Lec 05: In-class Exercise: Boxplots

SDS 192: Introduction to Data Science

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Step 1: Load packages

Step 2: Create an Spotify Developer Account

Copy client id and secret from your previous in-class exercise into the chunk below to replace the current client id and secret, and then run the code chunk.

```
id <- 'c283abfcc1c94026a6075358ab4ecfbe'
secret <- '3ee9ec4cd1cf433a8d3be549212f2a67'
Sys.setenv(SPOTIFY_CLIENT_ID = id)
Sys.setenv(SPOTIFY_CLIENT_SECRET = secret)
access_token <- get_spotify_access_token()</pre>
```

Step 3: Get Song Features for Your Favorite Artist

Replace the text Janelle Monae below with the name of your favorite artist and then run the code chunk.

```
artist <- get_artist_audio_features(artist = "Janelle Monae") |>
select(-c(album_images, artists, available_markets))
```

Step 4: Create Grouped Boxplots Visualizing the Distribution of Values in a Song Feature of Your Choice, Grouped by Album Name

Refer to the ggplot() cheatsheet to find the geom function you need to create this plot. Be sure to add labels to your plot.

Fill your code here.

Step 5: Interpret Results

Turn to a neighbor and discuss the plots. * Check for outliers. * Compare medians. * Compare the ranges. * Compare the IQRs. * Compare the symmetry.

Call us over if you are having trouble interpreting!