

Coldplay Concert*

Shreya Sakura Noskor

Group 22

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1 Introduction

In honor of their recent concert during the summer (which I didn't get the tickets to, unfortunately), I am writing this paper to manifest my tickets for the next concert as well as understand how frequent albums get released with such a global band.

Coldplay was a very large group that I listened to in elementary and middle school. They slowly became more and more inactive as they got busy with their own lives, but recently, they had a concert in Toronto, and they scheduled a next one for next year as well.

We got the data from Thompson et al. (2022) and cleaned it using R Core Team (2023) with the help of Wickham et al. (2019). Code and inspiration comes from Alexander (2023).

2 Duration of Songs

So the first thing Figure 1 I want to investigate was the same thing that was investigated for the radiohead in Alexander (2023). Here we see the duration of each song in every album that was released that year. We do not see which song comes from which album but we see a trend. Here we see that the longest song we have is 10 mins. This is the song Coloratura where the song was 10 mins and 18 secs in total. The shortest song was 21 seconds, which was probably a b-side (a song that is not the title track).

The next graph Figure 2 shows the number of songs they released in that month. They are a band that has been active for a very long time. They started the band back in 1997 but their first album came out in 2000. It looks like they had a break between 2003 to 2005, 2005 to 2008, 2012 to 2014 and then once again from 2021 to 2024. The break may have been just them producing more music to release all at the same time. I say this because every large gap

*Code and data are available at: <https://github.com/NotSakura/SpotifyAPIExer.git>.

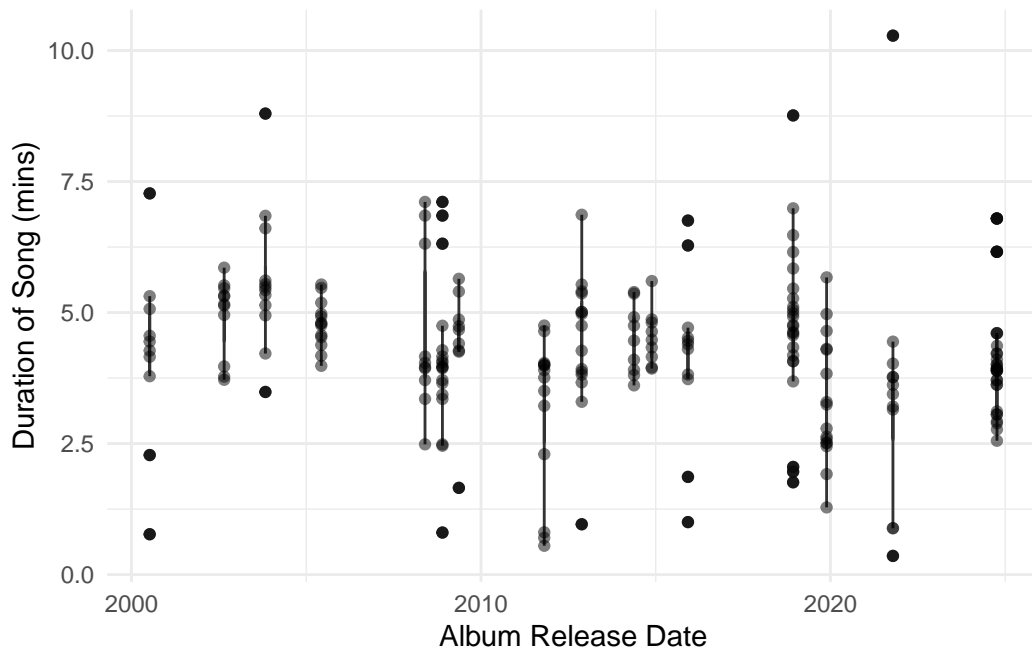


Figure 1: ?(caption)

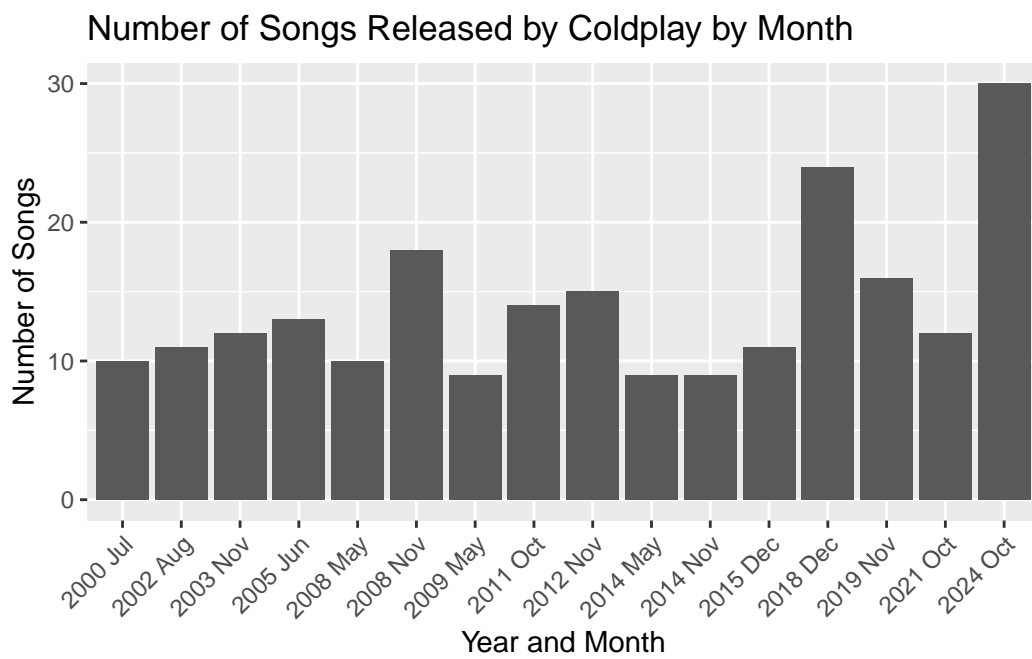


Figure 2: ?(caption)

of 1 year or more in the release dates they have, the graph shows that they release a lot of songs at once or slowly release large number of songs.

Table 1: Average Tempo, Energy, and Loudness for Each Coldplay Album

Album Name	Average Tempo	Average Energy	Average Loudness
A Head Full of Dreams	124.3566	0.6382727	-8.319000
A Rush of Blood to the Head	137.8758	0.5155455	-7.426636
Everyday Life	125.2230	0.4158125	-12.204875
Ghost Stories	116.3137	0.4813333	-10.215778
Ghost Stories Live 2014	107.3441	0.6160000	-9.474778
LeftRightLeftRightLeft (Live)	127.5233	0.7270000	-7.668667
Live 2003	129.1165	0.5863333	-8.071000
Live 2012	120.0753	0.7872667	-7.188600
Live in Buenos Aires	112.4594	0.7715833	-7.288792
Moon Music	121.0982	0.5102000	-9.656600
Moon Music (Full Moon Edition)	122.7883	0.4647250	-10.022600
Music Of The Spheres	140.9358	0.5620083	-11.275250
Mylo Xyloto	111.6181	0.5054500	-10.755786
Parachutes	136.6161	0.4916500	-9.118900
Viva La Vida (Prospekt's March Edition)	131.9732	0.6280000	-9.078944
Viva La Vida or Death and All His Friends	126.5466	0.6579000	-8.284900
X&Y	131.8029	0.6012308	-8.260692

Figure 3: ?(caption)

Lastly through this table Figure 3, I am trying to infer how the Coldplay concert will be like. The band is known to have amazing sold out concerts where the money is worth the experience. So, I will be analyzing what the tempo, energy and loudness of each albums are. These are averages taken across the songs in the album and some of the qualitative scales like energy and loudness was determined through survey's (done by spotify themselves). We see that all of their songs have a low loudness as they are in the negatives. This essentially means that although Coldplay is a rock band it is not very loud music. The energy levels across all the albums never go below 0.45 and never above 0.75 which is probably. This may be due to the fact that some people classify Coldplay and their songs as soft rock which might be why there is some energetic component involved but its not too calm either. This makes it perfect for a concert because you are not getting a headache from the energy and loudness but you are not bored either. The last average I compute is the tempo. we see that the tempo

ranges between 107 bpm and 131 bpm. It is said that a song is perfect if the tempo is the same as your heart rate which is around 80-90 bpm. Based on this measurement, it seems that all of Coldplay's songs are very energetic and keeps you heart pumping so you are engaged throughout the entire concert.

To finish it off I can tell based in the information collected from spotify's API, that the concert will be long but very much worth it.

3 Appendix

Table 2: Monthly Song Counts for Coldplay

Year	Month	Number of Songs	Year-Month
2000	Jul	10	2000 Jul
2002	Aug	11	2002 Aug
2003	Nov	12	2003 Nov
2005	Jun	13	2005 Jun
2008	May	10	2008 May
2008	Nov	18	2008 Nov
2009	May	9	2009 May
2011	Oct	14	2011 Oct
2012	Nov	15	2012 Nov
2014	May	9	2014 May
2014	Nov	9	2014 Nov
2015	Dec	11	2015 Dec
2018	Dec	24	2018 Dec
2019	Nov	16	2019 Nov
2021	Oct	12	2021 Oct
2024	Oct	30	2024 Oct

References

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