

# Video Game Trends

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#### Video Game Facts

- The Video Game Industry contributed \$11.7 billion in value to the US GDP in 2016
- Employed 65,678 Americans
- \$30.4 billion in consumer spending in 2016
- 67% of US Households own a device to play video games
- 1.7 Gamers in each game-playing household
- The average gamer age is 35 years old



#### Who are the clients?

- **Development Studios**
- **Publishers**
- Hardware and Software companies















GAMES









#### The Problem:

- Competitive Release Dates that will generate the most sales based on genre and platform.
- What metacritic score development studios should aim for when creating favorable in-game features that will get higher reviews.

### The Solution

- Optimal Video Game Release Dates
- Realistic Metacritic Scores
- Genre and Platform Trends
- Global and Regional Sale Trends



# Data Wrangling

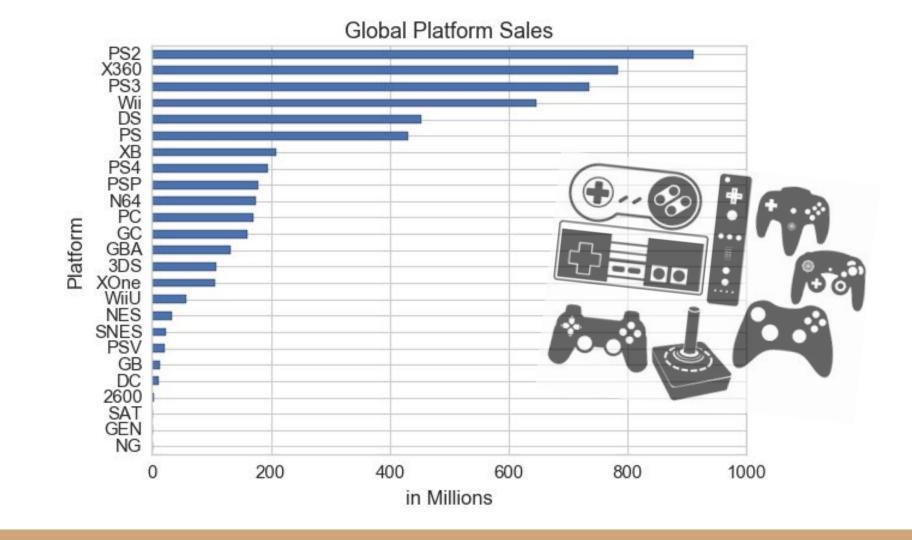
#### **Dataset 1 from IGN**

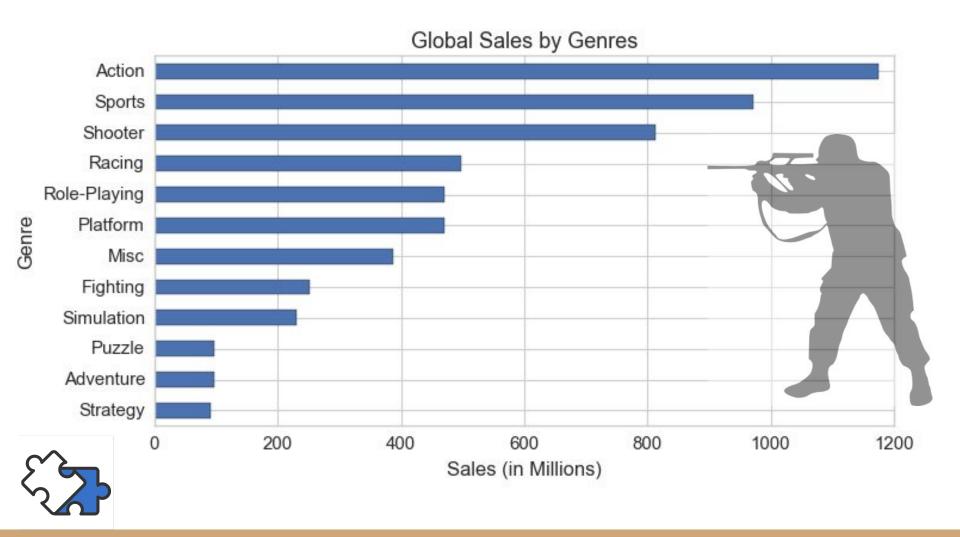
- Name
- Platform
- Score/Score Phrase
- Editor's Choice
- Release Date
- URL

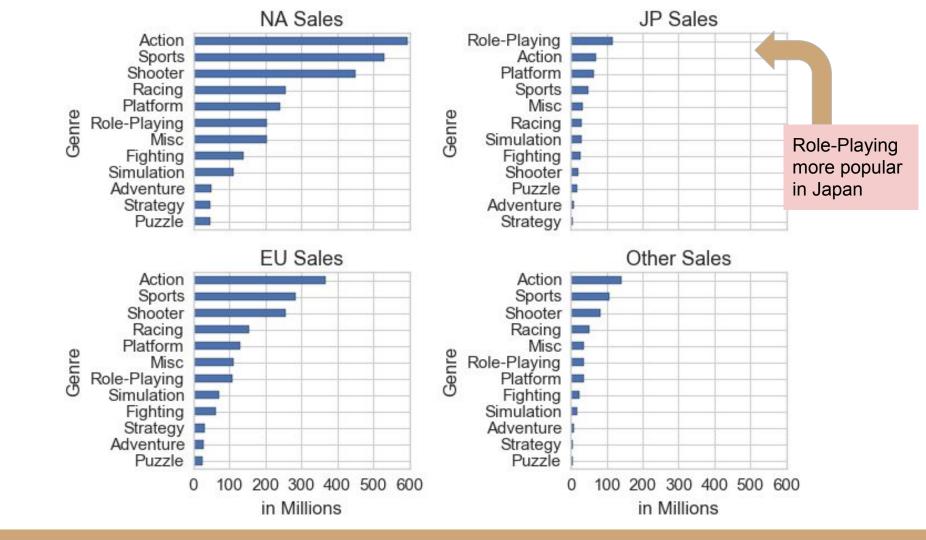
Merged the two datasets on Name and Platform column to create a dataset with all the information

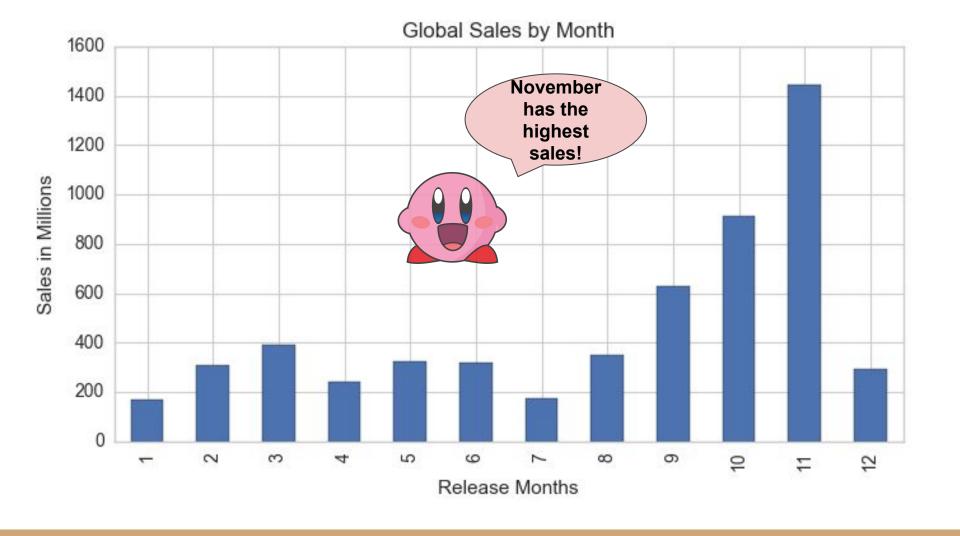
#### **Dataset 2 from VG**

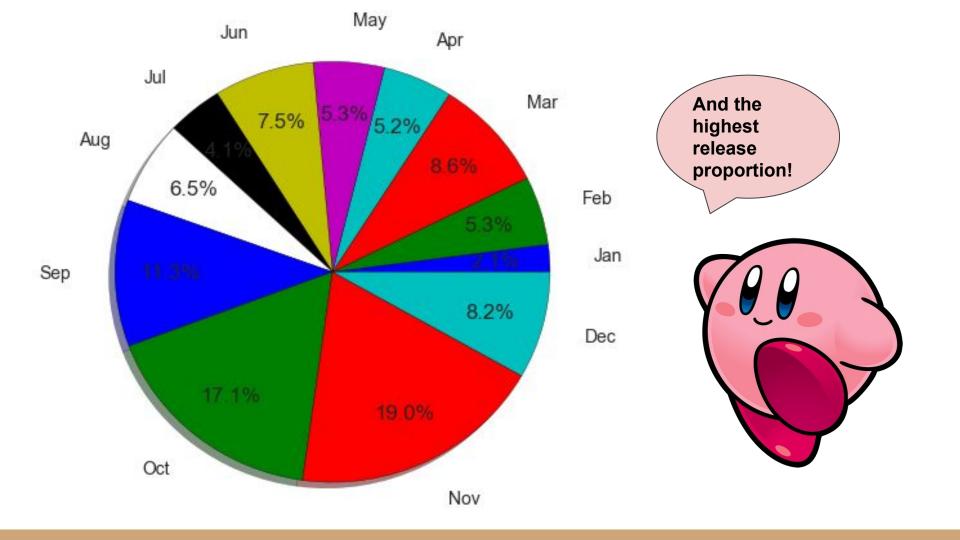
- Name
- Platform
- Release Year
- Genre
- Publisher
- Sales Information
- Critic Score
- Critic Count
- User Score
- User Count
- Rating

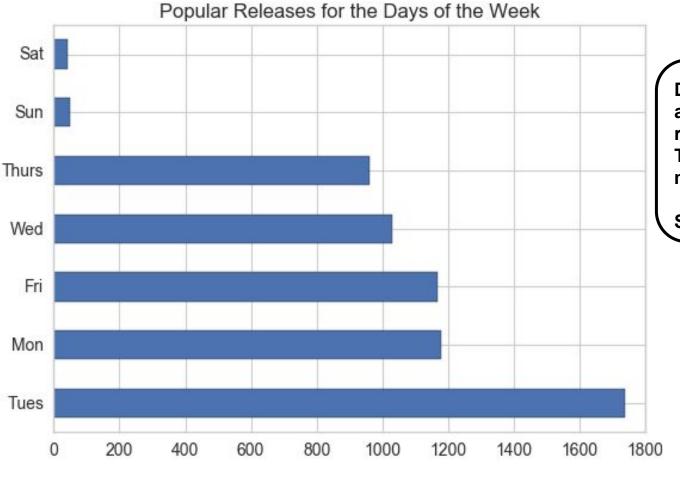












Did you know that it's an industry standard to release games on a Tuesday because of me?!

Sonic "2sDay"!



#### Recommendation

- Action, Shooter, and Sports are the most popular genres. Try to make a game within these categories!
- November is the best month to release a game
- Tuesday is the best day of the week and avoid weekends at all cost



#### Harsh Metacritic Scores?

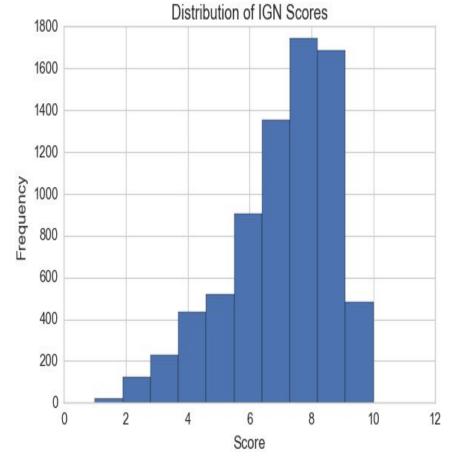
Distribution of Scores

Finding Realistic Score

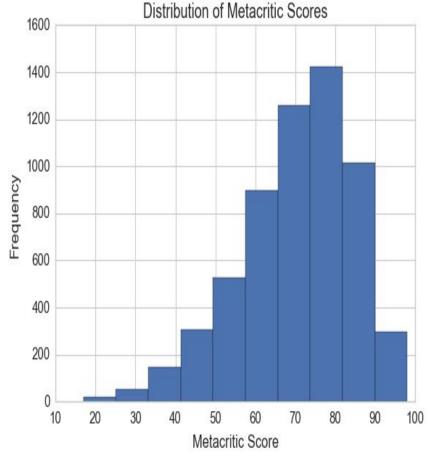
Correlation between Sales and Scores

The distribution of IGN and Metacritic scores were investigated and both are left-skewed.

Using the One-Sample t-test to evaluate if a metacritic score of 90 is what developers should be aiming for By using Linear Regression to analyze the relationship between the two variables.



Average IGN score given is 7.011±717



Average Metacritic score given 70.17±13.90

### Realistic Score

- Metacritic on average, gives a score 70.17±13.90
- 56.27 or lower is an unfavorable score
- 84.07 or higher is considered favorable.

Very different than their scale



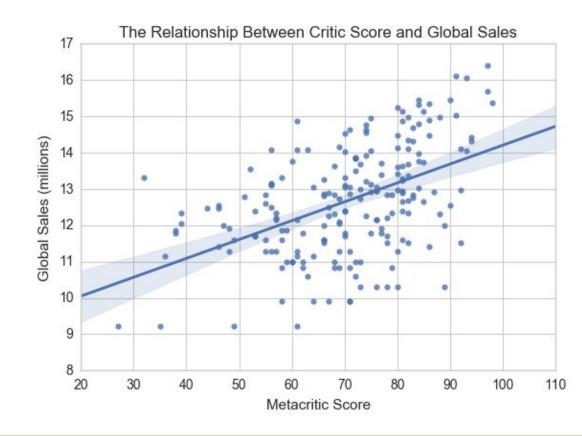
#### Metacritic's Actual Scale

General Meaning of Score	Movies, TV & Music	Games
Universal Acclaim	81 - 100	90 - 100
Generally Favorable Reviews	61 - 80	75 - 89
Mixed or Average Reviews	40 - 60	50 - 74
Generally Unfavorable Reviews	20 - 39	20 - 49
Overwhelming Dislike	0 - 19	0 - 19

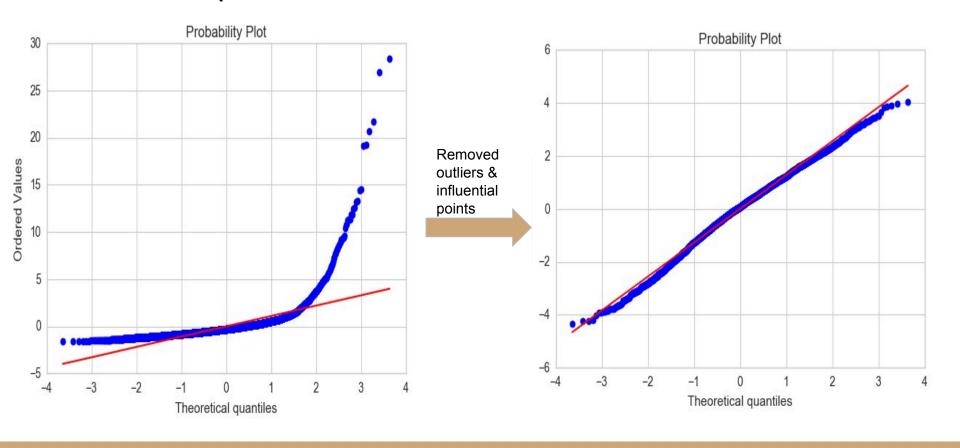
## Relationship Between Metacritic Scores & Global Sales

In(Global Sales) = 0.0408 \* Metacritic Score + 9.7340

- 16.4% of the global sales of a particular video game can be explained by the critic score
- 4.15% increase in global sales for every one unit increase of the Metacritic score

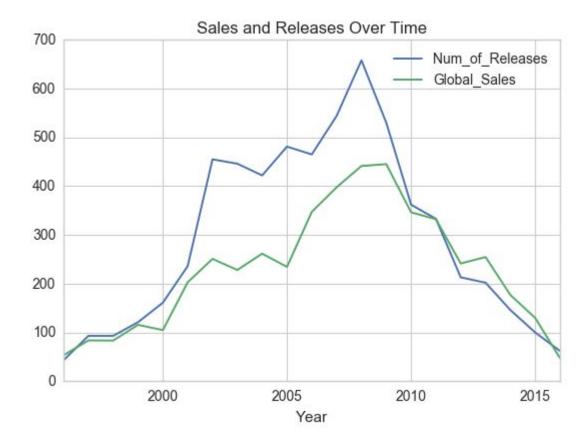


# Relationship Between Metacritic Scores & Global Sales



# More Releases, More Sales?

- 72.6% of the global sales can be explained by the number of releases of that year
- If the number of games released per year increased then the global sales will also increase by 0.31% million dollars for that respected year.



### Conclusion

- Try to release a game in November and on a Tuesday
  - If not, September November is also good
  - Monday is good too
  - Avoid Weekends
- Release Game on Playstation, Xbox, and PC for the most sales
- Make a Action, Shooter, or Sports game
- Try to get a critic score of 84.07 or higher to be considered favorable
  - For every increased unit of a critic score, there is a 4.15% increase in potential global sales
- Publishers should try to release more games, where for every 100 releases, there's an 0.31% increase in global sales.

