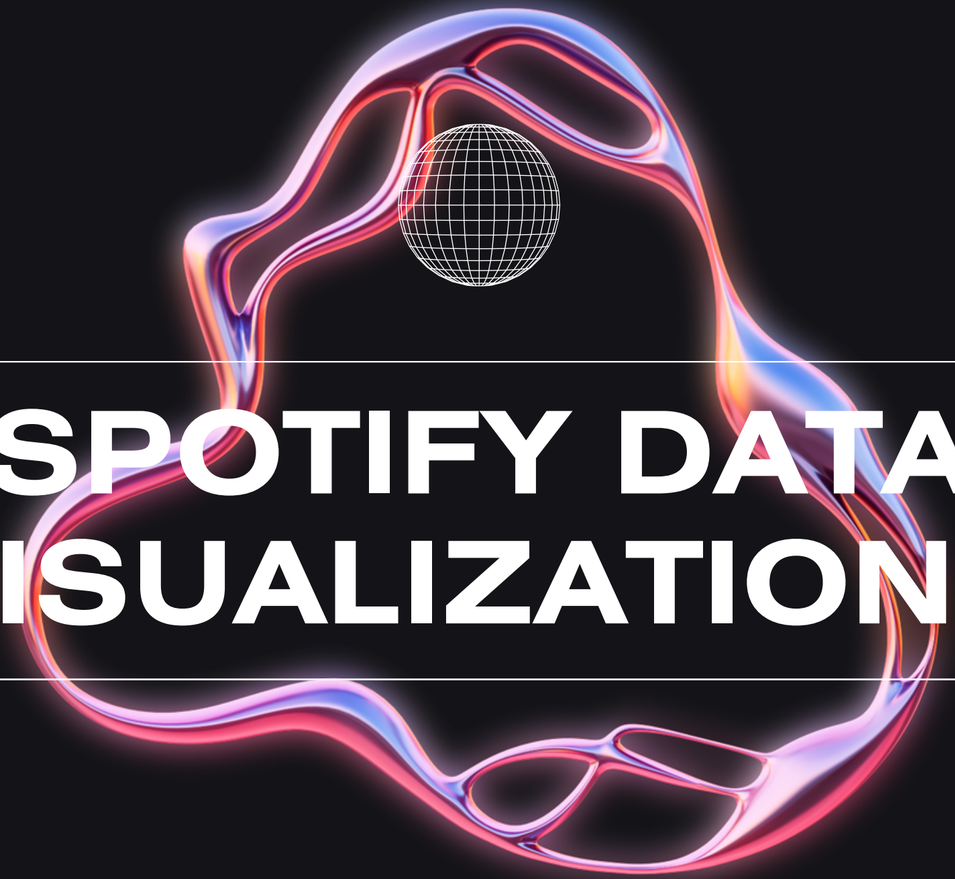


SPOTIFY DATA VISUALIZATIONS

By Madison Hamby, Josh Mares, Carlos Araujo, Jacqueline Rosales

DATA SOURCES

Koverha, Mark. (2022). Top Hits Spotify from 2000-2019. Kaggle.

https://www.kaggle.com/datasets/paradisejoy/top-hits-spotify-from-20002019/data

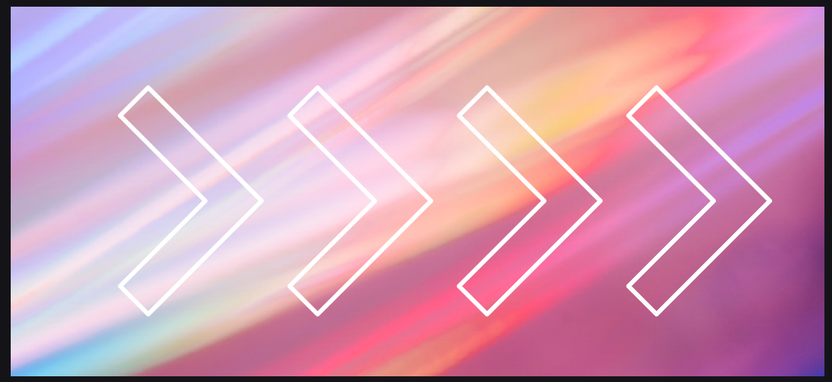
PROJECT GOALS

- Dataset: Top Hits Spotify from 2000-2019
- Overall Objective: Understand and analyze Spotify music dataset for patterns and trends
- Specific Goals:
  - Investiage how average trends of different varibales have evolved over time such as
    - Speechiness
    - Acousstiness
    - Energy
    - Explicitness
    - Song duration
- Generate interactive visualizations

CONSIDERATIONS & LIMITATIONS

- Limited dataset size
- Data completeness
- Genre and/or cultural shifts
- Metadata limitations
- User preferences
- Datapoints not uniform across time

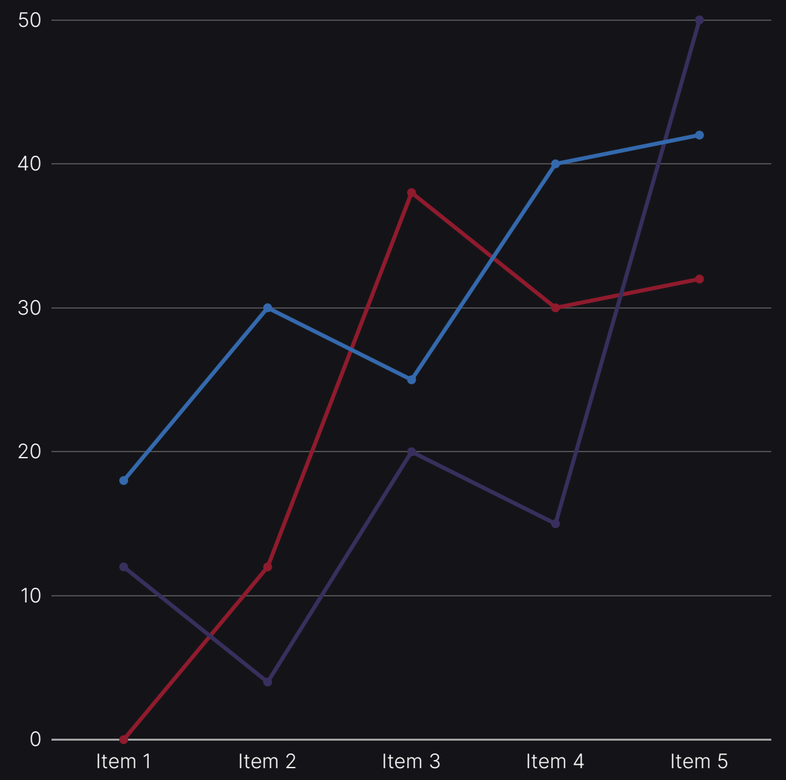
DATA PROCESS



- SQL
  - Data stored and extracted from SQL
  - Used SQLite to manipulate data with queries
- HTML
  - JavaScript library - Chart.js and Axios
  - Flask used for querying
- Visualizations
  - Displayed through 3 separate applications

VISUALIZATIONS

- Visualizations created through applications
- Established through chart.js
- Interactive bar chart & line graph
- Using SQL language in Python
- Chart.js
  - Library that creates visualizations
- Axios
  - Library that pulls the requests, pulls data through interactive API route



CONCLUSION

- Visualizations provide great overview of genre and metric
- Songs are getting shorter in duration over time
- Explicit content has an upwards trend
- Caveat: reasoning for each pattern/trend is speculation

WORKS CITED

Koverha, Mark. (2022). Top Hits Spotify from 2000-2019. Kaggle.

https://www.kaggle.com/datasets/paradisejoy/top-hits-spotify-from-20002019/data