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Top Billboard Songs

*A Data-Driven Exploration of 50 Years of Music*

# Music Trends Throughout the Years: 1965 - 2015

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# Intro + Our Data



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Our Music Playlists

# *How do Generational and Decadal Shifts Influence Music Preferences and Styles?*

—Team Venus



# Supplemental Questions

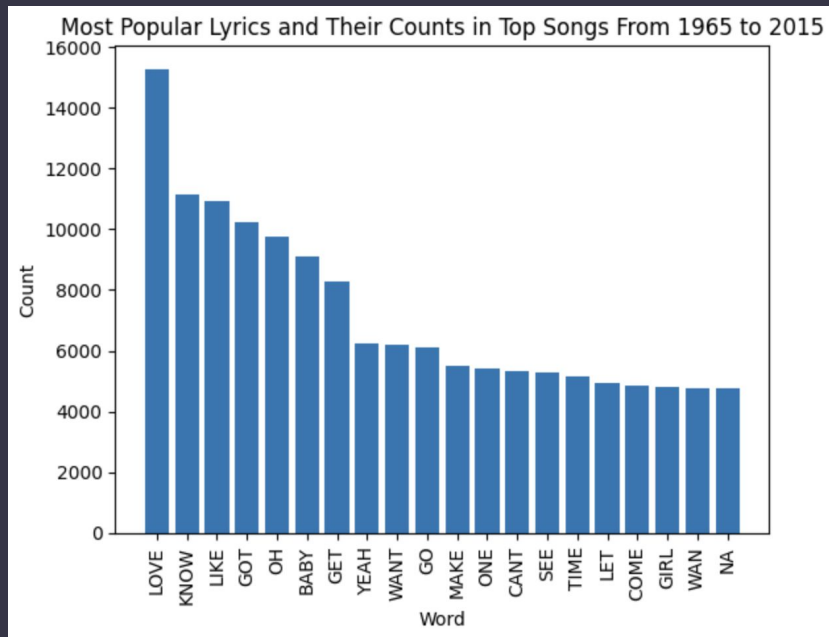


## Evolution of Music

- How do lyrics change over time?
  - Frequency
  - Meaning / Depth
- How does lyrical sentiment change over time?
  - Why?
  - Relationship with news sentiment?

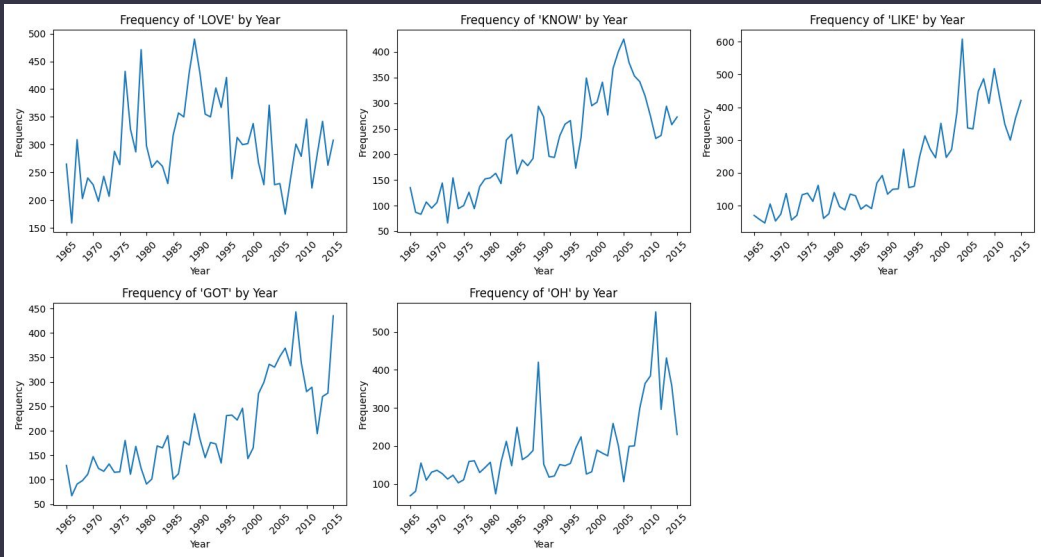


# Word Abundance



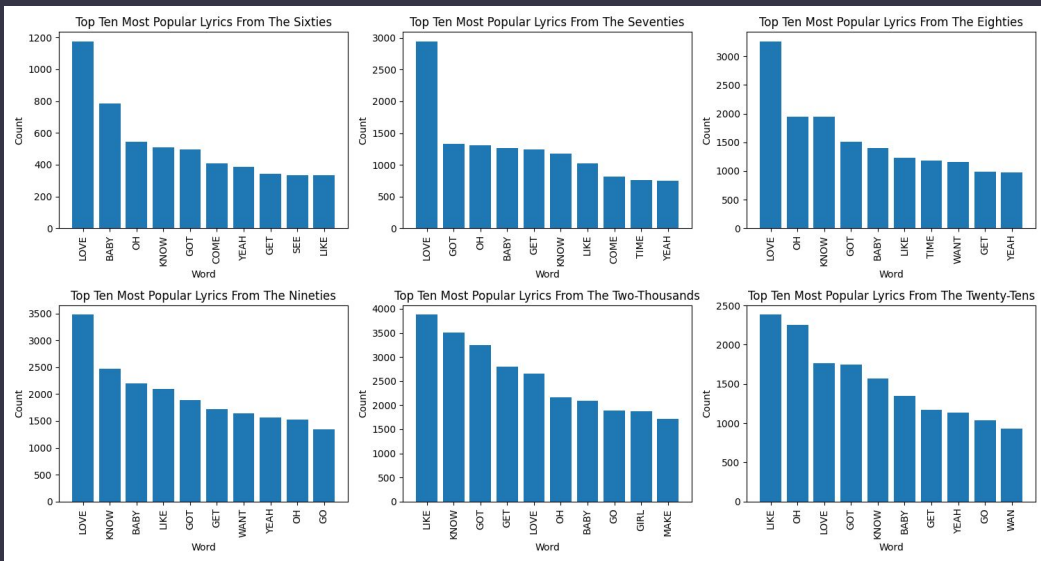


# Word Abundance



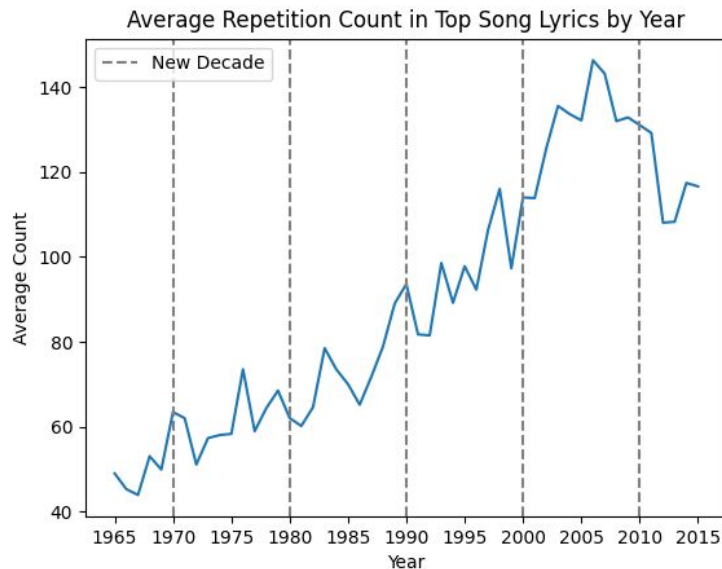


# Popularity Throughout the Decades





# Word Repetition



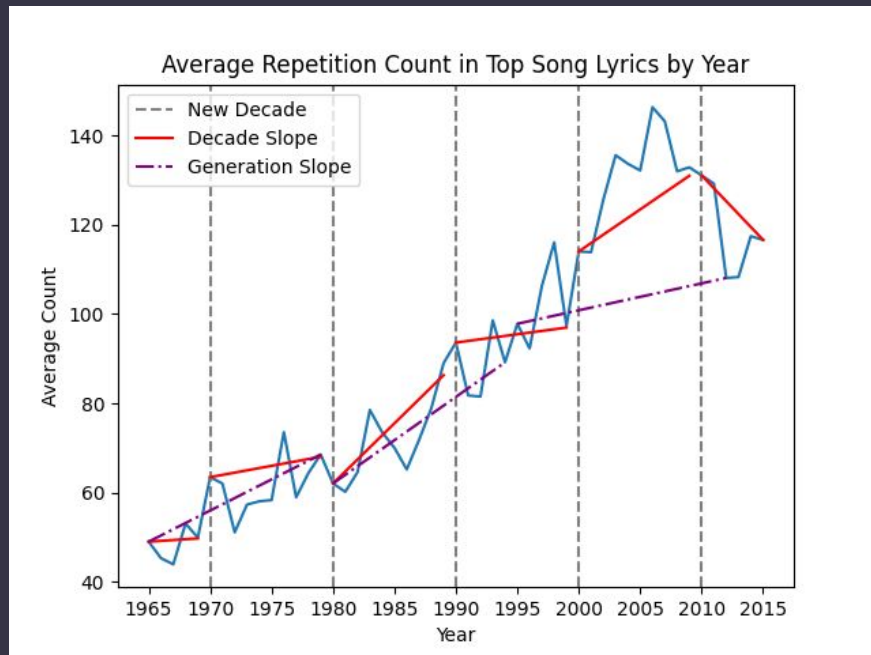




# Word Repetition

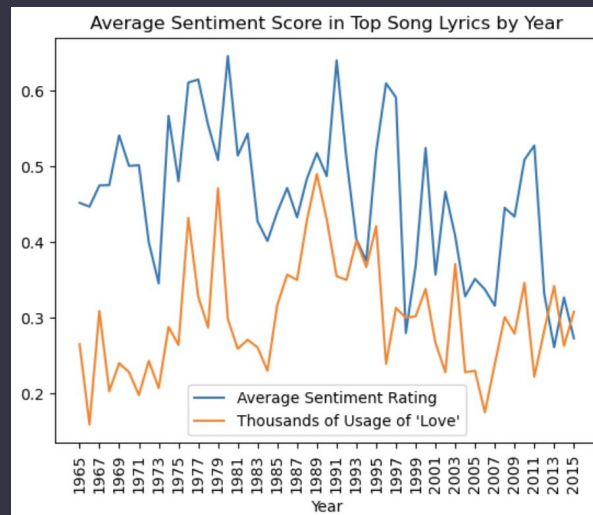
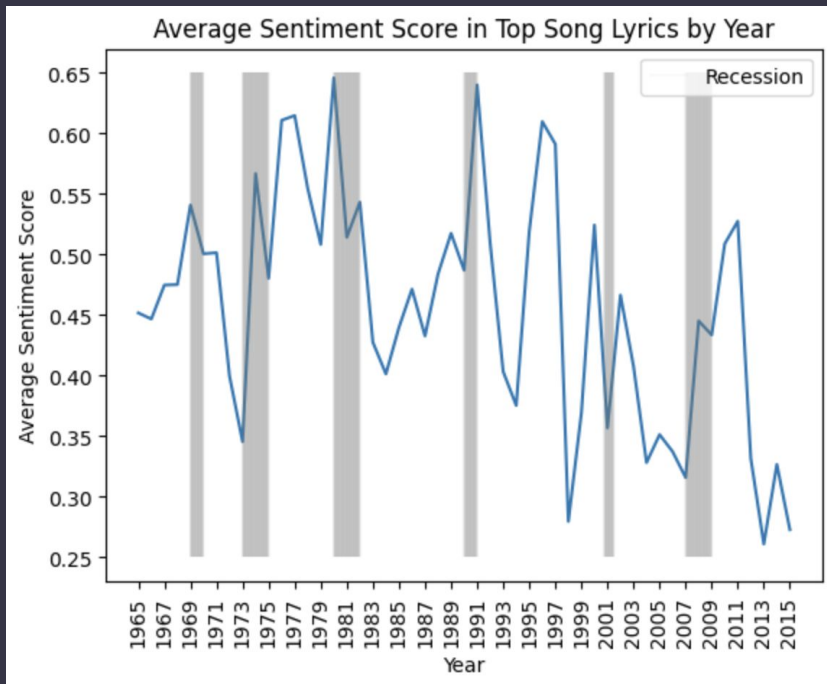


	Time Period	Derivatives
0	Sixties	0.182977
1	Seventies	0.507336
2	Eighties	2.692553
3	Nineties	0.372786
4	Two-Thousands	1.883474
5	Twenty-Tens	-2.885673
6	Overall	1.350995
7	Gen X	1.393985
8	Gen Y	1.936930
9	Gen Z	0.602752



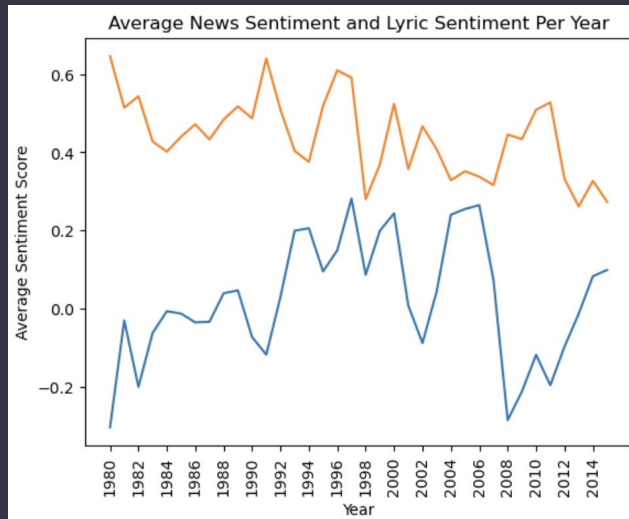
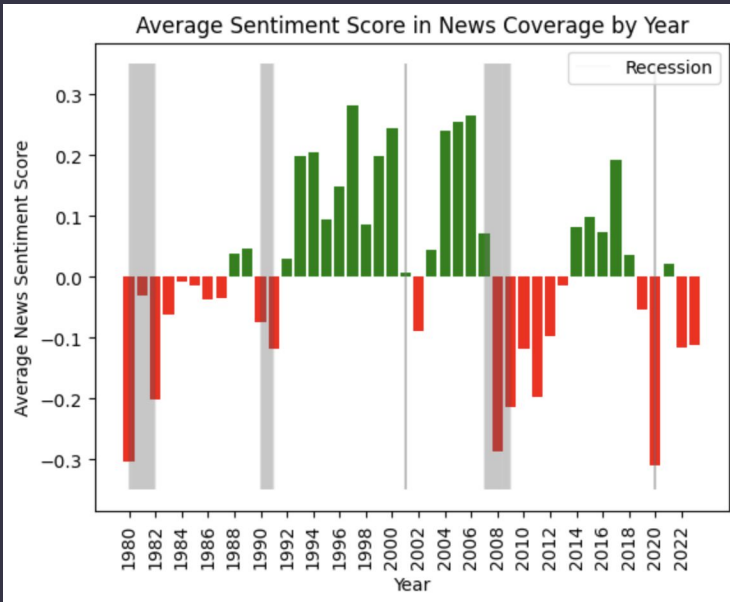


# Lyric Sentiment Analysis





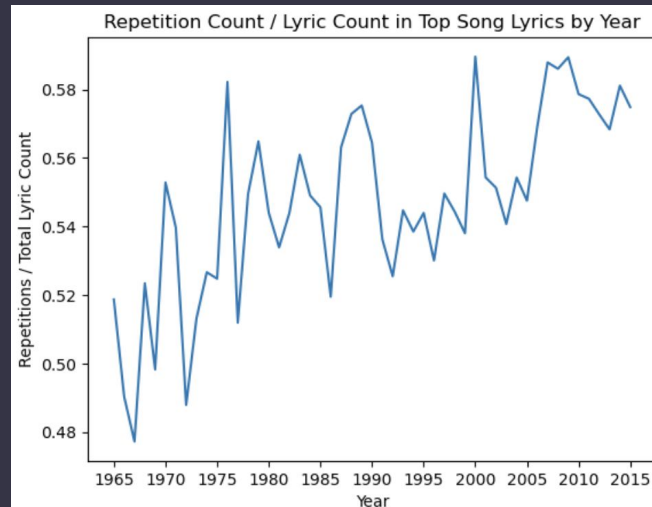
# New Articles Sentiment Analysis



# Limitations / Assumptions

2000	100
1987	100
1989	100
2011	100
2002	99
1988	99
1993	99
1985	99
2010	99
2014	99
2004	98
1984	98
2001	98
2005	98
1992	98
2012	98
2013	98
1990	98
2015	98
1983	98
1967	98
1973	98
1995	97
1970	97
2009	97
...	
1977	91
1996	91
1972	91
1971	88

- Nan values
- Music is influenced by external factors
- Can't know the cause of these trends
  - Correlations
  - Coincidence
- Can only limit to the US
- Genre
- Artist Meta Data





# Conclusion



- The most popular lyrics in songs are getting more popular
- Top songs are getting more lyrically repetitive
- Sentiment in songs may be correlated with events in the world, but the general trend is downward
- All you need is love

