

Disney Movies Analysis

Meni

2025-04-23

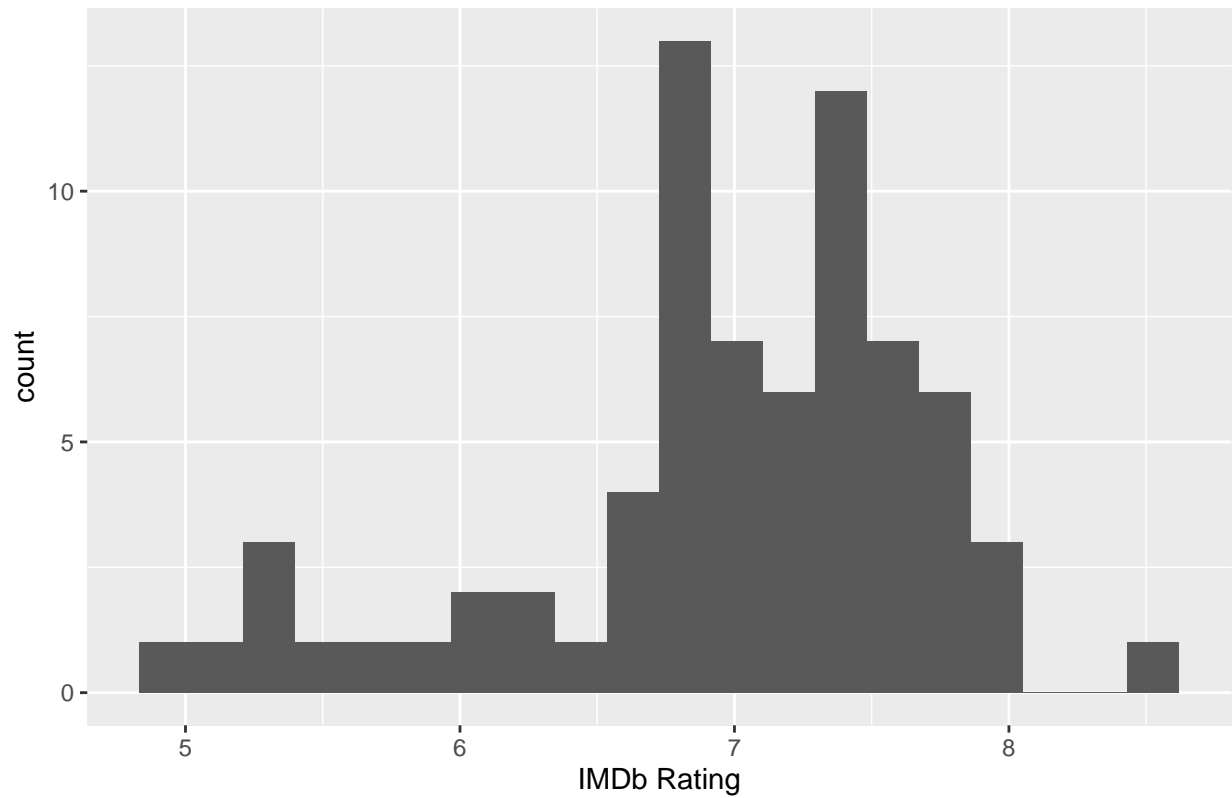
@knitr setup

Basic Stats

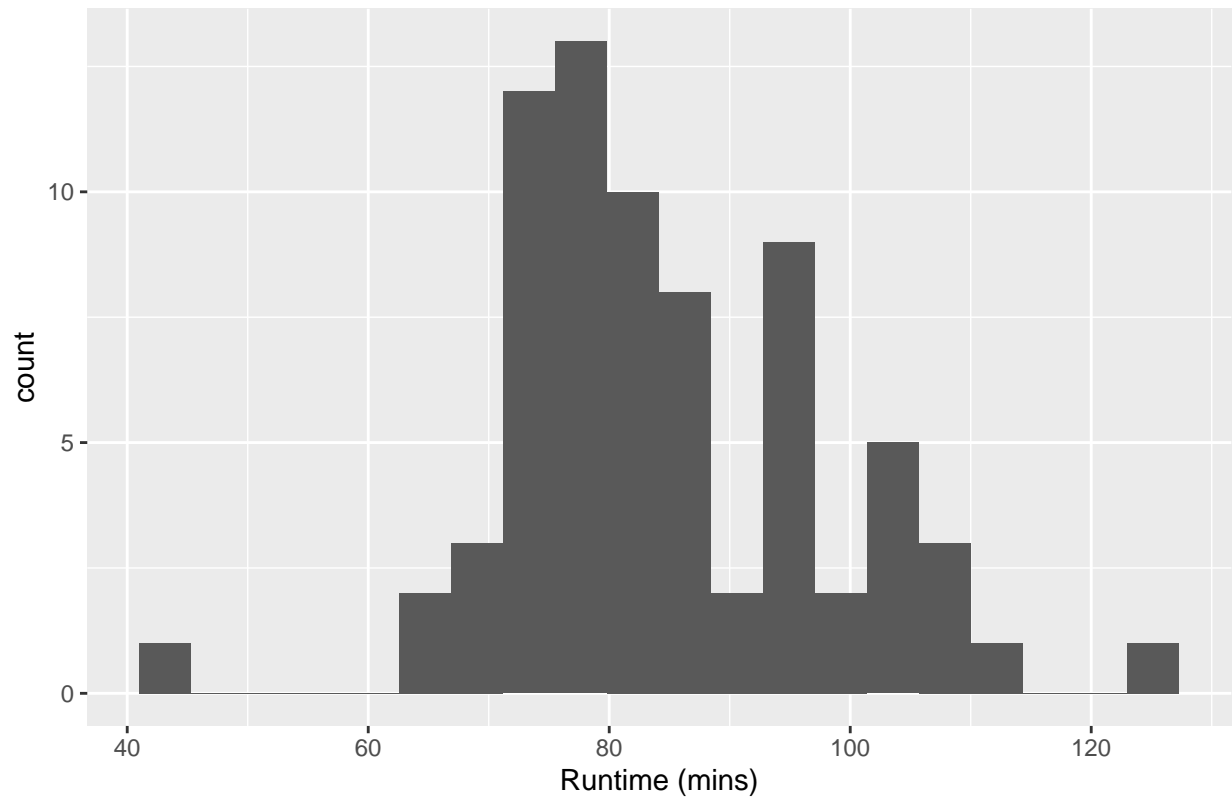
```
## # A tibble: 1 x 6
##   avg_rating sd_rating avg_runtime sd_runtime avg_votes sd_votes
##   <dbl>      <dbl>      <dbl>      <dbl>      <dbl>      <dbl>
## 1      6.97      0.722      84.7       13.3    181294.    195639.
```

Plots

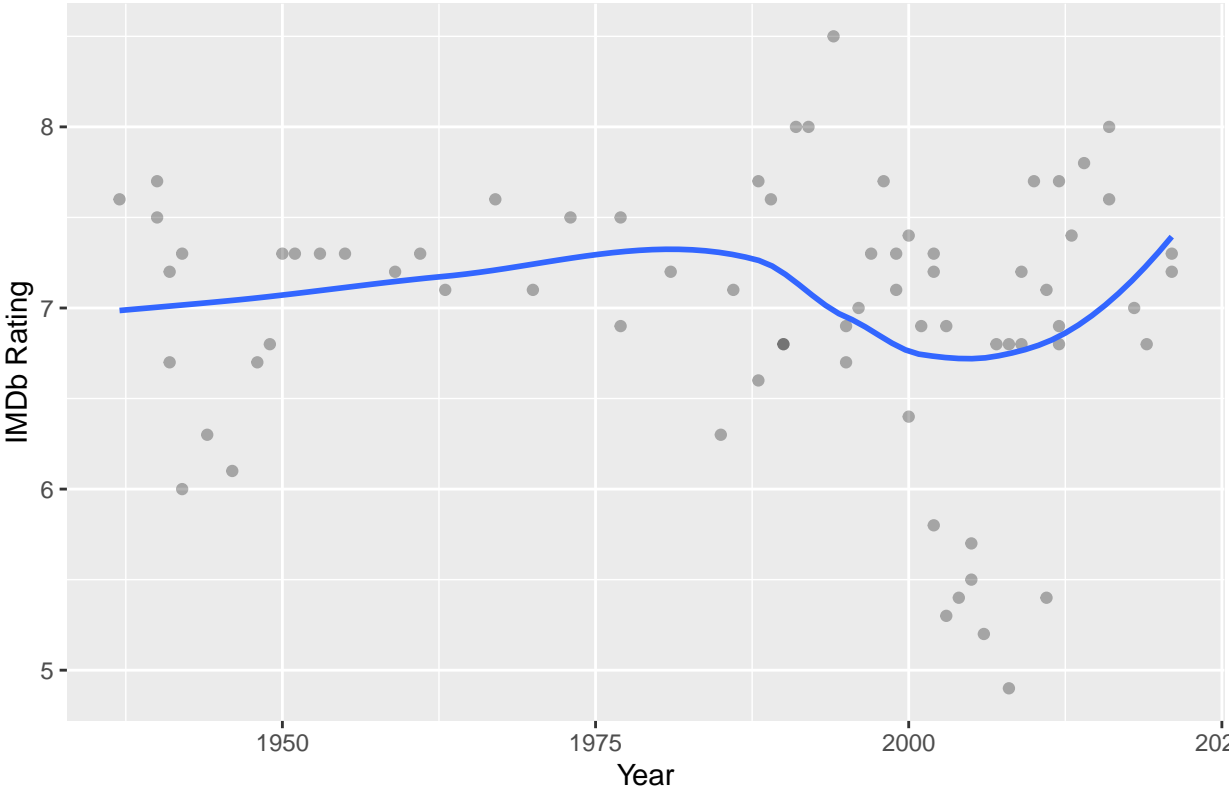
Distribution of IMDb Ratings



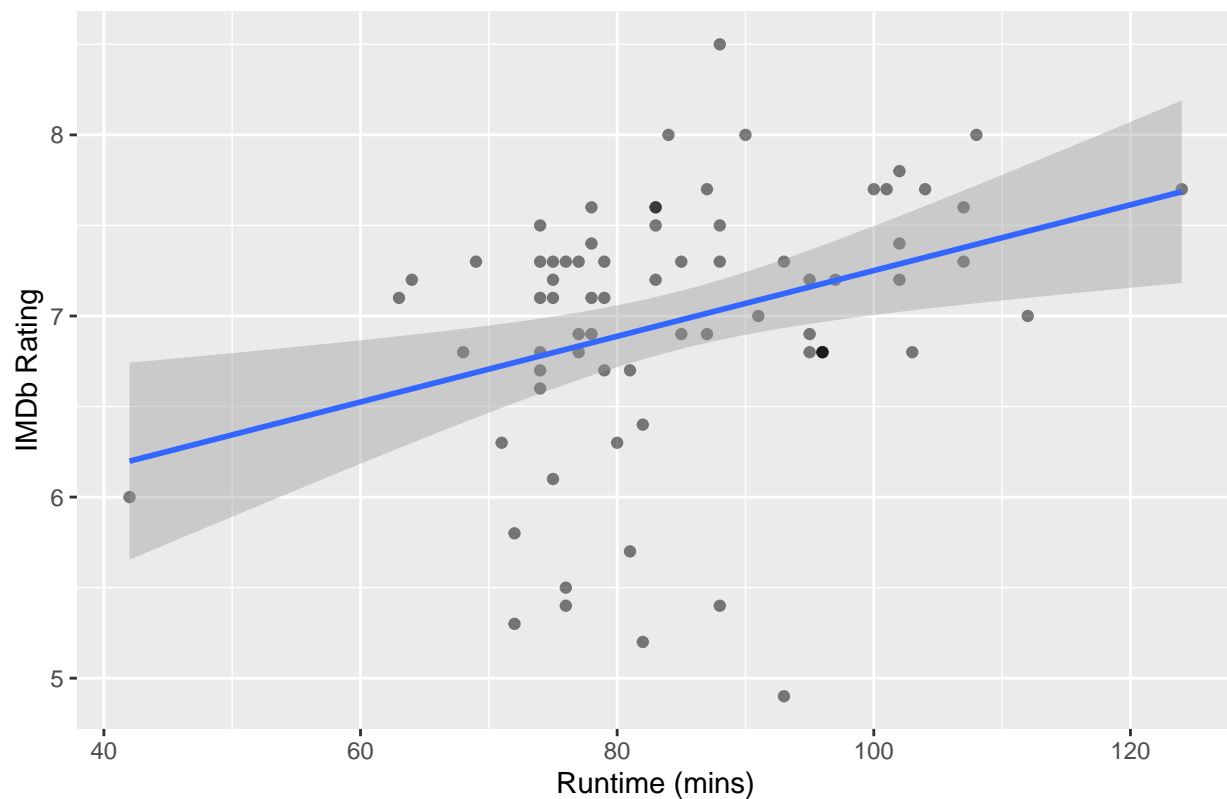
Distribution of IMDB Runtimes



IMDb Rating Trends Over Time



Correlation: Runtime vs IMDb Rating



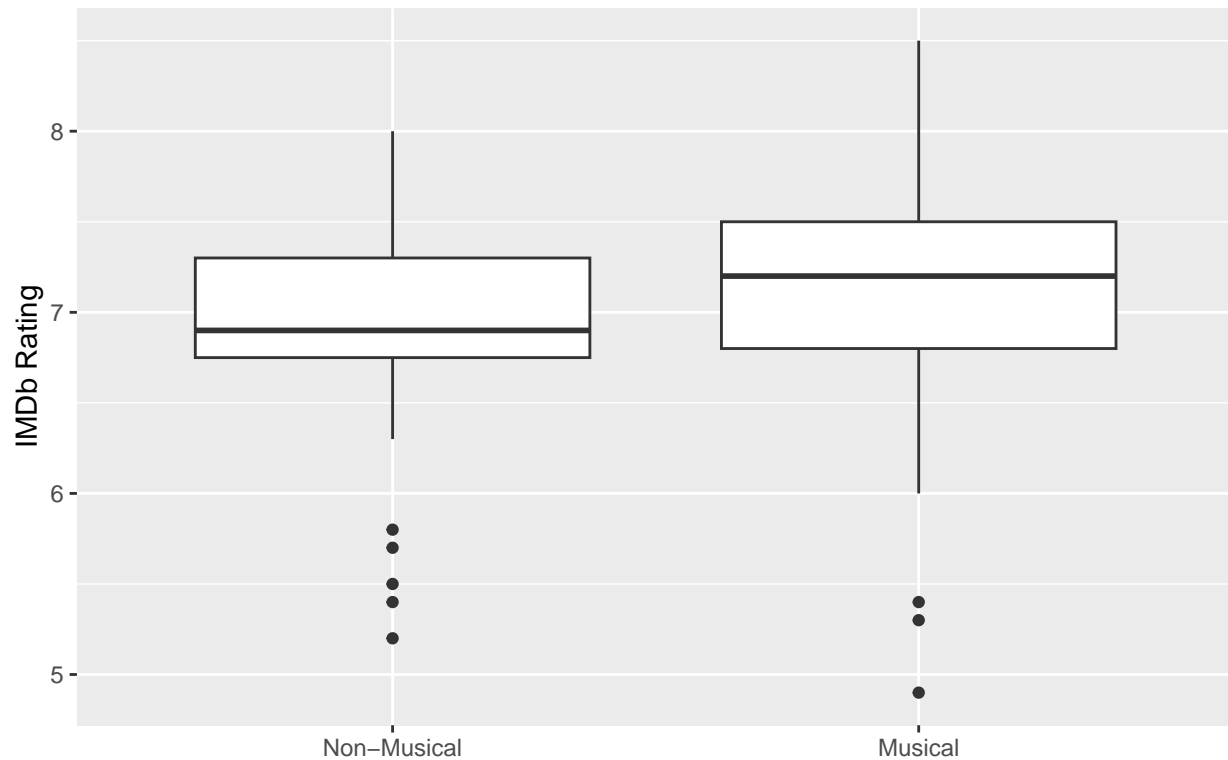
```
##
## Pearson's product-moment correlation
##
## data: movies$`IMDb Rating` and movies$`Runtime (mins)`
## t = 2.9773, df = 70, p-value = 0.003992
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.1123165 0.5260704
## sample estimates:
##      cor
## 0.3352615

##
## Welch Two Sample t-test
##
## data: IMDb Rating by is_comedy
## t = 0.69187, df = 47.664, p-value = 0.4924
## alternative hypothesis: true difference in means between group FALSE and group TRUE is not equal to 0
## 95 percent confidence interval:
## -0.2322774 0.4759332
## sample estimates:
## mean in group FALSE mean in group TRUE
##      7.056522      6.934694

##
## Welch Two Sample t-test
##
```

```
## data: IMDb Rating by is_musical
## t = -1.3596, df = 65.698, p-value = 0.1786
## alternative hypothesis: true difference in means between group FALSE and group TRUE is not equal to 0
## 95 percent confidence interval:
## -0.5708318 0.1083614
## sample estimates:
## mean in group FALSE mean in group TRUE
## 6.841935 7.073171
```

IMDb Ratings: Musicals vs Non-Musicals



More Advanced Stats

```
## # A tibble: 4 x 2
##   genre_group n
##   <chr>      <int>
## 1 Action      7
## 2 Comedy     37
## 3 Drama      16
## 4 Other      12

##           Df Sum Sq Mean Sq F value Pr(>F)
## genre_group 3   1.16  0.3868   0.734  0.535
## Residuals 68  35.82  0.5268
```