

# How film length, genre and budget affect a film's reception among audiences

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## Keywords

- Film
- Genre
- Budget
- Linear Regression
- Title

## Abstract

In this report, I will be looking at the various factors that influence a film's reception among audiences. Using the 'ggplot2movies' packages, I will be looking at the dataset 'movies' and filtering the dataset to include relevant variables such as — title, rating, genre, and budget. Then I will run an analysis to identify the variables that affect a film's reception among audiences. After completing the analysis, I concluded that ...

## Introduction

Many factors can influence an audience's reaction to a film. Various variables such as the length of the film, the genre, budget can influence the film's reception. This poses the interesting question — how does a film's length, genre and budget affect its reception among audiences?

In the report, I will investigate this question by taking a deep look at the interplay between all the factors. I began the analysis by cleaning the 'ggplot2movies' data so that it only includes variables of interest such as — film title, film length, film rating, and film budget.

Since some of the variables I listed above do not contain information for some important variables, I deleted those entries so that all films in the dataset are analyzed from the same standpoint.

I began the analysis by looking at the variable budget. I conducted a linear regression and using p-value I determined that [...]. Next, I looked at various film genres. [List rest of variables and the work that I did with them. ]

With the results from the analysis discussed above, I concluded that []

In the rest of this report, I will begin by looking at the data, showing my analysis, and then a conclusion.

## Data

```
library(ggplot2movies)
head(movies)
```

```
##           title year length budget rating votes   r1   r2   r3   r4
## 1           $ 1971    121     NA    6.4    348  4.5  4.5  4.5  4.5
```

```

## 2      $1000 a Touchdown 1939      71      NA      6.0      20 0.0 14.5 4.5 24.5
## 3    $21 a Day Once a Month 1941      7      NA      8.2      5 0.0 0.0 0.0 0.0
## 4      $40,000 1996      70      NA      8.2      6 14.5 0.0 0.0 0.0
## 5 $50,000 Climax Show, The 1975      71      NA      3.4     17 24.5 4.5 0.0 14.5
## 6      $pent 2000      91      NA      4.3     45 4.5 4.5 4.5 14.5
##      r5      r6      r7      r8      r9      r10 mpaa Action Animation Comedy Drama Documentary
## 1 14.5 24.5 24.5 14.5 4.5 4.5      0      0      1      1      0
## 2 14.5 14.5 14.5 4.5 4.5 14.5      0      0      1      0      0
## 3 0.0 24.5 0.0 44.5 24.5 24.5      0      1      0      0      0
## 4 0.0 0.0 0.0 0.0 34.5 45.5      0      0      1      0      0
## 5 14.5 4.5 0.0 0.0 0.0 24.5      0      0      0      0      0
## 6 14.5 14.5 4.5 4.5 14.5 14.5      0      0      0      1      0
##      Romance Short
## 1      0      0
## 2      0      0
## 3      0      1
## 4      0      0
## 5      0      0
## 6      0      0

```

## Analysis

Show analysis of data

## Results

Show what we concluded from our analysis

## Appendix

Show all lines of code and extraneous graphs