolve
## 31                                                             The Heist
## 32                                                       Dangerous Woman
## 33                                                    Fetty Wap (Deluxe)
## 34                                         Happy (From "Despicable Me 2")
## 35                                                               FUTURE
## 36                                          Sweet Talker (Deluxe Version)
## 37                                                       PRISM (Deluxe)
## 38                                                               Summer
## 39                                                     Never Forget You
## 40                                                    x (Deluxe Edition)
## 41                                                             Bad Blood
## 42                                                  Don't Kill the Magic
## 43                                                       TALKING IS HARD
## 44                                 Global Warming: Meltdown (Deluxe Version)
## 45                                                             Fake Love
```

```
## 46                                                    No Money
## 47                                          In The Lonely Hour
## 48                                          Castle on the Hill
## 49                                                       Blame
## 50                                         All About That Bass
## 51                       GDFR (feat. Sage The Gemini & Lookas)
## 52                                                Pure Heroine
## 53                                                      Motion
## 54                                                      Fénix
## 55                                        SremmLife 2 (Deluxe)
## 56                                                     Stories
## 57                                               FourFiveSeconds
## 58                                      My Everything (Deluxe)
## 59                                                Good For You
## 60                                         Listen (Deluxe)
## 61                                              V (Deluxe)
## 62                                          1000 Forms Of Fear
## 63                                 Nothing But the Beat 2.0
## 64                                                Drag Me Down
## 65                                 What A Time To Be Alive
## 66                                      Unorthodox Jukebox
## 67                                             Halcyon Days
## 68                                                  Forever
## 69                 Five More Hours (Deorro x Chris Brown)
## 70                                                 18 Months
## 71                                       Delirium (Deluxe)
## 72                                 Watch The Throne (Deluxe)
## 73                                    Did You Hear the Rain?
## 74                          Bad (feat. Vassy) [Radio Edit]
## 75                                           The Lumineers
## 76                                679 (feat. Remy Boyz)
## 77                                                Pharmacy
## 78                                           White Iverson
## 79                                                      AM
## 80                                      My Everything (Deluxe)
## 81                                                      25
## 82                                             Making Mirrors
## 83                                          Unorthodox Jukebox
## 84                                                      #3
## 85                                                   Mirrors
## 86                                    Don't You Worry Child
## 87                                    Curtain Call (Deluxe)
## 88                                                      21
## 89                         Talking Dreams (Deluxe Version)
## 90                                       The Days / Nights
## 91                                         Dangerous Woman
## 92                                              Talk Dirty
## 93                         Some Nights (Spotify Exclusive)
## 94                                                 Recovery
## 95                    We Sing. We Dance. We Steal Things.
## 96                                       The New Classic
## 97                         American Beauty/American Psycho
## 98                                              Talk Dirty
## 99                                Bangerz (Deluxe Version)
```

```
## 100                                                                    Hands All Over
## 101                                                                You Know You Like It
## 102                                                                                   +
## 103                                                          Watch Me (Whip / Nae Nae)
## 104                                                                          BEYONCÉ
## 105                                                                         Geronimo
## 106                                                                          Torches
## 107                                                          BEYONCÉ [Platinum Edition]
## 108                                                         A Rush Of Blood To The Head
## 109                                                                              X & Y
## 110                                                                        Don't Mind
## 111                                                The Eminem Show (Explicit Version)
## 112                                                                    I'm an Albatraoz
## 113                                      Viva La Vida Or Death And All His Friends
## 114                                                                        Hot Fuss
## 115                                                                        Broccoli
## 116                                                         I AM...SASHA FIERCE
## 117                                                                         Nirvana
## 118                                                                        La La La
## 119                                                                       I Love It
## 120                                                                 Stop The Clocks
## 121 Summertime Sadness [Lana Del Rey vs. Cedric Gervais] (Cedric Gervais Remix)
## 122                                                                     Mylo Xyloto
## 123                                                                 Meet The Orphans
## 124                                                                   Title (Deluxe)
## 125                                                                           Birdy
## 126                                                                             VHS
## 127                                                                 Only By The Night
## 128                                                         Beauty Behind The Madness
## 129                                                                  Scream & Shout
## 130                                                       The Marshall Mathers LP2
## 131                                                               Purpose (Deluxe)
## 132                                                                          Levels
## 133           Sucker For Pain (with Logic & Ty Dolla $ign feat. X Ambassadors)
## 134                                      Pink Friday ... Roman Reloaded (Deluxe)
## 135                                                                Under Control
## 136                                                                    18 Months
## 137                                Magna Carta... Holy Grail (Explicit Version)
## 138                                                          Wild Ones (feat. Sia)
## 139                                                                         EVOL
## 140                                                                    18 Months
## 141                                                  Speakerboxxx/The Love Below
## 142                                                    Beauty Behind The Madness
## 143                                                       Babel (Deluxe Edition)
## 144                                                                   Parachutes
## 145                                                      Animals (Extended)
## 146                                                     For Emma, Forever Ago
## 147                                          Blood Sugar Sex Magik (U.S. Version)
## 148                             Where the Light Is: John Mayer Live In Los Angeles
## 149                                                 Gangnam Style (   )
## 150                                                           The Life Of Pablo
## 151                                                                Up All Night
## 152                                                 Planet Pit (Deluxe Version)
## 153                                                                Glad You Came
```

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## 154                                                  The Greatest
## 155                                                Ain't My Fault
## 156                                                         Alarm
## 157                                                Groovy People
## 158                                         Illuminate (Deluxe)
## 159                                   Is There Anybody Out There?
## 160                                           Chaos And The Calm
## 161                                           Chaos And The Calm
## 162                                         Scared to Be Lonely
## 163                                                          Skin
## 164                                      iSpy (feat. Lil Yachty)
## 165                                                American Teen
## 166                                        Pretty Boy, Dirty Boy
## 167                                                    SremmLife
## 168                                 How Far I'll Go (From "Moana")
## 169                                           "Awaken, My Love!"
## 170                                                         Fénix
## 171                                                         DAMN.
## 172                                                       Energía
## 173                                                  Savage Mode
## 174                                                         bloom
## 175                                                     El Dorado
## 176                                                            2U
## 177                                             Painting Pictures
## 178                                                            19
## 179                                                channel ORANGE
## 180                                                       Starboy
## 181                                                       Culture
## 182                                 Birds In The Trap Sing McKnight
## 183                                                Rodeo (Deluxe)
## 184                                 Birds In The Trap Sing McKnight
## 185                                                    I Decided.
## 186                                                     Wild Ones
## 187                                       Appetite For Destruction
## 188                              My Beautiful Dark Twisted Fantasy
## 189                                                        Malibu
## 190                                       2014 Forest Hills Drive
## 191                                          SremmLife 2 (Deluxe)
## 192                                                    Ahora Dice
## 193                                                       Silence
## 194                                                Stoney (Deluxe)
## 195                                                Stoney (Deluxe)
## 196                                                     Melodrama
## 197                                                Merry Christmas
## 198                                        The Beautiful & Damned
## 199                                          These Things Happen
## 200                                                 Bodak Yellow
## 201                                           Crying in the Club
## 202                                            The Bigger Artist
## 203                                                   Issa Album
## 204                                                         DAMN.
## 205                                                   reputation
## 206                                                         1989
## 207                                                American Teen
```

```
## 208                                                                  Woodstock
## 209                                                                  More Life
## 210                                                       Because The Internet
## 211                                                                  24K Magic
## 212                                                           Flicker (Deluxe)
## 213                                                           Butterfly Effect
## 214                                                                     GEMINI
## 215                                                                Younger Now
## 216                                                      The Time Of Our Lives
## 217                                                Night & Day (Night Edition)
## 218                                                                      bloom
## 219                                                                   Wildfire
## 220                                                Dusk Till Dawn (Radio Edit)
## 221                                          Made In The A.M. (Deluxe Edition)
## 222                                                     Sit Still, Look Pretty
## 223                                                        Tell Me You Love Me
## 224                                                            Please Don't Go
## 225                                           Glory Days: The Platinum Edition
## 226                                                              FOUR (Deluxe)
## 227                                                                    For You
## 228                                                 Lil Uzi Vert Vs. The World
## 229                                                 Lil Uzi Vert Vs. The World
## 230                                                              Playboi Carti
## 231                                                                    Culture
## 232                                                                    Culture
## 233                                                                         25
## 234                                                                 ÷ (Deluxe)
## 235                                                   No Sound Without Silence
## 236                                                          Save Rock And Roll
## 237                                                A Fever You Can't Sweat Out
## 238                                                                 Perception
## 239                                                                     Odisea
## 240                                                                     Odisea
## 241                                                                   Criminal
## 242                                                             T R A P S O U L
## 243                                                                 Scary Hours
## 244                                                       All Your Fault: Pt. 2
## 245                                             Immortalized (Deluxe Version)
## 246                                              Psycho (feat. Ty Dolla $ign)
## 247                                                            Joanne (Deluxe)
## 248                                           Sweet Dreams (Are Made Of This)
## 249                                                                    Tribute
## 250                                                     The Beautiful & Damned
## 251                                                                       Mine
##                    albumId danceability energy key loudness mode
## 1   1xn54DMo2qIqBuMqHtUsFd        0.781  0.445   2   -6.061    1
## 2   3Gq2Dme9nesdgoqNNlcN8O        0.630  0.815   2   -4.265    1
## 3   22rp3PnM3q2mtTI0OGCzpq        0.534  0.868  11   -5.057    1
## 4   1YCRXKLDRB0UnbrFUJ4F6e        0.580  0.531   5   -6.631    0
## 5   2ODvWsOgouMbaA5xf0RkJe        0.675  0.595   7   -7.033    1
## 6   6Fr2rQkZ383FcMqFyT7yPr        0.837  0.571   5   -8.273    0
## 7   3cQO7jp5S9qLBoIVtbkSM1        0.734  0.637   4   -5.677    0
## 8   5qnvJbamuZLbsasuYKRy1l        0.618  0.793   2   -4.777    1
## 9   7oiJYvEJHsmYtrgviAVIBD        0.358  0.557  10   -7.398    1
```

```
## 10  0CnQ0JQajNswRjPkNYVG8m       0.751  0.744  10   -6.604    0
## 11  0K4pIOOsfJ9lK8OjrZfXzd       0.481  0.451   5   -6.095    0
## 12  04E0aLUdCHnhnnYrDDvcHq       0.566  0.664   4   -5.303    0
## 13  19O3rXe4nDu9YDcc2tOQVn       0.599  0.538  11   -6.300    1
## 14  4eLPsYPBmXABThSJ821sqY       0.904  0.611   1   -6.842    0
## 15  2AJaA0is5qbaqFy77tPl7B       0.455  0.797  10   -4.133    0
## 16  48Q27KoyKp38caYPuy0KXD       0.416  0.430   0   -6.516    1
## 17  02tTjKlh9iQ5jlWYPbKLJZ       0.689  0.481  10   -7.503    1
## 18  2sRnJq6dfXdqhIflBk0ve1       0.479  0.545   7   -7.346    1
## 19  40GMAhriYJRO1rsY4YdrZb       0.903  0.621   2   -8.132    1
## 20  6bfkwBrGYKJFk6Z4QVyjxd       0.432  0.781   4   -4.038    0
## 21  0cHT4ll3sEPyFFWoFuibMl       0.576  0.777  10   -5.035    0
## 22  7mRliFLzSnVPzjO0sSy3ar       0.599  0.667   7   -4.267    1
## 23  4CZVGlURM8vncG4ftZULTS       0.732  0.750  11   -6.366    0
## 24  6htgf3qv7vGcsdxLCDxKp8       0.478  0.799   9   -3.614    1
## 25  28ZKQMoNBB0etKXZ97G2SN       0.356  0.567   0   -7.011    0
## 26  4PgleR09JVnm3zY1fW3XBA       0.853  0.560   1   -4.961    1
## 27  38WMYJ0LhCKAiRflk43Xt9       0.255  0.652   5   -5.909    0
## 28  3cQO7jp5S9qLBoIVtbkSM1       0.645  0.713   6   -5.355    1
## 29  1FOJ5IXGXe8dl0cXvCU6wK       0.501  0.519   4   -5.880    0
## 30  51s30K7a36ORx6AAaPBRRY       0.604  0.826   0   -4.804    1
## 31  76FXHQhTuT4QMIxfL09gX8       0.641  0.922   2   -4.457    1
## 32  3OZgEywV4krCZ814pTJWr7       0.650  0.728   6   -5.914    0
## 33  2gKQvajkEEaDtkqJ8FJ4uw       0.746  0.873   7   -3.803    1
## 34  1tXHmyPSfn6gJHkAifLGDj       0.662  0.757   5   -6.818    0
## 35  4YtTX4GPvBvewbJvBfXCS2       0.833  0.434   2   -8.795    1
## 36  2rDIivxBafNKpgRqlzIRSb       0.703  0.789   0   -3.423    0
## 37  5MQBzs5YlZlE28mD9yUItn       0.646  0.587   6   -6.139    1
## 38  0IGsZsrvIe5AQKvMmVobYq       0.603  0.861   4   -3.565    0
## 39  1sd9bVAWxBl0qeVS8tzlzL       0.583  0.732  11   -5.728    0
## 40  1xn54DMo2qIqBuMqHtUsFd       0.641  0.176   6  -11.692    1
## 41  64fQ94AVziavTPdnkCS6Nj       0.681  0.715   9   -6.318    1
## 42  0RZ4Ct4vegYBmL9g88TBNi       0.774  0.756   1   -4.995    1
## 43  3mNoFlD1wsoXfkljfFzExT       0.578  0.866   1   -3.804    1
## 44  2F7tejLHzTqFq2XLol9ZGy       0.581  0.963  11   -4.087    1
## 45  1YxmW7DO2dM05gwMKTbr7l       0.924  0.543   9   -7.474    0
## 46  2f7kOrpFos0njurSOi2zqL       0.671  0.916   6   -4.014    0
## 47  2Jg7JZ0ZXOGje1bkq7CVgK       0.453  0.496   5   -5.785    1
## 48  5YnGwVQx2OQ4CpcQeVDthP       0.461  0.834   2   -4.868    1
## 49  6bJBlSpM6U9efi4HmlNv1a       0.412  0.859   0   -4.095    0
## 50  2Gf7TGoOt6FyRi7p32OzUM       0.811  0.879   9   -3.724    1
## 51  2AyPe61zX0w8qipMCFopUA       0.657  0.827   5   -4.036    1
## 52  0rmhjUgoVa17LZuS8xWQ3v       0.616  0.432   7   -9.546    1
## 53  48zisMeiXniWLzOQghbPqS       0.646  0.823   2   -4.123    0
## 54  2dBgWXp41imu2zBNv9oFxZ       0.628  0.690   8   -5.828    1
## 55  5v6iBhIlflzR9rEd1LAMbd       0.794  0.646   0   -6.235    1
## 56  7dqftJ3kas6D0VAdmt3k3V       0.573  0.732   6   -3.847    0
## 57  7yBl4uFyJzH48Vy6tPieXL       0.576  0.267   2   -5.668    1
## 58  6EVYTRG1drKdO8OnIQBeEj       0.687  0.702   7   -5.324    0
## 59  7FbUyvtDTsoGMhTlGOtv5q       0.600  0.670   5   -6.455    0
## 60  3UEEPh5wsdhP7SKC31yvhu       0.596  0.730   9   -4.091    1
## 61  6i7WCdMCeqUKte5zU8DUUA       0.459  0.741   4   -6.430    0
## 62  3xFSl9lIRaYXIYkIn3OIl9       0.421  0.791   9   -4.998    1
## 63  5aprcHwM1KJhaY9Kbxkfkn       0.599  0.803   0   -3.641    0
```

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## 64  7LnU0hAOYe9aq91PCKMI7A       0.723  0.711   0   -5.576    0
## 65  1ozpmkWcCHwsQ4QTnxOOdT       0.853  0.547   1   -7.535    1
## 66  7KBjLhk3IM27k3ry4vBk3i       0.726  0.698   5   -4.165    1
## 67  3KVeczHxWg5YFKb0gS62f2       0.516  0.772  10   -5.031    0
## 68  0tRVSbmOwilUucqjzU0fQw       0.510  0.747   5   -4.124    1
## 69  1j4y4oErsQ2dIiZXClg1Zc       0.699  0.883   5   -3.226    0
## 70  7w19PFbxAjwZ7UVNp9z0uT       0.738  0.776   1   -4.808    1
## 71  5nhoVKDcCXvi3AruUFJWnv       0.697  0.687   2   -6.574    0
## 72  1YwzJz7CrV9fd9Qeb6oo1d       0.786  0.868   1   -5.503    1
## 73  17a7gzqcZt6SjXRQVoXN6M       0.706  0.247   5  -17.961    1
## 74  6CvEd1L1KJZ8g3wIwCZYvF       0.614  0.972   5   -3.927    0
## 75  155N1gV0cIFYaLiy3I5d83       0.685  0.466   0   -9.074    1
## 76  0TyDTzG2zt2tg0wONT9wSU       0.618  0.717   7   -5.738    1
## 77  4QcXq4vTVN7dFb7bZa9jG2       0.506  0.805   1   -4.119    1
## 78  7ENlsUA8w1nfUSFtpACj1A       0.669  0.521   7   -8.732    1
## 79  5bU1XKYxHhEwukllT2Oxtk       0.548  0.532   5   -7.596    1
## 80  6EVYTRG1drKdO8OnIQBeEj       0.628  0.593   8   -5.036    1
## 81  0K4pIOOsfJ9lK8OjrZfXzd       0.690  0.524   6   -8.390    0
## 82  1HjSyGjmLNjRAKgT9t1cna       0.857  0.517   0   -6.972    1
## 83  58ufpQsJ1DS5kq4hhzQDiI       0.612  0.280   0   -8.648    1
## 84  63eaHsLLsW1e5ISNf7ISZy       0.421  0.873  10   -4.343    1
## 85  2OMDL0qyQF7nk2tRJE8RmD       0.344  0.509   5   -6.607    0
## 86  3RKhRsifs4RWrqvWV1YpPY       0.612  0.840  11   -3.145    0
## 87  5qENHeCSlwWpEzb25peRmQ       0.698  0.732   2   -4.522    1
## 88  1azUkThwd2HfUDdeNeT147       0.559  0.330   9   -8.251    1
## 89  1oHY6eQmEG8skElDvFgKz2       0.719  0.671   8   -6.279    1
## 90  0h2knr6qpiAq0tV5ri5JMF       0.528  0.852   6   -5.294    1
## 91  3OZgEywV4krCZ814pTJWr7       0.672  0.605   7   -5.353    1
## 92  4PeZu0It7qVrTG40t3HM9A       0.635  0.691   0   -4.862    1
## 93  7iycyHwOW2plljYIK6I1Zo       0.378  0.638  10   -5.576    1
## 94  47BiFcV59TQi2s9SkBo2pb       0.647  0.924  10   -4.957    1
## 95  04G0YylSjvDQZrjOfE5jA5       0.686  0.457  11   -8.322    1
## 96  3r51pg8BwnjazLJlW6dJIh       0.741  0.726   3   -3.770    0
## 97  022DrG7Wp2PSCwzuD0bSzT       0.385  0.866   4   -2.817    0
## 98  4PeZu0It7qVrTG40t3HM9A       0.697  0.621   9   -6.886    0
## 99  3RDqXDc1bAETps54MSSOW0       0.613  0.622   1   -5.794    0
## 100 7strNUlU6xZqlVWBNUdOYv       0.714  0.748  11   -4.471    0
## 101 6mQGo1a9mXHNUSJYwXi9Wd       0.426  0.722   5   -5.369    0
## 102 0W5GGnapMz0VwemQvJDqa7       0.642  0.289   9   -9.918    1
## 103 5nYi5TJ16E7Qt73zxOu6sP       0.825  0.770   8   -8.508    1
## 104 2noKUZhXwUhPQMgSr56T4G       0.589  0.621   5   -6.902    0
## 105 2nqmAIxUXON1qlX754E2QE       0.707  0.771   7   -6.275    1
## 106 7Kmmw7Z5D2UD5MVwdm10sT       0.733  0.710   5   -5.849    0
## 107 2UJwKSBUz6rtW4QLK74kQu       0.747  0.705   9   -5.137    0
## 108 0RHX9XECH8IVI3LNgWDpmQ       0.560  0.442   5   -7.224    1
## 109 4E7bV0pzG0LciBSWTszra6       0.209  0.418   3   -8.740    1
## 110 0l28Q1FFEA0mtpEdEQw1r3       0.464  0.771   8   -4.503    1
## 111 2cWBwpqMsDJC1ZUwz813lo       0.572  0.853   1   -3.203    1
## 112 1qHVYbxQ6IS8YRviorKDJI       0.883  0.817   0   -5.414    1
## 113 1CEODgTmTwLyabvwd7HBty       0.485  0.619   5   -7.115    0
## 114 4undIeGmofnAYKhnDclN1w       0.330  0.936   1   -3.660    1
## 115 4mchkmnzdTYIEAnw2FijA3       0.886  0.525   8   -7.390    1
## 116 39P7VD7qlg3Z0ltq60eHp7       0.508  0.720  11   -5.908    0
## 117 4v62Eu3WGIFCBMy9WlD7hY       0.634  0.815   2   -6.200    1
```

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## 118 6aVklixrWOv1xQvBw2GNdp        0.732  0.727   6   -3.708    0
## 119 5hf74KpfuwSJXVs85k3dVI        0.714  0.905   8   -2.663    1
## 120 5VkPS9sK4VYUUeHG0icQmI        0.410  0.893   6   -4.347    0
## 121 1fXwOvaqIdkhp5F3fiFbCv        0.564  0.811   1   -5.734    0
## 122 2R7iJz5uaHjLEVnMkloO18        0.449  0.585   5   -6.762    1
## 123 6mGDfbDErYIJsmSewvccWm        0.467  0.920   0   -4.780    1
## 124 5W98Ab4VvQEuFEE4TIe5fE        0.775  0.825   7   -5.402    1
## 125 1WGjSVIw0TVfbp5KrOFiP0        0.379  0.290   4   -8.485    1
## 126 7A8fZ2jjiu5heq7wNCutKN        0.400  0.868  11   -5.988    0
## 127 5CZR6ljD0x9fTiS4mh9wMp        0.542  0.905   9   -5.653    1
## 128 28ZKQMoNBB0etKXZ97G2SN        0.571  0.612   7   -9.851    0
## 129 0Ok0IMC5NSUcPRsepUovzG        0.782  0.617   5   -7.385    1
## 130 3vOgbDjgsZBAPwV2M3bNOj        0.686  0.845   7   -2.679    1
## 131 6Fr2rQkZ383FcMqFyT7yPr        0.314  0.611   9   -6.691    0
## 132 0zt41iQaqe4tyVknMwNNps        0.605  0.873   1   -5.938    0
## 133 704GHNtZhEe9TBgleCNNGv        0.502  0.786   9   -4.378    0
## 134 6fABwONLawdFjkDpLx41j8        0.748  0.727  11   -2.420    0
## 135 0Kl9iqjYkpiL3YOxpjNx9v        0.550  0.919   8   -3.431    1
## 136 7w19PFbxAjwZ7UVNp9z0uT        0.573  0.929   8   -3.942    0
## 137 0OTjYdGtP7AbwOwbYsGhyi        0.685  0.539   2   -6.964    0
## 138 0dNtcQ9V2sXifWktjrspYP        0.624  0.889   5   -3.772    0
## 139 3jJKDKdlwRS584zUlHV2Ly        0.722  0.331   8   -7.789    1
## 140 7w19PFbxAjwZ7UVNp9z0uT        0.707  0.924   7   -2.842    1
## 141 1UsmQ3bpJTyK6ygoOOjG1r        0.728  0.974   4   -2.261    0
## 142 0P3oVJBFOv3TDXlYRhGL7s        0.317  0.683   7   -4.989    1
## 143 1SKwteICgxOCIoqtCUqpR6        0.485  0.735   1   -5.929    1
## 144 6ZG5lRT77aJ3btmArcykra        0.429  0.661  11   -7.227    1
## 145 55HXtmTsfepv0mY9vIIFhi        0.675  0.866   1   -6.454    1
## 146 4SxFsOO0h4Nz3lFJuysKq5        0.593  0.263   4  -14.029    0
## 147 1DCI2yWmV4UI7Aga71yx9B        0.559  0.345   4  -13.496    1
## 148 4Dgxy95K9BWkDUvQPTaYBb        0.315  0.296   5  -13.262    1
## 149 0ZjxizLeMyFEjR27JIvD99        0.736  0.939  11   -2.812    0
## 150 7gsWAHLeT0w7es6FofOXk1        0.474  0.741   6   -3.690    1
## 151 53DrBEDi1AvhWOtCdljUiu        0.729  0.771   4   -2.451    1
## 152 4rG0MhkU6UojACJxkMHIXB        0.671  0.939   8   -3.206    1
## 153 2ZmXUoLcHfK4Y7WctcYk60        0.698  0.844   7   -4.549    0
## 154 77HfZENS166sAS9SUoBwYG        0.666  0.723   1   -6.164    1
## 155 1w0fs0y7Kb83F6ZmPpTDIB        0.576  0.782   6   -4.825    0
## 156 2Z3HQO6NL3812mnNj7htXv        0.756  0.589   0   -5.093    1
## 157 2a8IWtMGQl8oIA3lUtLDQw        0.592  0.655   1   -8.385    1
## 158 2AJaA0is5qbaqFy77tPl7B        0.568  0.686  11   -4.901    0
## 159 1yOcLa4euMk9sV7rRJ89Dl        0.407  0.147   2   -8.822    1
## 160 5BxvswQSGWrBbVCdx6mFGO        0.568  0.293   1  -10.253    1
## 161 5BxvswQSGWrBbVCdx6mFGO        0.718  0.702   5   -7.292    1
## 162 2v9rQe4F8fVSh5v8bAq0jF        0.584  0.540   1   -7.786    0
## 163 6VHCF8ykDo3STafE5JfMAs        0.598  0.532   3   -6.833    0
## 164 15qLmAABocTCRBSbWWqL7K        0.746  0.653   7   -6.745    1
## 165 6kf46HbnYCZzP6rjvQHYzg        0.736  0.449   1  -11.462    0
## 166 3PomvFR694SrCSZzDWMWV7        0.730  0.701   5   -5.885    0
## 167 6eDx949ONWDCN0O22wFZf7        0.888  0.483   6   -7.797    1
## 168 2ho9l951XwxpBFEEjubOUx        0.315  0.563   9   -9.671    1
## 169 4xnq1L6P551Qcb9gBXNMK7        0.743  0.359   1  -10.401    1
## 170 2dBgWXp41imu2zBNv9oFxZ        0.683  0.691   8   -5.535    1
## 171 4eLPsYPBmXABThSJ821sqY        0.637  0.514   1   -6.763    1
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## 172 4cGc9Eeb3Gjff2Aq5ILLEf        0.707  0.686   0   -4.328    1
## 173 4I3EcXD4e3KcEoDJfFEZ5b        0.835  0.413   1   -9.810    1
## 174 3yWRq9Dd2UO5xyqxTjLDmp        0.675  0.690   2   -4.761    1
## 175 6bUxh58rYTL67FS8dyTKMN        0.736  0.964   0   -2.147    1
## 176 0EYVu7ginQ5nPsQj3woBAQ        0.542  0.654   8   -5.862    0
## 177 5mG8oNkNKM2my7t9ywra96        0.497  0.489  11   -7.724    0
## 178 6Pb3K1oPXdhsqFXtzKe3Z1        0.325  0.180  10  -10.647    1
## 179 392p3shh2jkxUxY2VHvlH8        0.716  0.350   0  -11.094    1
## 180 2ODvWsOgouMbaA5xf0RkJe        0.585  0.612   1   -8.341    1
## 181 2AvupjUeMnSffKEV05x222        0.927  0.665  11   -5.313    1
## 182 42WVQWuf1teDysXiOupIZt        0.711  0.739   7   -3.804    0
## 183 4PWBTB6NYSKQwfo79I3prg        0.713  0.526   1   -5.046    1
## 184 42WVQWuf1teDysXiOupIZt        0.841  0.728   7   -3.370    1
## 185 0XAIjjN5qxViVS0Y5fYkar        0.770  0.567   2   -5.698    1
## 186 7eLwoxxWs6lfkVYJGkGNbk        0.608  0.860   5   -5.324    0
## 187 5JKFiC2WVi9HtvJEm8CUB8        0.449  0.901   6   -7.711    1
## 188 20r762YmB5HeofjMCiPMLv        0.538  0.912   0   -4.684    0
## 189 7CUczABBlsbd5fqng9mjxo        0.565  0.782   8   -6.413    1
## 190 7viNUmZZ8ztn2UB4XB3jIL        0.504  0.705   6   -8.205    0
## 191 5v6iBhIlflzR9rEd1LAMbd        0.678  0.317   8   -9.427    1
## 192 7JiRyDVQealzbiLq8b1mOb        0.706  0.689   6   -5.533    1
## 193 2bw00gRKNKbTFOqCkohbSh        0.520  0.761   4   -3.093    1
## 194 5s0rmjP8XOPhP6HhqOhuyC        0.573  0.543   8   -5.357    0
## 195 5s0rmjP8XOPhP6HhqOhuyC        0.662  0.496   5   -8.267    1
## 196 4oCGmYsAQOWt2ACWTpNUU6        0.598  0.731   9   -7.776    1
## 197 61ulfFSmmxMhc2wCdmdMkN        0.335  0.625   7   -7.462    1
## 198 1VAc77UvK5wj8ZSWCo3V2b        0.838  0.771   1   -3.791    1
## 199 6wDc63NhKy2PyXdbhkRmrl        0.712  0.562  10   -6.008    1
## 200 1wpgafbHuQfSUmCWvahFlq        0.929  0.723  11   -5.792    0
## 201 7s5gKFHMzzMHyLE2KFXNkR        0.334  0.617   6   -5.834    0
## 202 3HHp5I6Q6SEyU5bkvoCtnV        0.839  0.810   5   -5.274    0
## 203 4QUNWTw2FsIz722xjUjFJw        0.884  0.346   8   -8.228    0
## 204 4eLPsYPBmXABThSJ821sqY        0.798  0.582  10   -7.380    1
## 205 6DEjYFkNZh67HP7R9PSZvv        0.769  0.709   9   -6.432    0
## 206 2QJmrSgbdM35R67eoGQo4j        0.653  0.799   7   -5.359    1
## 207 6kf46HbnYCZzP6rjvQHYzg        0.798  0.539   1   -6.351    1
## 208 4VzzEviJGYUtAeSsJlI9QB        0.801  0.795   1   -5.115    0
## 209 1lXY618HWkwYKJWBRYR4MK        0.924  0.444   1   -8.227    1
## 210 0zi2TaQkYxfXIBvl2yTjQJ        0.473  0.461   6   -6.474    0
## 211 4PgleR09JVnm3zY1fW3XBA        0.578  0.574   2   -6.209    1
## 212 7ahctQBwcSxDdP0fRAPo2p        0.726  0.431   0   -6.666    1
## 213 4fOw7xSDwqb58Z2Qia5j81        0.763  0.598  11   -6.865    1
## 214 72qA6s4fjF8Y2VX1UDMfp2        0.731  0.794   0   -5.126    0
## 215 5xG9gJcs9ut3qDWezHUlsX        0.573  0.781   8   -6.406    1
## 216 64aKkqxc3Ur2LYIKeS5osS        0.454  0.708  10   -4.526    0
## 217 69Pj3ce9XFZUi3XuQylLKf        0.538  0.817   8   -5.202    1
## 218 6i34bwPf5FpNf0nh7sIXhv        0.677  0.694   2   -4.752    1
## 219 0mFDIOqypzHp6Xd0el1hoT        0.564  0.714   7   -4.987    1
## 220 5l5gR4rh26QI3fijGFTDrp        0.258  0.437  11   -6.593    0
## 221 1gMxiQQSg5zeu4htBosASY        0.655  0.699  11   -4.421    1
## 222 0T8SCja56F4lhZXyOcBTIV        0.657  0.739   2   -4.081    1
## 223 233yswCIc7oCFpZ2M9t0wa        0.702  0.635  11   -6.917    0
## 224 2SF8Wbc61u8hlQkZYGVCnx        0.513  0.768   4   -4.868    0
## 225 5DL2Z5x7UJsWH1HhE9j8nd        0.773  0.747   5   -4.061    1
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## 226 4gCNyS7pidfK3rKWhB3JOY        0.536  0.768  10   -5.948    0
## 227 78GeZ5IA1KSbIOMiR4bAhH        0.616  0.778   7   -4.927    0
## 228 7mgdTKTCdfnLoa1HXHvLYM        0.795  0.568   5   -7.817    0
## 229 7mgdTKTCdfnLoa1HXHvLYM        0.843  0.359   0   -7.417    1
## 230 4rJgzzfFHAVFhCSt2P4I3j        0.791  0.586  11   -7.372    0
## 231 2AvupjUeMnSffKEV05x222        0.920  0.674   1   -5.662    0
## 232 2AvupjUeMnSffKEV05x222        0.865  0.687  10   -3.744    0
## 233 0K4pIOOsfJ9lK8OjrZfXzd        0.381  0.594   3   -5.970    1
## 234 3T4tUhGYeRNVUGevb0wThu        0.761  0.386   4   -6.158    1
## 235 6yd9yk8nFcHalXzy7mgaDx        0.491  0.885   3   -4.121    1
## 236 0EVJX4RlYKuApsAN5CaDa3        0.561  0.927   9   -4.374    0
## 237 2YeOhhJg3OWpN0F1VYPxtW        0.567  0.795   9   -4.985    0
## 238 1KOmHyNLuOe5YrPhD3Juuf        0.656  0.721   5   -5.665    0
## 239 4s05NbwGgw5SO42AdsN5Oo        0.739  0.821   1   -4.233    1
## 240 4s05NbwGgw5SO42AdsN5Oo        0.748  0.565   7   -5.895    1
## 241 0S19ks6TFDHZKEYWFvrRm0        0.814  0.813   2   -3.023    0
## 242 6eZdwrhB97A3EYx9QppGfl        0.530  0.433   6  -10.598    1
## 243 1r0DOIO0iC0bGpMtWRFdde        0.753  0.454   7   -9.488    1
## 244 6t5D6LEgHxqUVOxJItkzfb        0.643  0.783  10   -6.458    1
## 245 1ROVEUk4lc2vD4a0IN1TWS        0.322  0.280   6   -9.367    0
## 246 60uZsjVd3pN4lgT1nYzMxW        0.740  0.558   8   -8.115    1
## 247 2ZUwFxlWo0gwTsvZ6L4Meh        0.665  0.424   0   -7.838    1
## 248 5jNDWA19BJbE24x1UUJGRY        0.692  0.711   0   -7.498    0
## 249 7ybleSrN0ZT3bci5WZ6puk        0.497  0.884   2   -4.717    0
## 250 1VAc77UvK5wj8ZSWCo3V2b        0.589  0.731   2   -6.343    1
## 251 5TR37lsXlmSmzFuIcXn5Dp        0.716  0.805   4   -3.839    1
##     speechiness acousticness instrumentalness liveness valence   tempo
## 1        0.0295     0.474000         0.00e+00   0.1840  0.5910  78.998
## 2        0.1520     0.222000         0.00e+00   0.0910  0.8130  88.357
## 3        0.2060     0.190000         3.18e-03   0.1480  0.4060 159.757
## 4        0.0776     0.128000         1.27e-04   0.1430  0.1410 159.786
## 5        0.2840     0.168000         3.36e-06   0.1360  0.4910 185.998
## 6        0.0922     0.610000         8.98e-04   0.0849  0.8010 125.034
## 7        0.1410     0.046200         2.29e-05   0.0602  0.6480 169.977
## 8        0.1510     0.200000         0.00e+00   0.1060  0.8740  88.387
## 9        0.0590     0.695000         0.00e+00   0.0902  0.4940  85.043
## 10       0.0671     0.018600         0.00e+00   0.0447  0.7700 149.961
## 11       0.0347     0.336000         0.00e+00   0.0872  0.2890 157.966
## 12       0.0464     0.634000         0.00e+00   0.1160  0.4370 128.945
## 13       0.1710     0.064000         0.00e+00   0.0927  0.5600 183.941
## 14       0.0888     0.000259         2.03e-05   0.0976  0.4000 150.020
## 15       0.3600     0.132000         0.00e+00   0.1100  0.7570 165.717
## 16       0.0408     0.559000         2.44e-04   0.1100  0.1770  84.406
## 17       0.0815     0.369000         1.03e-06   0.0649  0.2830  80.025
## 18       0.0688     0.365000         0.00e+00   0.0963  0.2440  74.897
## 19       0.0578     0.003020         1.86e-04   0.0504  0.5530 134.969
## 20       0.0567     0.041000         4.21e-06   0.0789  0.1970 139.432
## 21       0.4580     0.023100         0.00e+00   0.3660  0.2590 145.200
## 22       0.0367     0.053300         0.00e+00   0.1340  0.8170  80.984
## 23       0.2310     0.002640         0.00e+00   0.1090  0.4010 155.096
## 24       0.0638     0.126000         1.06e-04   0.7600  0.1760 136.268
## 25       0.0798     0.086100         0.00e+00   0.1370  0.1090 135.553
## 26       0.0406     0.013000         0.00e+00   0.0944  0.8600 134.066
## 27       0.0614     0.246000         0.00e+00   0.1190  0.2810 189.633
```

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## 28       0.0393     0.008350         0.00e+00   0.1130  0.5660  74.989
## 29       0.0409     0.109000         0.00e+00   0.4540  0.1680 133.990
## 30       0.0434     0.007820         1.50e-01   0.1540  0.2410 167.985
## 31       0.0786     0.029100         0.00e+00   0.0862  0.8470 146.078
## 32       0.2320     0.037300         0.00e+00   0.3280  0.6190 159.167
## 33       0.1280     0.024400         0.00e+00   0.3540  0.8170 148.075
## 34       0.1440     0.291000         0.00e+00   0.0885  0.9620 159.945
## 35       0.4310     0.010200         2.19e-02   0.1650  0.2810 150.062
## 36       0.0928     0.292000         0.00e+00   0.3770  0.7610 150.058
## 37       0.0528     0.004030         0.00e+00   0.1450  0.3410 131.932
## 38       0.0325     0.021500         4.30e-02   0.1000  0.7200 127.962
## 39       0.0457     0.003120         9.86e-06   0.2690  0.2760 145.992
## 40       0.0349     0.638000         5.14e-06   0.2520  0.2970  76.031
## 41       0.0388     0.078000         0.00e+00   0.2750  0.5930 127.429
## 42       0.0389     0.042300         0.00e+00   0.3050  0.9310 144.032
## 43       0.0619     0.007010         0.00e+00   0.2570  0.6190 128.038
## 44       0.0981     0.029500         0.00e+00   0.1390  0.7880 129.992
## 45       0.2980     0.182000         0.00e+00   0.1030  0.7360 133.907
## 46       0.0397     0.028200         7.62e-03   0.2400  0.8030 126.010
## 47       0.0453     0.554000         2.65e-05   0.0772  0.5010  80.994
## 48       0.0989     0.023200         1.14e-05   0.1400  0.4710 135.007
## 49       0.0852     0.028200         7.15e-03   0.4040  0.3690 127.934
## 50       0.0514     0.047600         1.91e-06   0.1090  0.9620 134.064
## 51       0.0734     0.000704         5.34e-03   0.0650  0.6900 145.889
## 52       0.1330     0.106000         0.00e+00   0.1320  0.3020  84.778
## 53       0.0394     0.213000         0.00e+00   0.3220  0.4180 128.035
## 54       0.0511     0.446000         0.00e+00   0.1120  0.6620 179.911
## 55       0.0614     0.130000         0.00e+00   0.1400  0.3220 145.931
## 56       0.0498     0.257000         0.00e+00   0.1720  0.6170 128.074
## 57       0.0440     0.878000         0.00e+00   0.1190  0.3260 205.888
## 58       0.0455     0.006400         4.35e-05   0.2040  0.2840 129.956
## 59       0.0538     0.174000         0.00e+00   0.0746  0.2500  88.955
## 60       0.1510     0.240000         0.00e+00   0.3250  0.5250  85.979
## 61       0.0495     0.000189         0.00e+00   0.4810  0.3440 189.879
## 62       0.0496     0.011700         1.48e-05   0.1460  0.4990 130.075
## 63       0.0986     0.069000         1.37e-01   0.1290  0.2330 126.057
## 64       0.0378     0.099700         0.00e+00   0.0528  0.6060 138.098
## 65       0.1940     0.056500         0.00e+00   0.3410  0.6760 142.065
## 66       0.0431     0.049000         0.00e+00   0.3090  0.8670 143.994
## 67       0.0476     0.296000         0.00e+00   0.1010  0.3230  87.038
## 68       0.0651     0.031000         0.00e+00   0.2330  0.3470 125.951
## 69       0.2190     0.028800         0.00e+00   0.8170  0.4990 127.961
## 70       0.0392     0.023400         1.80e-03   0.0775  0.6080 127.984
## 71       0.0537     0.279000         5.11e-06   0.0861  0.7500 154.921
## 72       0.3000     0.135000         0.00e+00   0.2180  0.7710 140.024
## 73       0.0311     0.261000         0.00e+00   0.1030  0.4240 127.812
## 74       0.0880     0.001250         1.86e-02   0.3280  0.4110 127.966
## 75       0.0304     0.794000         2.06e-06   0.0915  0.3530  79.936
## 76       0.3180     0.002560         0.00e+00   0.6250  0.6030 190.050
## 77       0.0469     0.007110         1.93e-03   0.0856  0.3830 126.008
## 78       0.0366     0.236000         0.00e+00   0.0802  0.3270 130.071
## 79       0.0323     0.186000         2.63e-04   0.2170  0.4050  85.030
## 80       0.0323     0.093000         1.65e-06   0.0960  0.1040 125.026
## 81       0.1030     0.041500         3.16e-06   0.1700  0.5620 164.023
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## 82       0.0384     0.565000         1.95e-04   0.1020  0.7540 129.063
## 83       0.0434     0.932000         0.00e+00   0.0880  0.3870  72.795
## 84       0.0565     0.065300         0.00e+00   0.1230  0.6300  84.803
## 85       0.0722     0.240000         0.00e+00   0.0830  0.5290  76.004
## 86       0.0509     0.112000         0.00e+00   0.1160  0.4380 129.042
## 87       0.2660     0.007040         6.47e-04   0.3590  0.0689 171.431
## 88       0.0285     0.892000         0.00e+00   0.0975  0.2850 135.109
## 89       0.0336     0.037200         8.21e-06   0.1200  0.7860 130.027
## 90       0.0435     0.018100         0.00e+00   0.2420  0.6470 126.012
## 91       0.0378     0.049900         0.00e+00   0.3570  0.2970 134.015
## 92       0.2580     0.555000         0.00e+00   0.0970  0.6380  82.142
## 93       0.0750     0.020000         7.66e-05   0.0849  0.7350 184.086
## 94       0.3300     0.250000         0.00e+00   0.5190  0.6140 173.962
## 95       0.0468     0.595000         0.00e+00   0.1050  0.7180 150.953
## 96       0.1430     0.181000         1.89e-04   0.1110  0.5270 163.991
## 97       0.0697     0.004000         0.00e+00   0.1110  0.5510 176.014
## 98       0.2500     0.080200         0.00e+00   0.1620  0.7210  81.946
## 99       0.0334     0.008820         0.00e+00   0.3700  0.4840  80.003
## 100      0.0546     0.010600         0.00e+00   0.3250  0.5860 128.030
## 101      0.1960     0.011300         1.27e-06   0.2620  0.2500 196.133
## 102      0.0367     0.669000         0.00e+00   0.1800  0.4070  84.996
## 103      0.1340     0.265000         0.00e+00   0.3340  0.9650 139.982
## 104      0.0468     0.009690         1.04e-03   0.1810  0.4010 140.030
## 105      0.0783     0.434000         1.30e-03   0.1150  0.4370 142.016
## 106      0.0292     0.145000         1.15e-01   0.0956  0.9650 127.975
## 107      0.1260     0.012800         0.00e+00   0.1260  0.5600 136.024
## 108      0.0243     0.727000         1.71e-05   0.1100  0.2120 146.448
## 109      0.0338     0.163000         1.95e-03   0.1130  0.1230 138.265
## 110      0.3360     0.023500         0.00e+00   0.0630  0.6900 158.777
## 111      0.2170     0.075700         0.00e+00   0.0798  0.1020 171.297
## 112      0.2350     0.601000         4.49e-03   0.1100  0.5950 128.078
## 113      0.0289     0.094100         3.31e-06   0.1090  0.4160 138.017
## 114      0.0917     0.001080         0.00e+00   0.0926  0.2340 148.112
## 115      0.1320     0.236000         0.00e+00   0.0570  0.7080 145.990
## 116      0.0628     0.272000         0.00e+00   0.0563  0.4720  79.983
## 117      0.1680     0.188000         2.76e-04   0.1740  0.7080 133.963
## 118      0.0295     0.102000         0.00e+00   0.1120  0.2430 125.062
## 119      0.0289     0.008550         2.55e-05   0.1460  0.8380 125.927
## 120      0.0342     0.000714         0.00e+00   0.2020  0.6880 174.648
## 121      0.0513     0.015300         8.72e-06   0.1250  0.1140 126.007
## 122      0.0268     0.052200         8.49e-05   0.0833  0.2030 139.627
## 123      0.2390     0.081300         0.00e+00   0.0494  0.8490 130.012
## 124      0.0464     0.050600         1.03e-06   0.1110  0.9500 139.091
## 125      0.0510     0.952000         1.06e-03   0.1180  0.1690 166.467
## 126      0.2030     0.011200         6.85e-02   0.2700  0.5700 180.261
## 127      0.0540     0.001720         1.04e-02   0.1360  0.3740 153.398
## 128      0.0450     0.229000         0.00e+00   0.1270  0.0812 133.995
## 129      0.0535     0.045300         1.87e-04   0.1430  0.4950 130.032
## 130      0.3280     0.397000         0.00e+00   0.7860  0.6120  73.971
## 131      0.1290     0.042700         6.28e-05   0.1840  0.0604 191.447
## 132      0.0344     0.053400         8.37e-01   0.3140  0.4760 126.026
## 133      0.3170     0.255000         0.00e+00   0.6500  0.7390 169.021
## 134      0.0871     0.167000         0.00e+00   0.1660  0.6900 125.014
## 135      0.0786     0.137000         1.23e-03   0.0886  0.5110 126.065
```

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## 136      0.1090     0.197000         1.12e-04   0.0567  0.5820 127.934
## 137      0.0908     0.063500         8.12e-06   0.2490  0.1570 145.075
## 138      0.0504     0.101000         0.00e+00   0.2270  0.4500 127.019
## 139      0.0725     0.337000         2.83e-01   0.1460  0.1020 143.974
## 140      0.0310     0.000972         7.03e-03   0.2040  0.9190 127.937
## 141      0.0665     0.103000         5.32e-04   0.1750  0.9650  79.526
## 142      0.1340     0.079400         0.00e+00   0.0465  0.5380 167.615
## 143      0.0334     0.010000         7.94e-03   0.2130  0.4560 131.234
## 144      0.0281     0.002390         1.30e-04   0.2340  0.2850 173.365
## 145      0.0390     0.001810         7.46e-01   0.4150  0.0379 128.007
## 146      0.0567     0.844000         5.36e-06   0.1270  0.1090  76.379
## 147      0.0459     0.057600         1.05e-04   0.1410  0.4580  84.581
## 148      0.0317     0.771000         0.00e+00   0.7020  0.4360 172.638
## 149      0.2840     0.005500         0.00e+00   0.0905  0.7610 132.070
## 150      0.1110     0.060200         0.00e+00   0.1150  0.4020 174.100
## 151      0.0725     0.007610         0.00e+00   0.0870  0.8730 125.011
## 152      0.1610     0.192000         0.00e+00   0.2980  0.5290 129.023
## 153      0.0670     0.057700         1.69e-05   0.1050  0.4460 126.937
## 154      0.2680     0.010900         4.70e-04   0.0507  0.7390 192.024
## 155      0.0296     0.007780         0.00e+00   0.2850  0.3550 141.153
## 156      0.2320     0.081200         0.00e+00   0.1760  0.8110 146.928
## 157      0.2440     0.035800         0.00e+00   0.1990  0.6210  84.849
## 158      0.0903     0.133000         0.00e+00   0.1100  0.4000 148.294
## 159      0.0355     0.857000         2.89e-06   0.0913  0.0765 141.284
## 160      0.0313     0.804000         1.26e-05   0.1070  0.2470 147.175
## 161      0.0862     0.052300         0.00e+00   0.0966  0.5380 134.979
## 162      0.0576     0.089500         0.00e+00   0.2610  0.1950 137.972
## 163      0.0295     0.066800         3.22e-06   0.0617  0.2610  74.963
## 164      0.2890     0.378000         0.00e+00   0.2290  0.6720  75.016
## 165      0.4250     0.330000         1.62e-04   0.0898  0.3260  80.126
## 166      0.1060     0.132000         0.00e+00   0.1510  0.7850 175.950
## 167      0.1540     0.013000         4.85e-06   0.0926  0.2260 125.008
## 168      0.3540     0.173000         2.42e-04   0.0673  0.1470 179.484
## 169      0.0794     0.199000         6.11e-03   0.1370  0.5870 160.083
## 170      0.0432     0.243000         0.00e+00   0.1400  0.7320 179.910
## 171      0.3650     0.004700         0.00e+00   0.0940  0.4020 139.931
## 172      0.2090     0.529000         2.72e-06   0.1270  0.6290 180.080
## 173      0.3960     0.373000         1.33e-03   0.1010  0.1110 149.004
## 174      0.1320     0.210000         0.00e+00   0.2870  0.2720 137.817
## 175      0.1290     0.198000         2.32e-06   0.3360  0.9530 179.935
## 176      0.0537     0.230000         0.00e+00   0.2410  0.5630 144.971
## 177      0.2940     0.057600         9.91e-05   0.1220  0.2310 171.853
## 178      0.0311     0.910000         6.33e-04   0.1130  0.0997  72.416
## 179      0.0537     0.410000         1.34e-03   0.0927  0.1780 129.842
## 180      0.0806     0.181000         1.03e-05   0.2930  0.1880  77.487
## 181      0.2440     0.061000         0.00e+00   0.1230  0.1750 127.076
## 182      0.1290     0.114000         0.00e+00   0.2260  0.4300 136.919
## 183      0.0320     0.007670         1.48e-04   0.1240  0.1310 131.050
## 184      0.0484     0.084700         0.00e+00   0.1490  0.4300 130.049
## 185      0.1750     0.105000         0.00e+00   0.1250  0.2600  81.477
## 186      0.0554     0.099100         0.00e+00   0.2620  0.4370 127.075
## 187      0.0526     0.141000         6.75e-02   0.1280  0.6960 125.148
## 188      0.1290     0.017800         0.00e+00   0.6890  0.5880 154.042
## 189      0.0506     0.057700         4.16e-05   0.0757  0.4000 140.004
```

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## 190      0.3640     0.075200         0.00e+00   0.1280  0.5840 175.483
## 191      0.0583     0.215000         4.31e-05   0.1010  0.1600 140.009
## 192      0.1700     0.286000         0.00e+00   0.1230  0.4110 144.127
## 193      0.0853     0.256000         4.96e-06   0.1700  0.2860 141.971
## 194      0.0398     0.077700         0.00e+00   0.1990  0.3080 143.916
## 195      0.1090     0.248000         0.00e+00   0.0769  0.1330  81.951
## 196      0.1060     0.016600         1.58e-05   0.0794  0.2290 128.851
## 197      0.0386     0.164000         0.00e+00   0.0708  0.3460 150.277
## 198      0.2440     0.011700         0.00e+00   0.0853  0.4050 175.957
## 199      0.1290     0.125000         0.00e+00   0.1360  0.1420 140.000
## 200      0.1090     0.067200         0.00e+00   0.3460  0.4580 125.022
## 201      0.3830     0.334000         0.00e+00   0.1630  0.6030  85.227
## 202      0.0568     0.501000         0.00e+00   0.1170  0.8140 129.014
## 203      0.3510     0.015100         7.04e-06   0.0871  0.3760  75.016
## 204      0.1030     0.290000         0.00e+00   0.1530  0.7660 126.075
## 205      0.1390     0.189000         1.72e-05   0.1330  0.5140 128.063
## 206      0.1630     0.057700         0.00e+00   0.2210  0.9450 160.017
## 207      0.0421     0.199000         1.66e-05   0.1650  0.3940 136.949
## 208      0.0504     0.041700         1.13e-04   0.0717  0.7540  79.028
## 209      0.2430     0.014300         0.00e+00   0.2600  0.3140 136.088
## 210      0.3330     0.149000         0.00e+00   0.0973  0.6150 165.985
## 211      0.0454     0.196000         0.00e+00   0.0830  0.3010 174.152
## 212      0.0554     0.013900         0.00e+00   0.0540  0.8600  85.889
## 213      0.0539     0.071400         0.00e+00   0.1120  0.1820 140.987
## 214      0.0522     0.032300         2.59e-05   0.1120  0.3560 139.994
## 215      0.0555     0.076700         2.64e-05   0.0813  0.3430 139.934
## 216      0.0675     0.001240         1.81e-04   0.0679  0.4830 192.180
## 217      0.0366     0.003800         0.00e+00   0.3300  0.4760 145.005
## 218      0.1280     0.192000         0.00e+00   0.1780  0.2870 137.847
## 219      0.1290     0.054900         0.00e+00   0.1550  0.3300 175.924
## 220      0.0390     0.101000         1.27e-06   0.1060  0.0967 180.043
## 221      0.0493     0.035200         0.00e+00   0.0640  0.8020  86.704
## 222      0.2740     0.141000         0.00e+00   0.1780  0.5430 181.994
## 223      0.2650     0.022300         0.00e+00   0.2830  0.8730 144.004
## 224      0.0587     0.011800         1.94e-05   0.2940  0.2350  84.264
## 225      0.0889     0.023900         8.23e-06   0.1100  0.8000 126.014
## 226      0.0347     0.004330         0.00e+00   0.1140  0.5450  77.217
## 227      0.0387     0.054500         0.00e+00   0.1420  0.6550  83.065
## 228      0.1420     0.054100         0.00e+00   0.1080  0.4780 136.173
## 229      0.4610     0.069000         0.00e+00   0.1200  0.1560  81.987
## 230      0.2900     0.012000         0.00e+00   0.4600  0.4130 163.029
## 231      0.2640     0.307000         0.00e+00   0.1040  0.7410 141.967
## 232      0.2170     0.242000         0.00e+00   0.1580  0.4860 139.023
## 233      0.0486     0.348000         0.00e+00   0.0925  0.2730 143.860
## 234      0.0399     0.355000         0.00e+00   0.0953  0.5260 134.943
## 235      0.0395     0.002190         0.00e+00   0.0741  0.6410 166.992
## 236      0.0619     0.031300         2.34e-05   0.5290  0.5530 152.011
## 237      0.1340     0.093800         0.00e+00   0.1140  0.6350 170.060
## 238      0.1220     0.298000         0.00e+00   0.1730  0.4680 148.066
## 239      0.0852     0.222000         9.60e-06   0.3110  0.6930 171.077
## 240      0.0476     0.164000         1.69e-03   0.1030  0.8120 175.920
## 241      0.0561     0.030000         9.33e-05   0.2550  0.8390  79.997
## 242      0.1850     0.108000         0.00e+00   0.1350  0.2740 160.140
## 243      0.0963     0.024400         5.62e-05   0.4980  0.3440  77.170
```

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## 244      0.0856     0.047000         0.00e+00   0.0830  0.5790 154.084
## 245      0.0281     0.468000         1.10e-06   0.1020  0.1750  85.794
## 246      0.1020     0.566000         0.00e+00   0.1120  0.4210 140.057
## 247      0.0444     0.437000         0.00e+00   0.1070  0.1340 129.911
## 248      0.0317     0.227000         0.00e+00   0.1200  0.8750 125.135
## 249      0.0436     0.004070         3.26e-04   0.0968  0.2160 126.023
## 250      0.0868     0.053400         0.00e+00   0.3080  0.1910  87.908
## 251      0.0856     0.014000         3.10e-06   0.2910  0.7190 142.886
##     duration_ms time_signature                                 uri
## 1        281560              4 spotify:track:34gCuhDGsG4bRPIf9bb02f
## 2        228827              4 spotify:track:6rPO02ozF3bM7NnOV4h6s2
## 3        208667              4 spotify:track:0w75KG0DuLDi6tdHmEMovD
## 4        218320              4 spotify:track:1OmcAT5Y8eg5bUPv9qJT4R
## 5        230453              4 spotify:track:7MXVkk9YMctZqd1Srtv4MB
## 6        205680              4 spotify:track:4B0JvthVoAAuygILe3n4Bs
## 7        202333              4 spotify:track:3CRDbSIZ4r5MsZ0YwxuEkn
## 8        228200              4 spotify:track:7CUYHcu0RnbOnMz4RuN07w
## 9        211467              4 spotify:track:5uCax9HTNlzGybIStD3vDh
## 10       206880              4 spotify:track:3zkWCteF82vJwv0hRLba76
## 11       295493              4 spotify:track:4sPmO7WMQUAf45kwMOtONw
## 12       241693              4 spotify:track:0aOluBqXYd0rFSCsgDyAWX
## 13       219320              4 spotify:track:4m6D70k5xMmCDCB19u7Bi0
## 14       177000              4 spotify:track:7KXjTSCq5nL1LoYtL7XAwS
## 15       187973              4 spotify:track:1rtDwblY1CJ9i490fMzJnc
## 16       172724              4 spotify:track:4cdv3CQkDVZzZOKm0kaaZu
## 17       229526              4 spotify:track:7wqSzGeodspE3V6RBD5W8L
## 18       252733              4 spotify:track:6GmUVqe73u5YRfUUynZK6I
## 19       267067              4 spotify:track:0wwPcA6wtMf6HUMpIRdeP7
## 20       250286              4 spotify:track:66hayvUbTotekKU3H4ta1f
## 21       246761              4 spotify:track:5YEOzOojehCqxGQCcQiyR4
## 22       288877              4 spotify:track:72Q0FQQo32KJloivv5xge2
## 23       182707              4 spotify:track:2eMwDehkIC1j68U6FA3Eiq
## 24       186813              4 spotify:track:4G8gkOterJn0Ywt6uhqbhp
## 25       242253              5 spotify:track:25khomWgBVamSdKw7hzm3l
## 26       206693              4 spotify:track:0KKkJNfGyhkQ5aFogxQAPU
## 27       250267              4 spotify:track:1ip2IGDWMrUmlaepEbWlL8
## 28       214507              4 spotify:track:2Z8WuEywRWYTKe1NybPQEW
## 29       195707              4 spotify:track:23L5CiUhw2jV1OIMwthR3S
## 30       187147              4 spotify:track:5VnDkUNyX6u5Sk0yZiP8XB
## 31       258343              4 spotify:track:3bidbhpOYeV4knp8AIu8Xn
## 32       226160              4 spotify:track:1pKeFVVUOPjFsOABubOOaV
## 33       222093              4 spotify:track:2d8JP84HNLKhmd6IYOoupQ
## 34       233293              4 spotify:track:3RkvscbM4aNbELiQf7PJwn
## 35       204600              4 spotify:track:3rOSwuTsUlJp0Pu0MkN8r8
## 36       199387              4 spotify:track:0puf9yIluy9W0vpMEUoAnN
## 37       215672              4 spotify:track:5jrdCoLpJSvHHorevXBATy
## 38       224507              4 spotify:track:7b71WsDLb8gG0cSyDTFAEW
## 39       213428              4 spotify:track:6WLS56xiRrXjSm9RSdL3zD
## 40       299147              4 spotify:track:5pY3ovFxbvAg7reGZjJQSp
## 41       214148              4 spotify:track:3gbBpTdY8lnQwqxNCcf795
## 42       224840              4 spotify:track:6RtPijgfPKROxEzTHNRiDp
## 43       199080              4 spotify:track:4kbj5MwxO1bq9wjT5g9HaA
## 44       204160              4 spotify:track:3cHyrEgdyYRjgJKSOiOtcS
## 45       207813              4 spotify:track:6NMNgWgEAzde5M8U3lc6FN
```

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## 46       189127             4 spotify:track:0gb1J5UrTpzaU1s3nupgCd
## 47       239317             4 spotify:track:0fioLzGM8ngbD1w6fMmm45
## 48       261154             4 spotify:track:66qlqxhEMpSHOzjRK4il0b
## 49       214427             4 spotify:track:7EYWEwJyai7udNmqvRPsZM
## 50       188754             4 spotify:track:0ifSeVGUr7py5GggttDhXw
## 51       190186             4 spotify:track:6N9ZOtguCnnrvwH7zD82WJ
## 52       190185             4 spotify:track:2dLLR6qlu5UJ5gk0dKz0h3
## 53       227267             4 spotify:track:7MmG8p0F9N3C4AXdK6o6Eb
## 54       205907             4 spotify:track:7qCAVkHWZkF44OzOUKf8Cr
## 55       291893             4 spotify:track:6fujklziTHa8uoM5OQSfIo
## 56       230613             4 spotify:track:2P4OICZRVAQcYAV2JReRfj
## 57       188238             4 spotify:track:78TTtXnFQPzwqlbtbwqN0y
## 58       214840             4 spotify:track:12KUFSHFgT0XCoiSlvdQi4
## 59       221560             4 spotify:track:5XfywqPX6XBOdYQNbOaQvy
## 60       192560             4 spotify:track:5b2bu6yyATC1zMXDGScJ2d
## 61       231013             4 spotify:track:3vMCg20dt8lUiPozDINUBf
## 62       257200             4 spotify:track:6kwAbEjseqBob48jCus7Sz
## 63       245041             4 spotify:track:0lHAMNU8RGiIObScrsRgmP
## 64       192107             4 spotify:track:70OTIpw8x8UXUsuCHW9i1i
## 65       205879             4 spotify:track:27GmP9AWRs744SzKcpJsTZ
## 66       233478             4 spotify:track:1qCdYQdkWvm4cYXAuOlbyc
## 67       231212             4 spotify:track:0xMd5bcWTbyXS7wPrBtZA6
## 68       210013             4 spotify:track:3zU9rdflI65tK4dkkNSp77
## 69       211975             4 spotify:track:6YwLgicpvVuMt1eE2OldwQ
## 70       215520             4 spotify:track:0385HqYimoTQaHZP17KwG1
## 71       213445             4 spotify:track:4nS1sut0R2mgmFitKIShVe
## 72       219333             4 spotify:track:2Zb7wnGUnNPCas2E0wWSQ5
## 73       202120             4 spotify:track:48gsLPdOUEDjr7P8Wvykne
## 74       170625             4 spotify:track:6PtXobrqImYfnpIxNsJApa
## 75       163133             4 spotify:track:5BSndweF91KDqyxANsZcQH
## 76       196693             4 spotify:track:5NQbUaeTEOGdD6hHcre0dZ
## 77       227074             4 spotify:track:461FttIf5hnUZMGvjK0Wxo
## 78       255173             4 spotify:track:2N0NifjyXAdMOB4KBGvBJ6
## 79       272394             4 spotify:track:3jfr0TF6DQcOLat8gGn7E2
## 80       197267             4 spotify:track:7xoUc6faLbCqZO6fQEYprd
## 81       223080             4 spotify:track:4BHzQ9C00ceJxfG16AlNWb
## 82       244973             4 spotify:track:4wCmqSrbyCgxEXROQE6vtV
## 83       213827             4 spotify:track:0nJW01T7XtvILxQgC5J7Wh
## 84       202533             4 spotify:track:1X1DWw2pcNZ8zSub3uhlNz
## 85       485360             4 spotify:track:03gqZZavMKhWbSjdQvpF6O
## 86       212862             4 spotify:track:2V65y3PX4DkRhy1djlxd9p
## 87       326467             4 spotify:track:5ZO1UMMf7V1oOMzF86s6WJ
## 88       285040             4 spotify:track:4kflIGfjdZJW4ot2ioixTB
## 89       237627             4 spotify:track:13P5rwmk2EsoFRIz9UCeh9
## 90       176658             4 spotify:track:0ct6r3EGTcMLPtrXHDvVjc
## 91       235947             3 spotify:track:7l94dyN2hX9c6wWcZQuOGJ
## 92       217419             4 spotify:track:5KONnBIQ9LqCxyeSPin26k
## 93       250627             4 spotify:track:7a86XRg84qjasly9f6bPSD
## 94       263373             4 spotify:track:15JINEqzVMv3SvJTAXAKED
## 95       242187             4 spotify:track:1EzrEOXmMH3G43AXT1y7pA
## 96       209423             4 spotify:track:7pNC5ZIKtwUK0ReSpM3P9f
## 97       228360             4 spotify:track:04aAxqtGp5pv12UXAg4pkq
## 98       193296             4 spotify:track:2sLwPnIP3CUVmIuHranJZU
## 99       231240             4 spotify:track:2y4lAQpi5VTNLu2ldeTdUH
```

```
## 100      201160             4 spotify:track:7LcfRTgAVTs5pQGEQgUEzN
## 101      247267             4 spotify:track:57kR5SniQIbsbVoIjjOUDa
## 102      258373             4 spotify:track:1VdZ0vKfR5jneCmWIUAMxK
## 103      185131             4 spotify:track:5RIVoVdkDLEygELLCniZFr
## 104      323480             4 spotify:track:5EmCpD8tUj78VW3kgaEjME
## 105      218228             4 spotify:track:2Pavqy0vPxGilGe0IIetdP
## 106      239600             4 spotify:track:7w87IxuO7BDcJ3YUqCyMTT
## 107      213507             4 spotify:track:02M6vucOvmRfMxTXDUwRXu
## 108      309600             4 spotify:track:75JFxkI2RXiU7L9VXzMkle
## 109      295533             4 spotify:track:7LVHVU3tWfcxj5aiPFEW4Q
## 110      198237             4 spotify:track:27PmvZoffODNFW2p7ehZTQ
## 111      297893             4 spotify:track:4xkOaSrkexMciUUogZKVTS
## 112      166849             4 spotify:track:5MhsZlmKJG6X5kTHkdwC4B
## 113      242373             4 spotify:track:1mea3bSkSGXuIRvnydlB5b
## 114      222587             4 spotify:track:7oK9VyNzrYvRFo7nQEYkWN
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## 5   https://api.spotify.com/v1/audio-analysis/7MXVkk9YMctZqd1Srtv4MB   12
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## 98  https://api.spotify.com/v1/audio-analysis/2sLwPnIP3CUVmIuHranJZU  224
## 99  https://api.spotify.com/v1/audio-analysis/2y4lAQpi5VTNLu2ldeTdUH  228
## 100 https://api.spotify.com/v1/audio-analysis/7LcfRTgAVTs5pQGEQgUEzN  229
## 101 https://api.spotify.com/v1/audio-analysis/57kR5SniQIbsbVoIjjOUDa  230
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## 103 https://api.spotify.com/v1/audio-analysis/5RIVoVdkDLEygELLCniZFr  236
## 104 https://api.spotify.com/v1/audio-analysis/5EmCpD8tUj78VW3kgaEjME  238
## 105 https://api.spotify.com/v1/audio-analysis/2Pavqy0vPxGilGe0IIetdP  239
## 106 https://api.spotify.com/v1/audio-analysis/7w87IxuO7BDcJ3YUqCyMTT  240
## 107 https://api.spotify.com/v1/audio-analysis/02M6vucOvmRfMxTXDUwRXu  241
## 108 https://api.spotify.com/v1/audio-analysis/75JFxkI2RXiU7L9VXzMkle  243
## 109 https://api.spotify.com/v1/audio-analysis/7LVHVU3tWfcxj5aiPFEW4Q  247
## 110 https://api.spotify.com/v1/audio-analysis/27PmvZoffODNFW2p7ehZTQ  248
## 111 https://api.spotify.com/v1/audio-analysis/4xkOaSrkexMciUUogZKVTS  250
## 112 https://api.spotify.com/v1/audio-analysis/5MhsZlmKJG6X5kTHkdwC4B  252
## 113 https://api.spotify.com/v1/audio-analysis/1mea3bSkSGXuIRvnydlB5b  256
## 114 https://api.spotify.com/v1/audio-analysis/7oK9VyNzrYvRFo7nQEYkWN  258
## 115 https://api.spotify.com/v1/audio-analysis/0qy5D3OJre7SPJNMOL9I71  260
## 116 https://api.spotify.com/v1/audio-analysis/4JehYebiI9JE8sR8MisGVb  265
## 117 https://api.spotify.com/v1/audio-analysis/0N6Bxsif1tT4vHz8tnkjzP  268
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## 118 https://api.spotify.com/v1/audio-analysis/1CcTBs5sc6tCvGXsULeqMy  269
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## 121 https://api.spotify.com/v1/audio-analysis/6PUIzlqotEmPuBfjbwYWOB  278
## 122 https://api.spotify.com/v1/audio-analysis/6nek1Nin9q48AVZcWs9e9D  279
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## 124 https://api.spotify.com/v1/audio-analysis/6gj08XDlv9Duc2fPOxUmVD  283
## 125 https://api.spotify.com/v1/audio-analysis/4RL77hMWUq35NYnPLXBpih  284
## 126 https://api.spotify.com/v1/audio-analysis/0fYVliAYKHuPmECRs1pbRf  285
## 127 https://api.spotify.com/v1/audio-analysis/0ntQJM78wzOLVeCUAW7Y45  293
## 128 https://api.spotify.com/v1/audio-analysis/5SqSckut3FcoQKmGkMWgp1  297
## 129 https://api.spotify.com/v1/audio-analysis/054ue8u2erwwGNgSIZLEPq  298
## 130 https://api.spotify.com/v1/audio-analysis/7xB3TwyZMOnKcF50RIXh5b  299
## 131 https://api.spotify.com/v1/audio-analysis/0SNIAtRCPVVLoGEPcuHSIc  303
## 132 https://api.spotify.com/v1/audio-analysis/5QjJgPU8AJeickx34f7on6  308
## 133 https://api.spotify.com/v1/audio-analysis/4dASQiO1Eoo3RJvt74FtXB  312
## 134 https://api.spotify.com/v1/audio-analysis/59RSrxkSKSixEWBAIvE5Wa  313
## 135 https://api.spotify.com/v1/audio-analysis/352zfYbDFG8sxkmOAhVeuj  314
## 136 https://api.spotify.com/v1/audio-analysis/24LS4lQShWyixJ0ZrJXfJ5  315
## 137 https://api.spotify.com/v1/audio-analysis/37jTPJgwCCmIGMPB45jrPV  316
## 138 https://api.spotify.com/v1/audio-analysis/5Z7ygHQo02SUrFmcgpwsKW  318
## 139 https://api.spotify.com/v1/audio-analysis/7EiZI6JVHllARrX9PUvAdX  319
## 140 https://api.spotify.com/v1/audio-analysis/1gihuPhrLraKYrJMAEONyc  320
## 141 https://api.spotify.com/v1/audio-analysis/2PpruBYCo4H7WOBJ7Q2EwM  322
## 142 https://api.spotify.com/v1/audio-analysis/25KybV9BOUlvcnv7nN3Pyo  323
## 143 https://api.spotify.com/v1/audio-analysis/3kyxRga5wDGbKdmxXssbps  324
## 144 https://api.spotify.com/v1/audio-analysis/3AJwUDP919kvQ9QcozQPxg  325
## 145 https://api.spotify.com/v1/audio-analysis/6JEntXLt4z98CcDtIH9sU7  326
## 146 https://api.spotify.com/v1/audio-analysis/2cbic3TiUENlJX91y67ARR  328
## 147 https://api.spotify.com/v1/audio-analysis/5PclxRY6shIQzSKxxbdZso  333
## 148 https://api.spotify.com/v1/audio-analysis/4LloVtxNZpeh7q7xdi1DQc  335
## 149 https://api.spotify.com/v1/audio-analysis/03UrZgTINDqvnUMbbIMhql  338
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## 151 https://api.spotify.com/v1/audio-analysis/3SPDQfj2UfWq6A2NllZnzn  342
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## 154 https://api.spotify.com/v1/audio-analysis/3XIIOCu6B8PuGq5j61asEM  347
## 155 https://api.spotify.com/v1/audio-analysis/4nA0biSjtvOL41Hd9MBXqR  348
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## 160 https://api.spotify.com/v1/audio-analysis/13HVjjWUZFaWilh2QUJKsP  358
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## 167 https://api.spotify.com/v1/audio-analysis/4scpF6J5uMBvoh6sFB7EL1  375
## 168 https://api.spotify.com/v1/audio-analysis/5EbX5xL3O2xT8FxCpYzgUO  376
## 169 https://api.spotify.com/v1/audio-analysis/3kxfsdsCpFgN412fpnW85Y  381
## 170 https://api.spotify.com/v1/audio-analysis/3umS4y3uQDkqekNjVpiRUs  382
## 171 https://api.spotify.com/v1/audio-analysis/6HZILIRieu8S0iqY8kIKhj  384
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## 172 https://api.spotify.com/v1/audio-analysis/456xBIOmLRoLzCvCzZrWge  386
## 173 https://api.spotify.com/v1/audio-analysis/6fwdbPMwP1zVStm8FybmkO  387
## 174 https://api.spotify.com/v1/audio-analysis/1PSBzsahR2AKwLJgx8ehBj  388
## 175 https://api.spotify.com/v1/audio-analysis/0sXvAOmXgjR2QUqLK1MltU  389
## 176 https://api.spotify.com/v1/audio-analysis/762UXiwEHYY97VL45sAUPR  392
## 177 https://api.spotify.com/v1/audio-analysis/4Q3N4Ct4zCuIHuZ65E3BD4  394
## 178 https://api.spotify.com/v1/audio-analysis/7rPLZ8Krm6CZIbraFUlnWZ  395
## 179 https://api.spotify.com/v1/audio-analysis/7DfFc7a6Rwfi3YQMRbDMau  397
## 180 https://api.spotify.com/v1/audio-analysis/4F7AODXBrmUAkp32uenhZt  398
## 181 https://api.spotify.com/v1/audio-analysis/4Km5HrUvYTaSUfiSGPJeQR  399
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## 183 https://api.spotify.com/v1/audio-analysis/1wHZx0LgzFHyeIZkUydNXq  405
## 184 https://api.spotify.com/v1/audio-analysis/6gBFPUFcJLzWGx4lenP6h2  406
## 185 https://api.spotify.com/v1/audio-analysis/0SGkqnVQo9KPytSri1H6cF  408
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## 187 https://api.spotify.com/v1/audio-analysis/4MhTFsyqIJnjsOweVcU8ug  413
## 188 https://api.spotify.com/v1/audio-analysis/2gZUPNdnz5Y45eiGxpHGSc  414
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## 190 https://api.spotify.com/v1/audio-analysis/6Ius4TC0L3cN74HT7ENE6e  416
## 191 https://api.spotify.com/v1/audio-analysis/6mapJIPnQ23RTAevUoE0DL  425
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## 199 https://api.spotify.com/v1/audio-analysis/6jmTHeoWvBaSrwWttr8Xvu  439
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## 216 https://api.spotify.com/v1/audio-analysis/5QONhxoOl2bP3pNjpGJwV1  483
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## 218 https://api.spotify.com/v1/audio-analysis/1KzGj3xvi9IiYO5kBlkm2G  489
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## 222 https://api.spotify.com/v1/audio-analysis/0EGuSSpuu9wmHCtvb4PdLO  497
## 223 https://api.spotify.com/v1/audio-analysis/3Du2K5dLzmduCNp6uwuaLO  498
## 224 https://api.spotify.com/v1/audio-analysis/3cNjgVBKTJ1SvKhunrCdVy  499
## 225 https://api.spotify.com/v1/audio-analysis/1pwo8l3Ko7idwaz4LVUEC4  501
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## 227 https://api.spotify.com/v1/audio-analysis/2dRvMEW4EwySxRUtEamSfG  504
## 228 https://api.spotify.com/v1/audio-analysis/0B8QzDH7YWih85V5SEMnyJ  505
## 229 https://api.spotify.com/v1/audio-analysis/2ANLarE8yHVsLWW21nj79M  506
## 230 https://api.spotify.com/v1/audio-analysis/1e1JKLEDKP7hEQzJfNAgPl  507
## 231 https://api.spotify.com/v1/audio-analysis/6p8NuHm8uCGnn2Dtbtf7zE  508
## 232 https://api.spotify.com/v1/audio-analysis/7KOlJ92bu51cltsD9KU5I7  509
## 233 https://api.spotify.com/v1/audio-analysis/7IWkJwX9COJ7tHurTD7ViL  510
## 234 https://api.spotify.com/v1/audio-analysis/51ChrwmUPDJvedPQnIU8Ls  514
## 235 https://api.spotify.com/v1/audio-analysis/37sINbJZcFdHFAsVNsPq1i  518
## 236 https://api.spotify.com/v1/audio-analysis/7s0lDK7y3XLmI7tcsRAbW0  519
## 237 https://api.spotify.com/v1/audio-analysis/4bPQs0PHn4xbipzdPfn6du  520
## 238 https://api.spotify.com/v1/audio-analysis/52okn5MNA47tk87PeZJLEL  522
## 239 https://api.spotify.com/v1/audio-analysis/1m69ELEgE6k5ZWsap40ozt  524
## 240 https://api.spotify.com/v1/audio-analysis/5zSOVwaY3sVjnmLhuEfsuf  525
## 241 https://api.spotify.com/v1/audio-analysis/6Za3190Sbw39BBC77WSS1C  526
## 242 https://api.spotify.com/v1/audio-analysis/43PuMrRfbyyuz4QpZ3oAwN  528
## 243 https://api.spotify.com/v1/audio-analysis/2XW4DbS6NddZxRPm5rMCeY  529
## 244 https://api.spotify.com/v1/audio-analysis/7iDa6hUg2VgEL1o1HjmfBn  530
## 245 https://api.spotify.com/v1/audio-analysis/0eZBeB2xFIS65jQHerispi  532
## 246 https://api.spotify.com/v1/audio-analysis/65NwOZqoXny4JxqAPlfxRF  533
## 247 https://api.spotify.com/v1/audio-analysis/7dZ1Odmx9jWIweQSatnRqo  537
## 248 https://api.spotify.com/v1/audio-analysis/1TfqLAPs4K3s2rJMoCokcS  543
## 249 https://api.spotify.com/v1/audio-analysis/5VSCgNlSmTV2Yq5lB40Eaw  546
## 250 https://api.spotify.com/v1/audio-analysis/5k38wzpLb15YgncyWdTZE4  550
## 251 https://api.spotify.com/v1/audio-analysis/6tHWl8ows5JOZq9Yfaqn3M  552
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## 1         551       303601       5
## 2         549       301401       2
## 3         547       299209       1
## 4         545       297025      10
## 5         544       295936      10
## 6         542       293764       9
## 7         538       289444       5
## 8         534       285156       2
## 9         533       284089       8
## 10        532       283024      10
## 11        529       279841       5
## 12        525       275625       1
## 13        523       273529       5
## 14        522       272484      10
## 15        520       270400       4
## 16        519       269361      10
## 17        518       268324       8
## 18        514       264196       8
## 19        513       263169       8
## 20        511       261121       4
## 21        509       259081       1
## 22        507       257049       2
## 23        506       256036      10
## 24        505       255025       4
## 25        502       252004      10
## 26        497       247009       1
## 27        494       244036       5
```

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## 28        493       243049        1
## 29        492       242064        5
## 30        491       241081        2
## 31        486       236196        2
## 32        485       235225        5
## 33        474       224676        4
## 34        465       216225       10
## 35        459       210681        9
## 36        453       205209        4
## 37        451       203401        5
## 38        450       202500        4
## 39        449       201601        5
## 40        448       200704        3
## 41        447       199809        5
## 42        445       198025        1
## 43        444       197136        4
## 44        442       195364        4
## 45        441       194481        8
## 46        440       193600        4
## 47        438       191844        5
## 48        433       187489        2
## 49        432       186624        4
## 50        429       184041        4
## 51        428       183184        4
## 52        427       182329        9
## 53        426       181476        4
## 54        425       180625        5
## 55        424       179776        5
## 56        423       178929        4
## 57        419       175561        5
## 58        414       171396        1
## 59        413       170569       10
## 60        412       169744        4
## 61        411       168921       10
## 62        410       168100        1
## 63        406       164836        4
## 64        405       164025        1
## 65        400       160000        8
## 66        397       157609        4
## 67        394       155236        1
## 68        391       152881        4
## 69        389       151321        6
## 70        388       150544        2
## 71        386       148996       10
## 72        384       147456        1
## 73        382       145924        7
## 74        379       143641        4
## 75        378       142884        9
## 76        376       141376        5
## 77        375       140625        4
## 78        373       139129        9
## 79        372       138384        8
## 80        369       136161        1
## 81        368       135424        9
```

```
## 82        367       134689      10
## 83        366       133956       9
## 84        364       132496       2
## 85        362       131044      10
## 86        358       128164       6
## 87        354       125316       2
## 88        351       123201       9
## 89        350       122500       5
## 90        348       121104       1
## 91        342       116964       1
## 92        341       116281       2
## 93        340       115600       1
## 94        338       114244       1
## 95        335       112225       9
## 96        334       111556       4
## 97        333       110889       6
## 98        332       110224      10
## 99        328       107584       5
## 100       327       106929       2
## 101       326       106276       1
## 102       325       105625       3
## 103       320       102400       9
## 104       318       101124      10
## 105       317       100489       5
## 106       316        99856       5
## 107       315        99225       1
## 108       313        97969       8
## 109       309        95481       9
## 110       308        94864       2
## 111       306        93636       6
## 112       304        92416       1
## 113       300        90000      10
## 114       298        88804       4
## 115       296        87616       8
## 116       291        84681       5
## 117       288        82944       5
## 118       287        82369       4
## 119       285        81225       6
## 120       284        80656       2
## 121       278        77284       5
## 122       277        76729      10
## 123       274        75076       2
## 124       273        74529       1
## 125       272        73984       9
## 126       271        73441       5
## 127       263        69169       5
## 128       259        67081       3
## 129       258        66564       8
## 130       257        66049       6
## 131       253        64009      10
## 132       248        61504       5
## 133       244        59536       2
## 134       243        59049       6
## 135       242        58564       4
```

```
## 136        241         58081        4
## 137        240         57600       10
## 138        238         56644        4
## 139        237         56169        8
## 140        236         55696        6
## 141        234         54756        6
## 142        233         54289        1
## 143        232         53824        5
## 144        231         53361        8
## 145        230         52900       10
## 146        228         51984        7
## 147        223         49729        7
## 148        221         48841        7
## 149        218         47524        6
## 150        217         47089        4
## 151        214         45796        6
## 152        212         44944        6
## 153        210         44100        2
## 154        209         43681        5
## 155        208         43264        2
## 156        207         42849        1
## 157        206         42436        9
## 158        200         40000        2
## 159        199         39601        9
## 160        198         39204        3
## 161        197         38809        8
## 162        190         36100        8
## 163        189         35721       10
## 164        188         35344       10
## 165        187         34969        3
## 166        182         33124        5
## 167        181         32761        8
## 168        180         32400        9
## 169        175         30625        3
## 170        174         30276        1
## 171        172         29584       10
## 172        170         28900        2
## 173        169         28561        3
## 174        168         28224        2
## 175        167         27889        6
## 176        164         26896        5
## 177        162         26244        8
## 178        161         25921        3
## 179        159         25281        3
## 180        158         24964        9
## 181        157         24649        1
## 182        152         23104        4
## 183        151         22801        1
## 184        150         22500        4
## 185        148         21904        5
## 186        147         21609        1
## 187        143         20449        8
## 188        142         20164        2
## 189        141         19881       10
```

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## 190        140        19600        9
## 191        131        17161        9
## 192        130        16900        1
## 193        126        15876        6
## 194        124        15376        1
## 195        123        15129        9
## 196        120        14400        8
## 197        119        14161        8
## 198        118        13924        4
## 199        117        13689        5
## 200        115        13225        5
## 201        113        12769        5
## 202        112        12544        1
## 203        111        12321        9
## 204        109        11881        8
## 205        106        11236       10
## 206        105        11025        1
## 207        103        10609       10
## 208        100        10000        1
## 209         96         9216        9
## 210         88         7744       10
## 211         87         7569        5
## 212         85         7225       10
## 213         82         6724       10
## 214         80         6400        1
## 215         74         5476       10
## 216         73         5329        2
## 217         71         5041        1
## 218         67         4489        2
## 219         65         4225        1
## 220         62         3844       10
## 221         60         3600        2
## 222         59         3481        4
## 223         58         3364       10
## 224         57         3249        2
## 225         55         3025        4
## 226         54         2916        5
## 227         52         2704        2
## 228         51         2601        8
## 229         50         2500        8
## 230         49         2401        8
## 231         48         2304        5
## 232         47         2209        4
## 233         46         2116        5
## 234         42         1764        5
## 235         38         1444        4
## 236         37         1369        2
## 237         36         1296        1
## 238         34         1156        5
## 239         32         1024        2
## 240         31          961        5
## 241         30          900        6
## 242         28          784        3
## 243         27          729        9
```

```
## 244        26          676       10
## 245        24          576        9
## 246        23          529        8
## 247        19          361        8
## 248        13          169        8
## 249        10          100        2
## 250         6           36       10
## 251         4           16        4
```

```
topAllTime %>%
  filter(duration_ms < 180000) %>%
  nrow()
```

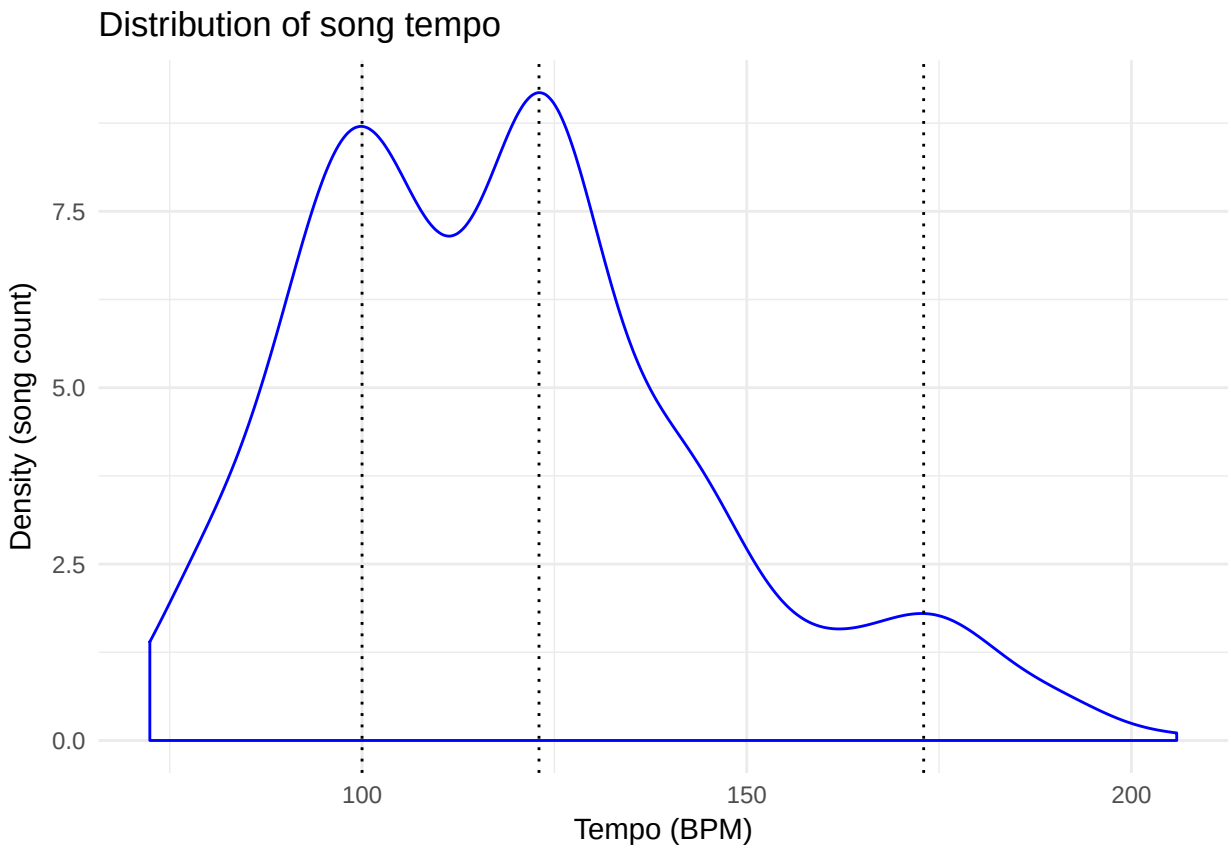
```
## [1] 35
```

	artist	numberOfSongs	meanRank	sumReverseRank	sumReverseRankSq
1	Ed Sheeran	12	185.33	4448.00	1989768.00
2	Calvin Harris	14	245.21	4351.00	1629855.00
3	Drake	10	203.30	3527.00	1516005.00
4	The Weeknd	9	204.89	3160.00	1410352.00
5	The Chainsmokers	6	93.83	2773.00	1368143.00
6	Coldplay	10	212.50	3435.00	1220307.00
7	Maroon 5	12	268.00	3456.00	1209464.00
8	Ariana Grande	8	182.88	2985.00	1185313.00
9	Imagine Dragons	6	132.83	2539.00	1128117.00
10	Justin Bieber	6	193.67	2174.00	1010570.00
11	David Guetta	8	218.50	2700.00	963558.00
12	Bruno Mars	7	209.57	2425.00	949505.00
13	Rihanna	5	126.40	2148.00	940604.00
14	Major Lazer	4	111.00	1780.00	892882.00
15	Kygo	6	226.67	1976.00	861468.00
16	Twenty One Pilots	3	40.67	1546.00	797718.00
17	Jason Derulo	5	166.20	1949.00	775843.00
18	Sia	4	140.75	1661.00	755311.00
19	Avicii	5	179.60	1882.00	736886.00
20	DJ Snake	4	139.00	1668.00	728138.00

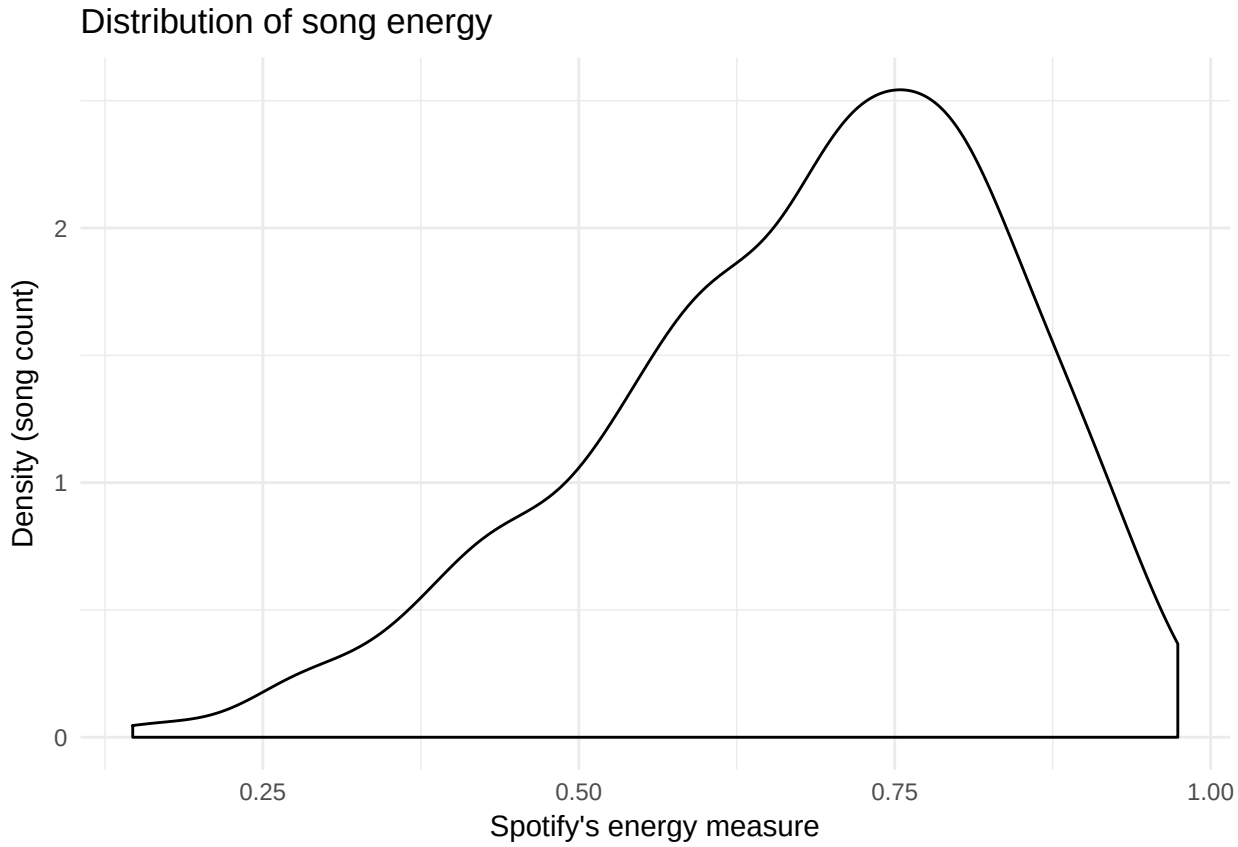
```
topAllTime %>%
  ggplot(aes(x = tempo))+
  geom_density(color = "Blue", aes(y = ..count..))+
  labs(title = "Distribution of song tempo", x = "Tempo (BPM)", y = "Density (song count)")+
  theme_minimal()+
  geom_vline(xintercept = c(100, 123, 173), linetype = "dotted")
```

	tracks	artist	rank
1	Shape of You	Ed Sheeran	1
2	One Dance	Drake	2
3	Closer	The Chainsmokers	3
4	Lean On (feat. MØ & DJ Snake)	Major Lazer	4
5	Thinking Out Loud	Ed Sheeran	5
6	Sorry	Justin Bieber	6
7	Despacito - Remix	Luis Fonsi	7
8	Love Yourself	Justin Bieber	8
9	Don't Let Me Down	The Chainsmokers	9
10	I Took A Pill In Ibiza - Seeb Remix	Mike Posner	10
11	rockstar	Post Malone	11
12	Starboy	The Weeknd	12
13	Let Me Love You	DJ Snake	13
14	What Do You Mean?	Justin Bieber	14
15	Cold Water	Major Lazer	15
16	Photograph	Ed Sheeran	16
17	Cheap Thrills	Sia	17
18	Stressed Out	Twenty One Pilots	18
19	Uptown Funk	Mark Ronson	19
20	Cheerleader - Felix Jaehn Remix Radio Edit	OMI	20

	mode	numTracks
1	1	315
2	0	240

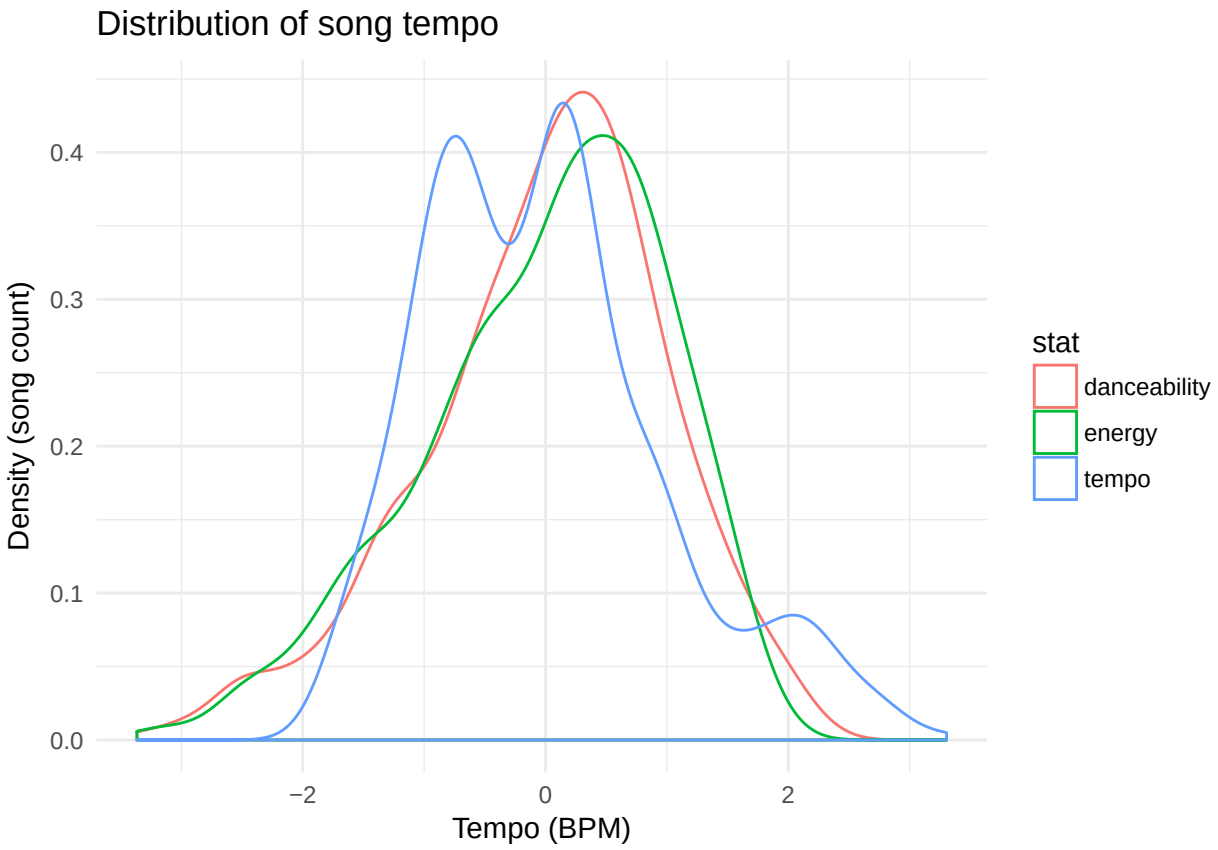


```
topAllTime %>%
  ggplot(aes(x = energy))+
  geom_density()+
  labs(title = "Distribution of song energy", x = "Spotify's energy measure", y = "Density (song count)")+
  theme_minimal()
```

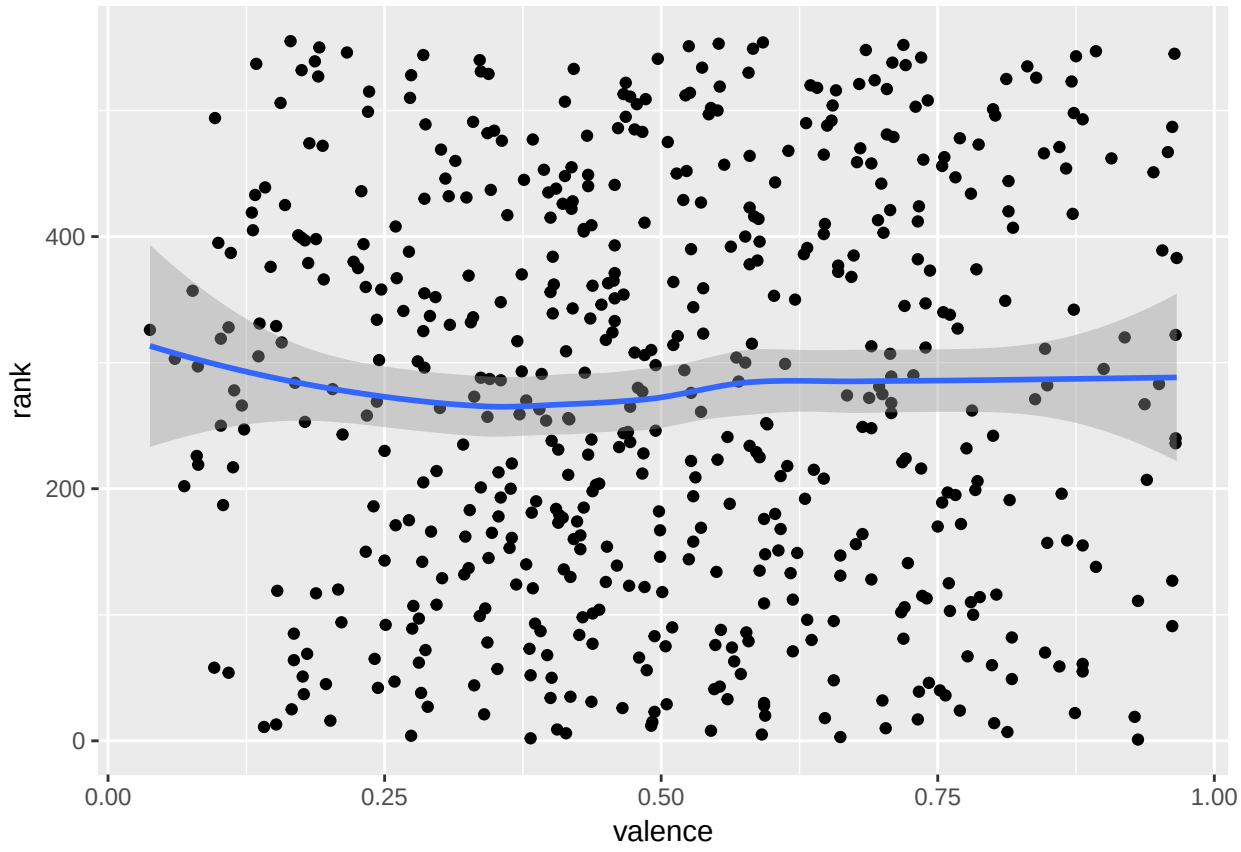



```
topAllTime %>%
  select(tracks, danceability, energy, tempo) %>%
  mutate(danceability = scale(danceability), energy = scale(energy), tempo = scale(tempo)) %>%
  gather(-tracks, key = "stat", value = "value") %>%
  ggplot(aes(x = value, color = stat))+
  geom_density()+
  labs(title = "Distribution of song tempo", x = "Tempo (BPM)", y = "Density (song count)")+
  theme_minimal()
```

```
## Warning: attributes are not identical across measure variables;
## they will be dropped
```




```
topAllTime %>%
  ggplot(aes(x = valence, y = rank))+
  geom_point()+
  geom_smooth(method = "loess")
```




```
topAllTime %>%
  filter(duration_ms > 400000)
```

```
##          tracks                      id popularity            artist
## 1       Mirrors 03gqZZavMKhWbSjdQvpF6O         58 Justin Timberlake
## 2 Paradise City 5Q41NLTmGbVPozwHKK7bk2         72     Guns N' Roses
##         artist_full               artistId                    album
## 1 Justin Timberlake 31TPClRtHm23RisEBtV3X7                  Mirrors
## 2     Guns N' Roses 3qm84nBOXUEQ2vnTfUTTFC Appetite For Destruction
##                  albumId danceability energy key loudness mode speechiness
## 1 2OMDL0qyQF7nk2tRJE8RmD        0.344  0.509   5   -6.607    0      0.0722
## 2 5JKFiC2WVi9HtvJEm8CUB8        0.274  0.949  11   -8.642    1      0.0896
##   acousticness instrumentalness liveness valence   tempo duration_ms
## 1       0.2400          0.00000    0.083   0.529  76.004      485360
## 2       0.0214          0.00778    0.218   0.497 100.346      406307
##   time_signature                                  uri
## 1              4 spotify:track:03gqZZavMKhWbSjdQvpF6O
## 2              4 spotify:track:5Q41NLTmGbVPozwHKK7bk2
##                                                 analysis_url rank
## 1 https://api.spotify.com/v1/audio-analysis/03gqZZavMKhWbSjdQvpF6O  194
## 2 https://api.spotify.com/v1/audio-analysis/5Q41NLTmGbVPozwHKK7bk2  541
##   rank_desc rank_desc_sq cluster
## 1       362       131044      10
## 2        15          225       9
```

```
topAllTime %>%
  group_by(mode) %>%
  summarise(n = n()) %>%
```

```
  arrange(desc(n))
```

```
## # A tibble: 2 x 2
##    mode     n
##   <int> <int>
## 1     1   315
## 2     0   240
```

```
topAllTime %>%
  group_by(key) %>%
  summarise(n = n()) %>%
  arrange(desc(n))
```

```
## # A tibble: 12 x 2
##      key     n
##    <int> <int>
##  1     1    74
##  2     0    64
##  3     5    62
##  4     9    52
##  5    11    48
##  6     7    47
##  7     6    45
##  8     8    43
##  9     2    40
## 10     4    36
## 11    10    32
## 12     3    12
```