| | [AffProg] FS2 Davies Cluster 1 (14) | [AffProg] FS2 Davies Cluster 3 (9) | [AffProg] FS2 Davies Cluster 6 (11) | [AffProg] FS2 Davies Cluster 7 (2) | [AffProg] FS2 Davies Cluster 8 (14) |
|---|---|---|---|---|---|
| **VERY MUCH BELOW MEAN DIFFERENCE (A < -0.5)** | NONE | NONE | NONE | Vertical_Octaves<br>Variability_of_Number_of_Simultaneous_Pitch_Classes<br>Relative_Prevalence_of_Most_Common_Rhythmic_Values<br>Prevalence_of_Very_Short_Rhythmic_Values<br>Number_of_Common_Rhythmic_Values_Present | NONE |
| **MUCH BELOW MEAN DIFFERENCE (-0.1 > A > -0.5)** | NONE | NONE | NONE | Amount_of_Arpeggiation<br>Partial_Chords<br>Parallel_Octaves<br>Note_Density_Variability<br>Melodic_Thirds<br>Variability_of_Number_of_Simultaneous_Pitches<br>Prevalence_of_Most_Common_Vertical_Interval<br>Variability_of_Time_Between_Attacks<br>Voice_Equality_-_Melodic_Leaps<br>Amount_of_Staccato<br>Variability_of_Note_Prevalence_of_Pitched_Instruments<br>Number_of_Pitch_Classes | NONE |
| **SIGNIFICANTLY BELOW MEAN DIFFERENCE (0 > A > -0.1)** | Pitch_Class_Kurtosis_After_Folding | Average_Time_Between_Attacks | Melodic_Sevenths | Vertical_Tritones<br>Importance_of_Bass_Register<br>Number_of_Pitches | NONE |
| **SIGNIFICANTLY ABOVE MEAN DIFFERENCE (0 < A < 0.1)** | Triple_Initial_Meter<br>Dominant_Seventh_Chords<br>Vertical_Tritones | Melodic_Sixths | NONE | Pitch_Class_Skewness_After_Folding<br>Most_Common_Rhythmic_Value<br>Dominant_Spread<br>Relative_Prevalence_of_Top_Pitch_Classes<br>Average_Number_of_Simultaneous_Pitch_Classes<br>Vertical_Unisons | Violin_Prevalence<br>Average_Number_of_Simultaneous_Pitches<br>Duple_Initial_Meter |
| **MUCH ABOVE MEAN DIFFERENCE (0.1 < A < 0.5)** | NONE | Brass_Prevalence | Pitch_Skewness<br>Variability_in_Rhythmic_Value_Run_Lengths | Average_Time_Between_Attacks<br>Interval_Between_Most_Prevalent_Pitch_Classes<br>Relative_Note_Density_of_Highest_Line<br>Vertical_Major_Third_Prevalence<br>Prevalence_of_Most_Common_Rhythmic_Value<br>Rhythmic_Value_Variability<br>Voice_Equality_-_Note_Duration<br>Difference_Between_Most_Common_Rhythmic_Values<br>Oblique_Motion<br>Vertical_Thirds<br>Mean_Rhythmic_Value<br>Vertical_Minor_Third_Prevalence<br>Average_Variability_of_Time_Between_Attacks_for_Each_Voice | NONE |
| **VERY MUCH ABOVE MEAN DIFFERENCE (A > 0.5)** | NONE | Saxophone_Prevalence | NONE | Standard_Triads<br>Prevalence_of_Very_Long_Rhythmic_Values<br>Prevalence_of_Medium_Rhythmic_Values<br>Stepwise_Motion<br>Unpitched_Percussion_Instrument_Prevalence | NONE |

| | [AffProg] FS2 Silhouette Cluster 1 (30) | [AffProg] FS2 Silhouette Cluster 2 (9) | [AffProg] FS2 Silhouette Cluster 3 (8) | [AffProg] FS2 Silhouette Cluster 5 (9) |
|---|---|---|---|---|
| **VERY MUCH BELOW MEAN DIFFERENCE (A < -0.5)** | NONE | NONE | NONE | NONE |
| **MUCH BELOW MEAN DIFFERENCE (-0.1 > A > -0.5)** | NONE | NONE | Range_of_Rhythmic_Values<br>Mean_Rhythmic_Value | NONE |
| **SIGNIFICANTLY BELOW MEAN DIFFERENCE (0 > A > -0.1)** | NONE | Average_Time_Between_Attacks | Number_of_Different_Rhythmic_Values_Present<br>Relative_Note_Density_of_Highest_Line<br>Polyrhythms_-_Tempo_Standardized<br>Rhythmic_Value_Variability<br>Pitch_Class_Variability_After_Folding | Number_of_Common_Rhythmic_Values_Present |
| **SIGNIFICANTLY ABOVE MEAN DIFFERENCE (0 < A < 0.1)** | NONE | NONE | Number_of_Unpitched_Instruments<br>Variability_of_Note_Prevalence_of_Pitched_Instruments<br>Prevalence_of_Short_Rhythmic_Values<br>Number_of_Common_Pitch_Classes<br>Total_Number_of_Notes | Variability_of_Note_Durations<br>Vertical_Minor_Third_Prevalence<br>Stepwise_Motion |
| **MUCH ABOVE MEAN DIFFERENCE (0.1 < A < 0.5)** | NONE | Brass_Prevalence<br>Most_Common_Vertical_Interval | Perfect_Vertical_Intervals<br>Distance_Between_Most_Prevalent_Melodic_Intervals<br>Note_Density<br>Pitch_Class_Kurtosis_After_Folding | Melodic_Pitch_Variety<br>Oblique_Motion<br>Rhythmic_Value_Variability |
| **VERY MUCH ABOVE MEAN DIFFERENCE (A > 0.5)** | NONE | Saxophone_Prevalence | Note_Density_per_Quarter_Note<br>Note_Density_per_Quarter_Note_per_Voice | Prevalence_of_Very_Long_Rhythmic_Values |

**+ Triple_Initial_Meter**
Mostly songs with triplets

**+ Dominant_Seventh_Chords**
**+ Vertical_Tritones**
**- Pitch_Class_Kurtosis_After_Folding**
Pitch classes are flat from a dominant-tonic perspective
Notable dissonance and tension within the song
Can be inferred there is a lot of push and pull in the songs

**- Average_Time_Between_Attacks**
lots of notes with short intervals in-between them

**+ Melodic_Sixths**
- lots of major/minor 6ths

**++ Brass_Prevalence**
**+++ Saxophone_Prevalence**
*(needs improvement)* Significant amount of brass instruments (could potentially be an error in the dataset not representing proper instruments)

**- Melodic_Sevenths**
Hard to infer without the context of the other melodic intervals

**+ Pitch_Skewness**
Notes are usually higher than the mean pitch

**+ Variability_in_Rhythmic_Value_Run_Lengths**
Notes are close to or usually the same length

**GENERAL**
*(needs improvement)* small sample yields skewed sample mean

**--- Vertical_Octaves**
**--- Variability_of_Number_of_Simultaneous_Pitch_Classes**
**-- Parallel_Octaves**
Very few no octaves

**--- Prevalence_of_Very_Short_Rhythmic_Values**
**-- Amount_of_Arpeggiation**
**-- Amount_of_Staccato**
**--- Relative_Prevalence_of_Most_Common_Rhythmic_Values**
**--- Number_of_Common_Rhythmic_Values_Present**
**+++ Prevalence_of_Very_Long_Rhythmic_Values**
**+++ Prevalence_of_Medium_Rhythmic_Values**
**++ Mean_Rhythmic_Value**
**++ Rhythmic_Value_Variability**
**++ Relative_Note_Density_of_Highest_Line**
Medium to long notes
Little to no short notes
Notes are most dense in 1 track than the others

**- Vertical_Tritones**
**+ Vertical_Unisons**
**++ Vertical_Thirds**
**++ Vertical_Major_Third_Prevalence**
**++ Vertical_Minor_Third_Prevalence**
**+++ Standard_Triads**
**-- Partial_Chords**
**+ Dominant_Spread**
**-- Variability_of_Number_of_Simultaneous_Pitches**
**-- Number_of_Pitch_Classes**
**- Number_of_Pitches**
**-- Note_Density_Variability**
**++ Oblique_Motion**
**-- Prevalence_of_Most_Common_Vertical_Interval**
**++ Average_Time_Between_Attacks**
**+ Relative_Prevalence_of_Top_Pitch_Classes**
**+ Average_Number_of_Simultaneous_Pitch_Classes**
**++ Interval_Between_Most_Prevalent_Pitch_Classes**
Intervals are constantly changing with steps, likely with a common root
Very harmonic - little to no chord dissonance
Simple, yet large and changing, full-sounding chords
Strongly rooted in thirds

**++ Average_Variability_of_Time_Between_Attacks_for_Each_Voice**
**-- Variability_of_Time_Between_Attacks**
**++ Voice_Equality_-_Note_Duration**
**++ Prevalence_of_Most_Common_Rhythmic_Value**
**+ Most_Common_Rhythmic_Value**
**++ Difference_Between_Most_Common_Rhythmic_Values**
Ever-changing timings between each note per instrument, yet consistent timing in-between instruments
Rhythm is consistent, but differs at some points
Same length of notes

**-- Melodic_Thirds**
**-- Voice_Equality_-_Melodic_Leaps**
**+++ Stepwise_Motion**
Melodies generally do not do leaps for all melodic tracks
Melodies prominently done through steps in the key rather than drastic intervals

**-- Variability_of_Note_Prevalence_of_Pitched_Instruments**
Notes are spread around each instrument

**+++ Unpitched_Percussion_Instrument_Prevalence**
Lots of percussion (These Are The Days Of Our Lives)

**+ Pitch_Class_Skewness_After_Folding**
**- Importance_of_Bass_Register**
Not as much low notes

**+ Violin_Prevalence**
*(needs improvement)* Could potentially be an error in the dataset not representing proper instruments

**+ Average_Number_of_Simultaneous_Pitches**
Strong number of octaves and simultaneous notes on different tracks (potentially tonal centers)

**+ Duple_Initial_Meter**
Stronger feels on the 2 or 6, depending on the track rather than 4 or 12 (may not be noticable on MIDI)

NONE

**- Average_Time_Between_Attacks**
short intervals in-between notes

**++ Most_Common_Vertical_Interval**
*(not analyzable)* MCVI is scored via semitones

**++ Brass_Prevalence**
**+++ Saxophone_Prevalence**
*(needs improvement)* Significant amount of brass instruments (could potentially be an error in the dataset not representing proper instruments)

**- Pitch_Class_Variability_After_Folding**
**++ Pitch_Class_Kurtosis_After_Folding**
**+ Number_of_Common_Pitch_Classes**
**++ Distance_Between_Most_Prevalent_Melodic_Intervals**
**++ Perfect_Vertical_Intervals**
Notes tend to center close to the song's common key
Likely to have lots of perfect fourths, fifths, and prominent octaves (high melodic distance)

**+ Variability_of_Note_Prevalence_of_Pitched_Instruments**
Many tracks are not as utilized as others quantitity-note-wise

**+ Total_Number_of_Notes**
**+++ Note_Density_per_Quarter_Note**
**+++ Note_Density_per_Quarter_Note_per_Voice**
**++ Note_Density**
**- Relative_Note_Density_of_Highest_Line**
**++ Perfect_Vertical_Intervals**
Notes are densely populated
Music is very consonant (not dissonant, less bluesy)
High notes are emphasized by being played sparingly

**- Polyrhythms_-_Tempo_Standardized**
**-- Range_of_Rhythmic_Values**
**-- Mean_Rhythmic_Value**
**- Rhythmic_Value_Variability**
**+ Prevalence_of_Short_Rhythmic_Values**
**- Number_of_Different_Rhythmic_Values_Present**
Consistent, simple, and repetitive beats & rhythm

**+++ Note_Density_per_Quarter_Note**
**+++ Note_Density_per_Quarter_Note_per_Voice**
**++ Note_Density**
**+ Number_of_Unpitched_Instruments**
Notes are densely populated, in each track, both based per bar and per minute (indicating fast BPM tracks)
Likely to be rhythmic instruments (drums, percussion, etc.)
Makes sense in Somebody To Love, Don't Stop Me Now, A Kind of Magic (4 on floor)

**+ Variability_of_Note_Durations**
**+++ Prevalence_of_Very_Long_Rhythmic_Values**
Notes are varied in duration but are prominently long

**- Number_of_Common_Rhythmic_Values_Present**
**++ Rhythmic_Value_Variability**
Song contains a lot of different changing rhythms (likely syncopation)

**+ Vertical_Minor_Third_Prevalence**
**++ Oblique_Motion**
**+++ Prevalence_of_Very_Long_Rhythmic_Values**
Uses a lot of chords with the minor third
Base is usually kept when chords change

**++ Melodic_Pitch_Variety**
**+ Stepwise_Motion**
Notes of the same pitch are not close together
Melodies go up a lot and down a lot, not much repetition within 16 notes