An Analysis of the Next Generation of Home

Video Game Consoles

10392665, 10684078, 10557474

Xbox Series X vs Playstation 5



Our Aims

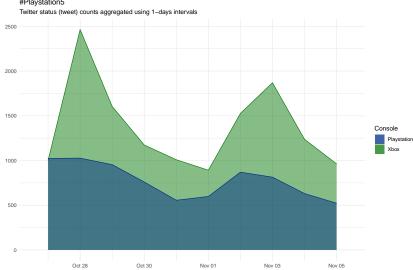
- Which console is going to have the more successful launch and the highest sales?
- ▶ What are the key factors that are going to influence a console purchase?
- ▶ What changes can we recommend to Sony/Microsoft to increase their respective shares of the market?

Background

- ► Home console market is a \$34 billion industry and is expected to grow to ~ \$52 billion by 2027.
- Microsoft and Sony have been engaged in direct competition since 2001.
- ▶ Differences between the platforms in previous generations have been large.
- Differences between the platforms in the newest generation have been minimised and services offered have been largely homogenized.

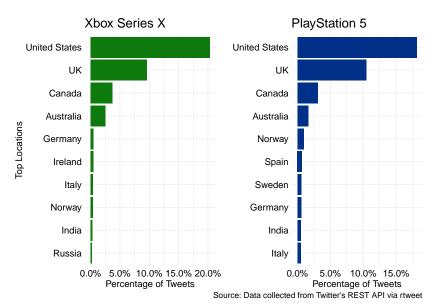
Frequency of Tweets Containing #XboxSeriesX and #Playstation5

Frequency of Tweets From #XboxSeriesX and #Playstation5



Source: Data collected from Twitter's REST API via rtweet

Tweets by Top 10 Locations



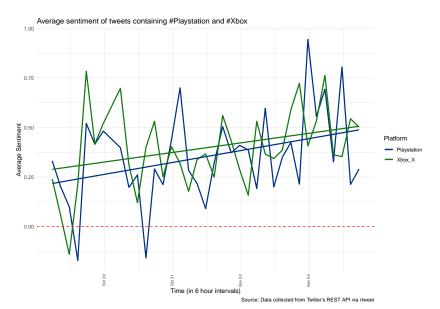
Sentiment Analysis of Tweets Containing #XboxSeriesX and #Playstation5

Table 1: Average Sentiments

Platform	Average Sentiment
Playstation	0.3542274
Xbox_X	0.4426994

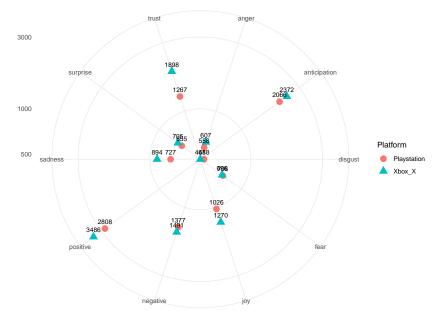
The p.value for significant difference between Xbox and Playstation sentiment is: 0.0023723

Sentiment Over Time



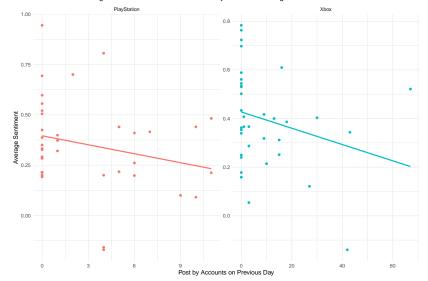
Emotional Sentiment

Assigns the sentiments of each tweet to an emotion



Correlation Between Marketing and Sentiment





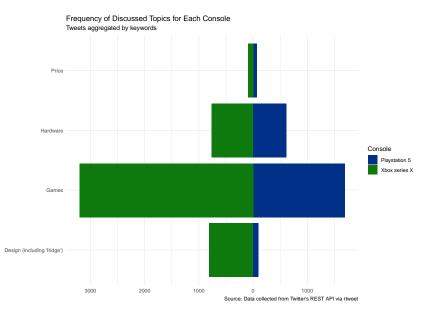
Wordcloud: #XboxSeriesX



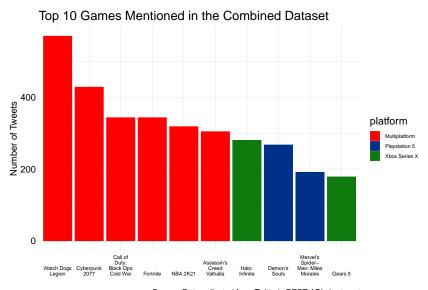
Wordcloud: Playstation 5



Volume of Tweets Containing Topic Keywords

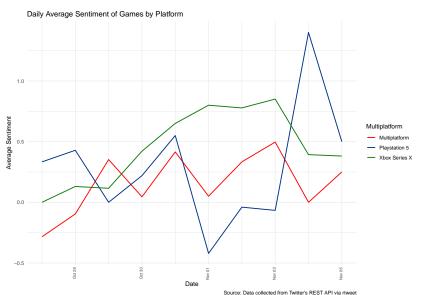


Most Discussed Games Within Tweet Data



Source: Data collected from Twitter's REST API via rtweet

Game Sentiment by Platform



Games With Significant Difference in Average Sentiment

	p.adj
game.Cyberpunk 2077-Assassin's Creed Valhalla	0.0000068
game.Cyberpunk 2077-Call of Duty: Black Ops Cold War	0.0149662
game.Gears 5-Call of Duty: Black Ops Cold War	0.0092674
game.Fortnite-Cyberpunk 2077	0.0000002
game.Gears 5-Cyberpunk 2077	0.0000000
game.Halo: Infinite-Cyberpunk 2077	0.0000011
game.Marvel's Spider-Man: Miles Morales-Cyberpunk 2077	0.0000600
game.NBA 2K21-Cyberpunk 2077	0.0019925
game.Watch Dogs Legion-Cyberpunk 2077	0.0000000
game.Gears 5-Demon's Souls	0.0017241

Conclusions

- Our data suggests that Xbox is likely to have a more successful launch.
- Games will have the largest influence on the success of the console this generation over other factors that dominated discussion in previous generations.
- Sony must keep pace with Microsoft in offering enticing exclusive intellectual properties and would possibly benefit from supplying them in a similar manner to the Xbox Game Pass.
- Both companies may benefit from changing their marketing practices and improving the consistency of their social media presence.

Limitations

- Our dataset is dedicated to English language posts on a western platform.
- ► Lack of Geodata in our tweets limits our ability to identify markets and develop more specific insights.
- Our marketing-sentiment correlation model could be improved and produce more informative results if we introduced more variables.
- Sentiment seems to be highly affected by intersecting topics such as game releases and delays.
- Launch success will likely be influenced by supply chain issues stemming from the global pandemic which is not accounted for in our analysis.

References

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