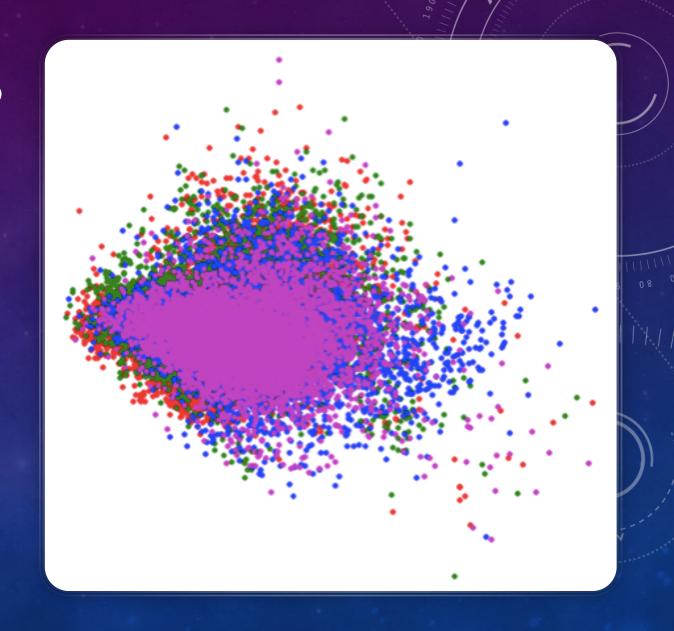


THE GOAL

- Split a Spotify playlist into smaller groups of similar sounding songs
- Use the Spotify Web API to get an audio analysis for each song in the playlist
 - Each song is split into hundreds of segments, most are less than a second long
 - Each segment has its own timbre vector that describes the overall sound of the segment as 12 numeric values
- Describe each song as a vector of a fixed length, so different songs can be compared using their song vectors

CLUSTER THE SOUNDS

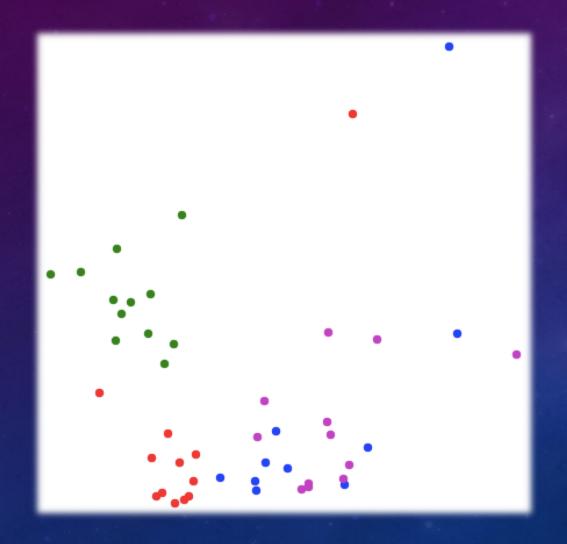
- Use k-means clustering to cluster all the sounds from all the songs into a large number of groups (I chose 70)
- Calculate the proportion of each song's sounds that are in each group
- Each song can now be described by a vector of length 70

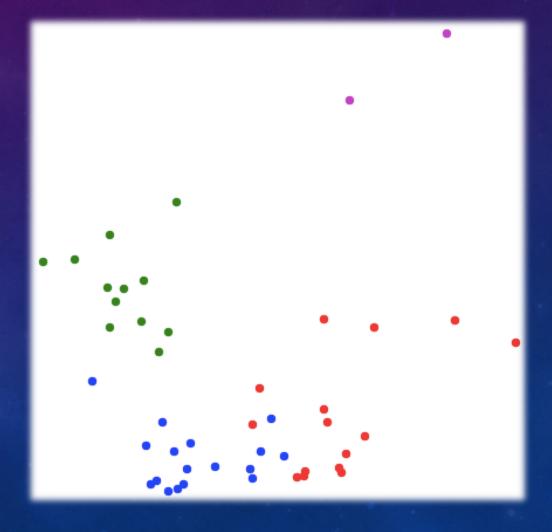


CLUSTER THE SONGS

Actual Albums

Predicted Groups





Spotify Song Grouper

Owner ID

tannerkoscinski

Playlist ID

7oG3OYCE79smeQ2IgqbT8a

Number of Groups

4

Select Method: Fast, Simple, Less Accurate Slower, More Complex, More Accurate

Run

Song Group 1

ARTIST	ALBUM	TRACK
Beartooth	Aggressive	King of Anything
With Confidence	Better Weather	Long Night

Song Group 2

ARTIST	ALBUM	TRACK
Beartooth	Disease	Greatness or Death
Beartooth	Disease	Disease
Beartooth	Disease	Fire
Beartooth	Disease	You Never Know