

# Project

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Data source: <https://github.com/rfordatascience/tidytuesday/tree/master/data/2020/2020-01-21>

```
spotify %>% summary()
```

```
##      track_id      track_name      track_artist      track_popularity
## Length:32833      Length:32833      Length:32833      Min.   : 0.00
## Class :character  Class :character  Class :character  1st Qu.: 24.00
## Mode  :character  Mode  :character  Mode  :character  Median : 45.00
##                                     Mean  : 42.48
##                                     3rd Qu.: 62.00
##                                     Max.   :100.00
##      track_album_id      track_album_name      track_album_release_date
## Length:32833      Length:32833      Length:32833
## Class :character  Class :character  Class :character
## Mode  :character  Mode  :character  Mode  :character
##
##
##
##      playlist_name      playlist_id      playlist_genre      playlist_subgenre
## Length:32833      Length:32833      Length:32833      Length:32833
## Class :character  Class :character  Class :character  Class :character
## Mode  :character  Mode  :character  Mode  :character  Mode  :character
##
##
##
##      danceability      energy      key      loudness
## Min.   :0.0000      Min.   :0.000175      Min.   : 0.000      Min.   : -46.448
## 1st Qu.:0.5630      1st Qu.:0.581000      1st Qu.: 2.000      1st Qu.: -8.171
## Median :0.6720      Median :0.721000      Median : 6.000      Median : -6.166
## Mean   :0.6548      Mean   :0.698619      Mean   : 5.374      Mean   : -6.720
## 3rd Qu.:0.7610      3rd Qu.:0.840000      3rd Qu.: 9.000      3rd Qu.: -4.645
## Max.   :0.9830      Max.   :1.000000      Max.   :11.000      Max.   : 1.275
##      mode      speechiness      acousticness      instrumentalness
## Min.   :0.0000      Min.   :0.0000      Min.   :0.0000      Min.   :0.0000000
## 1st Qu.:0.0000      1st Qu.:0.0410      1st Qu.:0.0151      1st Qu.:0.0000000
## Median :1.0000      Median :0.0625      Median :0.0804      Median :0.0000161
## Mean   :0.5657      Mean   :0.1071      Mean   :0.1753      Mean   :0.0847472
## 3rd Qu.:1.0000      3rd Qu.:0.1320      3rd Qu.:0.2550      3rd Qu.:0.0048300
## Max.   :1.0000      Max.   :0.9180      Max.   :0.9940      Max.   :0.9940000
##      liveness      valence      tempo      duration_ms
## Min.   :0.0000      Min.   :0.0000      Min.   : 0.00      Min.   : 4000
## 1st Qu.:0.0927      1st Qu.:0.3310      1st Qu.: 99.96      1st Qu.:187819
## Median :0.1270      Median :0.5120      Median :121.98      Median :216000
```

##	Mean	:0.1902	Mean	:0.5106	Mean	:120.88	Mean	:225800
##	3rd Qu.	:0.2480	3rd Qu.	:0.6930	3rd Qu.	:133.92	3rd Qu.	:253585
##	Max.	:0.9960	Max.	:0.9910	Max.	:239.44	Max.	:517810