

Finding the Next Big Video Game Movie

By
Antonio Hila
Gabe Arnold



WHICH GAMES COULD BECOME PROFITABLE MOVIES?

We investigated Xbox One games in order to find the best games to turn into movies.

DATA SOURCES

- Metacritic
- Gamespot API
- VGChartz
- Wikipedia

HYPOTHESIS

The games which generate the highest user engagement will be the best games to make a live action film transition. User and critic scores should also provide insight on which movies to make.

WHICH GAMES WOULD MAKE GOOD MOVIES?

Criteria for best selling games

- High User Review Count
- High Metacritic Score
- Popular Genre
- Popular Content Rating

Qualifying Candidates:

Red Dead Redemption 2	Titanfall
Fallout 4	Witcher 3
Metal Gear Solid V	Rise of The Tomb Raider
Halo Master Chief Collection	Grand Theft Auto V

(Top three highlighted above)

OUR PROCESS

DATA COLLECTION

- Web Scraping --> Metacritic data
- API's --> Gamespot data
- HTML data --> Wikipedia and VGchartz

DATA CLEANSE

- Updated Release Year
- Dropped unnecessary columns
- Formatted game titles

EDA & VISUALIZATIONS

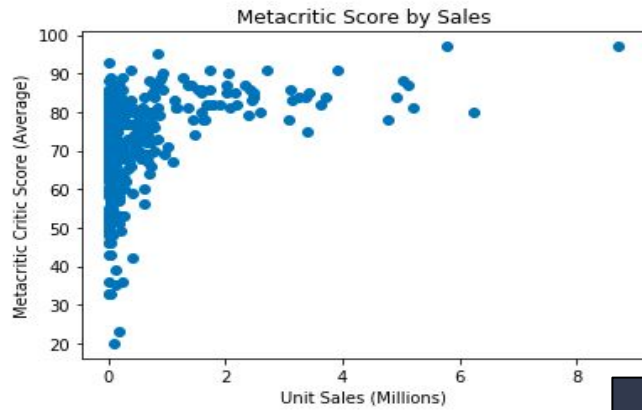
- Bar charts and scatter plots
- Correlations

DATA SOURCES

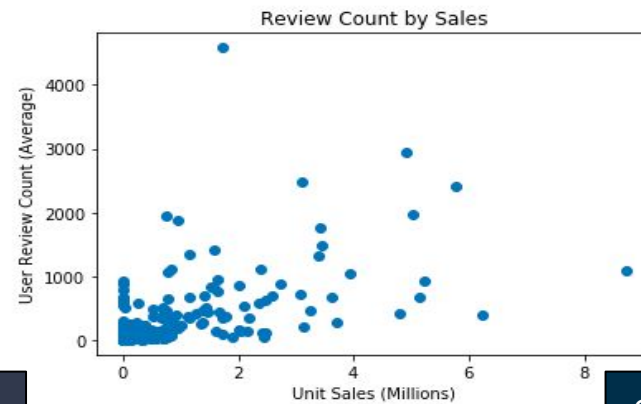
VARIABLES OF INTEREST

- Genre
- Global Sales
- User Reviews
- Critic Reviews
- Content Rating
- User Review Count

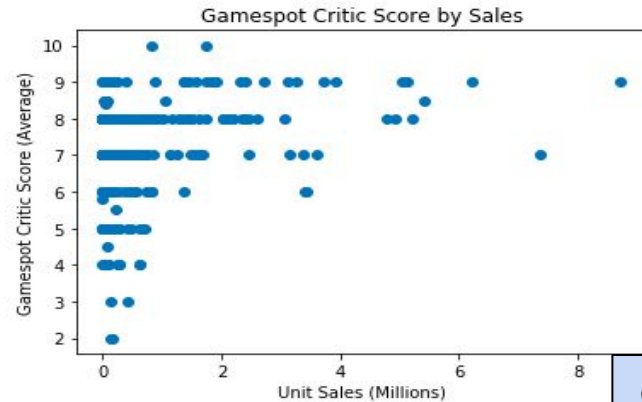
Data Source	Count of Games
Metacritic (Critic, User Reviews, Genre)	1505
Gamespot (Critic Reviews)	732
VGChartz (Game Global Sales)	613



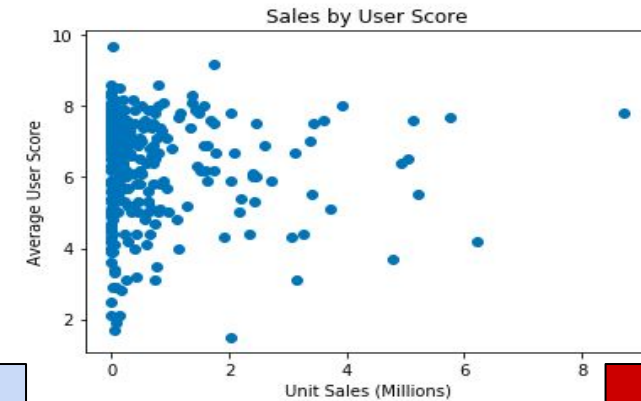
Correlation: .399



Correlation: .579



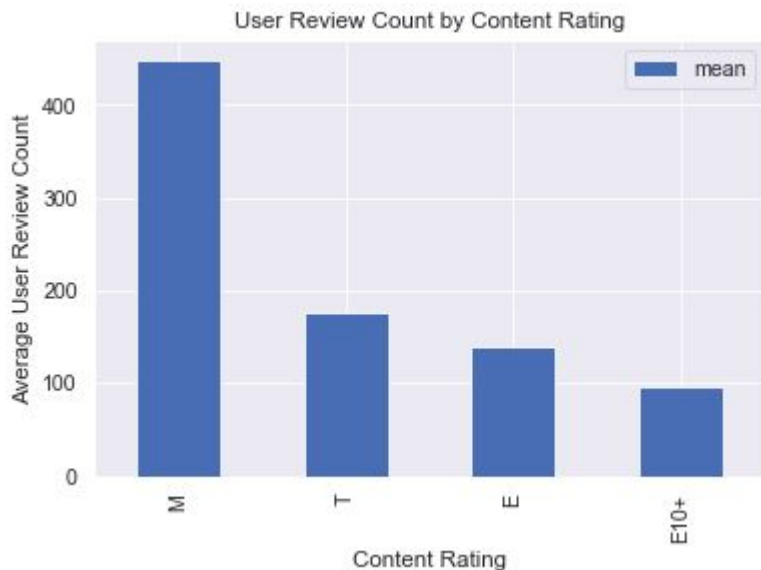
Correlation: .298



Correlation: - .055

- As per our prediction the Review count had the largest correlation to the sales
- Metacritic had the highest correlation in terms of review score

DIVING INTO THE RESULTS



*Mature Content attracts large amounts of people

Top 5 Genres	Count of Genres
Action/Adventure	14
Open-World	3
Racing	3
RPG	3
Sci-Fi	1

*Sports games not included

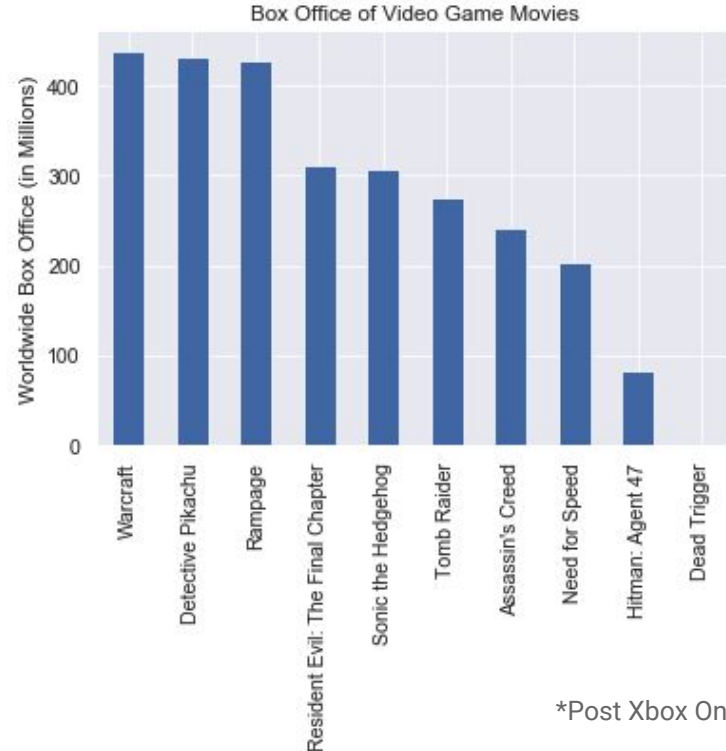
REAL WORLD APPLICATION

Based on the data Mature Rated, action games both sale well and generate a lot of user of reviews.

High user engagement paired with the fact that video game movies generally do well financially.

So using our 4 main categories and narrowing the search to the top 2 percentile of user review count we recommend these 3

- ★ **Fallout 4**
- ★ **Titanfall**
- ★ **Red Dead Redemption 2**



*Post Xbox One release