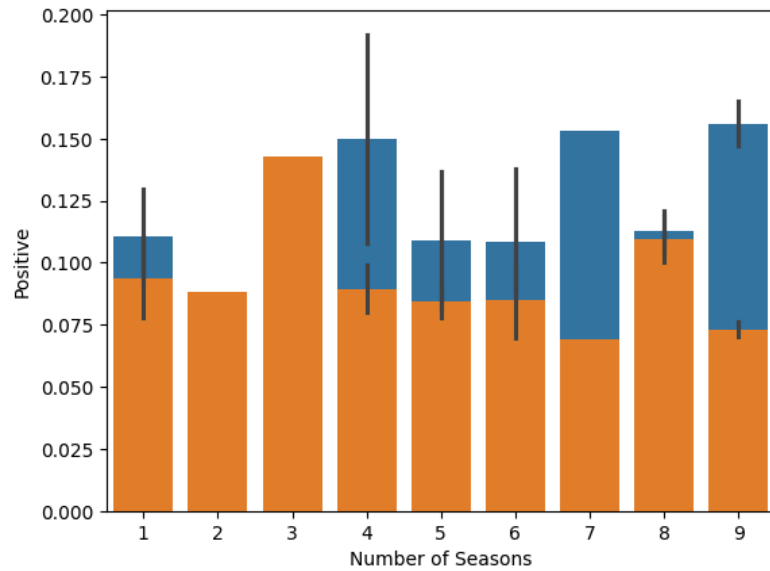
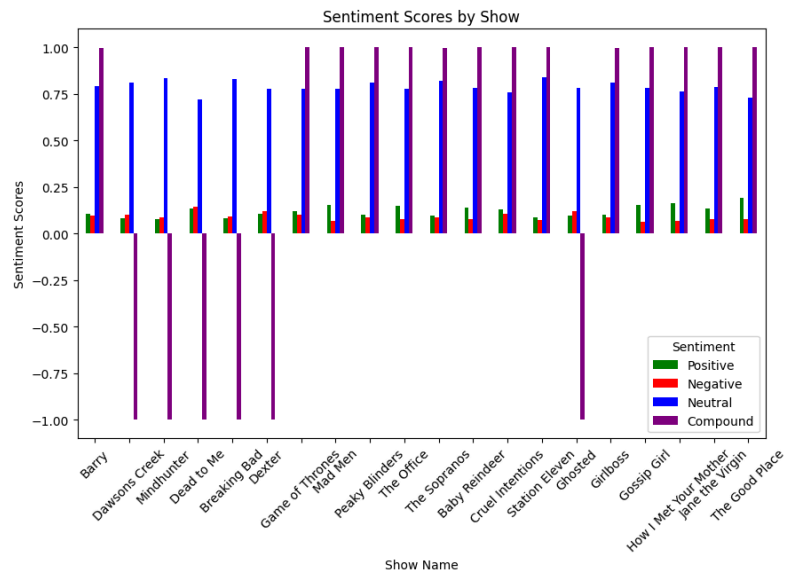


## EDA Plots

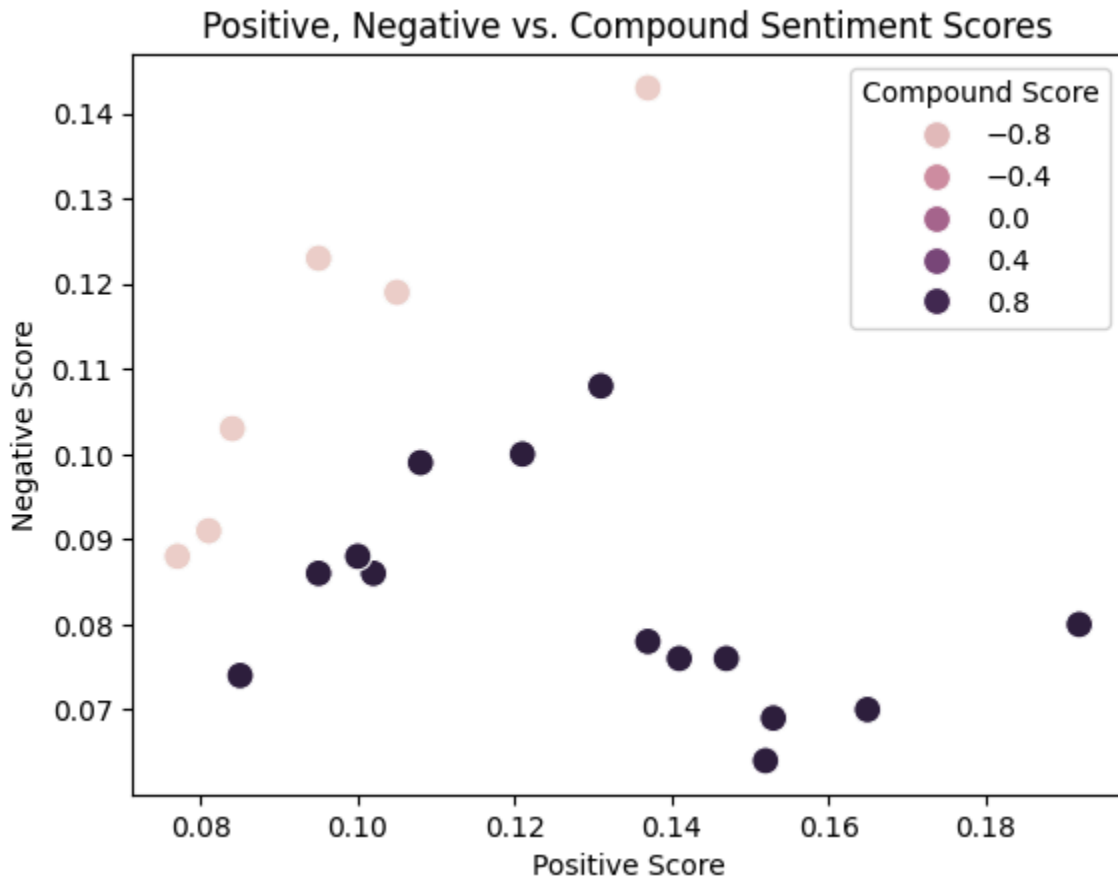
*Stacked Bar Plot:* Shows positive and negative sentiment in comparison to runtime(number of seasons per show). Positive sentiment is indicated by blue, negative sentiment is indicated by orange.



*Bar Plot:* Shows individual sentiment scores for each show



*Three-Variable Scatterplot:* Shows relationship between positive, negative, and compound sentiment scores for all 20 shows



## Statistical Testing Results

### Results of MLR

OLS Regression Results						
=====						
Dep. Variable:	Runtime	R-squared:	0.246			
Model:	OLS	Adj. R-squared:	0.045			
Method:	Least Squares	F-statistic:	1.224			
Date:	Wed, 22 Oct 2025	Prob (F-statistic):	0.342			
Time:	17:28:30	Log-Likelihood:	-45.739			
No. Observations:	20	AIC:	101.5			
Df Residuals:	15	BIC:	106.5			
Df Model:	4					
Covariance Type:	nonrobust					
=====						
	coef	std err	t	P> t	[0.025	0.975]
-----						
const	4.6500	0.615	7.560	0.000	3.339	5.961
Positive	-68.9601	45.842	-1.504	0.153	-166.669	28.749
Negative	-44.8240	28.927	-1.550	0.142	-106.480	16.832
Neutral	-69.6406	45.715	-1.523	0.148	-167.080	27.799
Compound	-0.2609	0.936	-0.279	0.784	-2.256	1.734
=====						
Omnibus:	0.940	Durbin-Watson:	0.940			
Prob(Omnibus):	0.625	Jarque-Bera (JB):	0.790			
Skew:	-0.188	Prob(JB):	0.674			
Kurtosis:	2.102	Cond. No.	168.			
=====						

### Plotting Actual vs. Predicted Runtime

