

Topic



Gaming and Streaming Industry

- Video games sales in N.A. and in the world
- → Twitch
- Relationship between two industries







Questions

Hypothesis

Both positive ratings and high viewer/streamer count on Twitch have a positive effect on game sales

Is there any information in our datasets that affects game sales regionally and globally?









- Contains name, genre, platform, sales in millions, etc.
- o From 1980 to 2020
- Top Games on Twitch Data
 - Top 200 Games on Twitch
 - Contains viewer number and channel numbers, etc.
 - o From 2016 to 2021



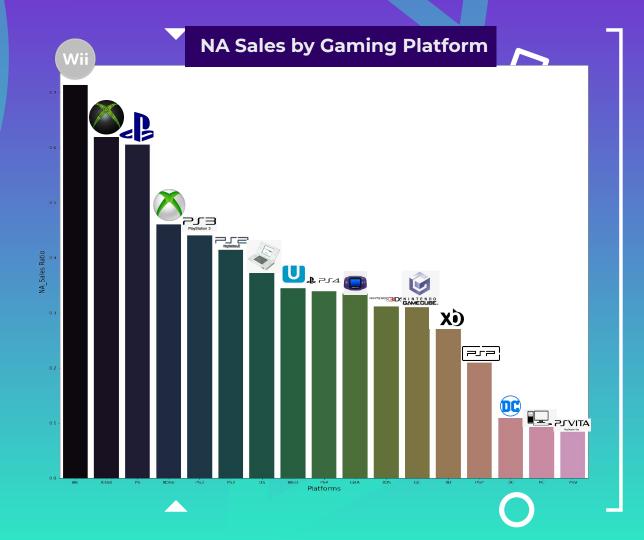




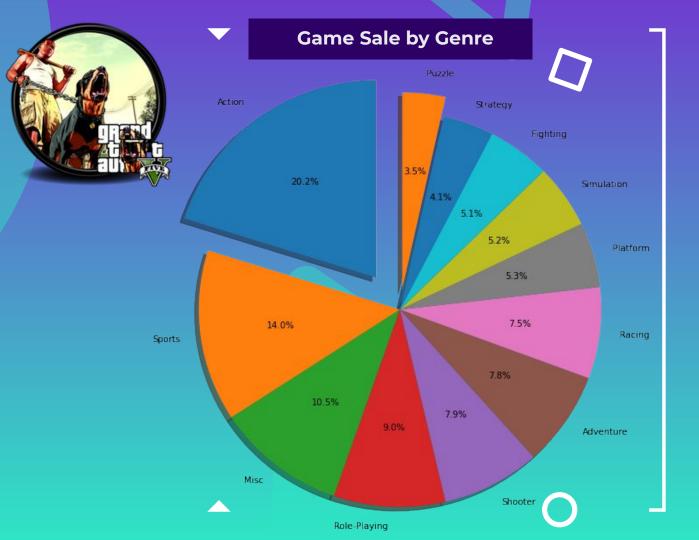


Video Game Sales Dataset

Most Popular Platform



Most Popular Genre



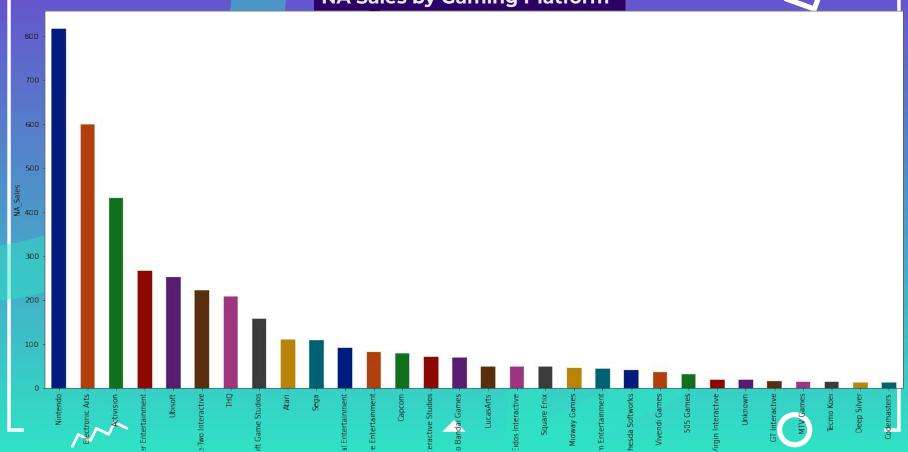
Most Popular Game

Over 82 million units sold globally!!!

Wii Sports



MA Sales by Gaming Platform

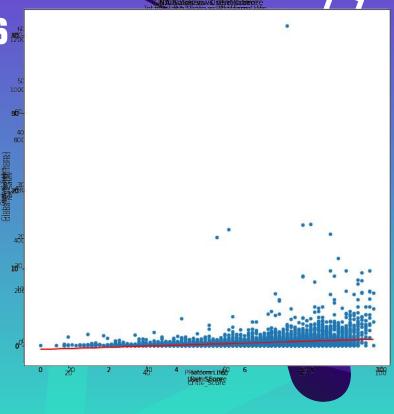


Finding Correlations.



Critics Rating vs Sales

Platform life vs Sales







Low Correlation between sales and rating and platform life

Potential Reasons



There are many other aspects that impact the Gaming industry, so one factor cannot dictate sales



Reviews are often subjective

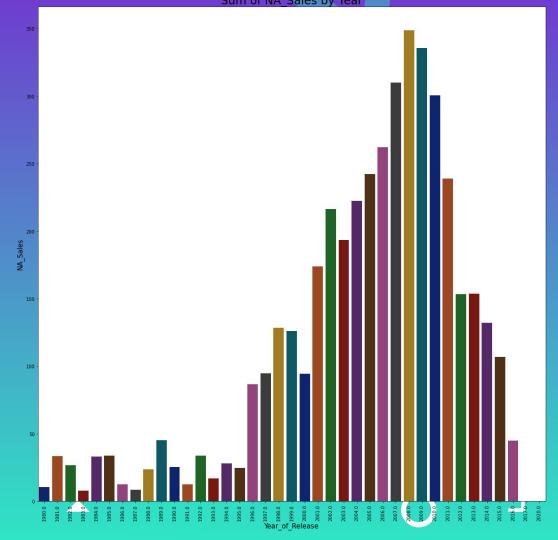
	NA_Sales	Global_Sales	NA_Percentage
Genre			
Shooter	584.83	1041.83	56.13%
Platform	444.44	825.86	53.82%
Sports	671.20	1310.39	51.22%
Puzzle	121.13	240.33	50.40%
Misc	394.01	783.19	50.31%
Action	863.17	1717.62	50.25%
Fighting	220.51	442.63	49.82%
Racing	356.86	723.69	49.31%
Simulation	180.67	388.22	46.54%
Adventure	101.39	233.25	43.47%
Strategy	67.69	172.69	39.20%
Role-Playing	330.04	930.90	35.45%



Discovery

Sales peaked in 2008

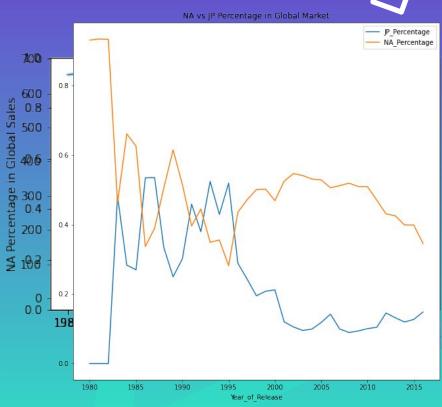
Decline after 2008



Discovery

Strong correlation between NA Sales and Global Sales

NA Percentage vs JP
Percentage in the gaming
market





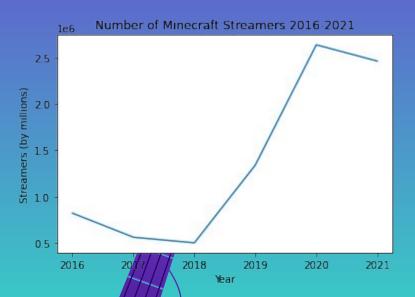


Background Information

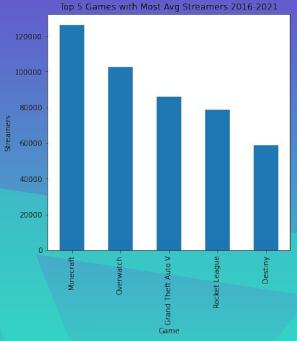
- Live streaming service
 - Focus on video games
- Bought by Amazon in 2014 for \$970 million
- Peak Statistics:
 - o 6,500,000+ viewers
 - 200,000+ active channels



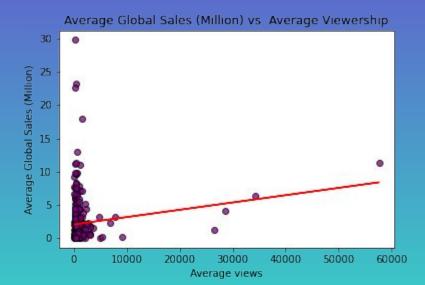
Twitch





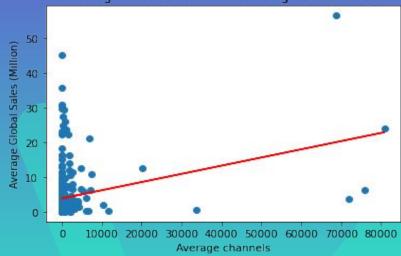


Correlation









R value ≈ 0.28 (•_•

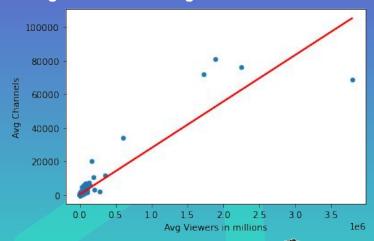






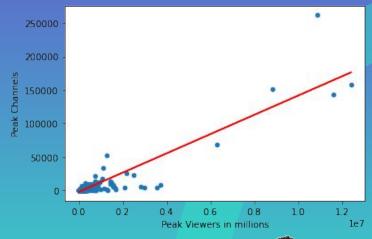
Strong Correlation Between Number of Channels of and Views

Avg. Channels vs Avg. Viewers (Millions)



R-value: 0.92

Peak Channels vs Peak Viewers (Millions)



R-value: 0.91

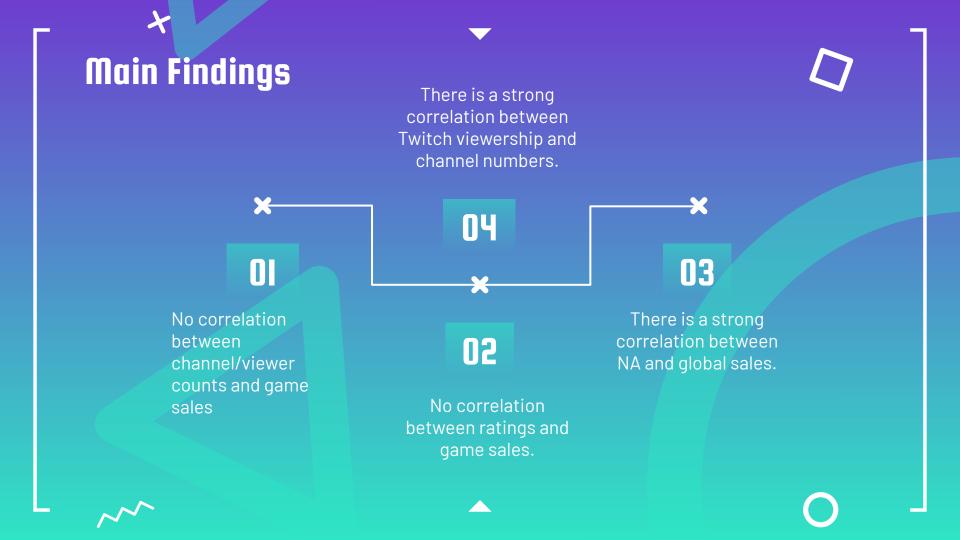




Strong Correlation Between Number of Channels (and Views (Cont.)

Possible Reasons:

- More channels for one game could imply:
 - Higher output and demand
 - More accumulated viewers
- High views and channel counts do not mean these the streams and streamers are promoted
 - Twitch's algorithm promotes streams and channels based on personal preference



Limitations



Given project time



Outdated timeframe on Game Sale dataset



Twitch's API is only for integrating streams into applications and web-pages but not for statistics about the service







Useful Resources for Further Investigation

https://gamasutra.com/

https://www.pricecharting.com/a pi-documentation

For additional Gaming data!

https://dev.twitch.tv/docs/api/

For additional Twitch data!



Thank you!

Kaggle, Anthony & Mark, & the whole cohort!

