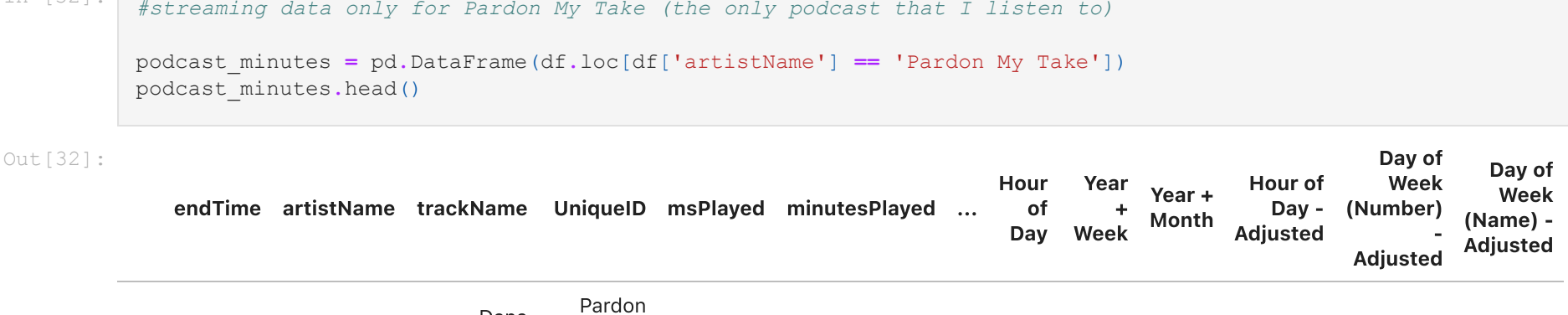


As we can see in the above table and line chart, the number of minutes listened to by week can vary drastically from week to week but overall appears to be generally stable.

There are sometimes large drops in minutes played from one week to the next, such as from 2020-26 (the 26th week of 2020) to 2020-27 (the 27th week of 2020). With a standard deviation of approximately 267 minutes per week, there is certainly some volatility within the data.

There are various factors that could have influenced why certain weeks are higher than others, such as if I exercised more or drove more in certain weeks (both activities during which I heavily listen to music/podcasts).

### During what months do I most often listen to music and podcasts?



```
Out [30]:
```

minutesPlayed	
Year + Month	
2020-06	2,816.82
2020-07	3,712.4
2020-08	4,057.68
2020-09	4,146.7
2020-10	2,766.96



It appears that the monthly data is distributed relatively uniformly but with certain waves that occur throughout the months.

We can see from this data that the month in which I listened the most content was May 2021, while the month in which I listened to the least amount of content was October 2020. There is a 79% increase in minutes listened from October 2020 to May 2021!

There appear to be three different waves over the months with respect to minutes listened. The first peak starts in June 2020 and ends in October 2020, the second peak begins in November 2020 and ends in February 2021, and the third peak begins in March 2021 and ends in October 2021. There are various factors that could have influenced why certain months peaked, such as if I exercised more or drove more in certain months (both activities during which I heavily listen to music/podcasts) or if I was introduced to new music in certain months (which would cause me to listen more than normal).

### During what days of the week do I listen to podcasts the most?



```
Out [32]:
```

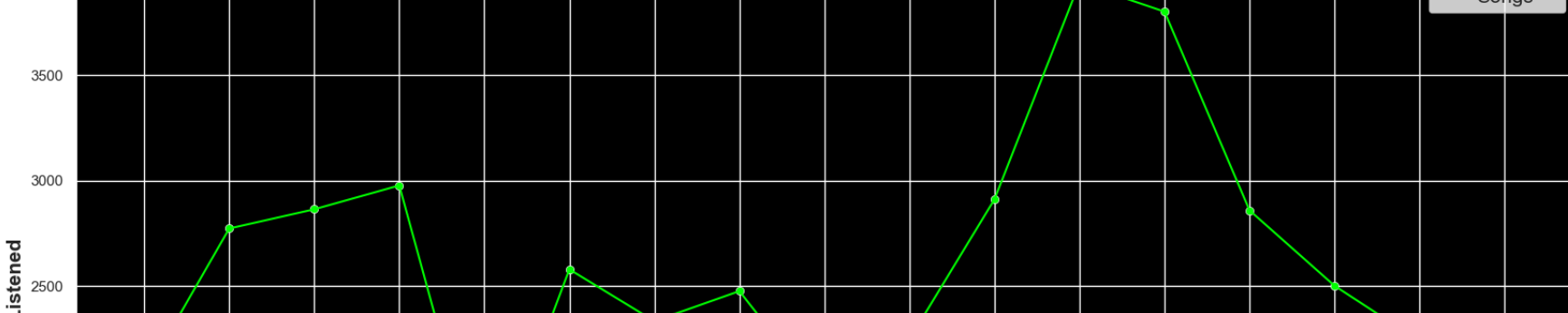
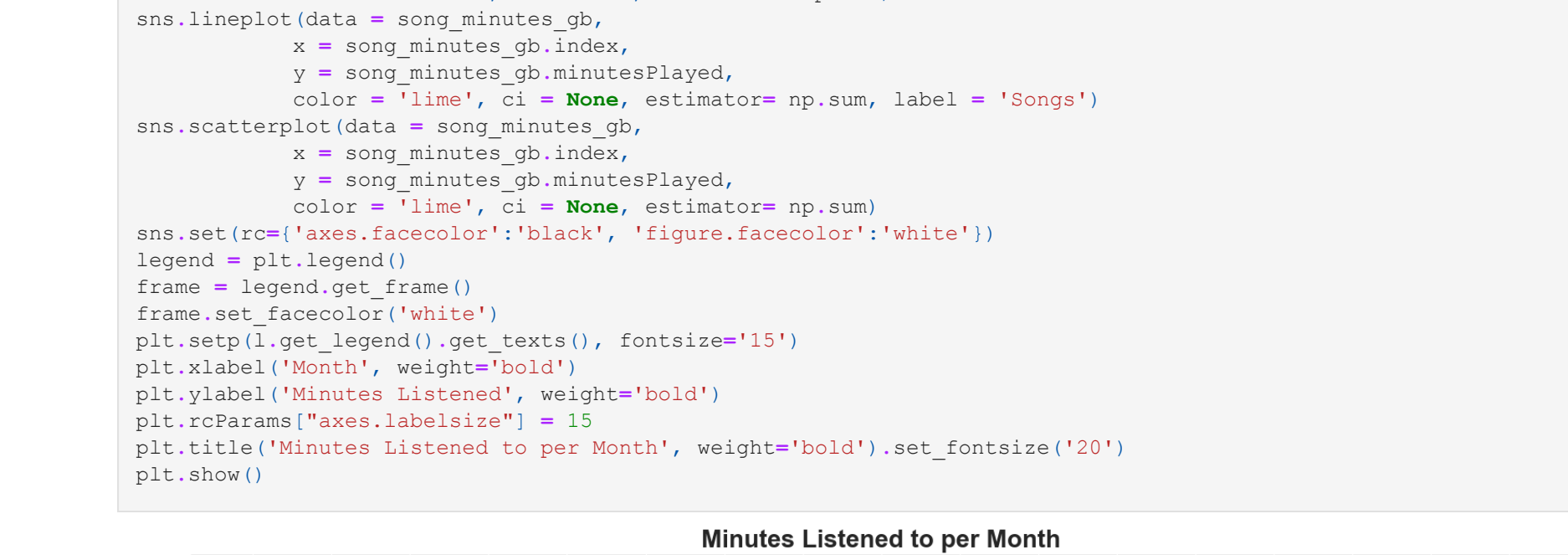
	endTime	artistName	trackName	UniqueID	msPlayed	minutesPlayed	...	Hour of Day	Year + Month	Hour of Day - Adjusted	Day of Week (Number) - Adjusted	Day of Week (Name) - Adjusted
1	2020-06-05 13:32:00	Pardon My Take	Dana White, Booger McFarland And Sour Grapes D...	Pardon My Take: Dana White, Booger McFarland A...	46634		0.78	...	13 2020-23	2020-06	8	4 Friday
11	2020-06-06 17:31:00	Pardon My Take	Dana White, Booger McFarland And Sour Grapes D...	Pardon My Take: Dana White, Booger McFarland A...	833666		13.89	...	17 2020-23	2020-06	12	5 Saturday
12	2020-06-06 22:08:00	Pardon My Take	Dana White, Booger McFarland And Sour Grapes D...	Pardon My Take: Dana White, Booger McFarland A...	739802		12.33	...	2 2020-23	2020-06	21	5 Saturday
14	2020-06-07 04:26:00	Pardon My Take	Dana White, Booger McFarland And Sour Grapes D...	Pardon My Take: Dana White, Booger McFarland A...	487		0.01	...	4 2020-23	2020-06	23	5 Saturday
19	2020-06-07 21:29:00	Pardon My Take	Dana White, Booger McFarland And Sour Grapes D...	Pardon My Take: Dana White, Booger McFarland A...	726343		12.11	...	21 2020-23	2020-06	16	6 Sunday

5 rows x 13 columns



```
Out [33]:
```

minutesPlayed	
Day of Week (Name) - Adjusted	
Monday	4,036.01
Tuesday	2,920.31
Wednesday	3,037.34
Thursday	2,860.12
Friday	2,742.98
Saturday	1,708.73
Sunday	2,362.74

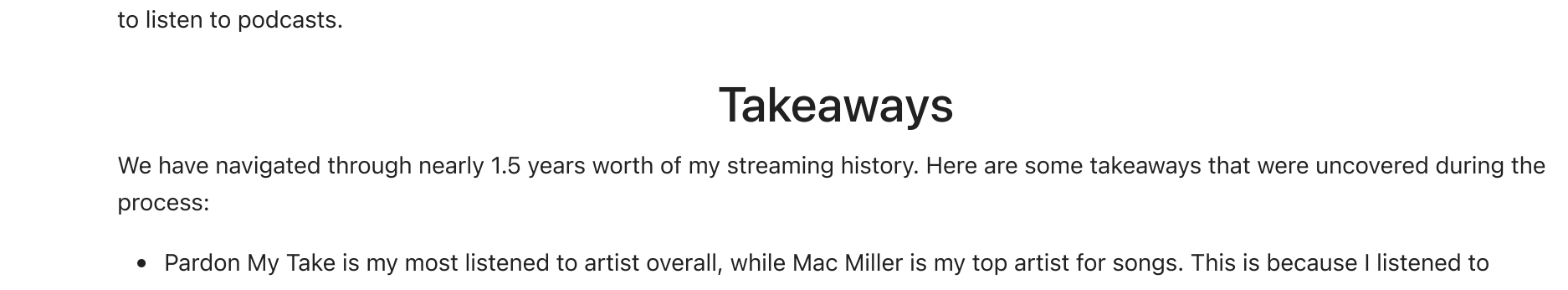


We can see in the above table and bar chart that I most often listen to podcasts on Monday, Tuesday, Wednesday, Thursday, and Friday have a similar number of minutes listened to per day, while Saturday and Sunday once again have the fewest number of minutes played.

As mentioned in the day of week chart for songs and podcast data, I was normally working, studying, or exercising during the week, all of which are activities during which I listen to podcasts. Monday is the day during which I normally work the latest and exercise for the longest, so the large number of minutes played relative to the other weekdays is expected. One other reason why Monday might have such a relatively large volume of minutes played besides the reasons mentioned above is that the length of episodes released on Mondays are typically longer than those released on Wednesdays and Fridays.

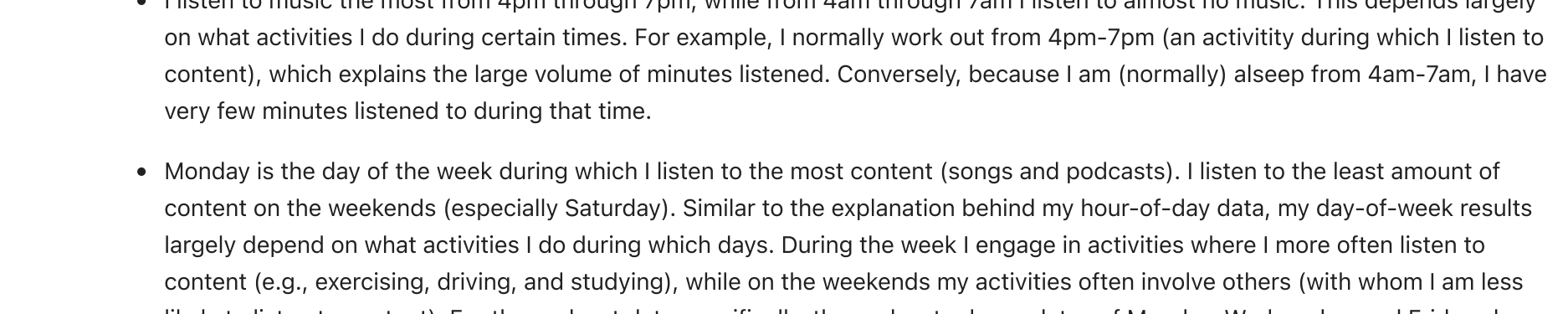
It is important to note that new podcasts for Pardon My Take are typically released every Monday, Wednesday, and Friday morning.

### How many minutes per month did I spend listening to songs vs. podcasts?



```
Out [35]:
```

minutesPlayed	
Year + Month	
2020-06	744.38
2020-07	939.85
2020-08	1,194.13
2020-09	1,170.21
2020-10	1,259.0



```
Out [36]:
```

minutesPlayed	
Year + Month	
2020-06	2,072.44
2020-07	2,772.55
2020-08	2,863.55
2020-09	2,976.49
2020-10	1,567.96



```
Out [37]:
```

minutesPlayed	
count	17.0
mean	1,419.07
std	785.67
min	85.68
25%	996.16
50%	1,328.06
75%	1,806.28
max	3,017.04



As we can see from the above lineplots and table, I listen to music more often than podcasts per month. The difference in minutes listened between songs and podcast varies greatly from month to month—October 2021 only saw a difference of 85 minutes, while June 2021 saw a large difference of 3,017 minutes. The average difference between minutes listening to songs vs. minutes listening to podcasts is 1,419 minutes.

The large average gap between songs and podcast minutes is in line with expectations. Podcasts have a ceiling of how many minutes I can listen to, because once I finish the most recent episode, I have no new content to listen to. I will never run out of songs to listen to, on the other hand. The major factor is simply content preference—I am more often in the mood to listen to music than I am to listen to podcasts.

## Takeaways

We have navigated through nearly 1.5 years worth of my streaming history. Here are some takeaways that were uncovered during the process:

- Pardon My Take is my most listened to artist overall, while Mac Miller is my top artist for songs. This is because I listened to Pardon My Take for hours every week and because Mac Miller is my favorite musician.
- My top song was Dang! (feat. Anderson .Paak) by Mac Miller. While this is one of my favorite songs, I am also designing a video game level using this song, which would account for some of its plays.
- I listened to 63,352 minutes of content over 517 days for an average number of 123 minutes listened to per day. The daily number of minutes listened to depends on factors such as if I have been exposed to new music/podcast episodes and what activities I'm doing on that day (e.g., exercising, driving, studying, etc.).
- When excluding podcast plays and listens under 1 minute, the average length of my songs are 3.36 minutes long.
- I listen to music the most from 4pm through 7pm, while from 4am through 7am I listen to almost no music. This depends largely on what activities I do during certain times. For example, I normally work out from 4pm-7pm (an activity during which I listen to content), which explains the large volume of minutes listened. Conversely, because I am (normally) asleep from 4am-7am, I have very few minutes listened to during that time.
- Monday is the day of the week during which I listen to the most content (songs and podcasts). I listen to the least amount of content on the weekends (especially Saturday). Similar to the explanation behind my hour-of-day data, my day-of-week results largely depend on what activities I do during which days. During the week I engage in activities where I more often listen to content (e.g., exercising, driving, and studying), while on the weekends my activities often involve others (with whom I am less likely to listen to content). For the podcast data specifically, the podcast release dates of Monday, Wednesday, and Friday also impact the days on which I listen to episodes.
- The month during which I listened to the most music was May 2021, and the month during which I listened to the least music was October 2020. While likely less affected by weekly activities such as exercise and working, the minutes played per month could change depending on when I am introduced to new music (which would cause me to listen to more music than normal).
- I listen to songs more often than podcasts (an average difference of 1,419 minutes per month). This is most likely because there are only a finite number of new podcast episodes to which I can listen, but there is an unlimited number of songs to which I can listen.

Thank you for reading this analysis. I hope you enjoyed it!