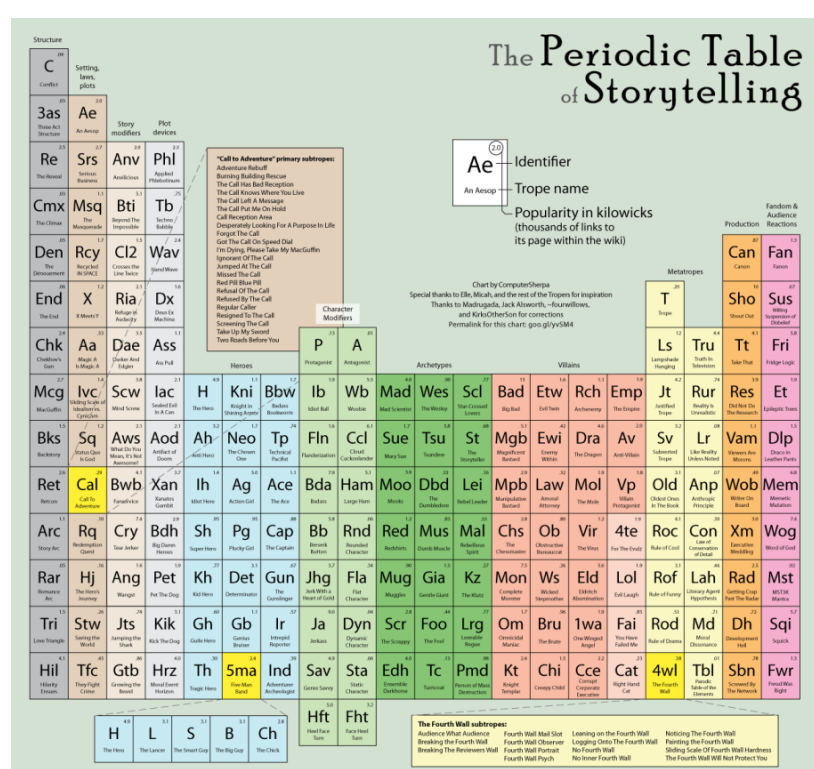
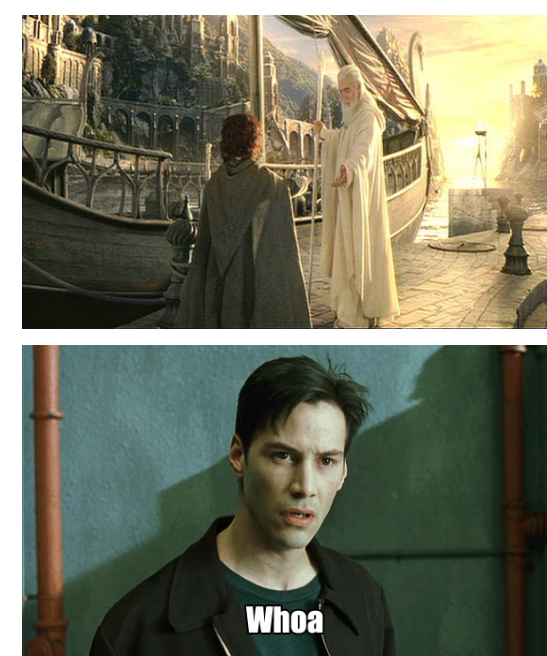


Measuring Narrative for Elements of Success

Uncover the Utility of Narrative



Trope - a narrative feature that the audience will recognize instantly.



Most correlated with IMDB rating:
Bittersweet Ending

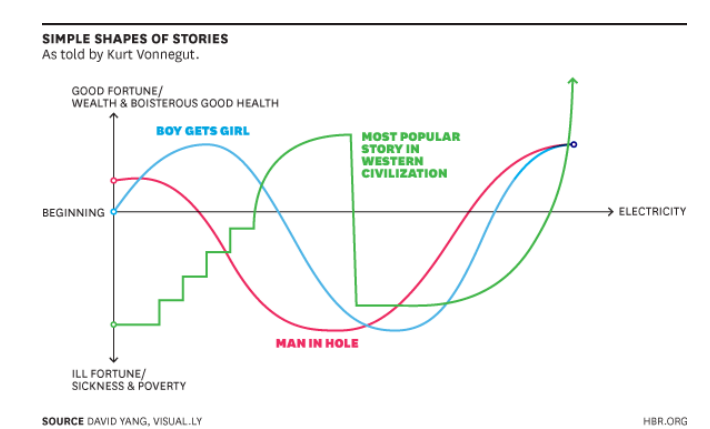
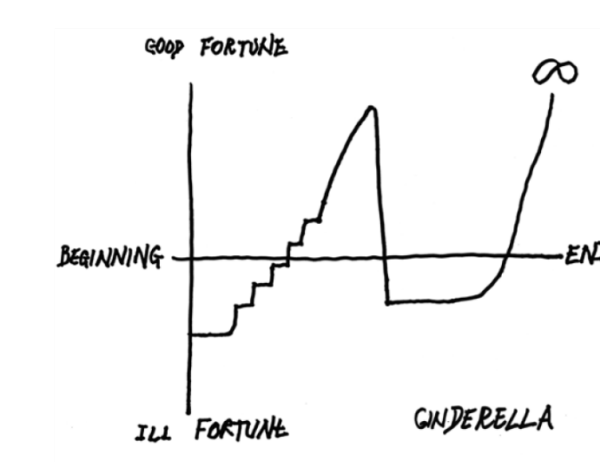
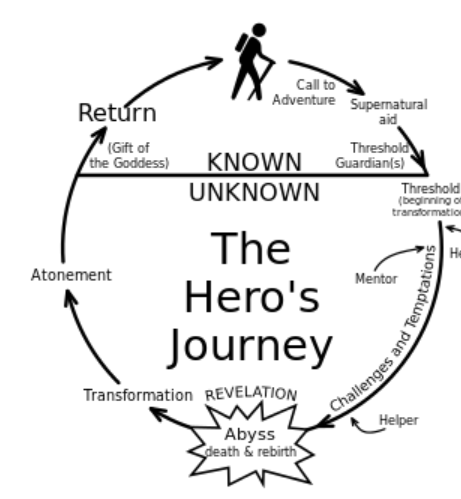
Least correlated with IMDB rating:
Dull Surprise



Find and Utilize Trope Patterns to Predict Success

“There’s no reason why the simple shape of stories can’t be fed into computers.”

- Kurt Vonnegut



Do Certain Tropes Affect a Movie’s IMDB Rating?

BASELINE MODEL

- ☐ Movie ‘Year’ Only
- ☐ Mean Squared Error: **1.66**
- ☐ 1 Hidden Layer
- ☐ 100 Epochs
- ☐ Batch Size = 5

	IMDB Rating	Year	Trope 1430
Movie 1	8.4	0.06001610555	1
Movie 2	7.6	-0.171465375	0
Movie 3	5.4	0.08584303423	1

Input(s)
Output

BEST OVERALL MODEL

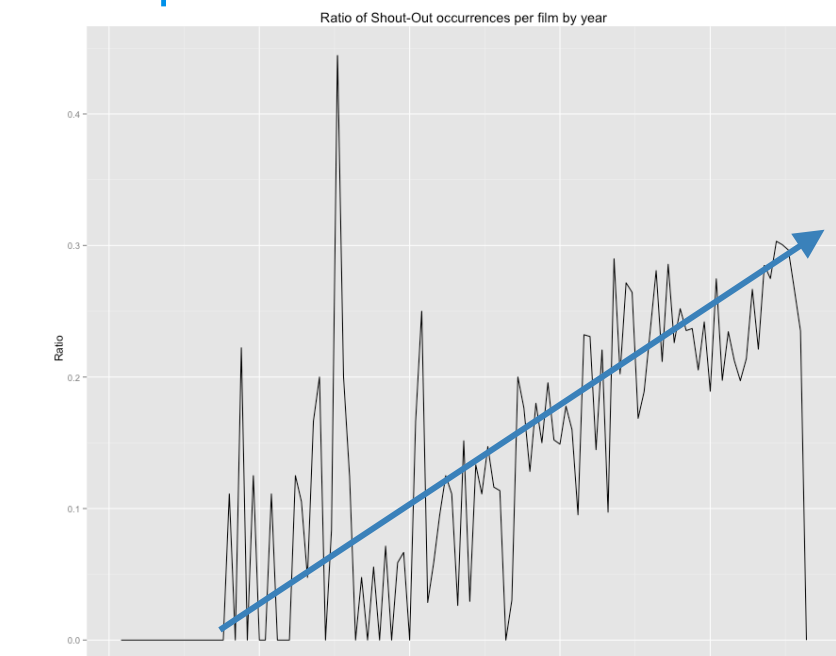
- ☐ Mean Squared Error: **1.02**
- ☐ 3 Hidden Layers
 - ☐ 2150, 1000, 500 nodes respectively
- ☐ 120 Epochs
- ☐ Batch Size = 10

4,336 Tropes 6,708 Movies

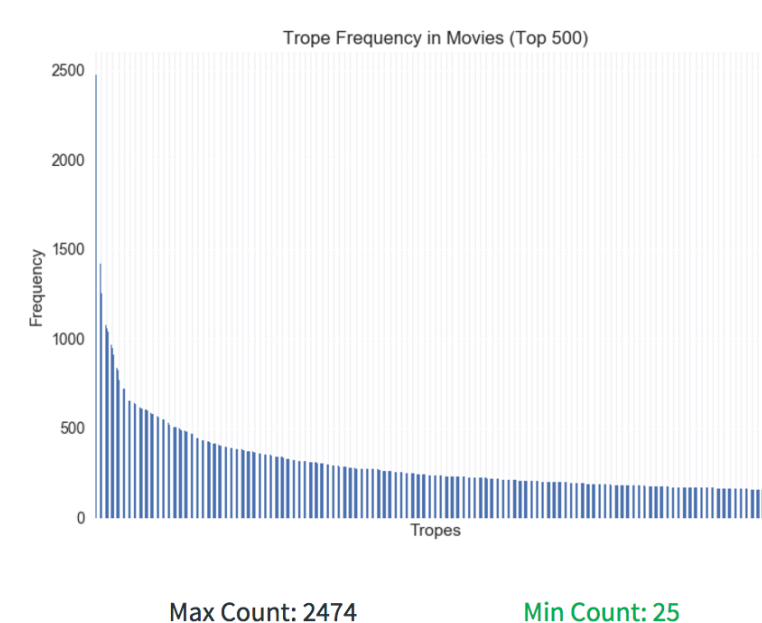
Data Features

- ☐ Year released
- ☐ Movie runtime
- ☐ Time series score for all tropes

Example: “Shout-Out”

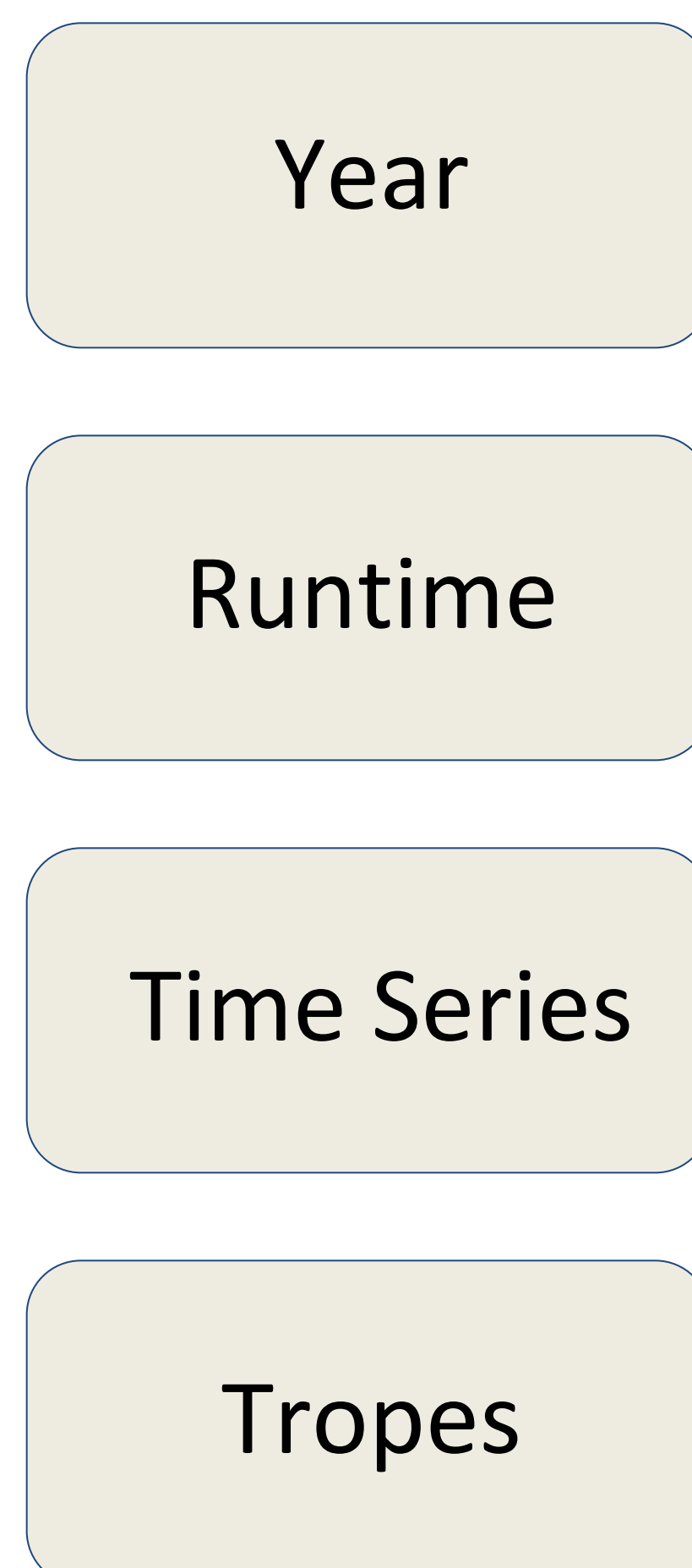


Time Series Regression Coefficients



Trope Frequency Distribution

Inputs



Hidden Layer(s)



Output

