## horizontal line



Project 3 - Audio Genre Classification

08.31.2020

**─**

Group Members

David. Obembe,

Ryan Thomas,

Brian Yu,

Will Pumphrey,

John Dilligard

# Data Source

Our data source is from <https://developer.spotify.com/documentation/web-api/>.

# Project Overview

In this project we aim to us classification models to predict the genre of music based on features. Given a track with a certain criterion of features we predict if the song is Rock, R&B, blues etc.

# Goals

1. Predict music genre based on the features in the sound of a song.
2. Create a Tableau dashboard containing visualisations of trends in data.
3. Host our application using Hiroku.
4. Use Scikit-learn, pandas and pythons’ matplotlib to create a classification model that predicts genre.

# Tasks Per Team member

1. Data Cleaning - Ryan, Bryan
2. Machine learning - John, Will, David
3. Tableau - Bryan, Will
4. website Design- Ryan
5. Final Report - David (and everyone)
6. Executive Summary - David Will
7. Slide deck - Bryan
8. Final Day presentation - Team

# Alexandre’s Tips

* Classify based on a smaller selection of genres
* Use the kaggle link:<https://www.kaggle.com/yamaerenay/spotify-dataset-19212020-160k-tracks?select=data.csv>
* Clustering analysis -
* Classifier analysis
* Regression model to predict the popularity.

# 