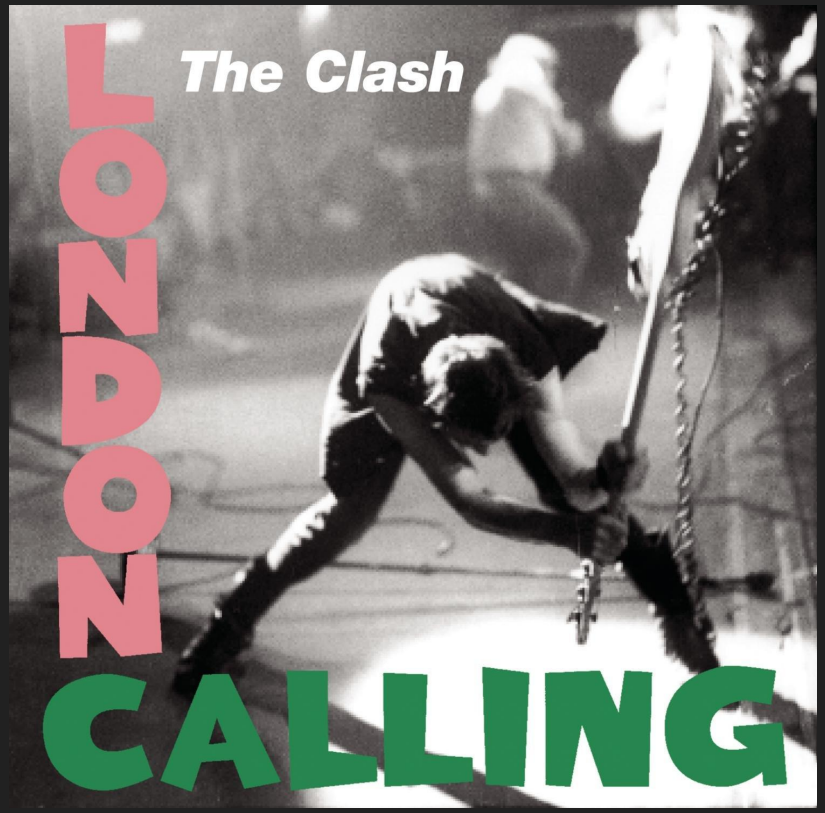
Clustersong

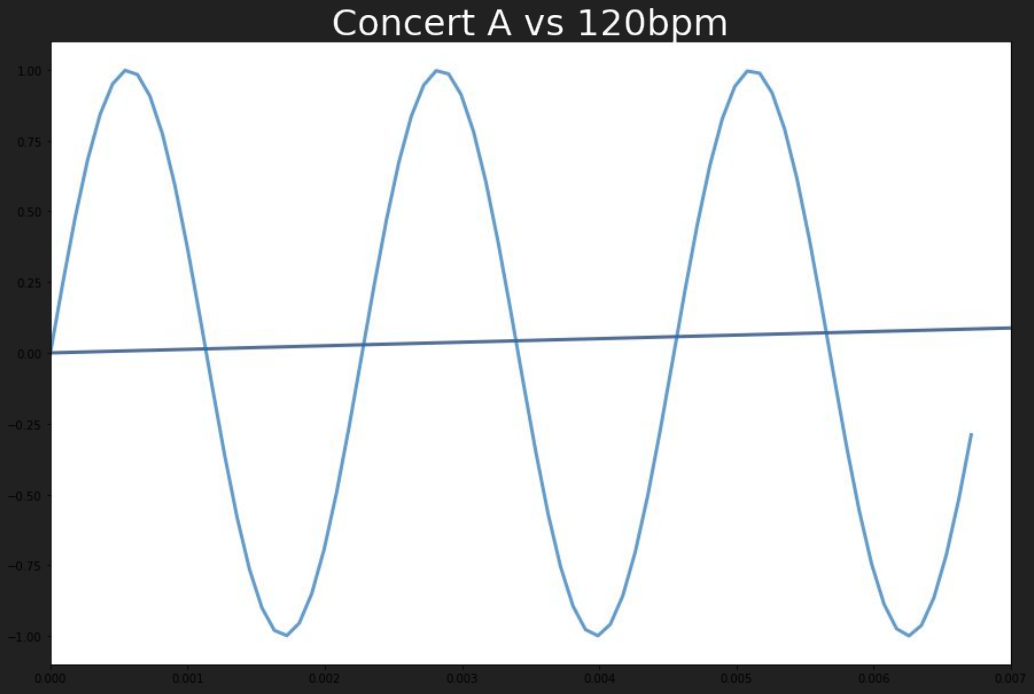
Unsupervised Learning on Audio for novel Categorization

Genre is a loaded Term



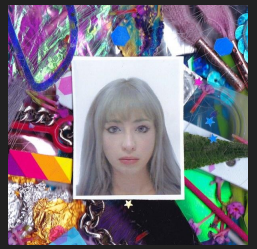
Humans Are Wired to Perceive Patterns

This is actually why we can even hear pitches in the first place.



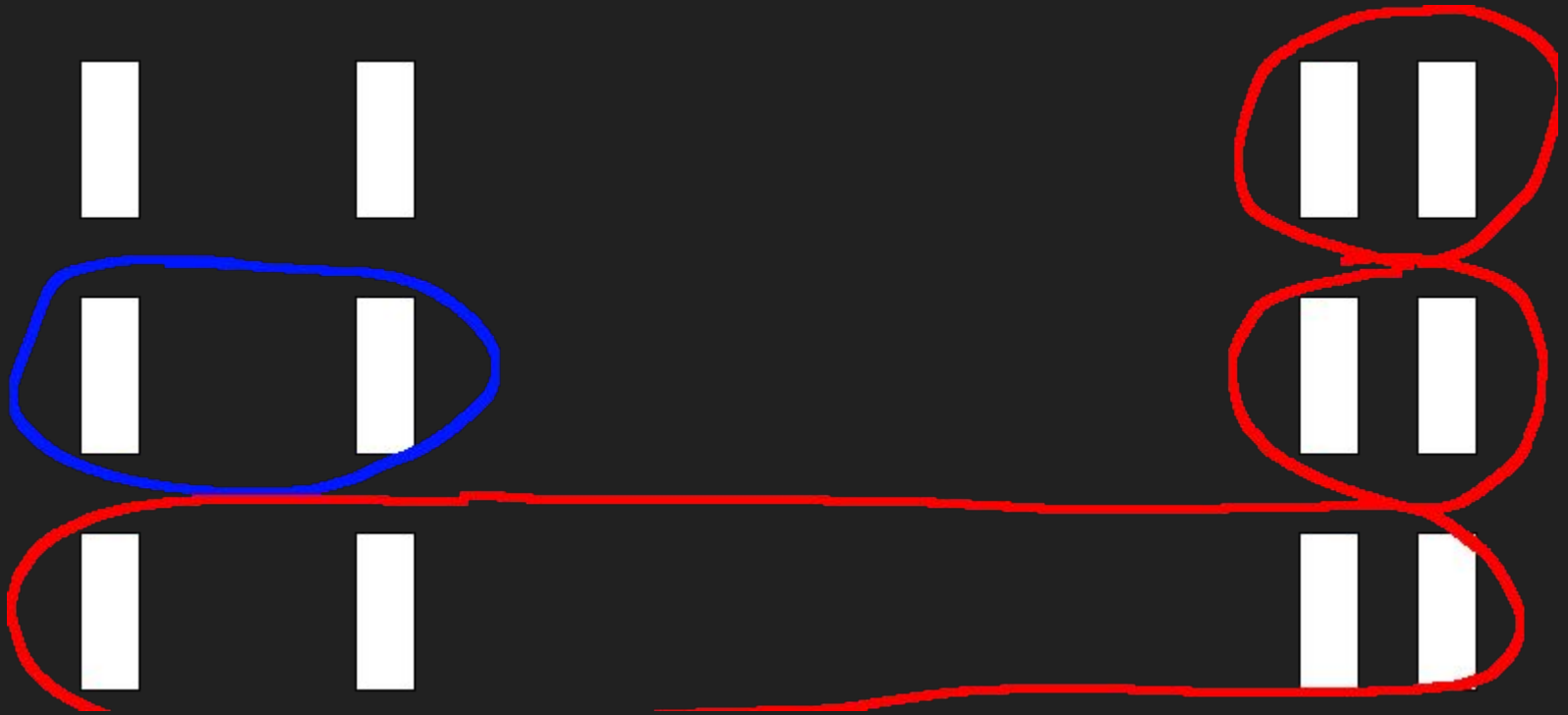
Spotify has a Wealth of Data and Metadata

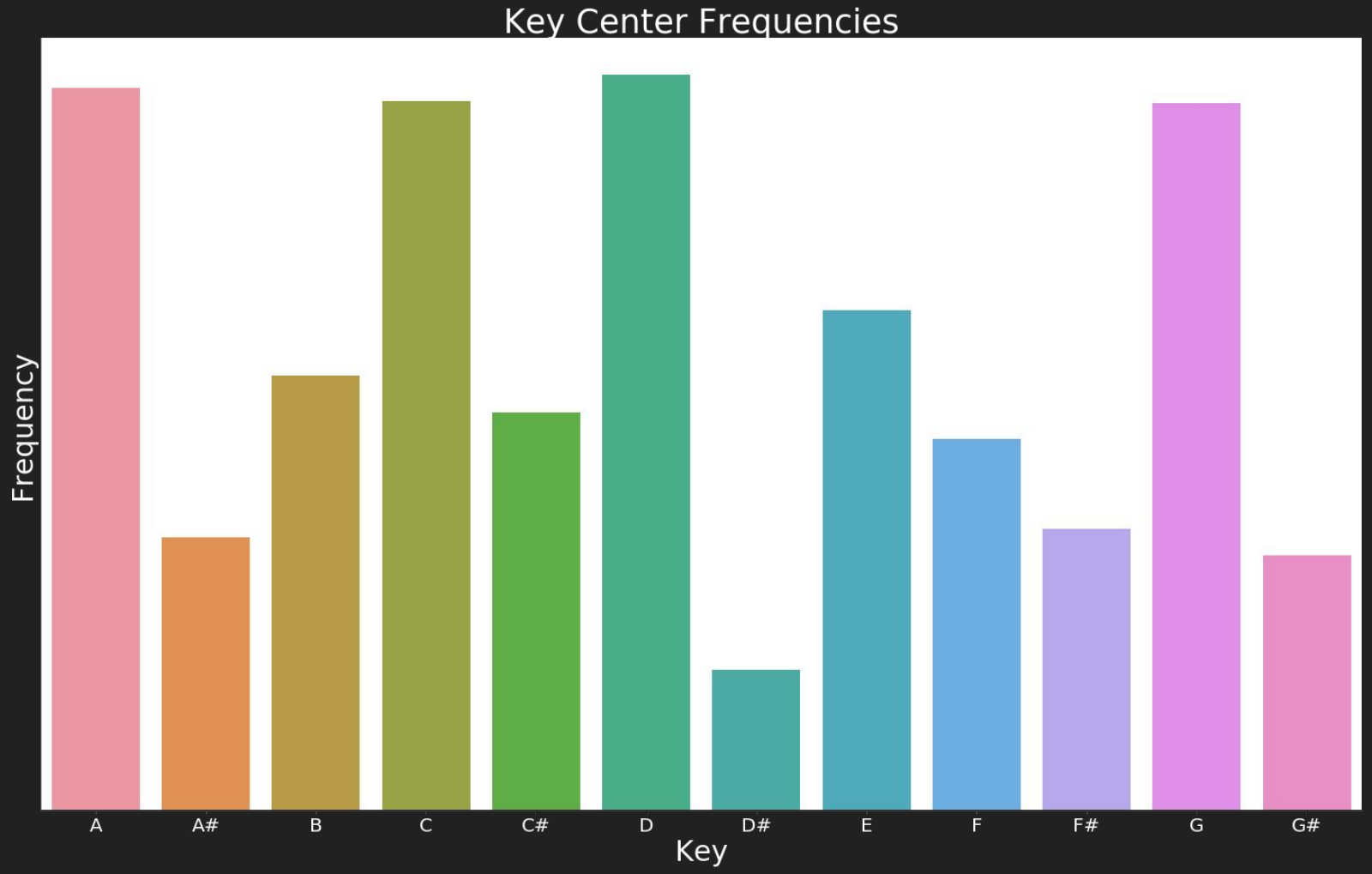
#		TITLE
1	+	Bonito Intro
2	+	Intro Bonito

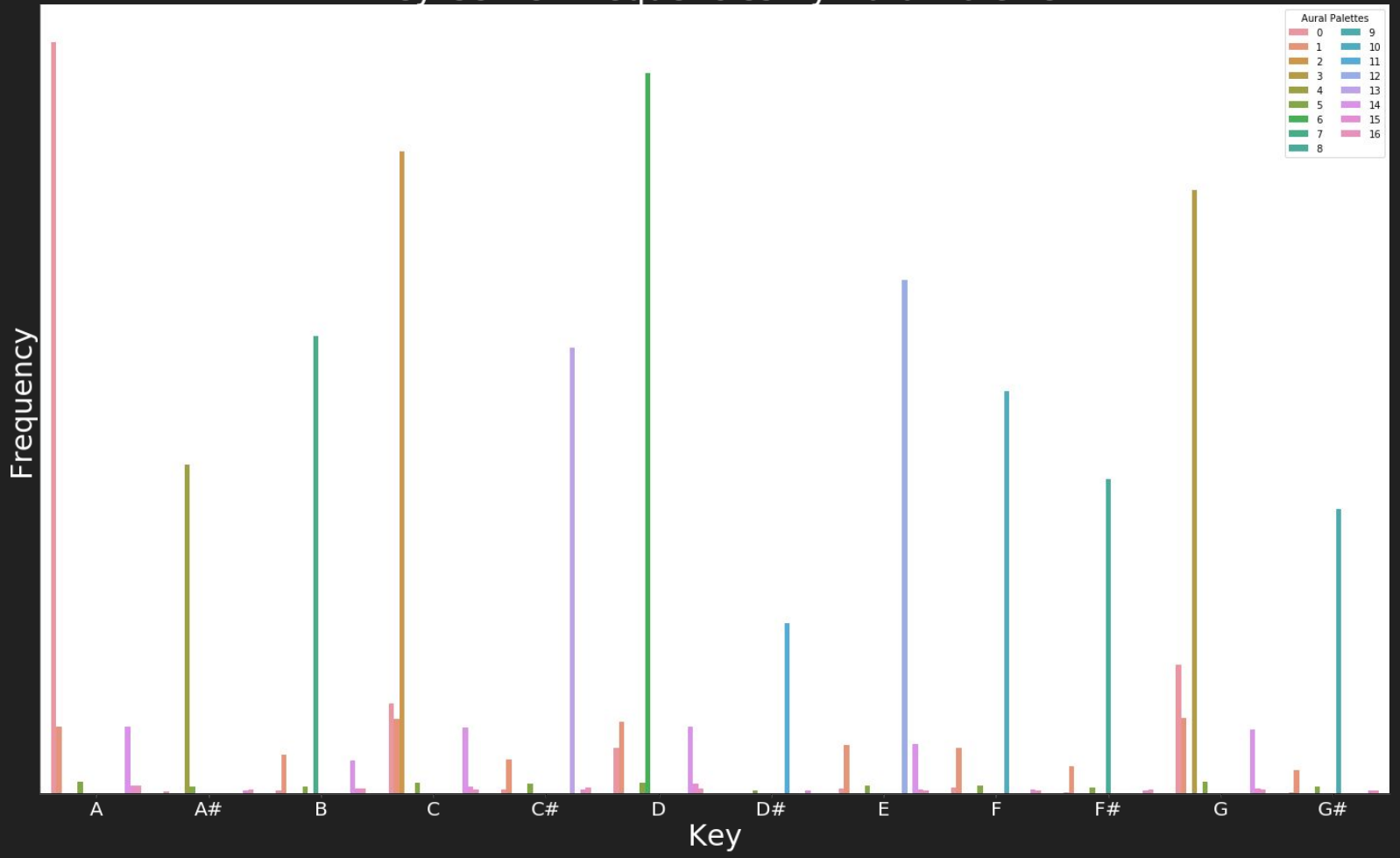


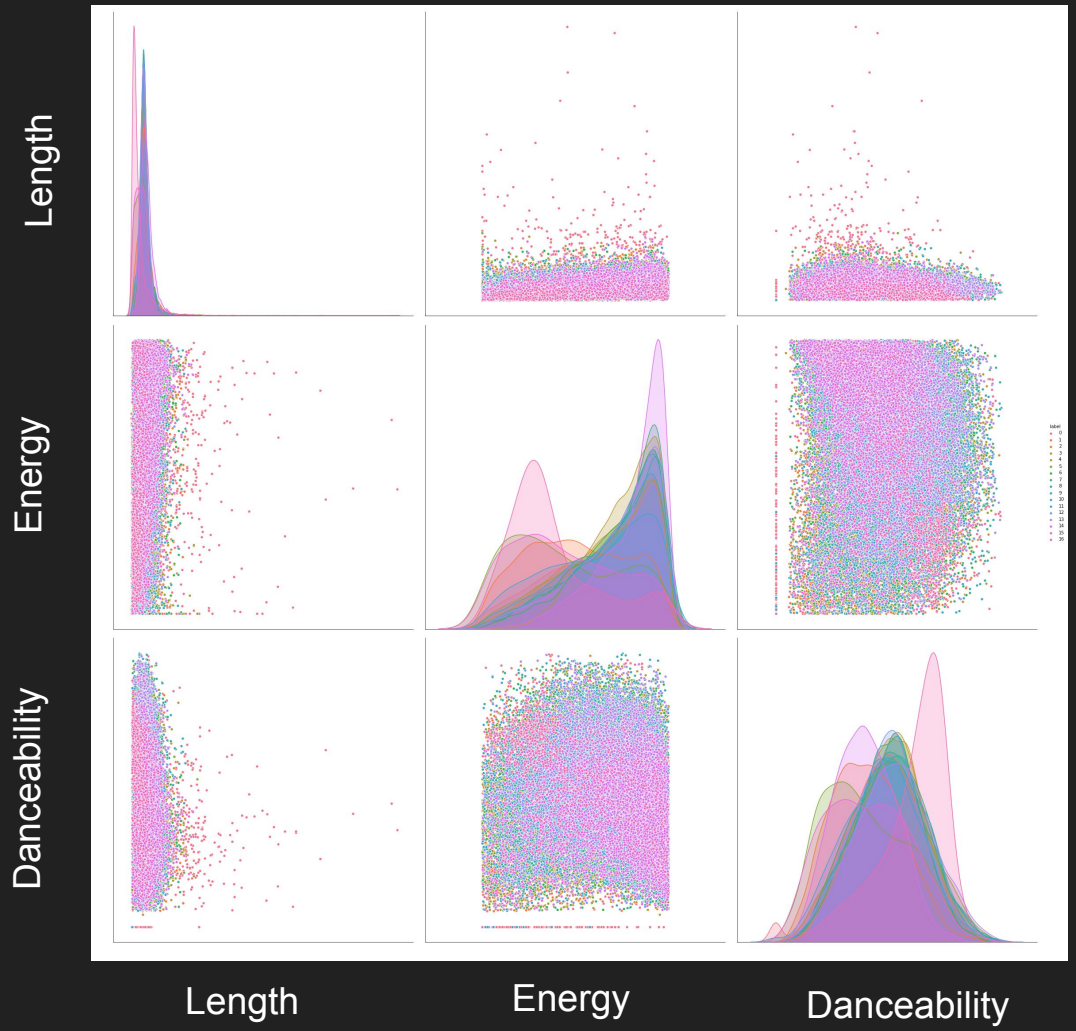
#		TITLE
1	+	Outside
2	+	Time Today

Agglomerative Clustering Turns Many into One




Key Center Frequencies
Frequency
A
A#
B
C
C#
D
D#
E
F
F#
G
G#
Key


Key Center Frequencies By Aural Palette
Aural Palettes
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
Frequency
A
A#
B
C
C#
D
D#
E
F
F#
G
G#
Key


Length
Energy
Danceability
Length
Energy
Danceability

Next Steps

Timbre

Turn into Supervised Learning

Refine Clustering

Diversify Data