Questions you found interesting and what motivated you to answer them

What makes a song on Spotify (and really the greater context is in general) popular? We see things like How many streams or How long on the charts or Chart placement and those things tell you a song is popular, but what are the things that contribute to making the song popular? These were things of interest. The fuel for motivation to find answers was simple curiosity coupled with wanting validation of assumptions. Positive songs, with great beats – that make you want to get up and move, that aren’t too long or too short – and that you can easily move to would probably be popular songs, and songs that are the most popular would have the “just right” mix of these things.

Where and how you found the data you used to answer these questions

We found a dataset online on Kaggle, that consisted of Spotify provided data for 2020/21 regarding the weekly top 200 charted songs. Below is the link to get the dataset from.

<https://www.kaggle.com/sashankpillai/spotify-top-200-charts-20202021/version/2>

We found it doing a simple google search for “free datasets music”

The data exploration and cleanup process (accompanied by your Jupyter Notebook)

The exploration process started by just reading through the field definitions of what the dataset was comprised of and then downloading it and looking through it. Then we started to make assumptions through brainstorming about how we could make relations/correlations between some of the fields, and we decided upon our main question of “What makes a song popular?” In retrospect, it would make more sense to rephrase it has “What are the things/traits popular songs share amongst each other?”

Once we did the initial exploring and decided upon our question to seek to answer, we started to look at the data and how we would try to answer our questions using what we’ve learned so far. We concluded using scatter plots was potentially a good fit for this analysis, so we went down that path at first and then decided to try and take it further by utilizing other aspects of things we’ve learned throughout the course like sublots and different statistical methods tools/methods like calculating the mean/median/mode and

The cleanup process began with identifying aspects of the data that were either problematic or that didn’t jive with how we wanted to ensure the integrity of our results. We decided first we didn’t’ want to include any records that were incomplete with missing data, so we removed any records with blank fields. There weren’t many – only 11 records out of approx. 1550. Then we removed any songs that were duplicated by their unique identifier (Song ID).

Once we did that, we then created a copy of the dataset to be used for all our analysis based on popularity. We updated the data types we needed to work with for plotting and calculations and then created another copy of that we could manipulate further to fit one of the first things we were looking at and that was genre data. What were the most popular genres? In the data set, there is only a single record per song with all of the meta data attached. The genre data was stored in a single field as a comma delimited list, so if a given song was identified in more than one genre, that’s how the data was stored. To chart this easily, we need to separate this out so we could use plotting.

<walk through notebook>

The analysis process (accompanied by your Jupyter Notebook)

Your conclusions including a numerical summary and visualizations of the summary

The implications of your findings: what do your findings mean?