### **Shake It Off**

The critics don't know what the people want

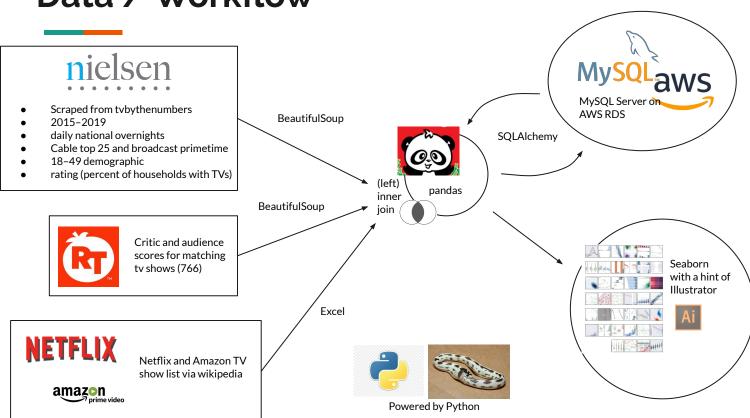
Findlay Bowditch Ravi Charan

// Flatiron — NYC Data Science

#### What makes people watch TV?

- We collected Nielsen ratings (viewership) and Rotten Tomatoes scores (audience and critics) to see if people care about the "quality" of TV
- We thought that people might be more likely to watch critically well-reviewed shows
- They don't
- You should focus on giving the people what they want

#### Data / Workflow

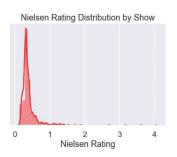


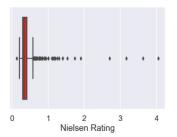
# Most TV has modest viewership

Outliers represent a few breakout hits (not much sports in our dataset)

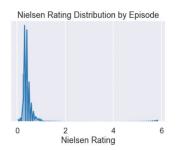
- Game of Thrones
- The Walking Dead

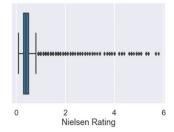
Nielsen Rating By Show		
Count	500	
Mean	0.42	
STD	0.35	
Min	0.13	
25%	0.30	
50%	0.33	
75%	0.41	
Max	4.05	





Nielsen Rating By Episode		
Count	24643	
Mean	0.43	
STD	0.27	
Min	0.1	
25%	0.3	
50%	0.4	
75%	0.5	
Max	5.8	





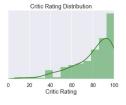
<sup>\*</sup>descriptive statistics for each shows average A18\_49 demo rating

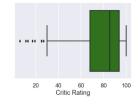
<sup>\*</sup>descriptive statistics for the A18\_49 demo rating for all episodes in all shows

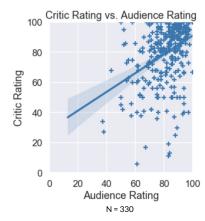
## Most reviews are high

Critic and audience ratings go hand in hand

Critic Rating		
Count	338	
Mean	79	
STD	19	
Min	6	
25%	68	
50%	86	
75%	94	
Max	100	



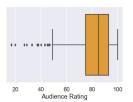




\*descriptive statistics for the Rotten Tomatoes critic ratings

Audience Rating		
Count	575	
Mean	82	
STD	16	
Min	17	
25%	75	
50%	85	
75%	93	
Max	100	

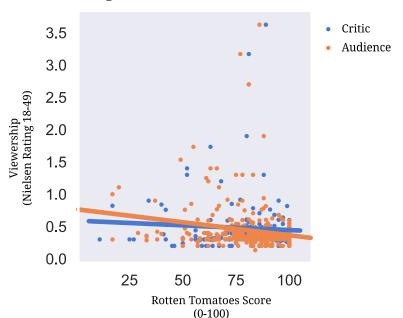




 $\hbox{$^*$ descriptive statistics for the Rotten Tomatoes audience ratings}$ 

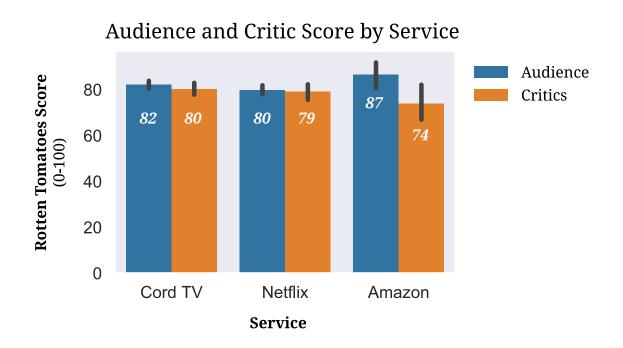
#### Viewers don't care about quality

#### Viewership versus Rotten Tomatoes Score

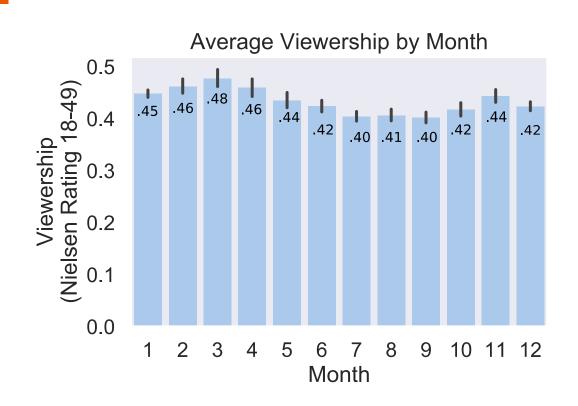


	Viewership	Viewership
Critic	-0.002 (0.002)	
Audience		004*** (0.001)
Intercept	0.59*** (0.16)	0.77*** (0.10)
N	171	333
$\mathbb{R}^2$	0.003	0.033
Coeff (SE) *: p < 0.1 **: p < 0.05 ***: p < 0.01		

#### Amazon appears to have figured this out



#### Time your releases to build a viewership base



#### Takeaways/Conclusions

- Don't worry about the reviews
  - Even the audience's rotten tomatoes score don't seem representative of what people actually watch
- Prestige TV (Emmys) and Blockbusters can drive attention, but aren't the core offering
- Pay close attention to what Amazon is doing
- Time your releases for when people are already watching TV