

Final Project Proposal

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March 15, 2018

Scope

For this project, we intend to do an analysis of the Free Music Archive metadata dataset. This dataset contains numerous features from a large collection of open source music files (MP3's). This metadata consists of statistics of various audio features such as Chroma, root mean square energy, and various spectral attributes of the audio file. We plan on trying to cluster the data based on the assigned genre of each audio file and trying to find outliers within these groups if they exist. We may do some further analysis of this data if we believe that any future topics that we cover in class may lead to interesting results. We plan to divide the work as follows:

Joe

1. Data cleaning
2. Exploratory data analysis
3. Clustering

Jon

1. Principal component analysis
2. Create presentation slideshow
3. Structure presentation content and flow