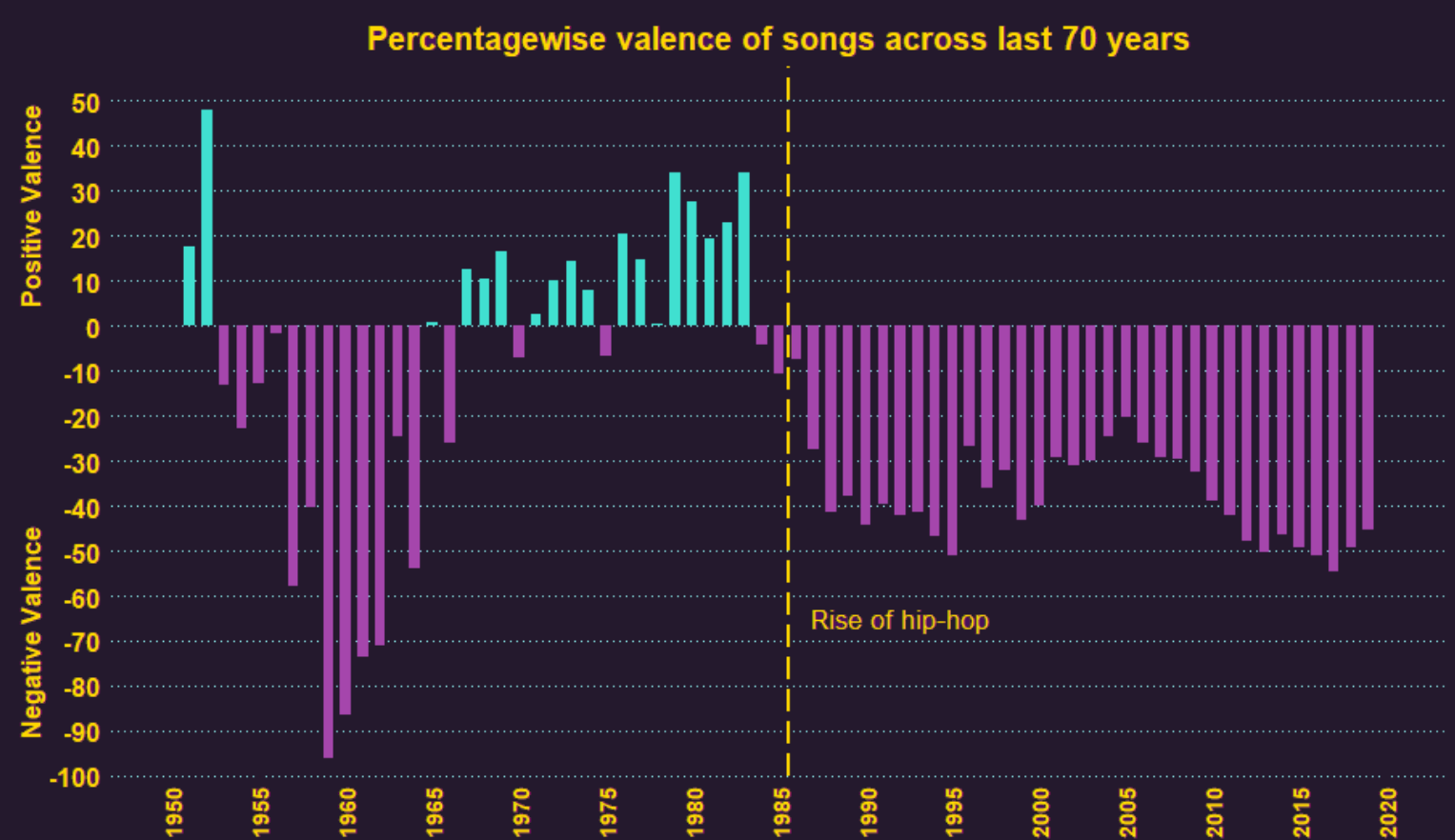# TAKE A LISTEN
THE IMPORTANCE OF THE WORDS BEING SUNG

Music is such a complex topic that any analysis regarding it is bound to be superficial or focused on a narrow part of the issue. Going the former path we have decided to analyse music with respect to the words it carries - the text. We wanted to check whether data connected to lyrics is somewhat correlated to the other parameters describing sound itself, emotions it brings forth and how it has changed over last 70 years. The results turned out to be forth the look!

Across over 5,000 songs word *"love"* appears 15698 times, on average thrice per song. For informativity sake we have removed some words common in the english language, which do not "carry much artistic meaning".

The plot represents the median of song's valence across last 70 years. Valance describes the musical positivness conveyed by a song. Blue color of the bar indicates that the song were mostly positive and pink color suggests the opposite.

Percentagewise valence of songs across last 70 years

Mean number of words in each year

The graph shows the number of words per second for the top 100 songs in each year. You can definitely see the influence of hip hop in shaping popular music. The word count shows both how much a song is filled with lyrics without an instrumental break and the speed of the spoken words.

Below we would like to show a simple correlation matrix of certain characteristics describing songs contained in the aforementioned data frame. It is clear that most of them are not correlated (strongly nor weakly).

	ACCOUSTICNESS	LIVENESS	DURATION	DANCEABILITY	VALENCE	LOUDNESS	ENERGY	SPEECHINESS
#UNIQUE WORDS	-0.2	0.1	0.3	0.3	0	0.3	0.2	0.5
SPEECHINESS	-0.2	0.1	0	0.2	0.1	0.2	0.2	
ENERGY	-0.6	0.1	0.1	0.3	0.4	0.7		
LOUDNESS	-0.4	0	0	0.2	0.1			
VALENCE	-0.2	0	-0.2	0.5				
DANCEABILITY	-0.4	-0.1	0.1					
DURATION	-0.2	-0.1						
LIVENESS	0							