

Scraping Television Shows from Metacritic

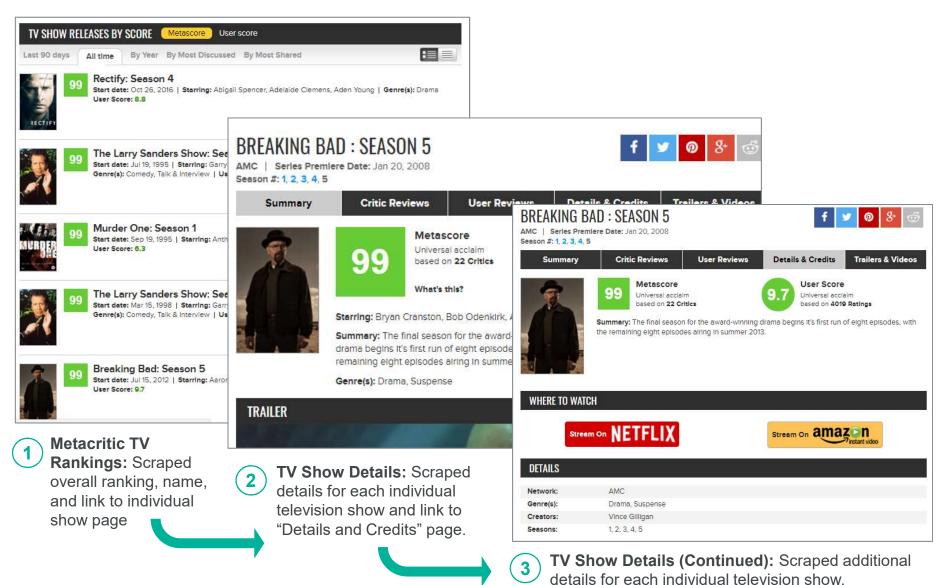
Web Scraping Project

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Motivation & Background

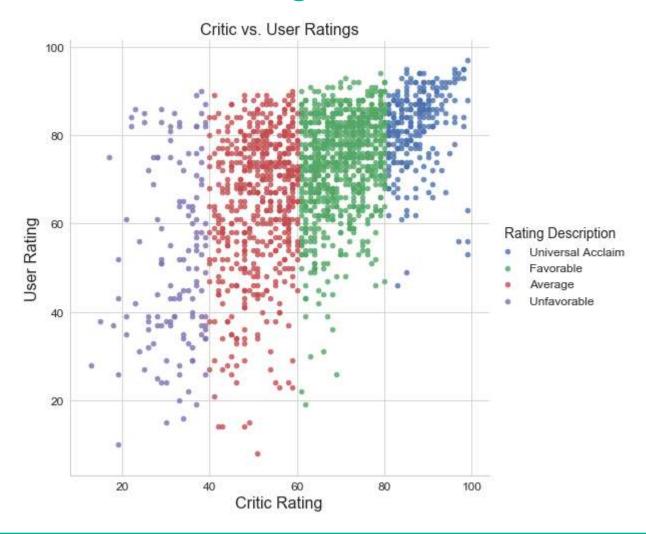
- This period has been dubbed "the new golden age of television" and the era of "peak TV".
- The Financial Times recently <u>wrote</u>, "We used to complain that there was never anything good on TV. Now we complain about the opposite."
- I scraped television show data from Metacritic to answer the following:
 - 1 Are there really more "good" shows on now than ever before?
- 2 Are subscription/online networks displacing traditional channels?
- 3 Should we trust the critics do critics and users usually agree?
- 4 What should I actually watch next?

Web Scraping Process

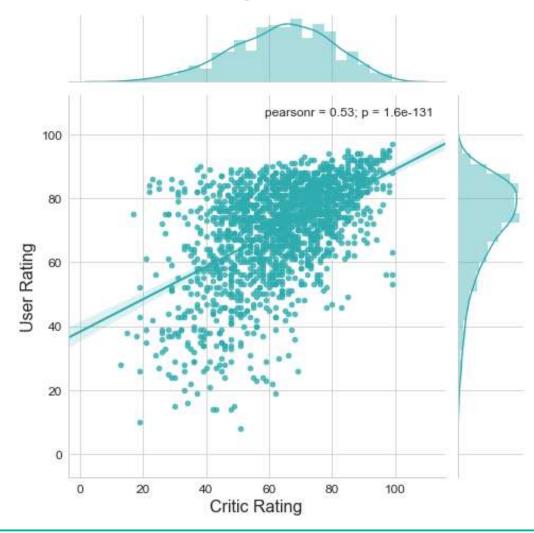


Data Description

- Scraping Metacritic produced the following variables:
 - 1. Show Name
 - 2. Overall Metacritic Rank
 - 3. Critic Rating
 - 4. Number of Critic Reviews
 - 5. Critic Rating Description (from "Universal Acclaim" to "Unfavorable")
 - 6. User Rating
 - 7. Number of User Reviews
 - 8. Number of Seasons
 - 9. Network
 - 10. Series Premiere Date
 - 11. Season Premiere Date
 - 12. **Length** (in minutes)
 - 13. Genre(s)
- The TV section of Metacritic was launched in 2005, so although the dataset contains shows from prior years, it is likely missing many shows from that time period.



The relationship looks fairly linear, and sentiments seem to converge as critic ratings improve.

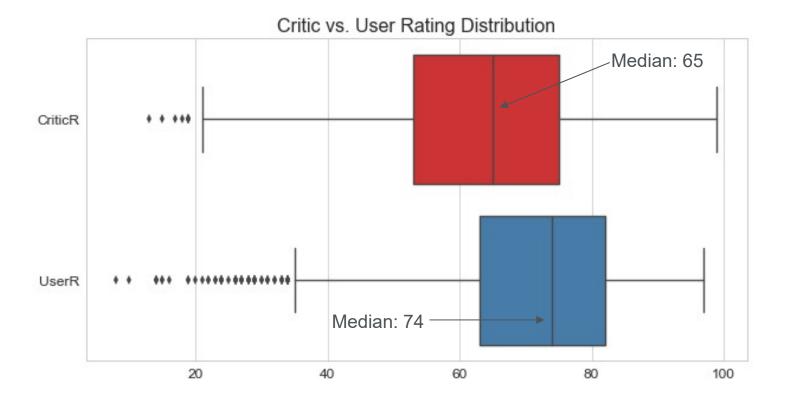


There is a significant moderate, positive relationship between critic and user ratings.





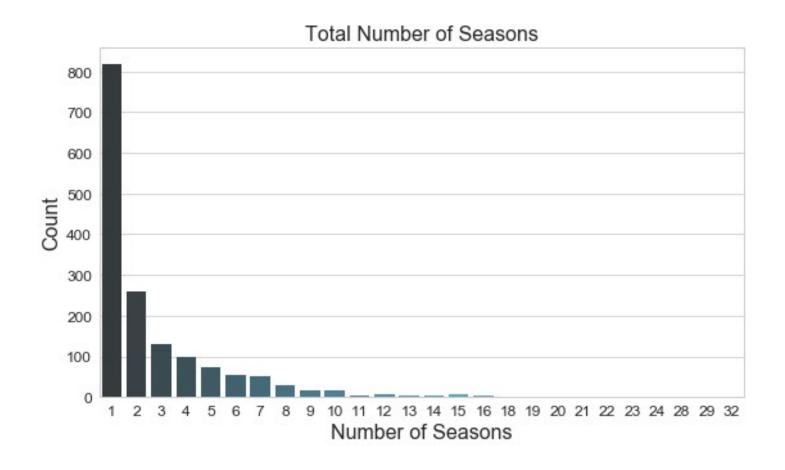
The population means of critic and user ratings are different for all test groups ("Unfavorable", "Average", "Favorable" and "Universal Acclaim").





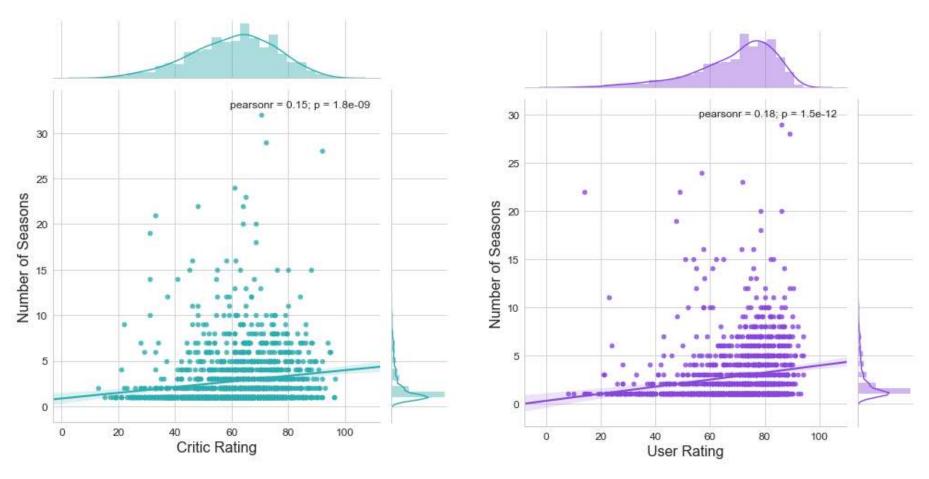
Critics are "harsher" than users - their median review is lower.

Do Ratings Matter for a Show's Success?



The majority of shows last only one season – and the number decreases from there.

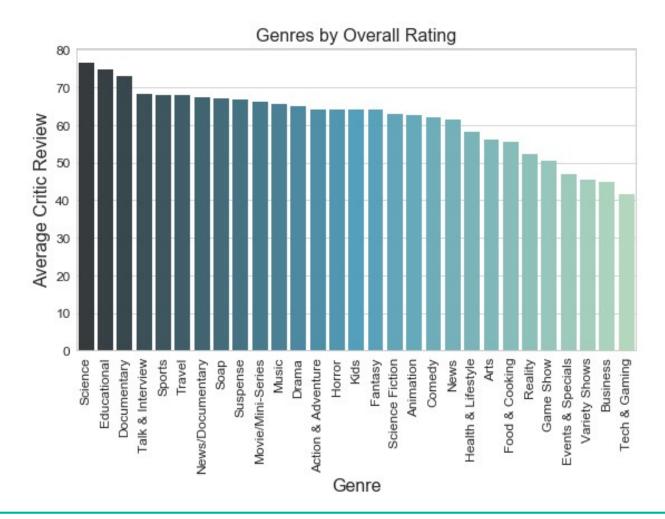
Do Ratings Matter for a Show's Success?





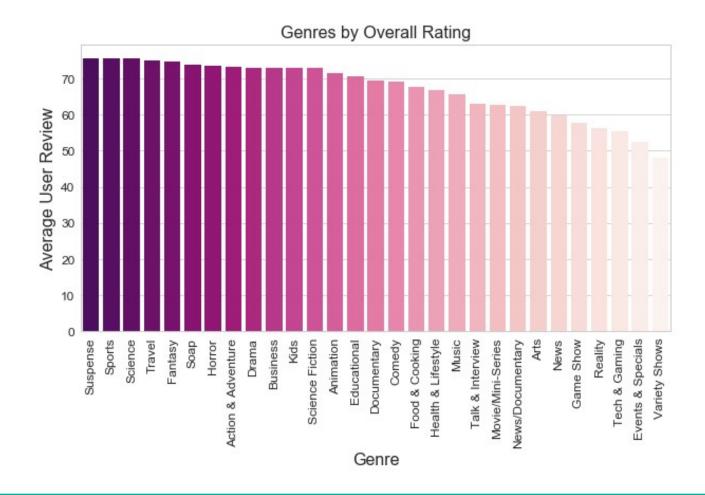
There is a weak (but significant) linear relationship between critic and user ratings and number of seasons.

What Genres do Critics Like and Dislike?



Critics rate Science and Educational programming highly. The lowest rated genres are Variety, Business, and Gaming shows.

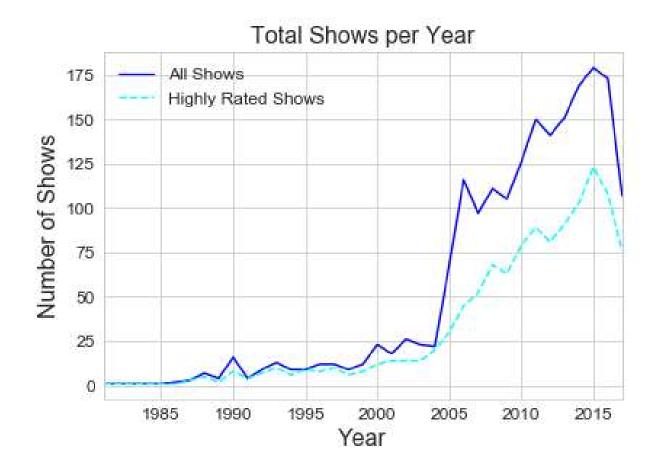
What Genres do Users Like and Dislike?





Users prefer Sports and Suspenseful shows. The lowest rated genres are Variety, Reality, and Gaming shows.

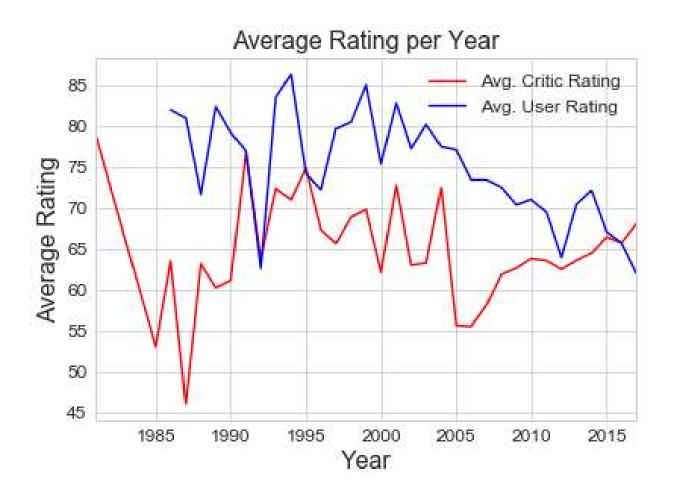
Is This the Era of Peak TV?





There has been an increase in the total number of shows on the air, as well as an increase in "good" shows (shows with critic ratings > 60).

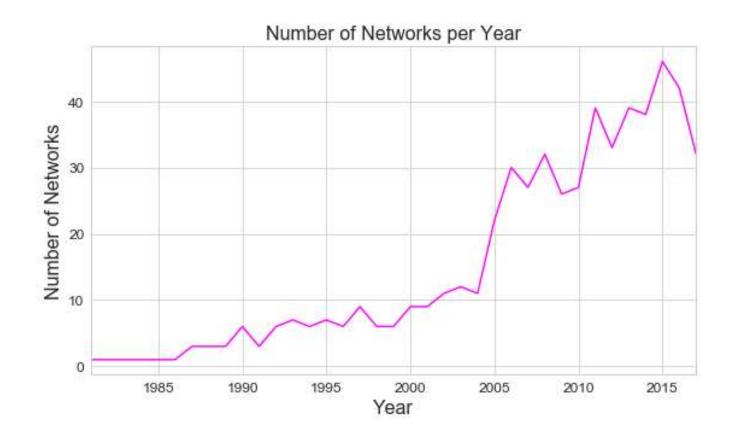
Is This the Era of Peak TV?





Shows are not getting "better" – average critic and user ratings have not increased.

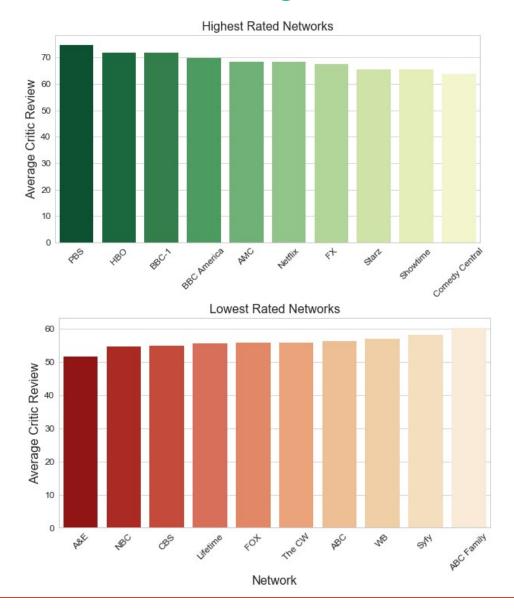
Are There More Networks Producing Shows?





There has been an overall increase in the number of networks producing at least one TV show.

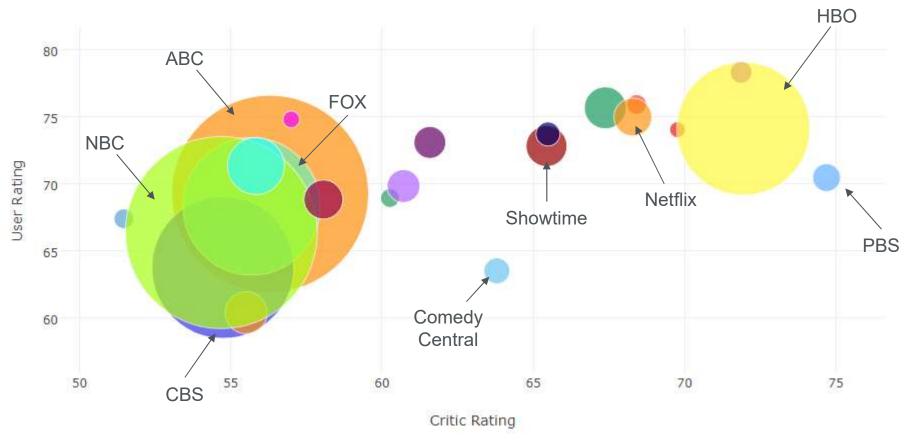
What are the Highest & Lowest Rated Networks?



Of all networks with more than 15 existing shows, PBS and HBO shows have the highest average critic ratings. A&E and NBC have the worst ratings.

What are the Highest & Lowest Rated Networks?

Ratings and Number of Shows by Network





Traditional basic-cable channels are lagging behind in terms of creating "peak" TV.

Conclusions

Overall Findings:

- 1 Critic and user ratings are moderately correlated, but critics tend to be pickier.
- TV may not be getting better, but there are more shows to watch (and more good shows).
- 3 Critics love educational programming and dislike reality television, while users prefer sports and suspense (but agree on reality television).
- 4 Traditional basic cable channels are lagging behind subscription/premium networks in terms of creating "must-see" TV.

What Should I Watch Next?

Best Dramas - All Time

Overall Rank	Show	Average Rating
1.	The Sopranos	93.4
2.	The Wire	92.7
3.	Breaking Bad	91.2
4.	Fargo	90.2
5.	Rectify	90.0
6.	Deadwood	89.0
7.	Sherlock	88.5
8.	Justified	87.6
9.	The Americans	87.4
10.	Game of Thrones	87.0

Best Comedies - All Time

Overall Rank	Show	Average Rating
1.	The Office (UK)	90.7
2.	Fargo	90.2
3.	Silicon Valley	86.6
4.	Louie	86.6
5.	Arrested Development	86.2
6.	Curb Your Enthusiasm	86.1
7.	Better Call Saul	85.8
8.	Catastrophe	84.3
9.	BoJack Horseman	83.2
10.	Veep	82.6

^{*} Only includes shows with 3 or more seasons