

# Data Analytics Shows that Popular Music Lyrics Become Angrier and Sadder

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*Computer analysis of thousands of popular music songs showed that the lyrics of popular music becomes sadder, angrier, and less joyful over time.*

SOUTHFIELD, MICHIGAN, USA, February 5, 2019 /EINPresswire.com/ -- Popular music has changed over the years, and the modern music of our time is noticeably different from the music of the 1950's or 1960's. But it is not just the music and sound that changed, but also the lyrics. Data scientists at Lawrence Technological University in Michigan used data analytics to study the change in lyrics of popular music over seven decades, from the 1950's to 2016. The results showed that the expression of anger and sadness in popular music has increased gradually over time, while the expression of joy has declined.

In a research paper published in the most recent issue of the Journal of Popular Music Studies, Kathleen Napier and Lior Shamir analyzed the lyrics of over 6000 songs of the Billboard Hot 100 in each year. The Billboard Hot 100 songs are the most popular songs each year, and reflect the preferences of music fans. In the past the songs were ranked mainly by record sales, radio broadcasting, and jukebox plays, but in the more recent years it is based on several other popularity indicators such as streaming and social media to reflect the changes in music consumption.

The tones expressed in each song were analyzed by applying automatic quantitative sentiment analysis. Automatic sentiment analysis associates each word or phrase in the song with a set of tones that they express. The combination of the tones expressed by all words and phrases of the lyrics determines the sentiment of that song. The sentiments of all Billboard Hot 100 songs in each year are averaged, and the average of each year allows to measure whether the expression of that sentiment increased, decreased, or remained constant.

The analysis showed that the expression of anger in popular music lyrics has increased gradually over time. Songs released during the mid 1950's were the least angry, and the anger expressed in lyrics has increased gradually until peaking in 2015. The analysis also revealed some variations. Songs released in the three years of 1982-1984 were less angry compared to any other period, except for the 1950's. In the mid 1990's, songs became angrier, and the increase in anger was sharper during that time in comparison to previous years.

The expression of sadness, disgust and fear also increased over time, although the increase was

milder compared to the increase in the expression of anger. Disgust increased gradually, but was lower in the early 1980's and higher in the mid and late 1990's. Popular music lyrics expressed more fear during the mid 1980's, and the fear decreased sharply in 1988. Another sharp increase in fear was observed in 1998 and 1999, with a sharp decrease in 2000. The study also showed that joy was a dominant tone in popular music lyrics during the late 1950s, but it decreased over time and became much milder in the recent years. An exception was observed in the mid 1970's, when joy expressed in lyrics increased sharply.

The study shows that the tones expressed in popular music change over time, and the change is gradual and consistent, with a few exceptions. Since the researchers analyzed the most popular songs in each year, the study does not show that music changed, but in fact that the preferences of music consumers have changed over time. While music fans preferred joyful songs during the 1950s, modern music consumers are more interested in songs that express sadness or anger. "The change in lyrics sentiments can also be related to the change of the role of music in society. While in the 1950's the purpose of music was mainly fun and entertainment, in the late 1960's and early 1970's music also served the purpose of social and political activism. That change can lead to substantial differences in the expectations of music consumers reflected in the song lyrics," says Lior Shamir, who participated in the research.

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