

# MyAnimeList Tableau Visualization

Jonathan Kang

Source: MyAnimeList  
<https://myanimelist.net/>

















# Introduction

With Anime gaining more popularity among the Western community since COVID, I began wondering what are some of the characteristics of the current most popular shows and are there any interesting trends that are showing.

To analyze this information, I have scraped data from [MyAnimeList](#) using *BeautifulSoup*, obtaining **the top 1000 anime shows by popularity and by rating** (we will primarily focus on popularity). Data is gathered on March 9.

*Pandas* were then used to clean and generate new helpful calculations. Data is then finally visualized using Tableau and Seaborn.

Code for scraping and cleaning can be found on the same GitHub repository.

31	 <b>Mob Psycho 100 II</b> 	TV (12 eps) Jan 2019 - Apr 2019 1,700,200 members	8.80	N/A	<a href="#">Add to list</a>
32	 <b>Shingeki no Kyojin: The Final Season</b> 	TV (16 eps) Dec 2020 - Mar 2021 1,765,477 members	8.80	N/A	<a href="#">Add to list</a>
33	 <b>Kizumonogatari III: Reiketsu-hen</b> 	Manga (1 eps) Jan 2017 - Jan 2017 421,442 members	8.79	N/A	<a href="#">Add to list</a>
34	 <b>Sen to Chihiro no Kamikakushi</b> 	Manga (1 eps) Jul 2001 - Jul 2001 1,728,077 members	8.78	N/A	<a href="#">Add to list</a>
35	 <b>Haikyuu!! Karasuno Koukou vs. Shiratorizawa Gakuen Koukou</b> 	TV (10 eps) Apr 2016 - Dec 2016 1,101,369 members	8.78	N/A	<a href="#">Add to list</a>
36	 <b>Monogatari Series: Second Season</b> 	TV (26 eps) Jul 2013 - Dec 2013 839,879 members	8.77	N/A	<a href="#">Add to list</a>

Title	Rank	Popularity	Score	Score_Count	Members	Favorites	Type	Episodes	Status	Season	Year	Producers	Licensors	Studios	Genres	Themes
Shingeki no Kyojin	111	1	8.53	2606155.0	3666477	160638	TV	25	Finished Airing	Spring	2013	['Production I.G', 'Dentsu', 'Mainichi Broadcast...']	['Funimation']	['Wit Studio']	['Action', 'Award Winning', 'Drama', 'Suspense']	['Gore', 'Military', 'Survival']
Death Note	80	2	8.62	2569010.0	3640099	164958	TV	37	Finished Airing	Fall	2006	['VAP', 'Konami', 'Ashi Productions', 'Nippon ...']	['VIZ Media']	['Madhouse']	['Supernatural', 'Suspense']	Psychological
Fullmetal Alchemist: Brotherhood	2	3	9.11	1973141.0	3104299	214087	TV	64	Finished Airing	Spring	2009	['Aniplex', 'Square Enix', 'Mainichi Broadcast...']	['Funimation', 'Aniplex of America']	['Bones']	['Action', 'Adventure', 'Drama', 'Fantasy']	Military
One Punch Man	129	4	8.50	2087800.0	2995422	61395	TV	12	Finished Airing	Fall	2015	['TV Tokyo', 'Bandai Visual', 'Lantis', 'Asats...']	['VIZ Media']	['Madhouse']	['Action', 'Comedy']	['Adult Cast', 'Parody', 'Super Power']
Sword Art Online	3113	5	7.20	2040692.0	2904838	66325	TV	25	Finished Airing	Summer	2012	['Aniplex', 'Genco', 'DAX Production', 'ASCII ...']	['Aniplex of America']	['A-1 Pictures']	['Action', 'Adventure', 'Fantasy', 'Romance']	['Love Polygon', 'Video Game']
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Koukaku Kidoutai: Stand Alone Complex 2nd GIG	121	996	8.52	100739.0	218442	3072	TV	26	Finished Airing	Winter	2004	['Bandai Visual', 'Dentsu', 'Victor Entertainment...']	['Bandai Entertainment', 'Manga Entertainment']	['Production I.G']	['Action', 'Mystery', 'Sci-Fi']	['Adult Cast', 'Detective', 'Mecha', 'Military']
Boogiepop wa Warawanai (2019)	3687	997	7.08	65339.0	218396	792	TV	18	Finished Airing	Winter	2019	['AT-X', 'Kadokawa Media House', 'Kadokawa']	['Funimation']	['Madhouse']	['Avant Garde', 'Drama', 'Horror', 'Mystery', ...]	Psychological
Sword Art Online: Progressive Movie - Hoshi Na...	581	998	8.00	71481.0	218318	2070	Movie	1	Finished Airing	NaN	2021	['Aniplex', 'Bandai Namco Entertainment', 'Egg...']	['Aniplex of America']	['A-1 Pictures']	['Action', 'Adventure', 'Fantasy']	Video Game
Kujira no Kora wa Sajou ni Utau	3264	999	7.17	99705.0	217960	969	TV	12	Finished Airing	Fall	2017	['Bandai Visual', 'Lantis', 'Magic Capsule', ...]	['add some']	['J.C.Staff']	['Drama', 'Fantasy', 'Mystery']	Super Power
Yukaku no...												['Mainichi				Adult Cast

Snapshot of the the raw dataset scraped from MyAnimeList using Python



# TLDR Quick Summary

**Q: Any shows that were extremely popular but scored very low?**

"The Promised Neverland Season 2" and "School Days".

**Q: Outstanding genres and studios?**

The most popular genres: Action, Comedy, Romance, and Fantasy had lower ratings, while the less popular genres had higher ratings. The least rated genres were "Ecchi" and "Erotica". "Madhouse" and "Bones", followed by "Production I.G." and "Kyoto Animations", have produced the highest number of popular shows with the highest average rating of titles.

**Q: Any trends in the popularity of titles by the year?**

Interestingly, there seems to be a somewhat inverse relationship between the number of titles and the average rating given by users. When the number of popular titles increased, the average rating for all shows followed a decreasing trend. Similar trends were exhibited vice versa. Although the recent couple of years show a slight dip in the proportion of members who have rated the title, the overall percentage seems to remain constant for the most popular and highest-rated shows.

**Q: Do the number of licensors affect the number of members per title?**

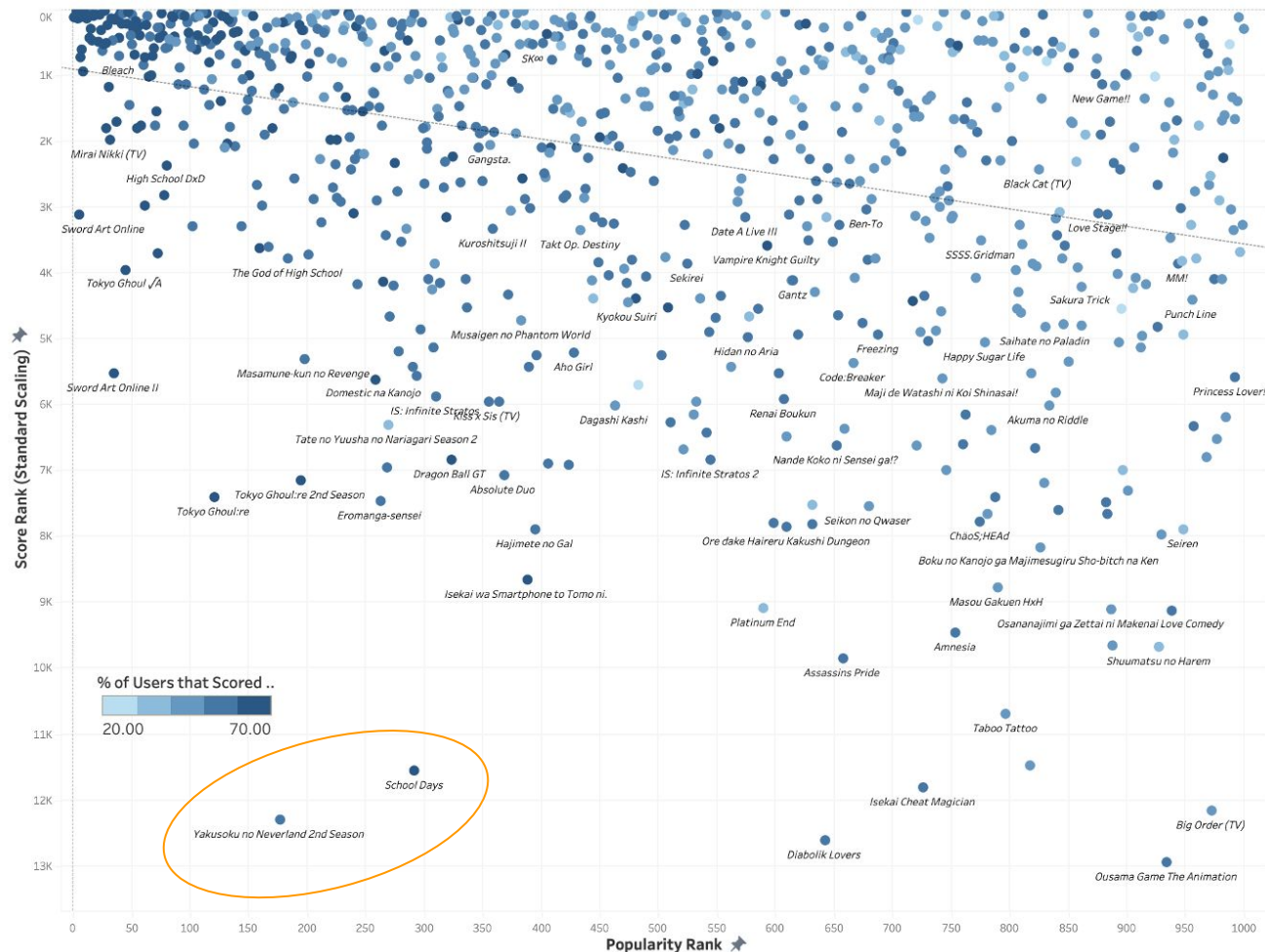
We noticed that the number of members, the number of titles and licensors were positively correlated. However, the rate of which members were declining was at a similar rate to the number of licensors, while the general pattern matched the number of titles per year.

**Q: How has COVID impacted the number of popular shows?**

One interesting finding between 2020 and 2021 is the sudden increase in popular shows. Multiple animation studios faced a decline in work productivity due to COVID, causing delays in the production of animation. Despite the difficult times, there has been a spike of popular shows in 2021.



## Popularity Ranking v Score Ranking

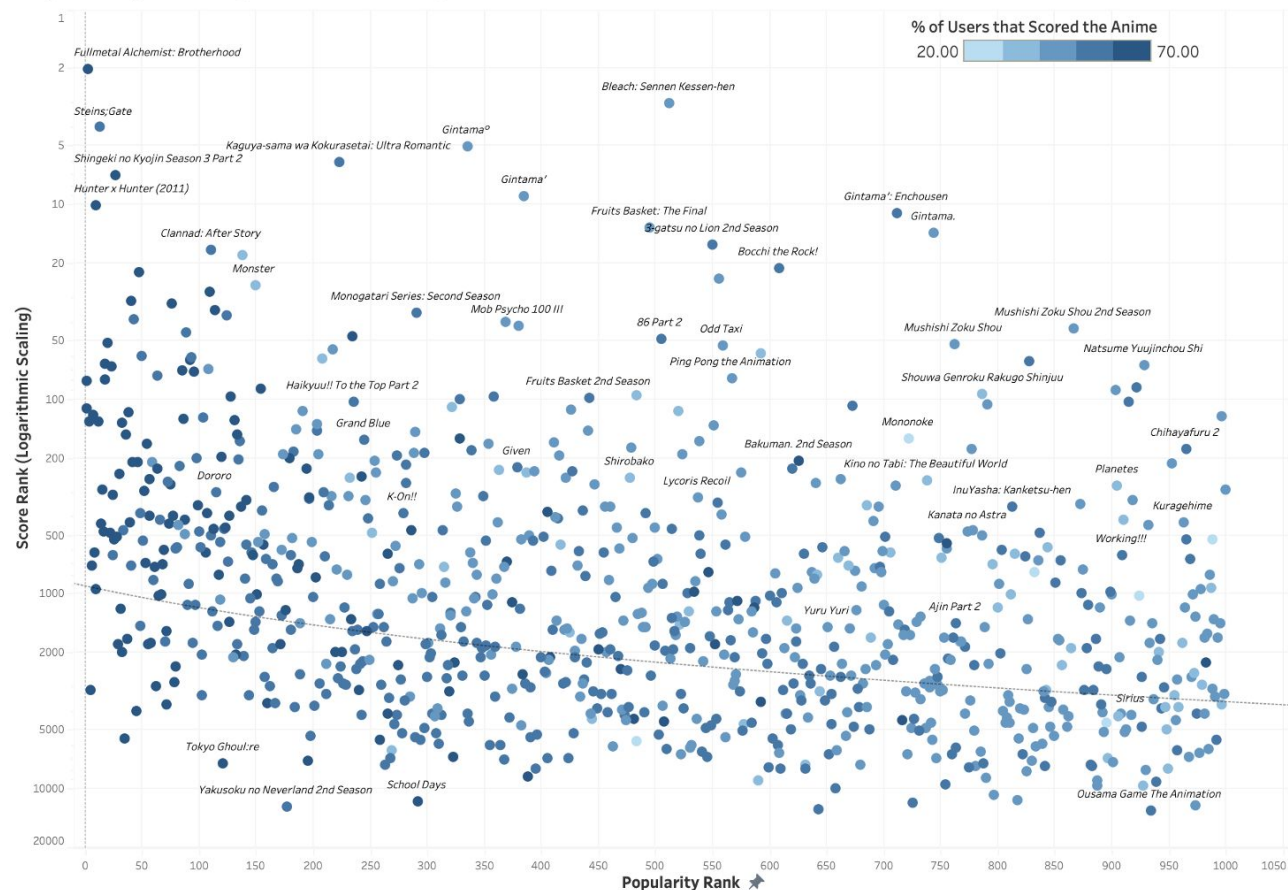


This is a simple scatterplot that shows how the various titles are distributed with the ranking of the score plotted against the popularity.

The shade of the of the point represents the proportion of members that have scored the show. The dotted line represents the line of best fit.

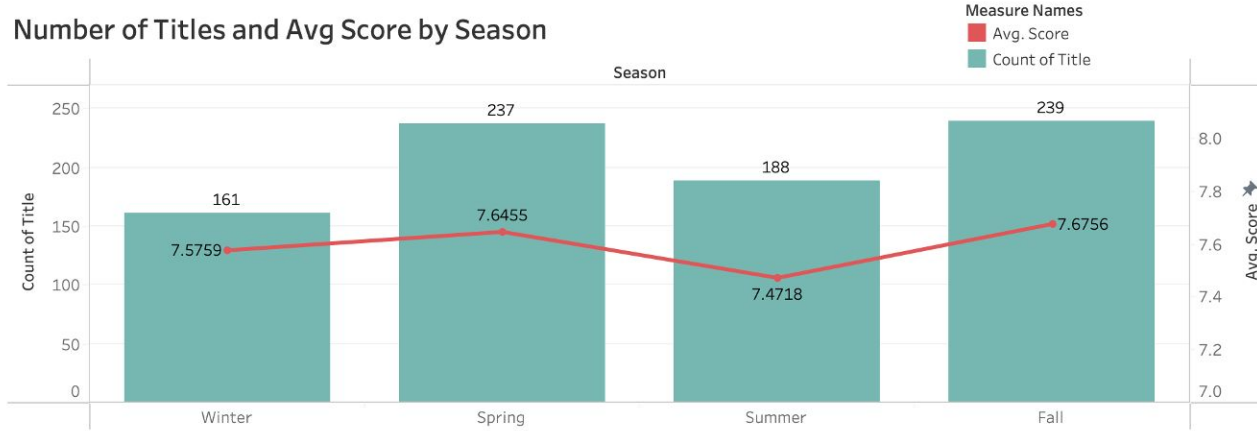
**This plot highlights outlying shows:**  
Shows that are extremely popular but scored lowly by the community.

## Popularity Ranking v Score Ranking



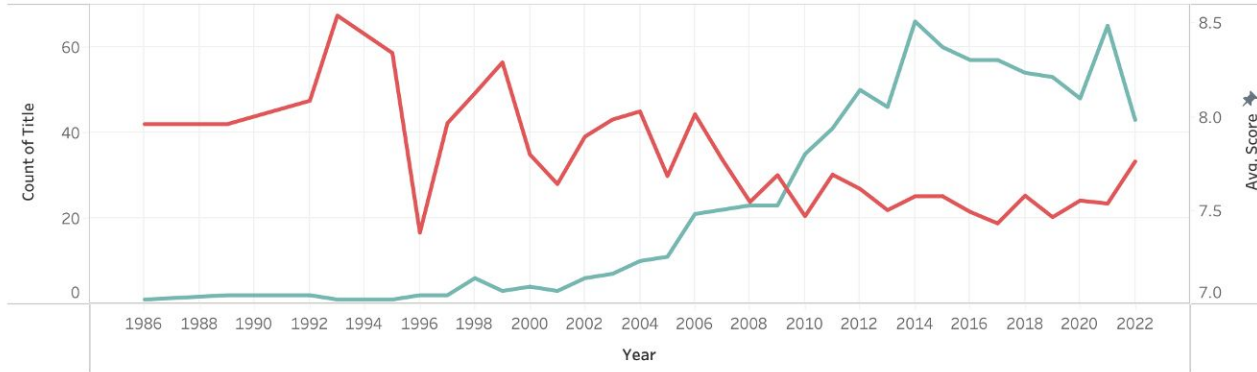
Unlike the previous scatterplot, this one compares the rank of scores and popularity using a log scale. A logarithmic scale is used to highlight shows that are highly praised by the community. As seen from the plot, the **Gintama series is highly adored by the Western community**. The highest scored show is supposedly, "Shingeki no Kyojin: The Final Season - Kanketsu-hen", **but** due to recency and the conclusion season still in progress, the show is not included for this plot.

## Number of Titles and Avg Score by Season



The two plots above compares the number of titles and the average score for the top 1000 anime in popularity. The first plot compares by season the show premiered and the bottom compares by the year of premiere.

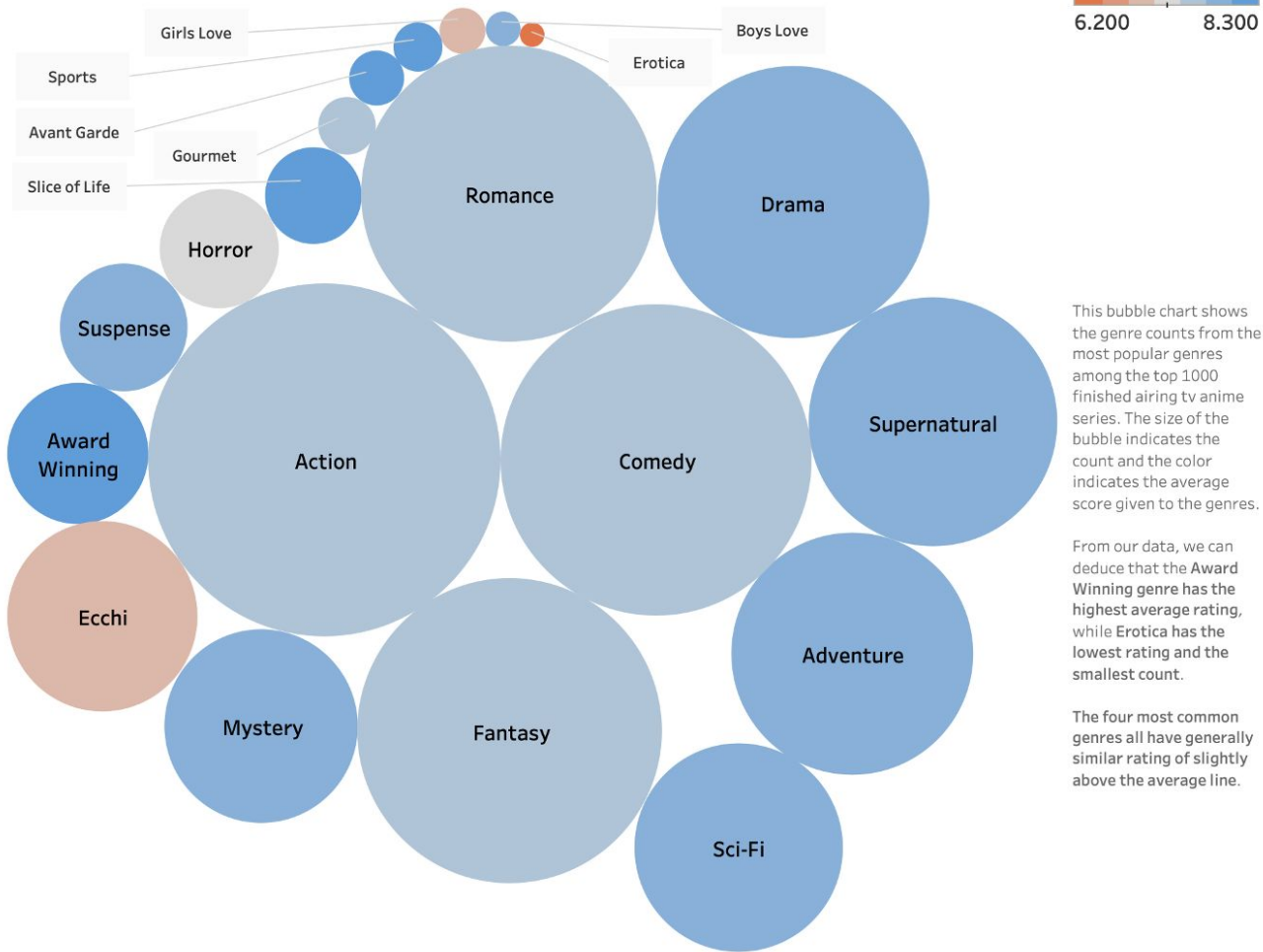
## Average Score and Number of Popular Titles over the Years



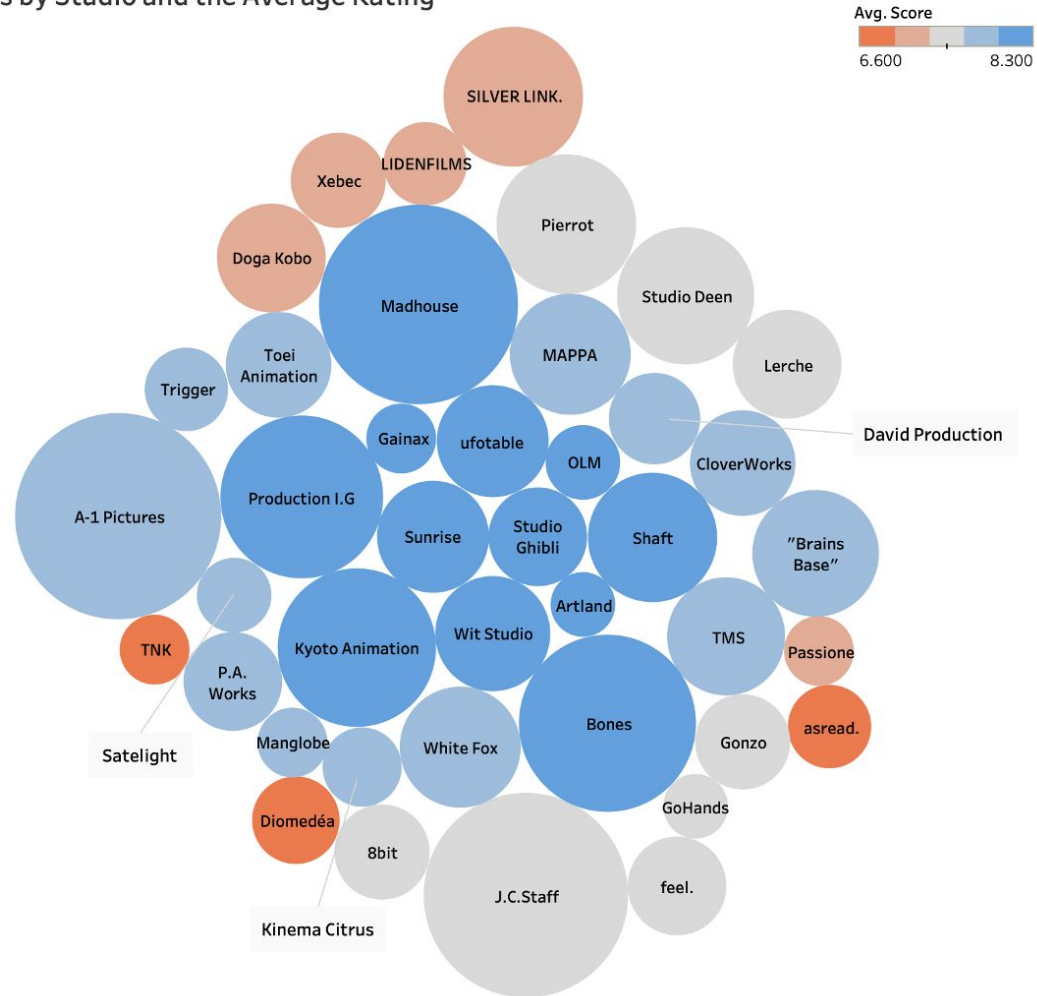
From the first plot, we can notice that **Spring and Fall seasons have more shows with a higher average rating** unlike the two other seasons.

The second plot compares by years. Interestingly, the **average rating has been slightly decreasing with a recent rebound** while the **number of titles have been showing a slight decreasing trend**.

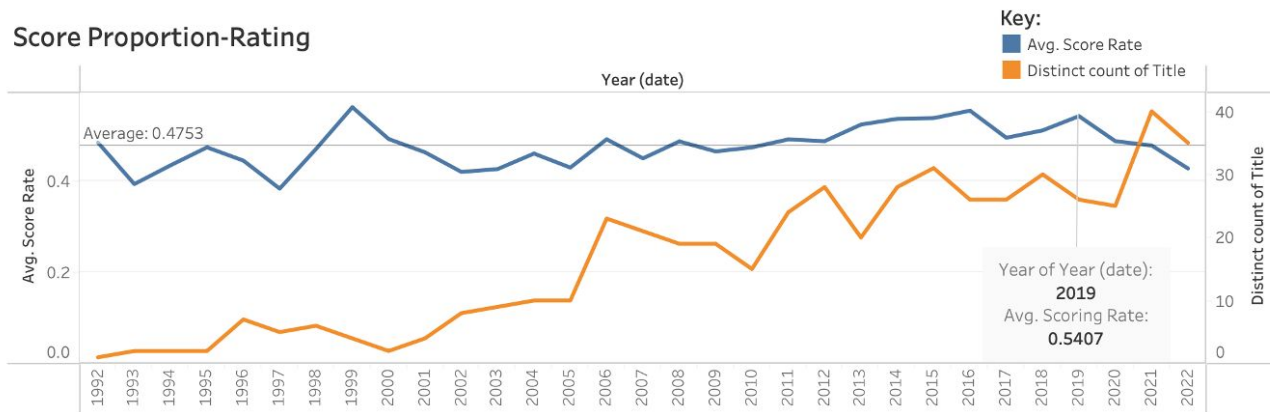
## Genre Counts and the Average Ratings







## Score Proportion-Rating

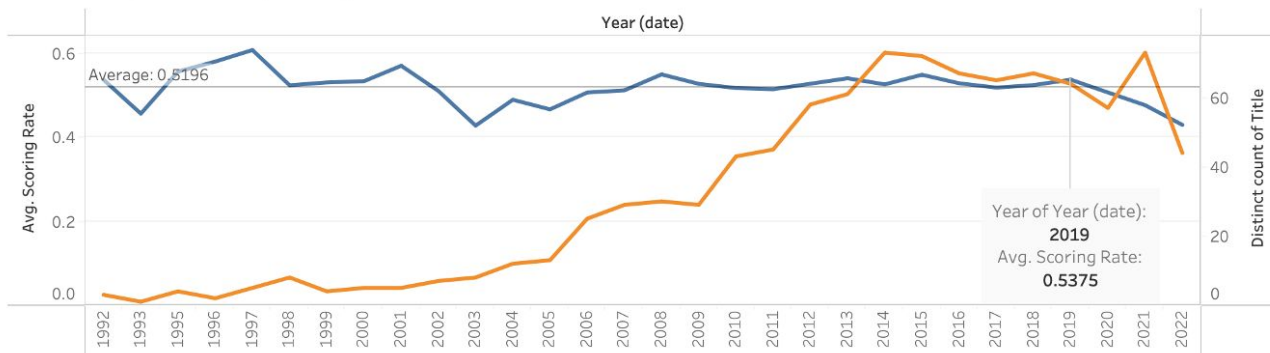


**Definition:** Score Rate = Proportion of Members that Scored

**Summary:** There is a trend where recent shows are facing a decreasing scoring rate regardless of the popularity or rating.

There has been an interesting recent trend where the proportion of members who have given scores have been facing a decreasing trend. By looking at the trends for the highest rated shows, there has been a rapid increase of highly rated shows, yet a decreasing number of people who have rated these shows. From the Popularity list, we can see that although there are less popular shows in recent years, there is still a decreasing trend in the scoring rate.

## Score Proportion-Popularity



Both plots are showing similar behaviors. Though, this result may have been influenced by recency bias.

## Licensors v Member



## Titles v Member



The two plots show the number of Licensors or Titles compared with the number of total members of the top 1000 shows. We can notice that there is an increasing number of shows, licensors, and members as the Years went by. **On 2014, the number of members hit a peak, following a decreasing trend ever since.** The number of titles and licensors have also been following a similar trend. **However, there was a sudden increase of members and titles from 2020 to 2021.**

This sudden increase of popular shows may be due to COVID giving the producers and animators extra time to work on the shows, resulting in larger audience size. Interestingly the sudden increase is not reflected in the number of licensors for the titles.



**Thank You**

