Nick Cage

Questions to Answer

1. How do critics tend to rate Nicolas Cage movies?
2. How do audiences tend to rate Nicolas Cage movies?
3. How do critics and audiences tend to rate the same Nicolas Cage film?
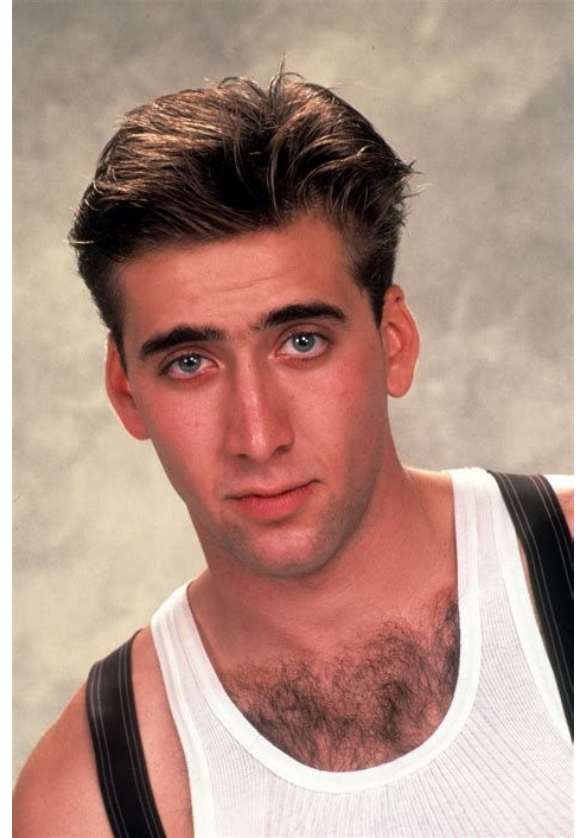
Website

- This project uses data taken from the rotten tomatoes website https://www.rottentomatoes.com/celebrity/nicolas_cage
- We only want to collect the first two rows of this table

Movies

TOMATOMETER®	AUDIENCE SCORE	TITLE	CREDIT	BOX OFFICE	YEAR ⌄
86%	87%	The Unbearable Weight of Massive Talent	Nick Cage (Character), Self, Producer	$20.2M	2022
61%	20%	Prisoners of the Ghostland	Hero (Character)	-	2021
97%	84%	Pig	Rob (Character), Producer	$3.1M	2021
60%	68%	Willy's Wonderland	The Janitor (Character), Producer	$388.7K	2021
77%	94%	The Croods: A New Age	Grug (Voice)	$58.5M	2020
28%	64%	Jiu Jitsu	Wylie (Character)	-	2020

Code Used to Scrape the Website


```python
import requests
from bs4 import BeautifulSoup
import pandas as pd
import csv

# pull table from rotton tomatoes website
url = 'https://www.rottentomatoes.com/celebrity/nicolas_cage'
req = requests.get(url)
soup = BeautifulSoup(req.text, 'html.parser')
main_table = soup.find_all('table')[0]

# write the critic and audience score to Nick_Cage.csv
with open('Nick_Cage.csv', 'w') as csvfile:
    csvwriter = csv.writer(csvfile)
    csvwriter.writerow(['critic', 'audience'])

    for row in main_table.find('tbody').find_all('tr'):
        score_cols = row.find_all('td', class_='celebrity-filmography__score-content')
        critics = score_cols[0].find_all('span', class_='icon__tomatometer-score')
        audiences = score_cols[1].find_all('span', class_='icon__tomatometer-score')

        for i,j in zip(critics, audiences):
            csvwriter.writerow([int(i.text.replace('%','')), int(j.text.replace('%',''))])
```
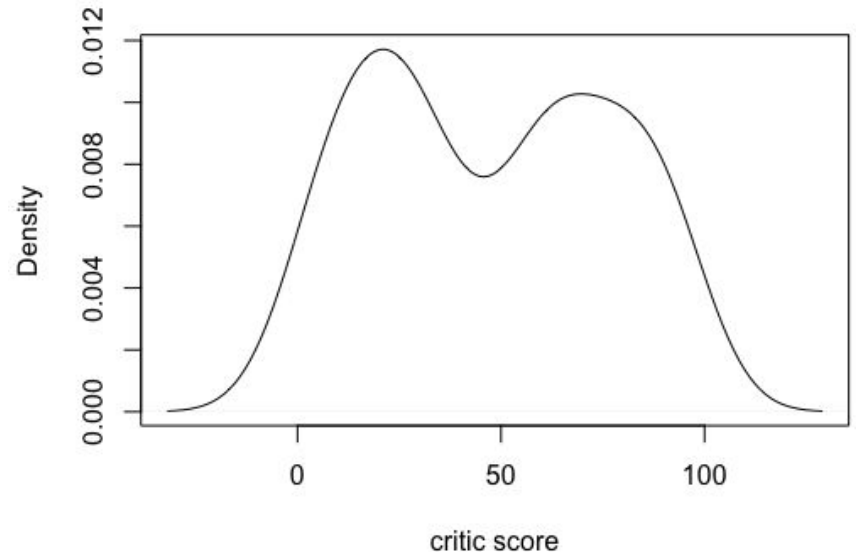
Critic Analysis

critic

- The distribution of critic scores on all Nicolas Cage films appears to be bimodal, suggesting there is another factor that causes some Nick Cage films to be rated higher than other films by critics
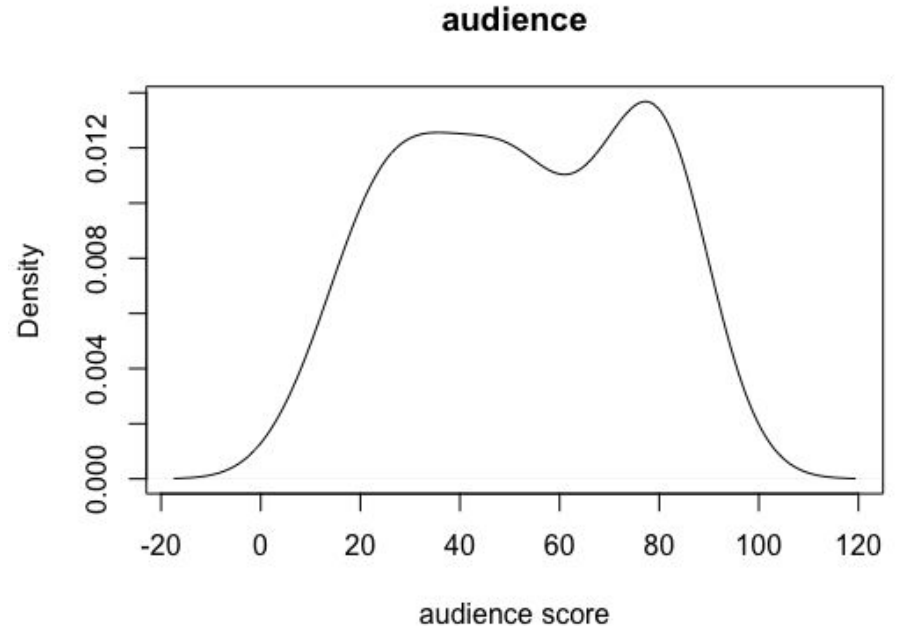
Audience Analysis

- The distribution of audience scores shows a similar pattern

Difference in Critic and Audience Ratings

- The difference in how critics and audiences rate a Nick Cage film appears to follow a normal distribution
- Critics appear to rate the same Nick Cage film 5.02% lower than audiences with a standard deviation of 20.54%.
- 50% of films have between an 8% and 17% difference in score when comparing critic and audience ratings.
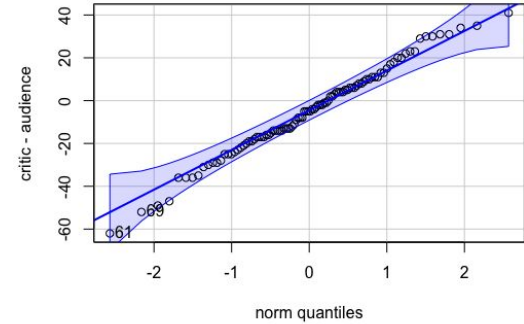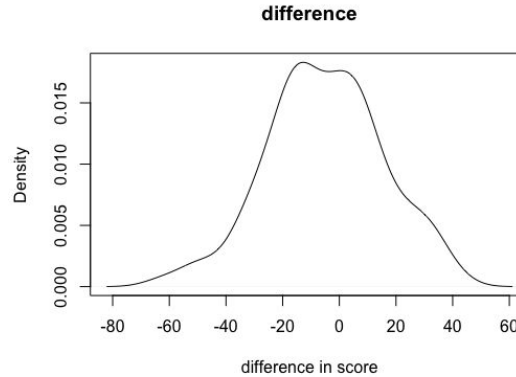

```
> summary(critic-audience) # mean: -5.02
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
 -62.00  -17.00   -5.00   -5.02    8.00   41.00
> sd(critic - audience) # sigma: 20.540
[1] 20.54012
```

Thank You For Your Time!