Coldplay*

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abstract.

1 Introduction

Section 2....

2 Data

2.1 Overview

We got our data from Spotify API. We used R programming language (R Core Team 2023). We obtained our data through the Spotify API (**spotifyr?**)

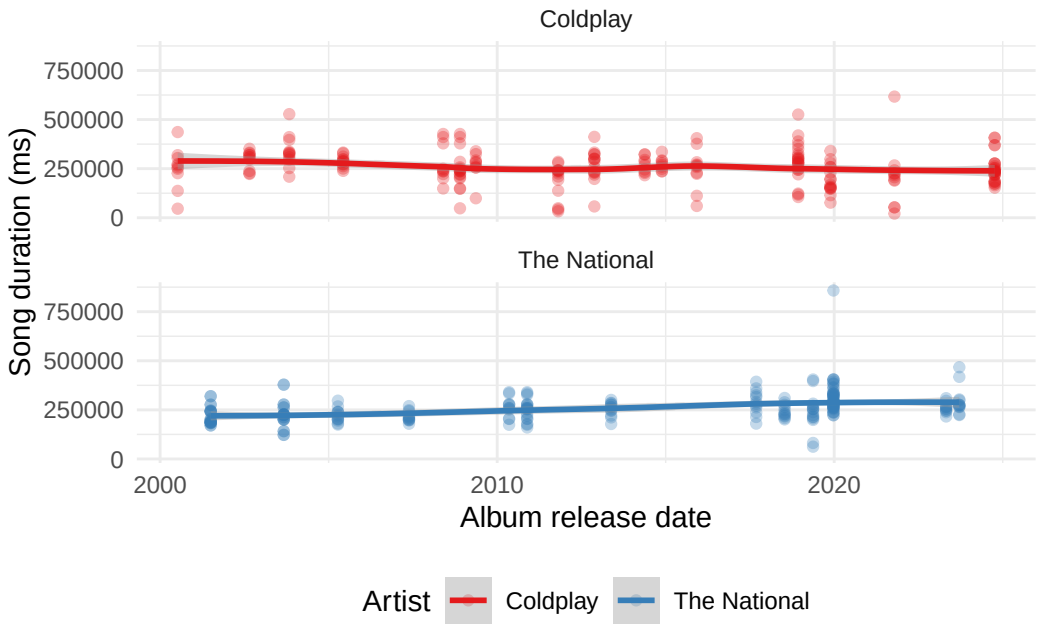
2.2 Method

To access the Spotify API, we used an existing Spotify account on the Spotify Developer website. We extracted the "Client ID" and "Client Secret" from the Spotify Developer website and used that in our code to link our RStudio to the Spotify account. We imported the spotifyr library and used the get_artist_audio_features function to extract information about the two artists. We saved this as an RDS file because each observation is a tibble, hence, we cannot save it as a CSV.

*Code and data are available at: https://github.com/taliafabs/spotify-analysis-example.

3 Visualizations

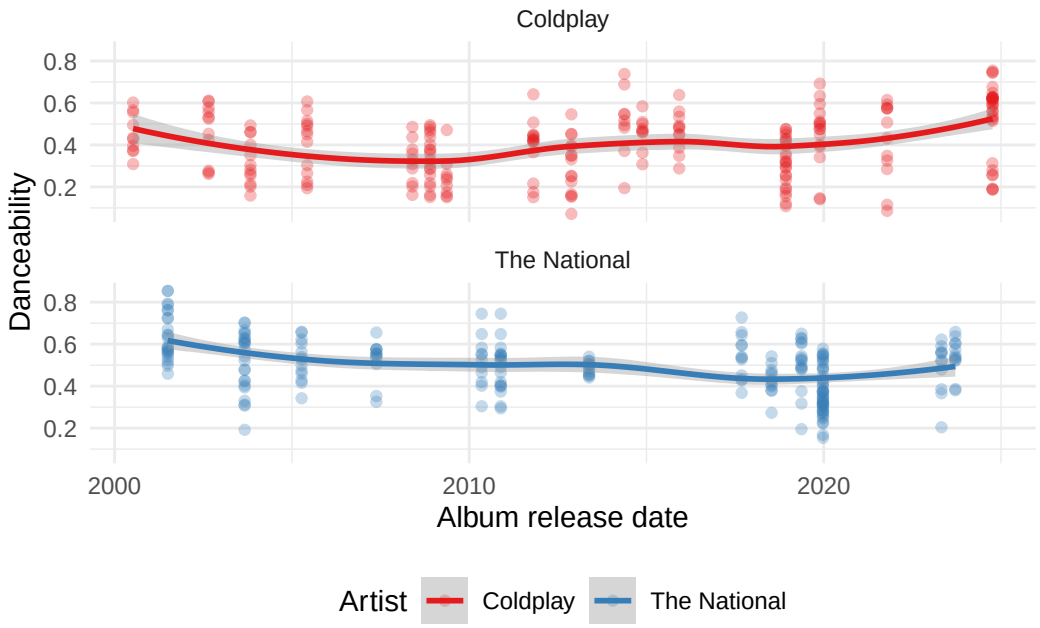
```
rbind(nationals, coldplay) |>
  select(artist_name, album_release_date, duration_ms) |>
  mutate(album_release_date = ymd(album_release_date)) |>
  ggplot(aes( x = album_release_date, y = duration_ms, color = artist_name)) +
  geom_point(alpha = 0.3) +
  geom_smooth() +
  theme_minimal() +
  facet_wrap(facets = vars(artist_name), dir = "v") +
  labs(
    x = "Album release date",
    y = "Song duration (ms)",
    color = "Artist"
  ) +
  scale_color_brewer(palette = "Set1") +
  theme(legend.position = "bottom")
```




```
rbind(nationals, coldplay) |>
  select(artist_name, album_release_date, danceability) |>
  mutate(album_release_date = ymd(album_release_date)) |>
  ggplot(aes( x = album_release_date, y = danceability, color = artist_name)) +
  geom_point(alpha = 0.3) +
```

```
  geom_smooth() +
  theme_minimal() +
  facet_wrap(facets = vars(artist_name), dir = "v") +
  labs(
    x = "Album release date",
    y = "Danceability",
    color = "Artist"
  ) +
  scale_color_brewer(palette = "Set1") +
  theme(legend.position = "bottom")
```

```
`geom_smooth()` using method = 'loess' and formula = 'y ~ x'
```



Some paragraphs about how we go from a phenomena in the world to an entry in the dataset.

4 Discussion

How we would do this strengths and weaknesses of approach

References

R Core Team. 2023. *R: A Language and Environment for Statistical Computing*. Vienna, Austria: R Foundation for Statistical Computing. https://www.R-project.org/.