

22894551 - Question 2 - Play that Song

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1. Introduction

This is an analysis of two iconic bands with >20-year careers. Firstly, Coldplay (Alternative/Pop Rock, debut: 2000), and secondly Metallica (Heavy Metal/Thrash, debut: 1981). Using Spotify data, we can compare their musical progression, audience engagement, and adaptation to industry trends, filtering only studio recordings for fair comparisons.

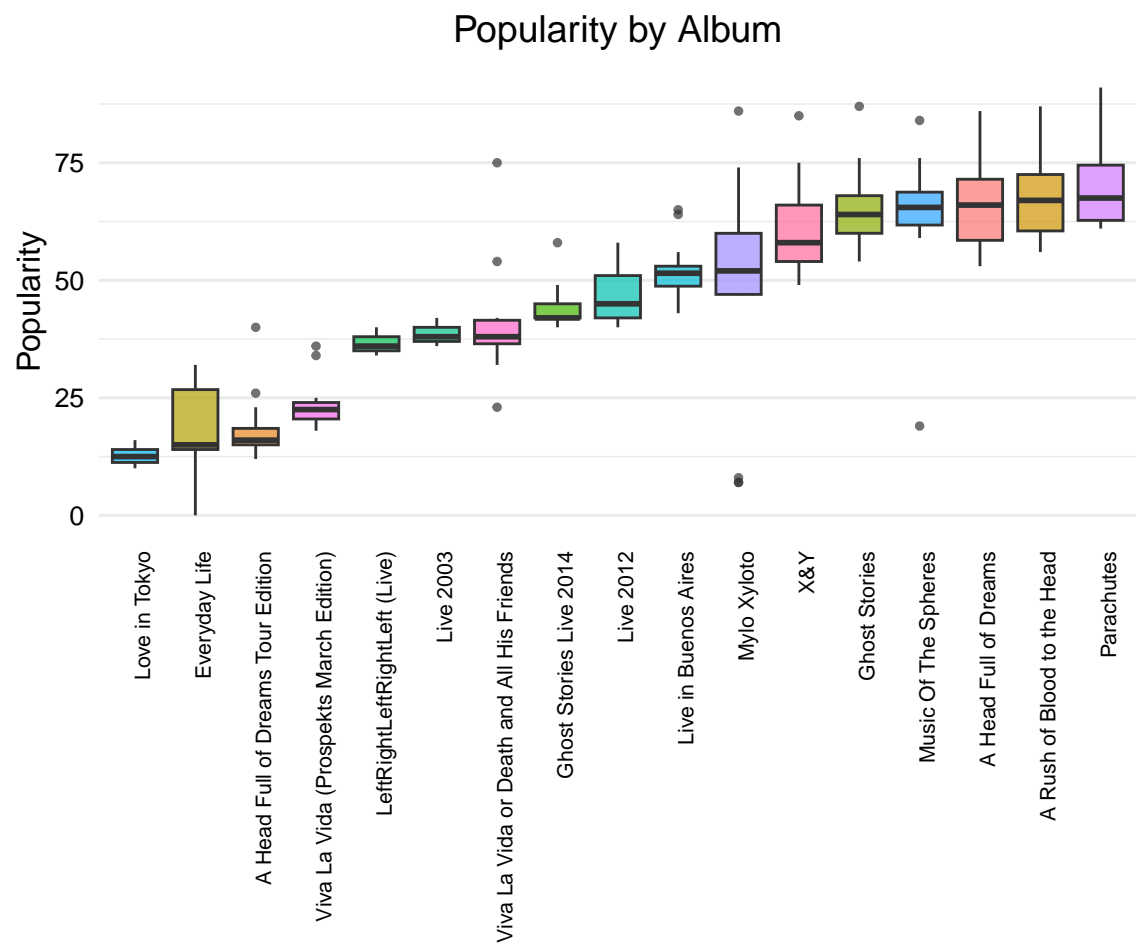
2. Popularity by album

A box-and-whisker plot compares the popularity scores of each band’s albums, revealing trends across their discographies.

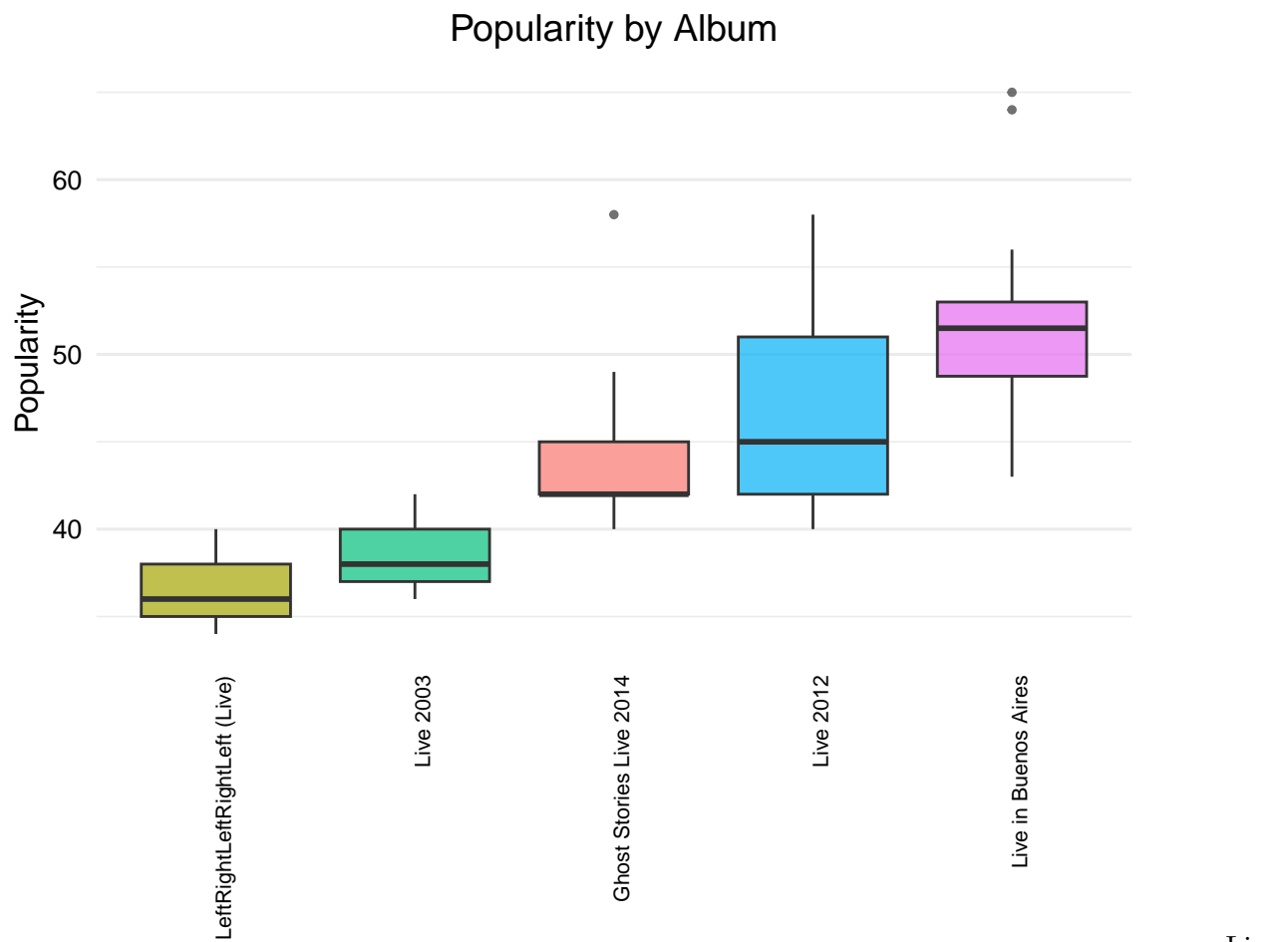
2.1. Coldplay

Coldplay has released a wide range of albums over the years. Coldplay’s evolving sound over the years is reflected in the varying popularity of their studio and live albums.

2.1.1. Overall



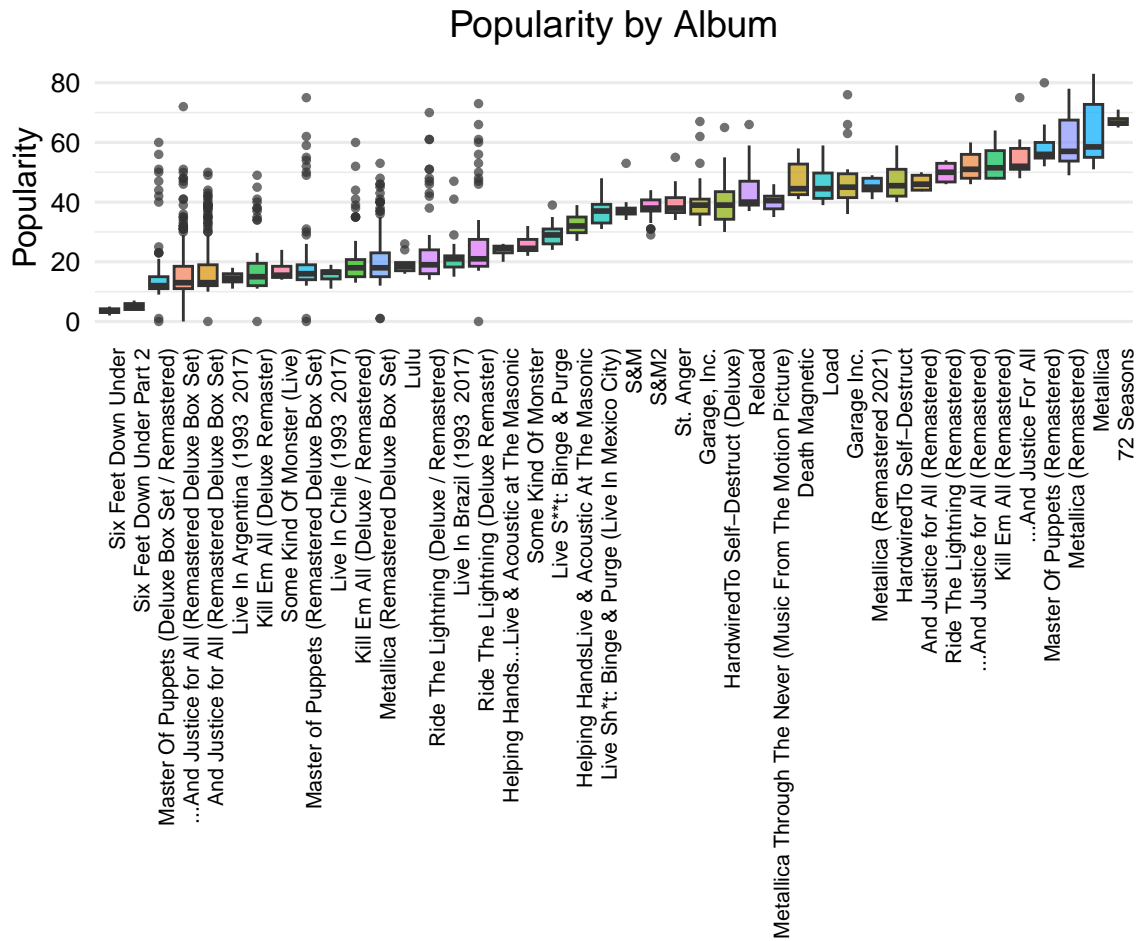
Coldplay is known for its live albums, with the live albums of “Live in Bueonos Aires” and “Live 2012” surpassing albums like “Love in Tokyo” and “Everyday Life” in popularity. ### Live



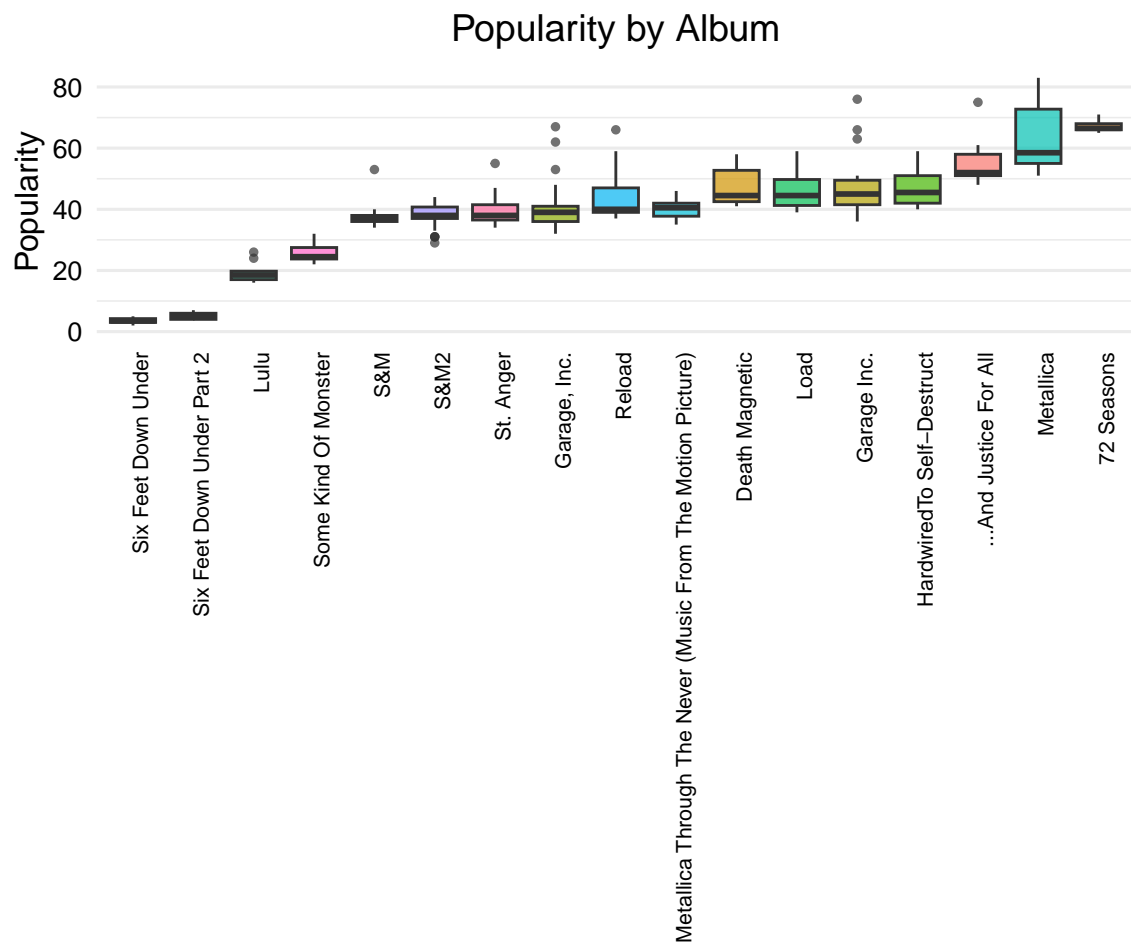
Live albums consistently rank highly, suggesting stronger fan engagement with concert performances.

2.2. Metallica

Metallica's enduring appeal is evident, with remastered editions dominating their most popular works. ### Overall



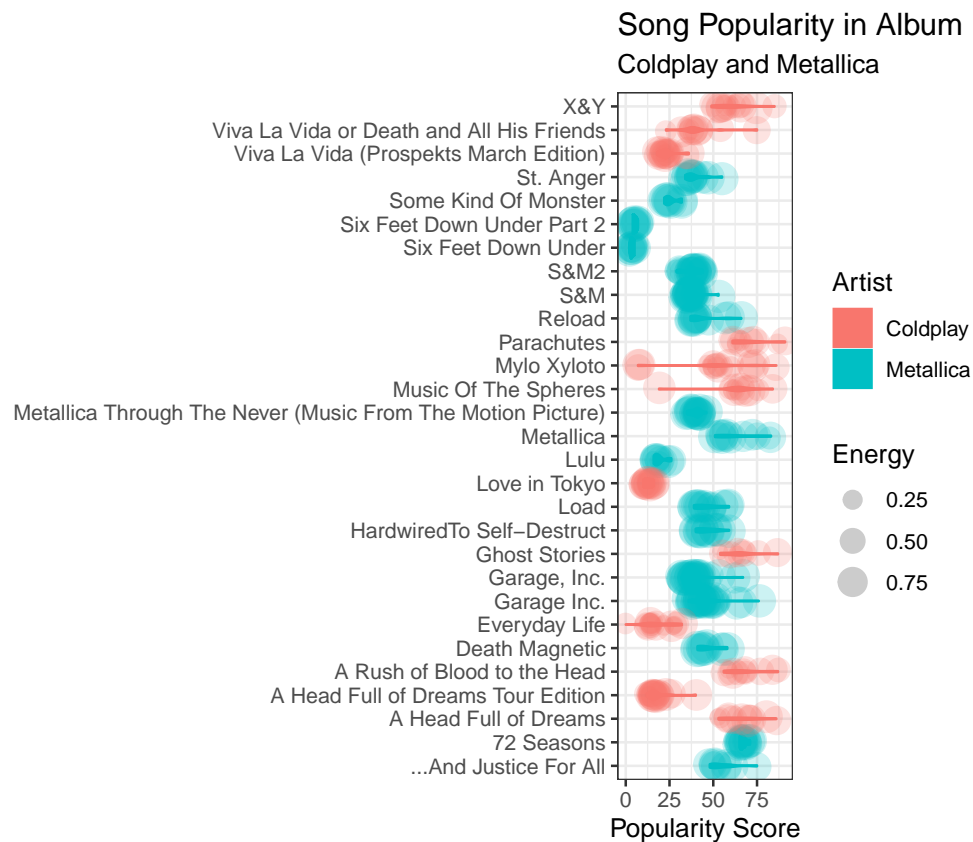
Remas-
tered albums claim 7 of the top 10 spots, highlighting their continued relevance and enhanced
production value. ### Studio



Classic releases maintain a strong presence, showing a loyal fanbase. Streaming services have made Metallica's music much more accessible. Seeing an steady increase in popularity over time is unsurprising.

3. Song popularity

Now let's look deeper into the popularity of the songs within each album.

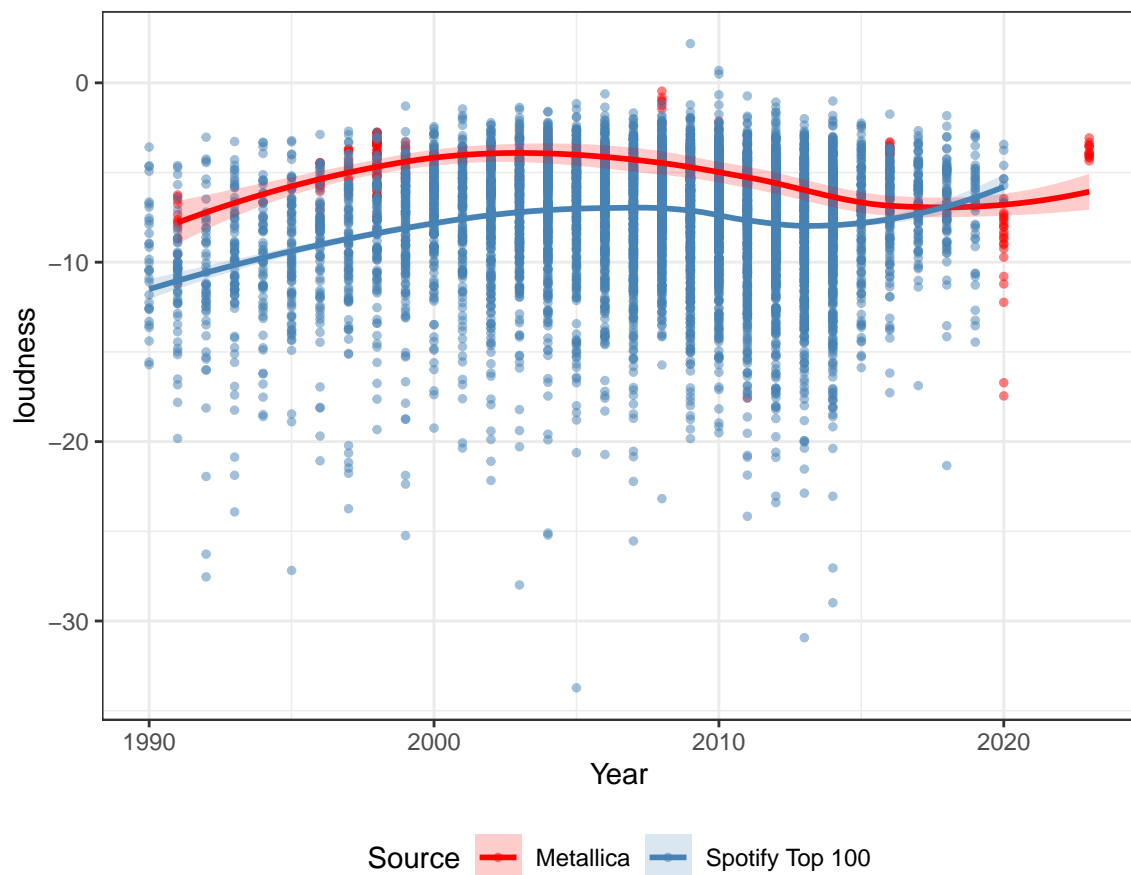


“Parachutes” and “A Rush of Blood to the Head” are identified as Coldplay’s two most popular albums of all time. Within those two albums, all songs are popular. Compared to “Mylo Xyoto”, where many songs are popular, but some are unpopular - bumping the album to a lower ranking overall. This shows the importance of song popularity in determining album popularity.

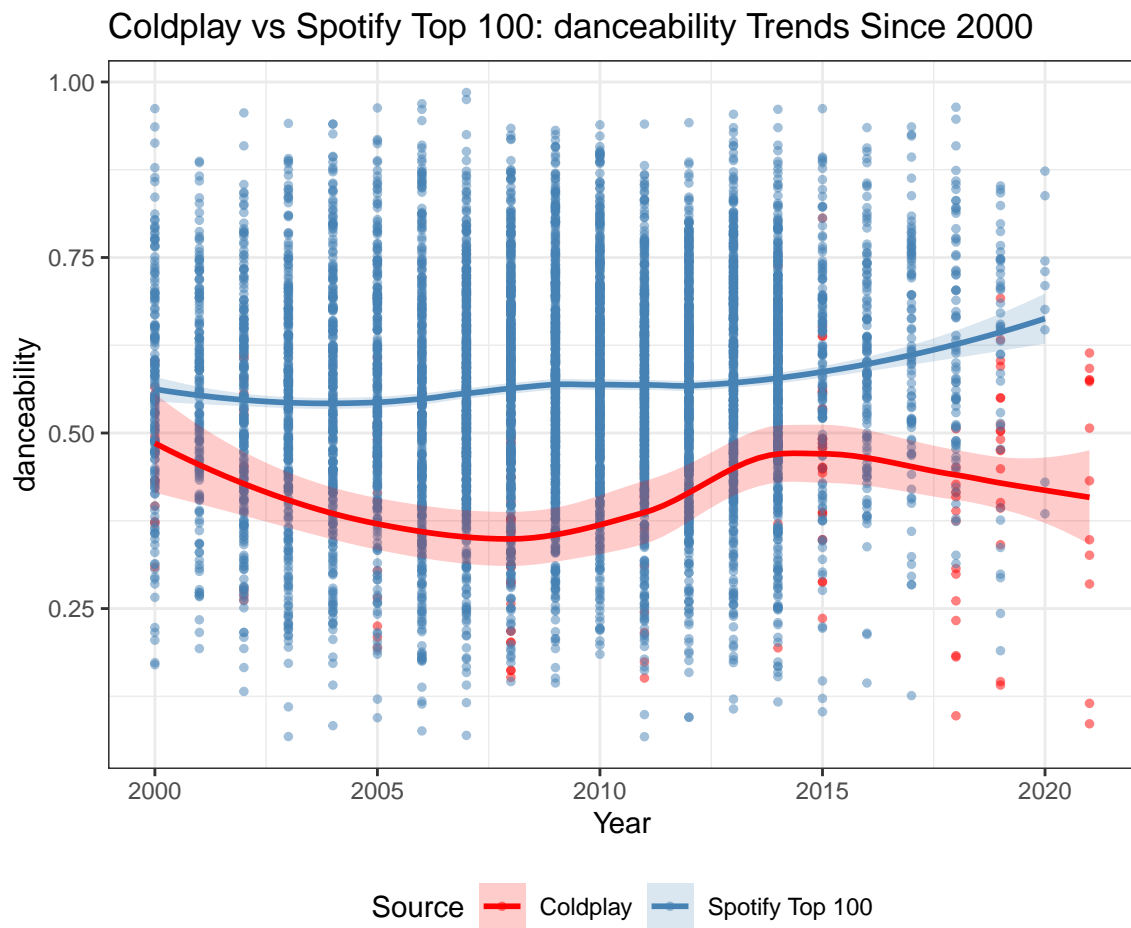
4. Timetrends in music style

To look deeper into the longevity of these popular bands, we can consider the development of music styles over time. By reviewing the time trends of components of their music compared to that of Spotify (a proxy for global music trends), we can uncover whether the artists changed their style to meet global trends. Metallica, known as a loud band, remains louder than the global trend, up until about 2015, maintaining their signature style.

Metallica vs Spotify Top 100: loudness Trends Since 1990

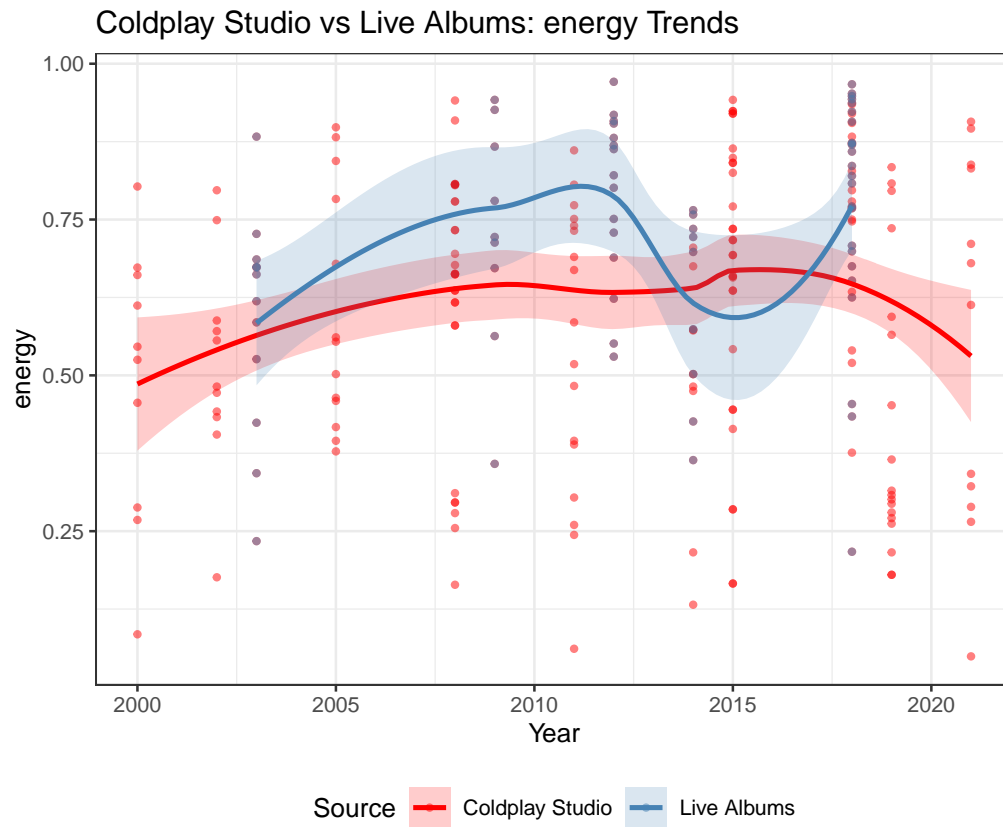


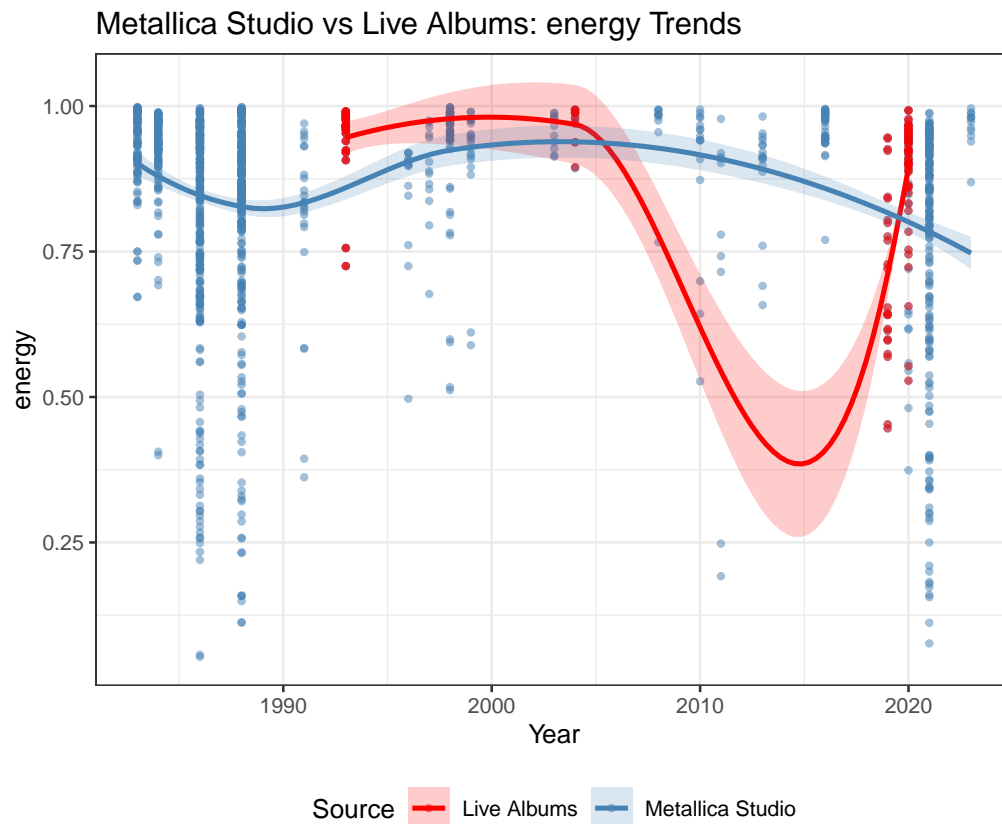
Cold-play starts following the global danceability trends, but returns to their calmer style over time.



5. Live vs Studio albums

We can see that energy trends are much lower in Live albums, for both Coldplay and Metallica, but especially for Metallica.





6. Conclusion

Both Metallica and Coldplay demonstrate how iconic artists balance staying true to their roots while navigating evolving music trends. Ultimately, their sustained popularity suggests that success lies not in chasing trends, but in blending selective innovation with core artistic identity.