

What Makes a Video Game Great?

Genre and Rating Disparities in User Reviews



By: Eden Nuhamovici

Community Tech - Data Sciences, Toronto, Canada

Email: enuhamovici@gmail.com

Background

- Video games belonging to more niche genres often have polarized views even if they are critically acclaimed.
- IMDb collects video game ratings from the public in a collaborative manner.
- It can be argued that IMDb ratings can influence the purchase of a given video game (among other factors).







Objectives

- An IMDb rating for a video game ranges from 0.0 to 10.0.
- I am interested in understanding the deeper context behind how a game is given it's rating.
- For example:
 - A game that is rated 10.0 may be niche with only a few ratings. This can lead to inflated scores that do not reflect broad opinion.
 - A lower rated game, for example, 8.5 with many ratings may be more reliable.



	HIGHEST RATED VIDEO GAMES RELE	ASED	AFTER 2	010
	GOD OF WAR (2018)	7	9.9	
	THE LAST OF US		9.8	
THE TOP	THE WITCHER 3: WILD HUNT		9.8	ORCE
**	THE WITCHER 3: BLOOD & WINE		9.8	
mentons and the state of the st	GRAND THEFT AUTO V		9.7	
	UNCHARTED 4: A THIEF'S END		9.6	
	MASS EFFECT 2		9.6	Top.
Sky IIdus	THE WITCHER 3: HEARTS OF STONE		9.6	
	THE ELDER SCROLLS V: SKYRIM		9.5	Para S
	RED DEAD REDEMPTION		9.5	
	TOP 10 WISE. COM			

Problem Statement

- What is the relationship between game rating and genre?
- Ratings alone are often insufficient as they often lack context for why they are given a specific score.
- Users can give very biased scores from recent release days excitement or personal opinion.
- Games can be purposely review chain-bombed by malicious users therefore, giving it a bad score and subsequently a bad view to the unknowing public.





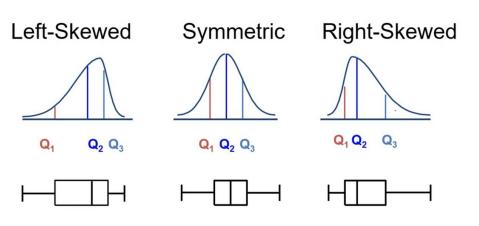
People are now Review Bombing Cyberpunk cause it won Labor of Love $\widehat{\ensuremath{\wp}}$



2000

Methodology

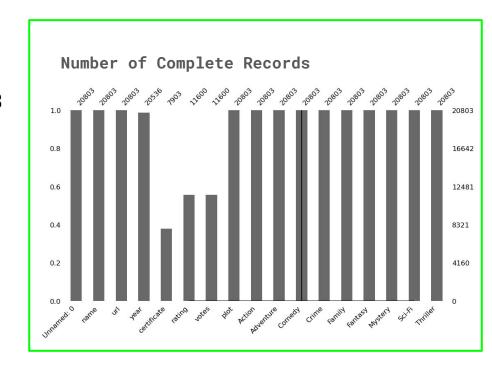
- I will look at game ratings using quartiles to understand how games are scored across genres.
- Segment data by genre to be able to spot differences in how games are rated.
- This will reduce the impact of outliers and skewed data by focusing on quartile distribution.





Data Preparation

- The dataset was sourced from Kaggle.
- The raw data contained 20,803 records.
- After removing games which had missing ratings (as imputation wasn't possible), the final dataset used consists of 11600 records.





Dashboard

