Analysis on Top 1000 TV shows

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Dataset: we obtained the dataset of the 1000 popularity rated TV shows through web scraping using Beautiful soup.

Key Features:
- Rating
- Votes
- Certificate
- Genre

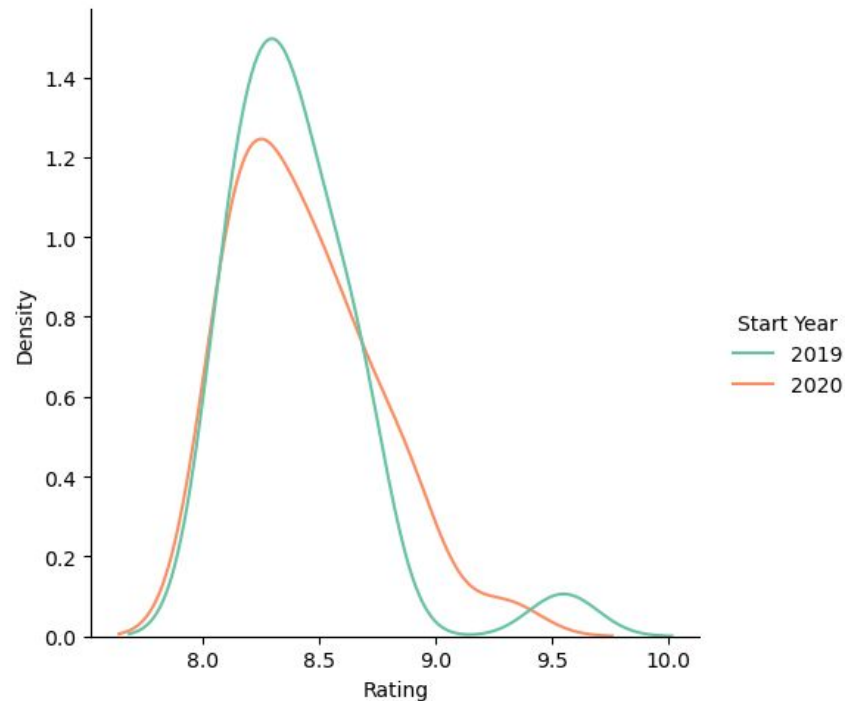|	Rank	Title	Start Year	End Year	Rating	Votes	Genre	Certificate	Primary Genre	Maturity
0	1	Call Me Kevin	2016	0	9.8	1790	Comedy	Not Found	Comedy	None
1	2	Minecraft Epic	2019	0	9.6	3968	Action, Adventure, Comedy	TV-MA	Action	Adult
2	3	Coke Studio	2008	0	9.6	1244	Music	Approved	Music	Non-Adult
3	4	Breaking Bad	2008	2013	9.5	1921732	Crime, Drama, Thriller	TV-MA	Crime	Adult
4	5	Bluey	2018	0	9.5	12891	Animation, Family	TV-Y	Animation	Non-Adult
...	...	...	...	...	...	...	...	...	...	...
995	995	Our Great National Parks	2022	2022	8.1	2384	Documentary	TV-PG	Documentary	Non-Adult
996	996	Chef!	1993	1996	8.1	1437	Comedy	TV-MA	Comedy	Adult
997	997	Da Vinci's Inquest	1998	2006	8.1	1228	Crime, Mystery, Drama	Not Found	Crime	None
998	998	Day Break	2006	2007	8.1	8252	Action, Drama, Sci-Fi	TV-14	Action	Non-Adult
999	999	The Abbott and Costello Show	1952	1957	8.1	1252	Comedy, Family, Mystery	TV-G	Comedy	Non-Adult

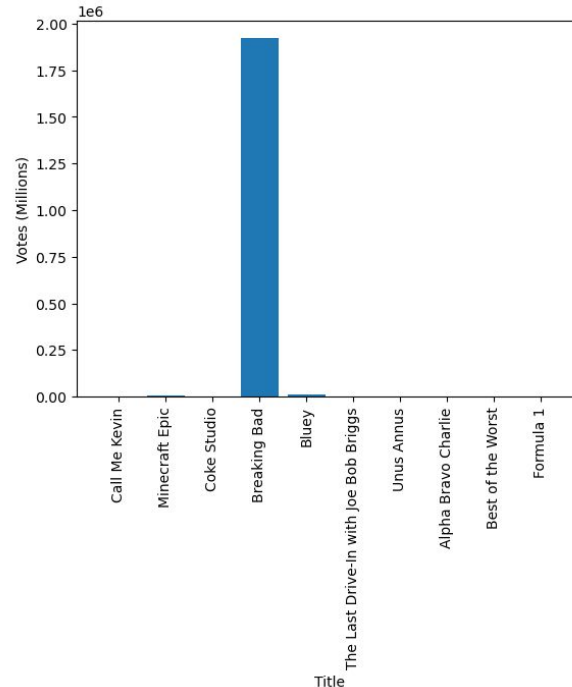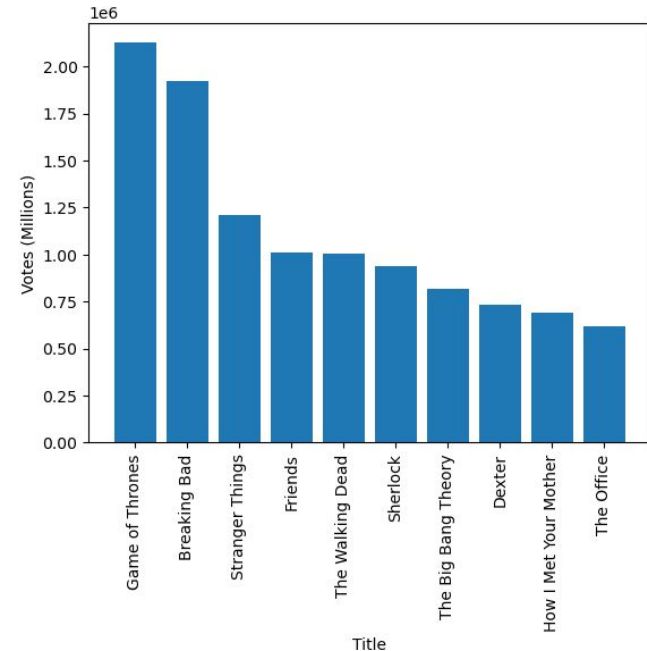# A Pandemic's Impact

Average user ratings:

- TV shows created in 2019 vs 2020
- No support for a difference
- T-static: -0.71, P-value:-0.47

Results:

The analysis found that there was no evidence to support the claim that the quality of television produced during the COVID-19 pandemic was negatively impacted.

IMDB's flaws

Real World vs Reported:

- Millions more like Game of Thrones than Call me Kevin
- The intersection is Breaking Bad

Results: Our analysis revealed that, out of the top 10 TV shows by user rating, only Breaking Bad had more than 4000 votes. This suggests that many of the other highly-rated shows have smaller, dedicated fan bases that highly praise them. Our findings also suggest that user ratings may be a better indicator of quality than popularity alone.
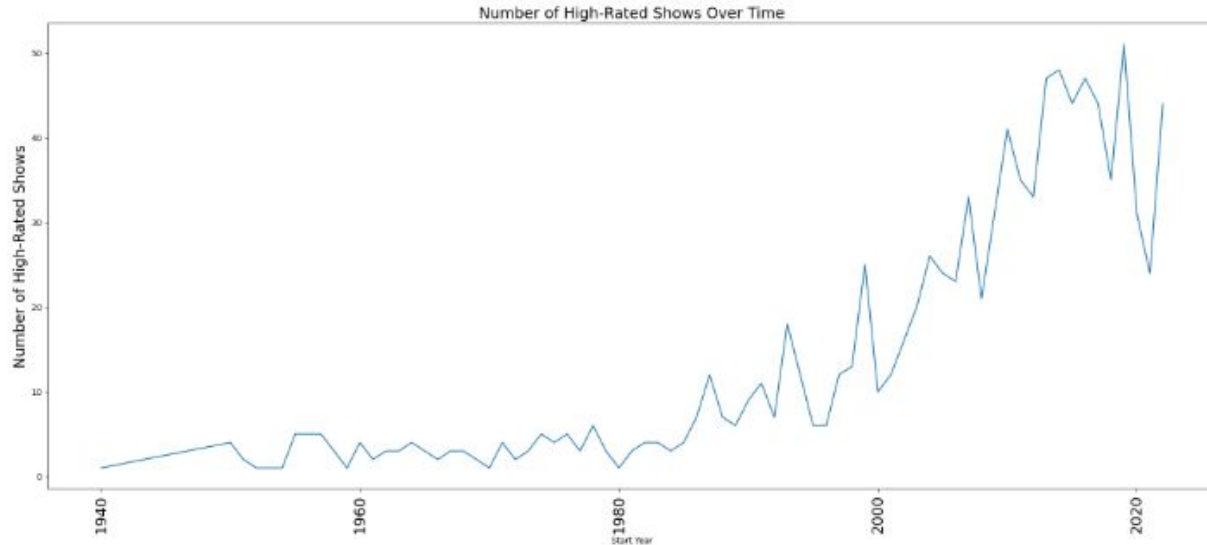
Rising Popularity

As time goes on, more highly rated TV shows are started
- Increased number of all TV shows (including bad ones)
- Increased funding
- Increased access to TV

Results:

There are more and more top 1000 TV shows as time goes on, suggests a growth in the TV industry and an increased audience interest in contemporary programming.
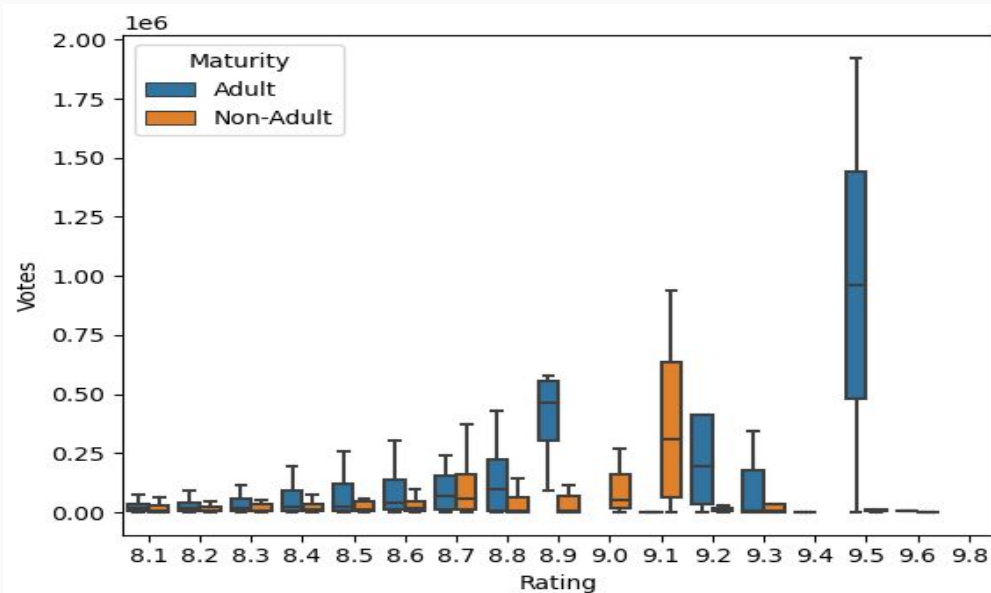

Number of High-Rated Shows Over Time

Adult content (By Certificate)

Highly rated adult shows are more likely to receive more votes
- Assumed un- and not-rated TV shows had adult content
- <13 yr olds can't vote on IMDB

Results:
By looking at the distribution of each rating level based on the presence of adult content, it shows that adult-oriented shows tend to be more popular than their kid-friendly counterparts across nearly all rating levels.

Conclusion

- providing valuable insights into the top 1000 TV shows of all time.

- increase of the number of highly rated films as time progresses.

- Many of the best-rated shows have relatively few votes compared to more popular but lower-rated shows.