

```
#                                     "HULU Show Popularity"
#                                     IST687 Final Group Project
#                                     Ceara Stewart, Randy Garcia, Kawshif Muhammed and Caitlin Rookey
```

#First we compiled all of the packages we needed for our project and read them in.

```
library(tidyverse)
```

```
## — Attaching packages ————— tidyverse 1.3.2 —
## ✓ ggplot2 3.4.0     ✓ purrr   0.3.5
## ✓ tibble  3.1.8     ✓ dplyr   1.0.10
## ✓ tidyr   1.2.1     ✓ stringr 1.4.1
## ✓ readr   2.1.3     ✓ forcats 0.5.2
```

```
## Warning: package 'ggplot2' was built under R version 4.2.2
```

```
## — Conflicts ————— tidyverse_conflicts() —
## ✘ dplyr::filter() masks stats::filter()
## ✘ dplyr::lag()   masks stats::lag()
```

```
library(lubridate)
```

```
##
## Attaching package: 'lubridate'
##
## The following objects are masked from 'package:base':
##
##     date, intersect, setdiff, union
```

```
library(dplyr)
library(dbplyr)
```

```
##
## Attaching package: 'dbplyr'
##
## The following objects are masked from 'package:dplyr':
##
##     ident, sql
```

```
library(ggplot2)
```

#We read in the csv file and stored it in a data frame called Hulu\_df

```
Hulu_df <- read.csv("https://query.data.world/s/oqtljo17xuh3bfni7wkkr3ehfpvs5", header=TRUE, stringsAsFactors=FALSE);summary(Hulu_df)
```

```

##   show.id      show.cache_time    show.canonical_name show.clips_count
## Min. : 10      Length:1000        Length:1000        Min. : 0.0
## 1st Qu.: 2324  Class :character  Class :character   1st Qu.: 1.0
## Median : 7889  Mode  :character  Mode  :character   Median : 38.5
## Mean   :10497
## 3rd Qu.:17312
## Max.  :29524
## 
##   show.description   show.episodes_count show.feature_films_count
## Length:1000          Min. : 0.0        Min. :0
## Class :character     1st Qu.: 24.0     1st Qu.:0
## Mode  :character     Median : 86.0     Median :0
##                  Mean  :117.2      Mean  :0
##                  3rd Qu.:156.0     3rd Qu.:0
##                  Max. :747.0      Max. :0
## 
##   show.film_clips_count show.genre       show.genres      show.is_movie
## Min. :0              Length:1000        Length:1000        Mode :logical
## 1st Qu.:0             Class :character  Class :character  FALSE:1000
## Median :0             Mode  :character  Mode  :character
## Mean   :0
## 3rd Qu.:0
## Max.  :0
## 
##   show.is_showtime_only show.is_subscriber_only show.link_description
## Mode :logical         Mode :logical        Length:1000
## FALSE:1000            FALSE:1000          Class :character
##                                     Mode  :character
## 
## 
##   show.name        show.rating      show.seasons_count show.series_id
## Length:1000          Min. :2.193      Min. : 0.00      Min. : 15
## Class :character     1st Qu.:4.023     1st Qu.: 2.00     1st Qu.: 12039
## Mode  :character     Median :4.325     Median : 4.00     Median :50004665
##                  Mean  :4.214      Mean  : 5.31      Mean  :34410752
##                  3rd Qu.:4.552     3rd Qu.: 7.00     3rd Qu.:50014971
##                  Max. :4.796      Max. :26.00      Max. :50027692
## 
##   show.thumbnail_url show.key_art_url   show.type       show.videos_count
## Length:1000          Length:1000        Length:1000        Min. : 1.0
## Class :character     Class :character  Class :character  1st Qu.: 92.0
## Mode  :character     Mode  :character  Mode  :character  Median : 156.0
##                                     Mean  : 347.2
##                                     3rd Qu.: 301.0
##                                     Max. :7443.0
## 
##   show.availability.0 show.availability.1 show.availability.2 show.art_copyright
## Length:1000          Length:1000        Length:1000        Mode:logical
## Class :character     Class :character  Class :character  NA's:1000
## Mode  :character     Mode  :character  Mode  :character
## 
## 
##   show.auth_name  show.is_coppa   show.show_notes.free.availability_text
## Mode:logical        Mode :logical  Length:1000
## NA's:1000           FALSE:846    Class :character

```

```
##          TRUE :154      Mode :character
##
##
##
##  show.show_notes.free.expiration_text show.show_notes.free.notification_text
##  Length:1000                      Length:1000
##  Class :character                 Class :character
##  Mode   :character               Mode   :character
##
##
##
##  show.show_notes.free.promotional_text
##  Length:1000
##  Class :character
##  Mode   :character
##
##
##
##  show.show_notes.subscriber.availability_text
##  Length:1000
##  Class :character
##  Mode   :character
##
##
##
##  show.show_notes.subscriber.expiration_text
##  Length:1000
##  Class :character
##  Mode   :character
##
##
##
##  show.show_notes.subscriber.notification_text
##  Length:1000
##  Class :character
##  Mode   :character
##
##
##
##  show.show_notes.subscriber.promotional_text show.is_web_only
##  Length:1000                      Mode :logical
##  Class :character                 FALSE:1000
##  Mode   :character
##
##
##
##  show.available_package_ids show.company.id  show.company.channel_id
##  Length:1000          Min.   : 2.0  Min.   :    2
##  Class :character        1st Qu.: 8.0  1st Qu.:   24
##  Mode   :character        Median :231.0  Median :   282
##                           Mean   :308.4  Mean   :19400235
##                           3rd Qu.:492.0  3rd Qu.:50000249
```

```
##          Max.    :1010.0    Max.    :500000798
## show.company.name  show.company.short_name show.company.canonical_name
## Length:1000        Length:1000        Length:1000
## Class :character   Class :character   Class :character
## Mode  :character   Mode  :character   Mode  :character
##
##          Max.    :1010.0    Max.    :500000798
## show.company.key_art_url show.company.network_logo_url
## Length:1000        Length:1000
## Class :character   Class :character
## Mode  :character   Mode  :character
##
##          Max.    :1010.0    Max.    :500000798
## show.company.has_logo_url show.show_rollups.free.clips_count
## Mode :logical       Min.    :  0.0
## FALSE:339           1st Qu.:  0.0
## TRUE :661            Median : 12.0
##                           Mean   : 210.2
##                           3rd Qu.: 99.0
##                           Max.   :7065.0
##          Max.    :1010.0    Max.    :500000798
## show.show_rollups.free.episodes_count
## Min.    :  0.00
## 1st Qu.:  0.00
## Median :  0.00
## Mean   : 33.76
## 3rd Qu.:  5.00
## Max.   :747.00
##          Max.    :1010.0    Max.    :500000798
## show.show_rollups.free.feature_films_count
## Min.    :  0
## 1st Qu.:  0
## Median :  0
## Mean   : 0
## 3rd Qu.:  0
## Max.   : 0
##          Max.    :1010.0    Max.    :500000798
## show.show_rollups.free.film_clips_count
## Min.    :  0
## 1st Qu.:  0
## Median :  0
## Mean   : 0
## 3rd Qu.:  0
## Max.   : 0
##          Max.    :1010.0    Max.    :500000798
## show.show_rollups.free.film_trailers_count show.show_rollups.free.games_count
## Min.    :  0           Min.    :  0
## 1st Qu.:  0           1st Qu.:  0
## Median :  0           Median :  0
## Mean   : 0           Mean   :  0
## 3rd Qu.:  0           3rd Qu.:  0
## Max.   : 0           Max.   :  0
##          Max.    :1010.0    Max.    :500000798
## show.show_rollups.free.released_at show.show_rollups.free.seasons_count
## Length:1000        Min.    : 0.000
```

```
##  Class :character          1st Qu.: 0.000
##  Mode   :character        Median : 0.000
##                                         Mean   : 1.141
##                                         3rd Qu.: 1.000
##                                         Max.    :26.000
##  show.show_rollups.free.videos_count
##  Min.   : 0.0
##  1st Qu.: 0.0
##  Median : 26.0
##  Mean   :243.9
##  3rd Qu.:159.2
##  Max.   :7070.0
##  show.show_rollups.free.latest_video_added_at
##  Length:1000
##  Class :character
##  Mode   :character
##
##
##
##  show.show_rollups.free.html5_clips_count
##  Min.   : 0.0
##  1st Qu.: 0.0
##  Median : 11.0
##  Mean   :192.3
##  3rd Qu.: 65.0
##  Max.   :7061.0
##  show.show_rollups.free.html5_episodes_count
##  Min.   : 0.00
##  1st Qu.: 0.00
##  Median : 0.00
##  Mean   : 20.53
##  3rd Qu.: 0.00
##  Max.   :732.00
##  show.show_rollups.free.html5_games_count
##  Min.   :0
##  1st Qu.:0
##  Median :0
##  Mean   :0
##  3rd Qu.:0
##  Max.   :0
##  show.show_rollups.free.html5_feature_films_count
##  Min.   :0
##  1st Qu.:0
##  Median :0
##  Mean   :0
##  3rd Qu.:0
##  Max.   :0
##  show.show_rollups.free.html5_film_clips_count
##  Min.   :0
##  1st Qu.:0
##  Median :0
##  Mean   :0
```

```
## 3rd Qu.:0
## Max. :0
## show.show_rollups.free.html5_film_trailers_count
## Min. :0
## 1st Qu.:0
## Median :0
## Mean :0
## 3rd Qu.:0
## Max. :0
## show.show_rollups.free.html5_videos_count
## Min. : 0.0
## 1st Qu.: 0.0
## Median : 18.0
## Mean : 212.8
## 3rd Qu.: 134.5
## Max. :7061.0
## show.show_rollups.free.non_rating_videos_count
## Min. :0.000
## 1st Qu.:0.000
## Median :0.000
## Mean :0.055
## 3rd Qu.:0.000
## Max. :2.000
## show.show_rollups.free.highest_rating show.show_rollups.subscriber.clips_count
## Length:1000 Min. : 0.0
## Class :character 1st Qu.: 1.0
## Mode :character Median : 38.5
## Mean : 229.9
## 3rd Qu.: 155.0
## Max. :7073.0
## show.show_rollups.subscriber.episodes_count
## Min. : 0.0
## 1st Qu.: 24.0
## Median : 86.0
## Mean :116.9
## 3rd Qu.:156.0
## Max. :747.0
## show.show_rollups.subscriber.feature_films_count
## Min. :0
## 1st Qu.:0
## Median :0
## Mean :0
## 3rd Qu.:0
## Max. :0
## show.show_rollups.subscriber.film_clips_count
## Min. :0
## 1st Qu.:0
## Median :0
## Mean :0
## 3rd Qu.:0
## Max. :0
## show.show_rollups.subscriber.film_trailers_count
```

```
## Min. :0
## 1st Qu.:0
## Median :0
## Mean   :0
## 3rd Qu.:0
## Max.   :0
## show.show_rollups.subscriber.games_count
## Min. :0
## 1st Qu.:0
## Median :0
## Mean   :0
## 3rd Qu.:0
## Max.   :0
## show.show_rollups.subscriber.released_at
## Length:1000
## Class :character
## Mode   :character
##
##
##
## show.show_rollups.subscriber.seasons_count
## Min.  : 0.00
## 1st Qu.: 2.00
## Median : 4.00
## Mean   : 5.29
## 3rd Qu.: 7.00
## Max.   :26.00
## show.show_rollups.subscriber.videos_count
## Min.  : 1.0
## 1st Qu.: 92.0
## Median : 156.0
## Mean   : 346.9
## 3rd Qu.: 301.0
## Max.   :7443.0
## show.show_rollups.subscriber.latest_video_added_at
## Length:1000
## Class :character
## Mode   :character
##
##
##
## show.show_rollups.subscriber.html5_clips_count
## Min.  : 0.0
## 1st Qu.: 0.0
## Median : 33.0
## Mean   : 211.9
## 3rd Qu.: 139.0
## Max.   :7066.0
## show.show_rollups.subscriber.html5_episodes_count
## Min.  : 0.00
## 1st Qu.: 0.00
## Median : 0.00
```

```
##  Mean    : 41.03
##  3rd Qu.:  0.00
##  Max.   :732.00
##  show.show_rollups.subscriber.html5_games_count
##  Min.    :0
##  1st Qu.:0
##  Median  :0
##  Mean    :0
##  3rd Qu.:0
##  Max.   :0
##  show.show_rollups.subscriber.html5_feature_films_count
##  Min.    :0
##  1st Qu.:0
##  Median  :0
##  Mean    :0
##  3rd Qu.:0
##  Max.   :0
##  show.show_rollups.subscriber.html5_film_clips_count
##  Min.    :0
##  1st Qu.:0
##  Median  :0
##  Mean    :0
##  3rd Qu.:0
##  Max.   :0
##  show.show_rollups.subscriber.html5_film_trailers_count
##  Min.    :0
##  1st Qu.:0
##  Median  :0
##  Mean    :0
##  3rd Qu.:0
##  Max.   :0
##  show.show_rollups.subscriber.html5_videos_count
##  Min.    :  0.0
##  1st Qu.:  0.0
##  Median  : 65.0
##  Mean    : 252.9
##  3rd Qu.: 198.8
##  Max.   :7066.0
##  show.show_rollups.subscriber.non_rating_videos_count
##  Min.    : 0.000
##  1st Qu.: 0.000
##  Median  : 0.000
##  Mean    : 7.167
##  3rd Qu.: 0.000
##  Max.   :218.000
##  show.show_rollups.subscriber.highest_rating
##  Length:1000
##  Class  :character
##  Mode   :character
##
```

```
## show.show_rollups.current.clips_count show.show_rollups.current.episodes_count
## Min. : 0.0                               Min. : 0.0
## 1st Qu.: 1.0                             1st Qu.: 24.0
## Median : 38.5                            Median : 86.0
## Mean   : 229.9                           Mean   :116.9
## 3rd Qu.: 155.0                           3rd Qu.:156.0
## Max.  :7073.0                           Max.  :747.0
## show.show_rollups.current.feature_films_count
## Min. :0
## 1st Qu.:0
## Median :0
## Mean   :0
## 3rd Qu.:0
## Max.  :0
## show.show_rollups.current.film_clips_count
## Min. :0
## 1st Qu.:0
## Median :0
## Mean   :0
## 3rd Qu.:0
## Max.  :0
## show.show_rollups.current.film_trailers_count
## Min. :0
## 1st Qu.:0
## Median :0
## Mean   :0
## 3rd Qu.:0
## Max.  :0
## show.show_rollups.current.games_count show.show_rollups.current.released_at
## Min. :0                                     Length:1000
## 1st Qu.:0                                    Class :character
## Median :0                                    Mode  :character
## Mean   :0
## 3rd Qu.:0
## Max.  :0
## show.show_rollups.current.seasons_count show.show_rollups.current.videos_count
## Min. : 0.00                                Min. : 1.0
## 1st Qu.: 2.00                               1st Qu.: 92.0
## Median : 4.00                               Median : 156.0
## Mean   : 5.29                               Mean   : 346.9
## 3rd Qu.: 7.00                               3rd Qu.: 301.0
## Max.  :26.00                               Max.  :7443.0
## show.show_rollups.current.latest_video_added_at
## Length:1000
## Class :character
## Mode  :character
##
##
##
## show.show_rollups.current.html5_clips_count
## Min. : 0.0
## 1st Qu.: 0.0
```

```
## Median : 33.0
## Mean    : 211.9
## 3rd Qu.: 139.0
## Max.   :7066.0
## show.show_rollups.current.html5_episodes_count
## Min.   : 0.00
## 1st Qu.: 0.00
## Median : 0.00
## Mean    : 41.03
## 3rd Qu.: 0.00
## Max.   :732.00
## show.show_rollups.current.html5_games_count
## Min.   :0
## 1st Qu.:0
## Median :0
## Mean    :0
## 3rd Qu.:0
## Max.   :0
## show.show_rollups.current.html5_feature_films_count
## Min.   :0
## 1st Qu.:0
## Median :0
## Mean    :0
## 3rd Qu.:0
## Max.   :0
## show.show_rollups.current.html5_film_clips_count
## Min.   :0
## 1st Qu.:0
## Median :0
## Mean    :0
## 3rd Qu.:0
## Max.   :0
## show.show_rollups.current.html5_film_trailers_count
## Min.   :0
## 1st Qu.:0
## Median :0
## Mean    :0
## 3rd Qu.:0
## Max.   :0
## show.show_rollups.current.html5_videos_count
## Min.   : 0.0
## 1st Qu.: 0.0
## Median : 65.0
## Mean    : 252.9
## 3rd Qu.: 198.8
## Max.   :7066.0
## show.show_rollups.current.non_rating_videos_count
## Min.   : 0.000
## 1st Qu.: 0.000
## Median : 0.000
## Mean    : 7.167
## 3rd Qu.: 0.000
```

```
## Max.    :218.000
## show.show_rollups.current.highest_rating
## Length:1000
## Class  :character
## Mode   :character
##
##
##
## show.show_rollups.free_on_web.clips_count
## Min.    : 0.0
## 1st Qu.: 0.0
## Median : 12.0
## Mean    : 210.2
## 3rd Qu.: 99.0
## Max.    :7065.0
## show.show_rollups.free_on_web.episodes_count
## Min.    : 0.00
## 1st Qu.: 0.00
## Median : 0.00
## Mean    : 33.76
## 3rd Qu.: 5.00
## Max.    :747.00
## show.show_rollups.free_on_web.feature_films_count
## Min.    :0
## 1st Qu.:0
## Median :0
## Mean    :0
## 3rd Qu.:0
## Max.    :0
## show.show_rollups.free_on_web.film_clips_count
## Min.    :0
## 1st Qu.:0
## Median :0
## Mean    :0
## 3rd Qu.:0
## Max.    :0
## show.show_rollups.free_on_web.film_trailers_count
## Min.    :0
## 1st Qu.:0
## Median :0
## Mean    :0
## 3rd Qu.:0
## Max.    :0
## show.show_rollups.free_on_web.games_count
## Min.    :0
## 1st Qu.:0
## Median :0
## Mean    :0
## 3rd Qu.:0
## Max.    :0
## show.show_rollups.free_on_web.released_at
## Length:1000
```

```
##  Class :character
##  Mode   :character
##
##
##  show.show_rollups.free_on_web.seasons_count
##  Min.    : 0.000
##  1st Qu.: 0.000
##  Median  : 0.000
##  Mean    : 1.141
##  3rd Qu.: 1.000
##  Max.    :26.000
##  show.show_rollups.free_on_web.videos_count
##  Min.    :  0
##  1st Qu.:  0
##  Median : 26.0
##  Mean   : 243.9
##  3rd Qu.: 159.2
##  Max.   :7070.0
##  show.show_rollups.free_on_web.latest_video_added_at
##  Length:1000
##  Class :character
##  Mode   :character
##
##
##  show.show_rollups.free_on_web.html5_clips_count
##  Min.    : 0.0
##  1st Qu.: 0.0
##  Median : 11.0
##  Mean   : 192.3
##  3rd Qu.: 65.0
##  Max.   :7061.0
##  show.show_rollups.free_on_web.html5_episodes_count
##  Min.    : 0.00
##  1st Qu.: 0.00
##  Median : 0.00
##  Mean   : 20.53
##  3rd Qu.: 0.00
##  Max.   :732.00
##  show.show_rollups.free_on_web.html5_games_count
##  Min.    :0
##  1st Qu.:0
##  Median :0
##  Mean   :0
##  3rd Qu.:0
##  Max.   :0
##  show.show_rollups.free_on_web.html5_feature_films_count
##  Min.    :0
##  1st Qu.:0
##  Median :0
##  Mean   :0
```

```
## 3rd Qu.:0
## Max. :0
## show.show_rollups.free_on_web.html5_film_clips_count
## Min. :0
## 1st Qu.:0
## Median :0
## Mean :0
## 3rd Qu.:0
## Max. :0
## show.show_rollups.free_on_web.html5_film_trailers_count
## Min. :0
## 1st Qu.:0
## Median :0
## Mean :0
## 3rd Qu.:0
## Max. :0
## show.show_rollups.free_on_web.html5_videos_count
## Min. : 0.0
## 1st Qu.: 0.0
## Median : 18.0
## Mean : 212.8
## 3rd Qu.: 134.5
## Max. :7061.0
## show.show_rollups.free_on_web.non_rating_videos_count
## Min. :0.000
## 1st Qu.:0.000
## Median :0.000
## Mean :0.055
## 3rd Qu.:0.000
## Max. :2.000
## show.show_rollups.free_on_web.highest_rating
## Length:1000
## Class :character
## Mode :character
##
##
##
## show.show_rollups.subscriber_on_device.clips_count
## Min. : 0.0
## 1st Qu.: 1.0
## Median : 38.5
## Mean : 229.9
## 3rd Qu.: 155.0
## Max. :7073.0
## show.show_rollups.subscriber_on_device.episodes_count
## Min. : 0.0
## 1st Qu.: 24.0
## Median : 86.0
## Mean :116.9
## 3rd Qu.:156.0
## Max. :747.0
## show.show_rollups.subscriber_on_device.feature_films_count
```

```
## Min. :0
## 1st Qu.:0
## Median :0
## Mean   :0
## 3rd Qu.:0
## Max.   :0
## show.show_rollups.subscriber_on_device.film_clips_count
## Min. :0
## 1st Qu.:0
## Median :0
## Mean   :0
## 3rd Qu.:0
## Max.   :0
## show.show_rollups.subscriber_on_device.film_trailers_count
## Min. :0
## 1st Qu.:0
## Median :0
## Mean   :0
## 3rd Qu.:0
## Max.   :0
## show.show_rollups.subscriber_on_device.games_count
## Min. :0
## 1st Qu.:0
## Median :0
## Mean   :0
## 3rd Qu.:0
## Max.   :0
## show.show_rollups.subscriber_on_device.released_at
## Length:1000
## Class :character
## Mode  :character
##
##
##
## show.show_rollups.subscriber_on_device.seasons_count
## Min.  : 0.00
## 1st Qu.: 2.00
## Median : 4.00
## Mean   : 5.29
## 3rd Qu.: 7.00
## Max.   :26.00
## show.show_rollups.subscriber_on_device.videos_count
## Min.  : 1.0
## 1st Qu.: 92.0
## Median : 156.0
## Mean   : 346.9
## 3rd Qu.: 301.0
## Max.   :7443.0
## show.show_rollups.subscriber_on_device.latest_video_added_at
## Length:1000
## Class :character
## Mode  :character
```

```
##  
##  
##  
## show.show_rollups.subscriber_on_device.html5_clips_count  
## Min. : 0.0  
## 1st Qu.: 0.0  
## Median : 33.0  
## Mean : 211.9  
## 3rd Qu.: 139.0  
## Max. : 7066.0  
## show.show_rollups.subscriber_on_device.html5_episodes_count  
## Min. : 0.00  
## 1st Qu.: 0.00  
## Median : 0.00  
## Mean : 41.03  
## 3rd Qu.: 0.00  
## Max. : 732.00  
## show.show_rollups.subscriber_on_device.html5_games_count  
## Min. : 0  
## 1st Qu.: 0  
## Median : 0  
## Mean : 0  
## 3rd Qu.: 0  
## Max. : 0  
## show.show_rollups.subscriber_on_device.html5_feature_films_count  
## Min. : 0  
## 1st Qu.: 0  
## Median : 0  
## Mean : 0  
## 3rd Qu.: 0  
## Max. : 0  
## show.show_rollups.subscriber_on_device.html5_film_clips_count  
## Min. : 0  
## 1st Qu.: 0  
## Median : 0  
## Mean : 0  
## 3rd Qu.: 0  
## Max. : 0  
## show.show_rollups.subscriber_on_device.html5_film_trailers_count  
## Min. : 0  
## 1st Qu.: 0  
## Median : 0  
## Mean : 0  
## 3rd Qu.: 0  
## Max. : 0  
## show.show_rollups.subscriber_on_device.html5_videos_count  
## Min. : 0.0  
## 1st Qu.: 0.0  
## Median : 65.0  
## Mean : 252.9  
## 3rd Qu.: 198.8  
## Max. : 7066.0
```

```
## show.show_rollups.subscriber_on_device.non_rating_videos_count
## Min. : 0.000
## 1st Qu.: 0.000
## Median : 0.000
## Mean : 7.167
## 3rd Qu.: 0.000
## Max. : 218.000
## show.show_rollups.subscriber_on_device.highest_rating
## Length:1000
## Class :character
## Mode :character
##
##
##
## show.show_rollups.auth_on_web.clips_count
## Min. : 0.0
## 1st Qu.: 1.0
## Median : 38.5
## Mean : 229.9
## 3rd Qu.: 155.0
## Max. : 7073.0
## show.show_rollups.auth_on_web.episodes_count
## Min. : 0.0
## 1st Qu.: 24.0
## Median : 86.0
## Mean : 116.9
## 3rd Qu.: 156.0
## Max. : 747.0
## show.show_rollups.auth_on_web.feature_films_count
## Min. : 0
## 1st Qu.: 0
## Median : 0
## Mean : 0
## 3rd Qu.: 0
## Max. : 0
## show.show_rollups.auth_on_web.film_clips_count
## Min. : 0
## 1st Qu.: 0
## Median : 0
## Mean : 0
## 3rd Qu.: 0
## Max. : 0
## show.show_rollups.auth_on_web.film_trailers_count
## Min. : 0
## 1st Qu.: 0
## Median : 0
## Mean : 0
## 3rd Qu.: 0
## Max. : 0
## show.show_rollups.auth_on_web.games_count
## Min. : 0
## 1st Qu.: 0
```

```
## Median :0
## Mean    :0
## 3rd Qu.:0
## Max.   :0
## show.show_rollups.auth_on_web.released_at
## Length:1000
## Class  :character
## Mode   :character
##
##
##
## show.show_rollups.auth_on_web.seasons_count
## Min.   : 0.00
## 1st Qu.: 2.00
## Median : 4.00
## Mean   : 5.29
## 3rd Qu.: 7.00
## Max.   :26.00
## show.show_rollups.auth_on_web.videos_count
## Min.   : 1.0
## 1st Qu.: 92.0
## Median : 156.0
## Mean   : 346.9
## 3rd Qu.: 301.0
## Max.   :7443.0
## show.show_rollups.auth_on_web.latest_video_added_at
## Length:1000
## Class  :character
## Mode   :character
##
##
##
## show.show_rollups.auth_on_web.html5_clips_count
## Min.   : 0.0
## 1st Qu.: 0.0
## Median : 33.0
## Mean   : 211.9
## 3rd Qu.: 139.0
## Max.   :7066.0
## show.show_rollups.auth_on_web.html5_episodes_count
## Min.   : 0.00
## 1st Qu.: 0.00
## Median : 0.00
## Mean   : 41.03
## 3rd Qu.: 0.00
## Max.   :732.00
## show.show_rollups.auth_on_web.html5_games_count
## Min.   :0
## 1st Qu.:0
## Median :0
## Mean   :0
## 3rd Qu.:0
```

```
## Max.    :0
## show.show_rollups.auth_on_web.html5_feature_films_count
## Min.    :0
## 1st Qu.:0
## Median :0
## Mean    :0
## 3rd Qu.:0
## Max.    :0
## show.show_rollups.auth_on_web.html5_film_clips_count
## Min.    :0
## 1st Qu.:0
## Median :0
## Mean    :0
## 3rd Qu.:0
## Max.    :0
## show.show_rollups.auth_on_web.html5_film_trailers_count
## Min.    :0
## 1st Qu.:0
## Median :0
## Mean    :0
## 3rd Qu.:0
## Max.    :0
## show.show_rollups.auth_on_web.html5_videos_count
## Min.    : 0.0
## 1st Qu.: 0.0
## Median : 65.0
## Mean    : 252.9
## 3rd Qu.: 198.8
## Max.    :7066.0
## show.show_rollups.auth_on_web.non_rating_videos_count
## Min.    : 0.000
## 1st Qu.: 0.000
## Median : 0.000
## Mean    : 7.167
## 3rd Qu.: 0.000
## Max.    :218.000
## show.show_rollups.auth_on_web.highest_rating
## Length:1000
## Class :character
## Mode   :character
##
##
##
## show.show_rollups.showtime.clips_count
## Min.    : 0.0
## 1st Qu.: 1.0
## Median : 38.5
## Mean    : 230.0
## 3rd Qu.: 155.0
## Max.    :7073.0
## show.show_rollups.showtime.episodes_count
## Min.    : 0.0
```

```
## 1st Qu.: 24.0
## Median : 86.0
## Mean   :117.2
## 3rd Qu.:156.0
## Max.   :747.0
## show.show_rollups.showtime.feature_films_count
## Min.   :0
## 1st Qu.:0
## Median :0
## Mean   :0
## 3rd Qu.:0
## Max.   :0
## show.show_rollups.showtime.film_clips_count
## Min.   :0
## 1st Qu.:0
## Median :0
## Mean   :0
## 3rd Qu.:0
## Max.   :0
## show.show_rollups.showtime.film_trailers_count
## Min.   :0
## 1st Qu.:0
## Median :0
## Mean   :0
## 3rd Qu.:0
## Max.   :0
## show.show_rollups.showtime.games_count show.show_rollups.showtime.released_at
## Min.   :0                               Length:1000
## 1st Qu.:0                               Class  :character
## Median :0                               Mode   :character
## Mean   :0
## 3rd Qu.:0
## Max.   :0
## show.show_rollups.showtime.seasons_count
## Min.   : 0.00
## 1st Qu.: 2.00
## Median : 4.00
## Mean   : 5.31
## 3rd Qu.: 7.00
## Max.   :26.00
## show.show_rollups.showtime.videos_count
## Min.   :  1.0
## 1st Qu.: 92.0
## Median : 156.0
## Mean   : 347.2
## 3rd Qu.: 301.0
## Max.   :7443.0
## show.show_rollups.showtime.latest_video_added_at
## Length:1000
## Class  :character
## Mode   :character
##
```

```
##  
##  
## show.show_rollups.showtime.html5_clips_count  
## Min. : 0.0  
## 1st Qu.: 0.0  
## Median : 33.0  
## Mean : 211.9  
## 3rd Qu.: 139.0  
## Max. : 7066.0  
## show.show_rollups.showtime.html5_episodes_count  
## Min. : 0.00  
## 1st Qu.: 0.00  
## Median : 0.00  
## Mean : 41.03  
## 3rd Qu.: 0.00  
## Max. : 732.00  
## show.show_rollups.showtime.html5_games_count  
## Min. : 0  
## 1st Qu.: 0  
## Median : 0  
## Mean : 0  
## 3rd Qu.: 0  
## Max. : 0  
## show.show_rollups.showtime.html5_feature_films_count  
## Min. : 0  
## 1st Qu.: 0  
## Median : 0  
## Mean : 0  
## 3rd Qu.: 0  
## Max. : 0  
## show.show_rollups.showtime.html5_film_clips_count  
## Min. : 0  
## 1st Qu.: 0  
## Median : 0  
## Mean : 0  
## 3rd Qu.: 0  
## Max. : 0  
## show.show_rollups.showtime.html5_film_trailers_count  
## Min. : 0  
## 1st Qu.: 0  
## Median : 0  
## Mean : 0  
## 3rd Qu.: 0  
## Max. : 0  
## show.show_rollups.showtime.html5_videos_count  
## Min. : 0.0  
## 1st Qu.: 0.0  
## Median : 65.0  
## Mean : 252.9  
## 3rd Qu.: 198.8  
## Max. : 7066.0  
## show.show_rollups.showtime.non_rating_videos_count
```

```

##  Min.   : 0.000
##  1st Qu.: 0.000
##  Median : 0.000
##  Mean   : 7.167
##  3rd Qu.: 0.000
##  Max.   :218.000
##  show.show_rollups.showtime.highest_rating show.annotations.0
##  Length:1000                           Length:1000
##  Class :character                      Class :character
##  Mode   :character                     Mode  :character
##
##
##
##  show.annotations.1      X
##  Length:1000          Length:1000
##  Class :character    Class :character
##  Mode   :character   Mode  :character
##
##
##

```

#Then we isolated the columns we wanted to work with and updated our data frame to only contain those columns.

```
Hulu_df <- Hulu_df[c(1,2,3,6,9,10,15,16,17,21,39,40,41)]
```

#We then did some data cleaning and removed any spaces and weird symbols and gave our columns better names.

```

colnames(Hulu_df) <- c("showID", "showTime", "showCanonicalName", "showEpisodeCount", "showGenre",
"showSubGenre", "showName", "showRating", "showSeasonsCount", "showType", "showCompanyID", "show
CompanyChannelID", "showCompanyName")

Hulu <- data.frame(Hulu_df$showID, as_datetime(Hulu_df$showTime), Hulu_df$showCanonicalName, Hulu_d
f$showEpisodeCount, Hulu_df$showGenre, Hulu_df$showSubGenre, Hulu_df$showName, Hulu_df$showRatin
g, Hulu_df$showSeasonsCount, Hulu_df$showType, Hulu_df$showCompanyID, Hulu_df$showCompanyChannel
ID, Hulu_df$showCompanyName)

Hulu_df$showType <- gsub(".*~ ?(\w+)", "\1", Hulu_df$showType)

Hulu_df$showSubGenre <- gsub("~", "/", Hulu_df$showSubGenre)

colnames(Hulu) <- c("showID", "showTime", "showCanonicalName", "showEpisodeCount", "showGenre", "sho
wSubGenre", "showName", "showRating", "showSeasonsCount", "showType", "showCompanyID", "showComp
anyChannelID", "showCompanyName")

head(Hulu)

```

```

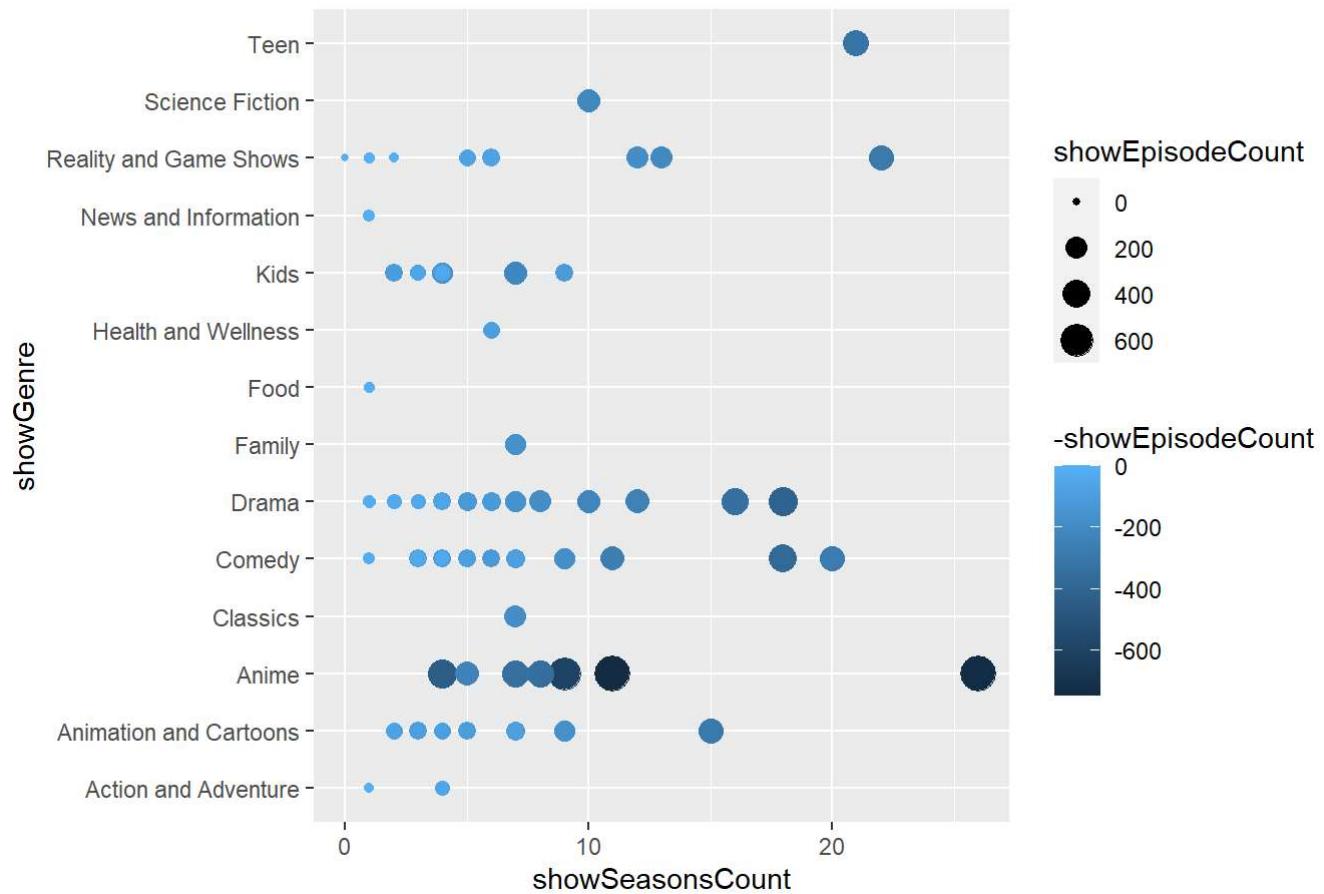
##   showID      showTime      showCanonicalName
## 1      54 2017-08-10 14:53:04      family-guy
## 2     6979 2017-08-10 14:14:33      south-park
## 3      53 2017-08-10 14:46:51      american-dad
## 4     389 2017-08-10 15:00:39 law-and-order-special-victims-unit
## 5    1603 2017-08-10 14:54:31      naruto-shippuden
## 6   23104 2017-08-10 15:20:19      seinfeld
##   showEpisodeCount      showGenre
## 1              288 Animation and Cartoons
## 2              274 Comedy
## 3              172 Comedy
## 4              406 Drama
## 5              597 Anime
## 6              171 Comedy
##
##                                         showSubGenre
## 1 Animation and Cartoons~Primetime Animation|Teen|Comedy~Sitcoms
## 2                     Comedy|Animation and Cartoons~Primetime Animation
## 3             Comedy~Sitcoms|Animation and Cartoons~Primetime Animation
## 4           Drama~Crime and Courtroom Drama|Drama~Mystery
## 5 Anime~Anime - Action Adventure|Action and Adventure|International~Japanese
## 6                                         Comedy~Sitcoms
##   showName showRating showSeasonsCount showType
## 1 Family Guy    4.353707        15   show
## 2 South Park    4.363032        20   show
## 3 American Dad! 4.114007        9   show
## 4 Law & Order: Special Victims Unit 4.622856       18   show
## 5 Naruto Shippuden 4.400626        9   show
## 6 Seinfeld      4.366506        9   show
##   showCompanyID showCompanyChannelID      showCompanyName
## 1            8                  2          FOX
## 2           99                 129 Comedy Central
## 3            10                 45 Fox Television Classics
## 4            2                  24          NBC
## 5          960                50000741      Viz Media
## 6          603                50000375 Sony Pictures Television

```

#With our data cleaned up, we decided to look at some data via plots and histograms. We looked at columns versus their count to see what aspects of certain columns were, among themselves, most popular.

```
ggplot(Hulu,aes(x = showSeasonsCount, y = showGenre)) + geom_point(aes(color = -showEpisodeCount, size = showEpisodeCount)) + ggtitle("Most Popular Show Genres by Season Episode count")
```

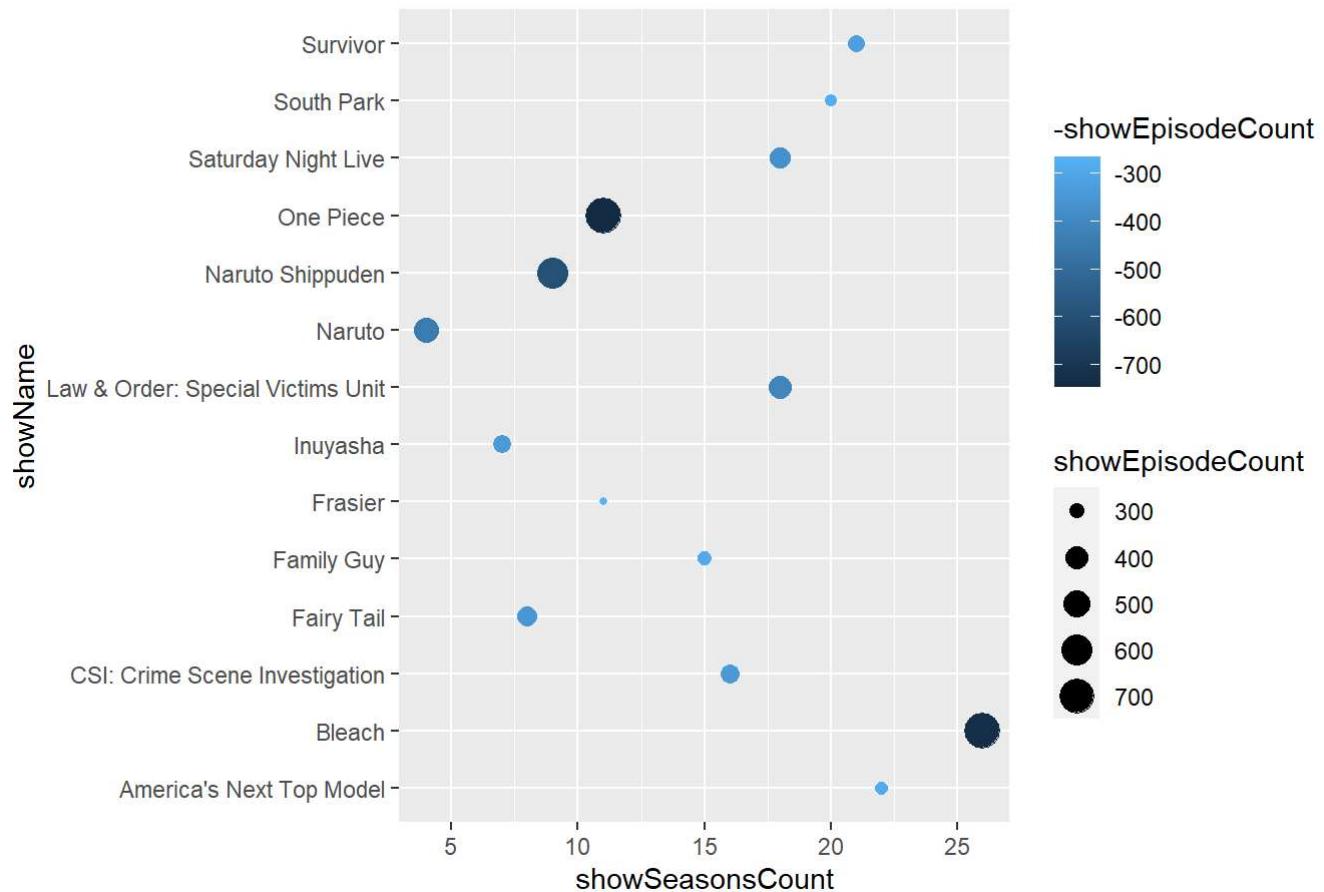
## Most Popular Show Genres by Season Episode count



```
Hulu25 <- Hulu[Hulu$showEpisodeCount >= 250, ]
```

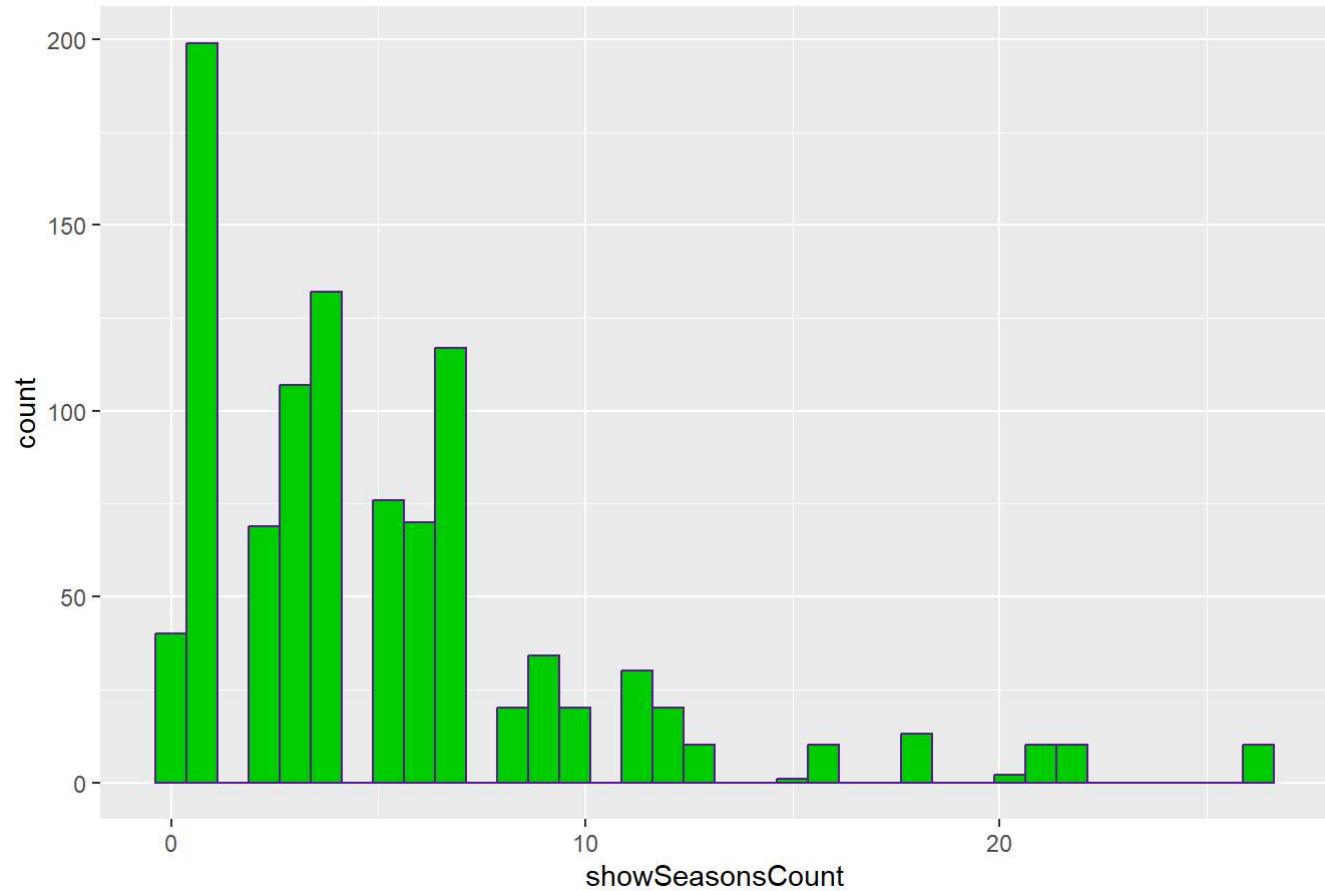
```
ggplot(Hulu25,aes(x = showSeasonsCount, y = showName)) + geom_point(aes(color = -showEpisodeCount, size = showEpisodeCount)) + ggtitle("Most Popular Shows by Season Episode count")
```

## Most Popular Shows by Season Episode count



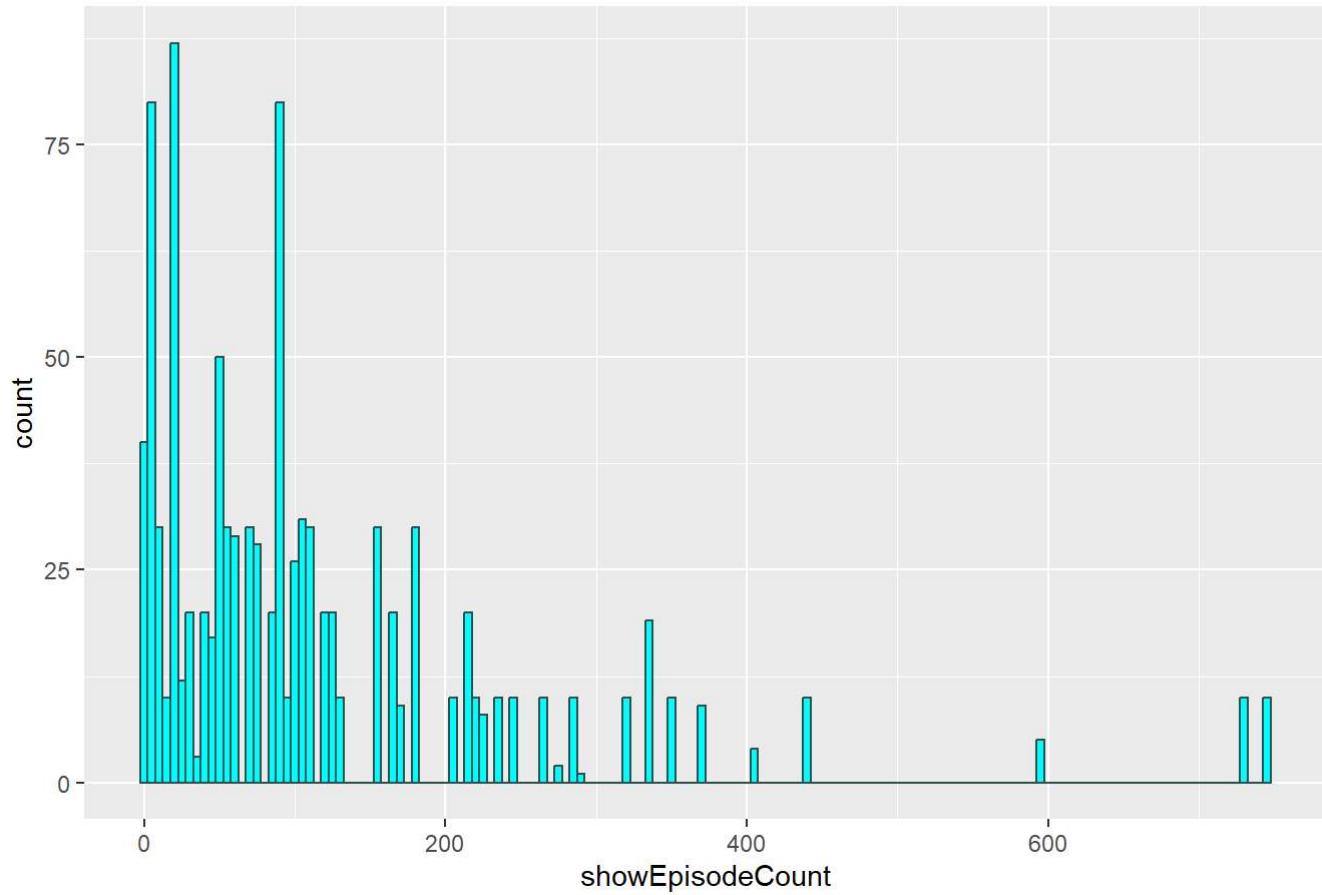
```
ggplot(Hulu,aes(x = showSeasonsCount)) + geom_histogram(binwidth = .75, fill = "green3", color = "purple4") + ggtitle("Show Seasons Count")
```

## Show Seasons Count



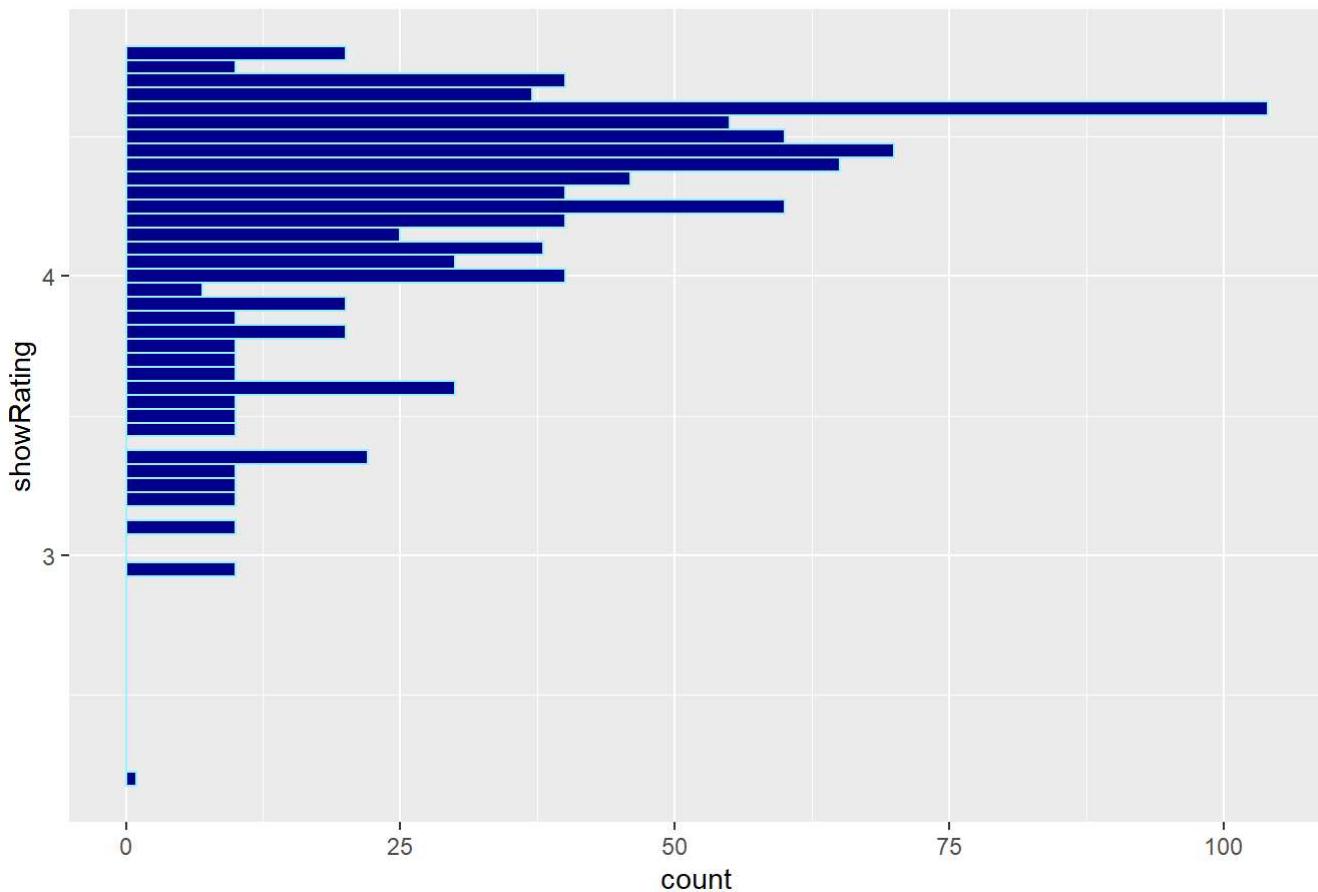
```
ggplot(Hulu,aes(x = showEpisodeCount)) + geom_histogram(binwidth = 5, fill = "cyan", color = "darkslategray") + ggtitle("Show Episode Count")
```

## Show Episode Count



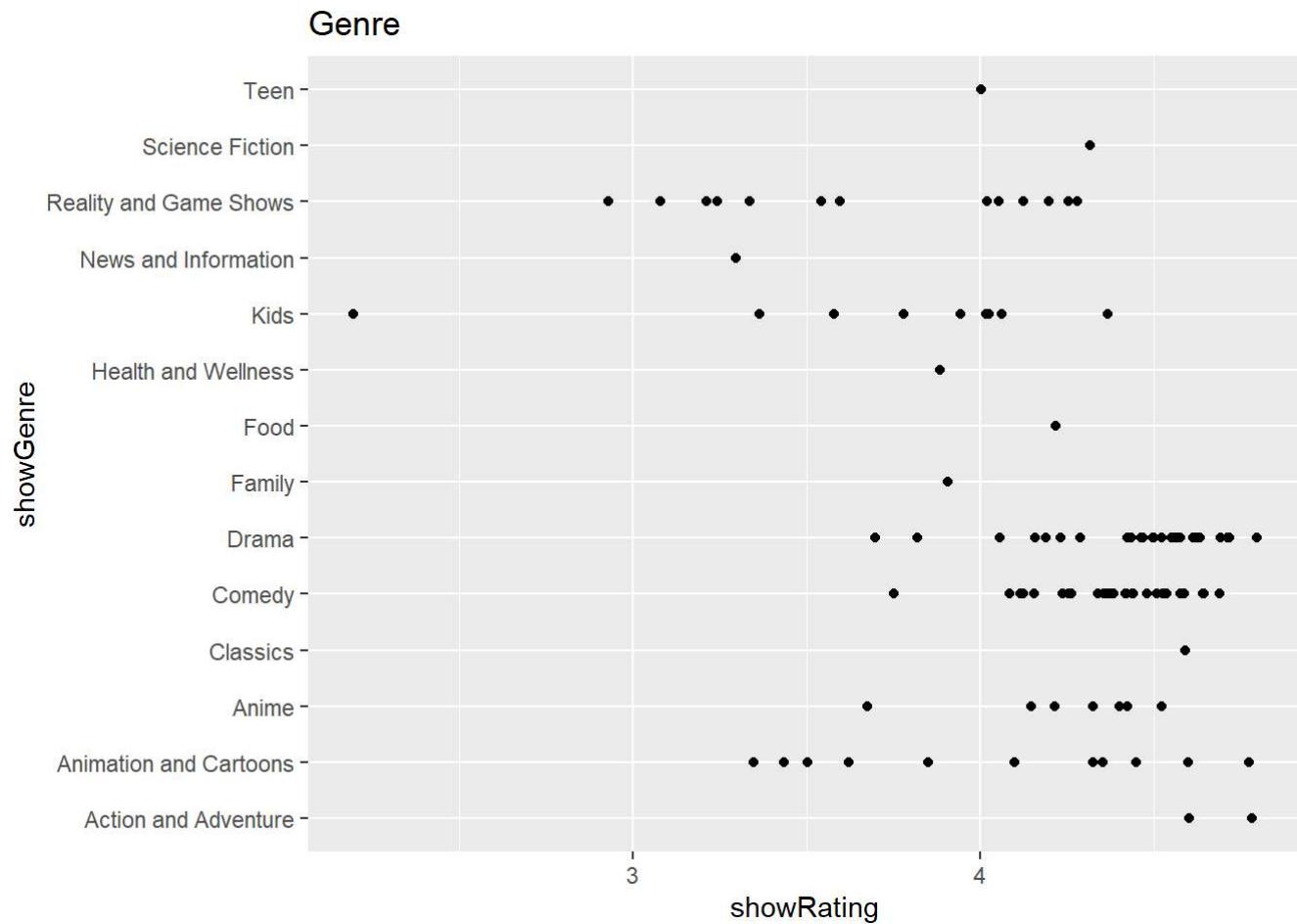
```
ggplot(Hulu,aes(y = showRating)) + geom_histogram(binwidth = .05, fill = "blue4", color = "cadet blue1") + ggtitle("Show Rating")
```

## Show Rating



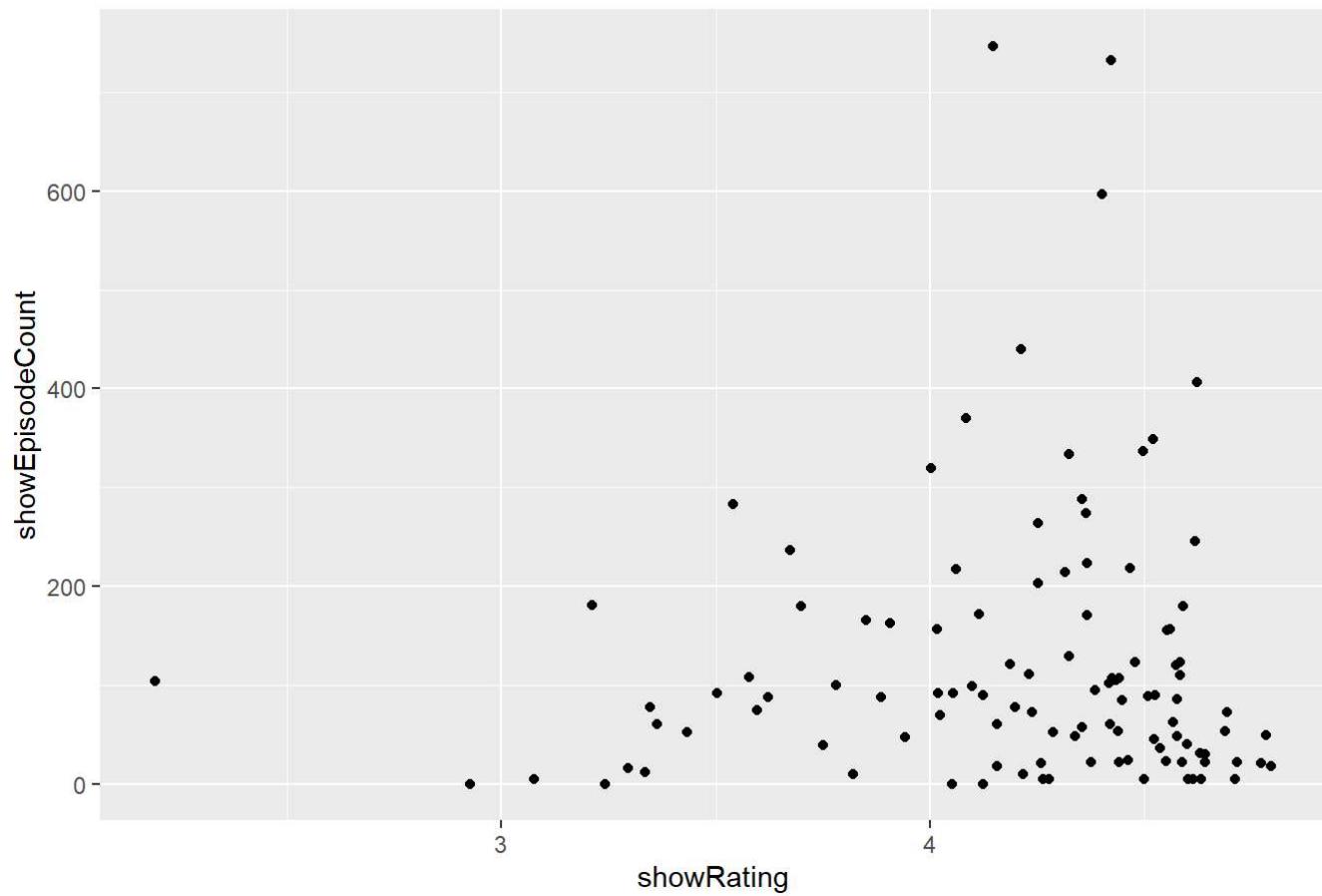
#Next we decided to plot certain data against each other to see if there were any columns that might affect each other. Since we are interested in what affects show rating, we plotted various other columns against show rating.

```
ggplot(Hulu, (aes(x=showRating, y=showGenre)))+ geom_point() + ggttitle("Genre")
```



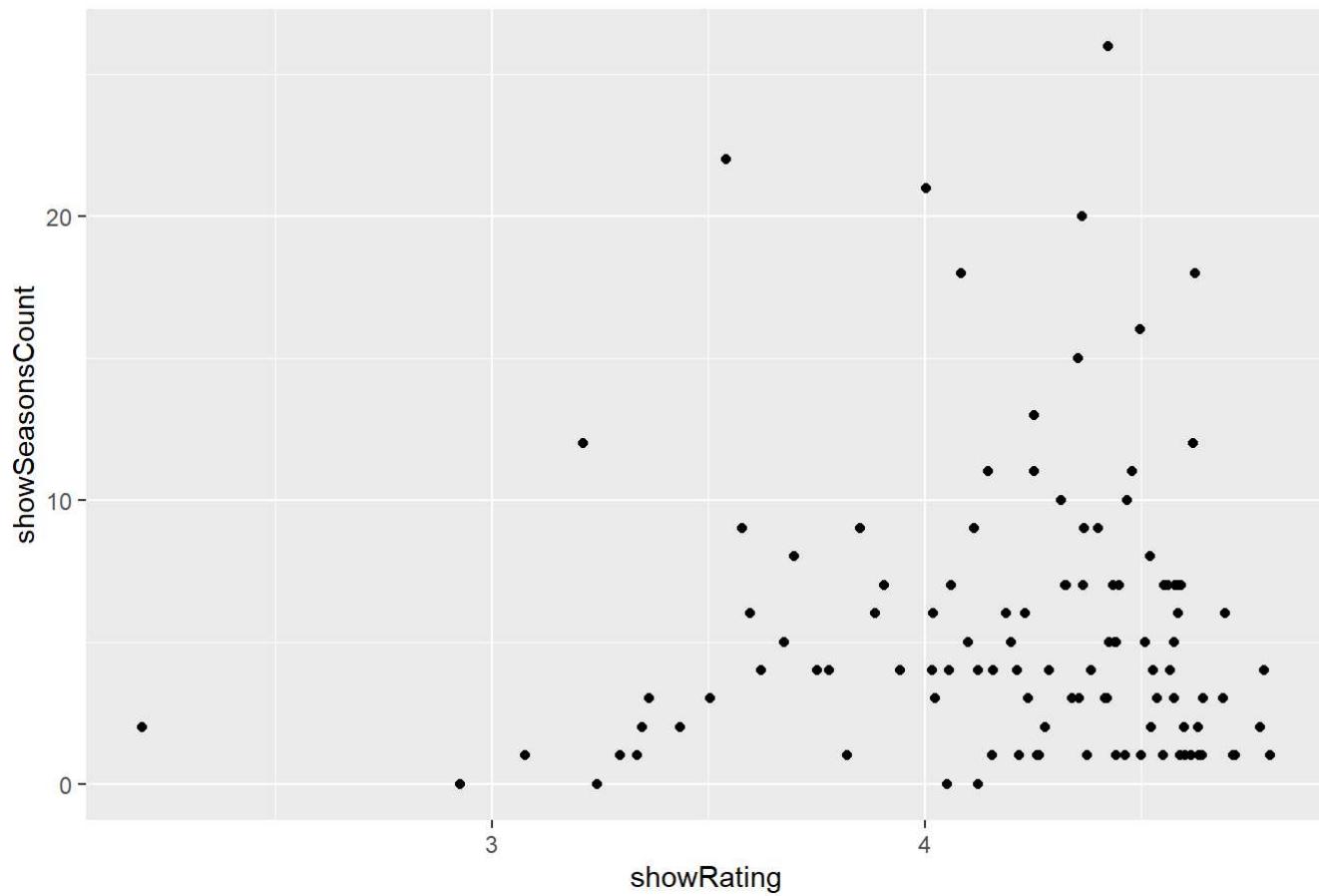
```
ggplot(Hulu, (aes(x=showRating, y=showEpisodeCount)))+ geom_point() + ggtitle("Episode")
```

## Episode

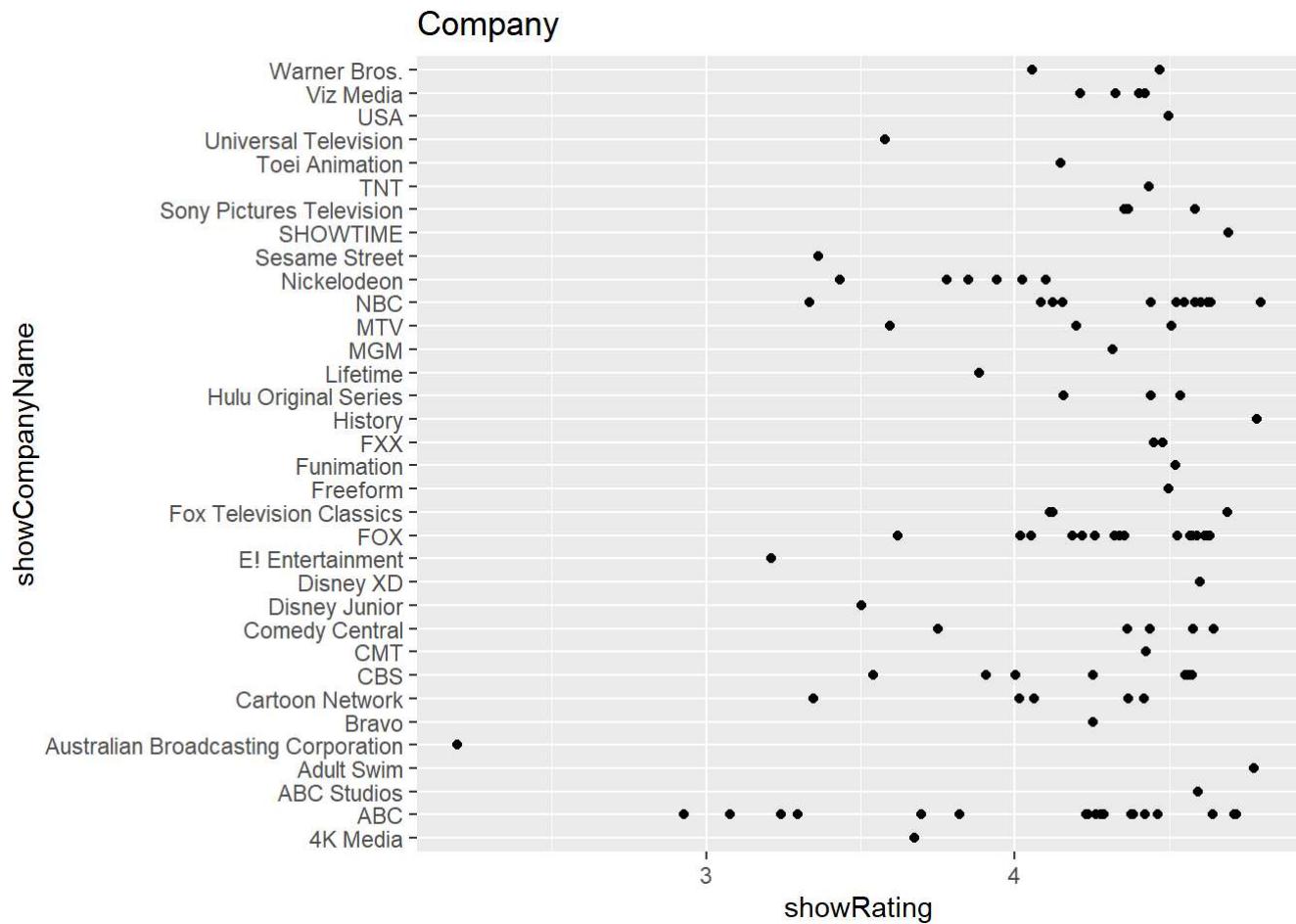


```
ggplot(Hulu, (aes(x=showRating, y=showSeasonsCount)))+ geom_point() + ggtitle("Season Count")
```

## Season Count



```
ggplot(Hulu, (aes(x=showRating, y=showCompanyName)))+ geom_point() + ggtitle("Company")
```



#Finally we built some models to test and see how certain columns affected show rating.

#Since we are looking at what affects show rating, that was our output. We ran models with only one input and then a few models with multiple inputs.

```
model1 <- lm(formula = showRating ~ showEpisodeCount, data=Hulu)
summary(model1)
```

```
##  
## Call:  
## lm(formula = showRating ~ showEpisodeCount, data = Hulu)  
##  
## Residuals:  
##      Min       1Q   Median       3Q      Max  
## -2.0202 -0.1883  0.1089  0.3349  0.5881  
##  
## Coefficients:  
##                               Estimate Std. Error t value Pr(>|t|)  
## (Intercept)        4.206e+00  1.792e-02 234.687    <2e-16 ***  
## showEpisodeCount 6.748e-05  1.003e-04   0.673    0.501  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Residual standard error: 0.428 on 998 degrees of freedom  
## Multiple R-squared:  0.0004533, Adjusted R-squared: -0.0005482  
## F-statistic: 0.4526 on 1 and 998 DF, p-value: 0.5012
```

```
model2 <- lm(formula = showRating ~ showGenre, data=Hulu)  
summary(model2)
```

```

## 
## Call:
## lm(formula = showRating ~ showGenre, data = Hulu)
## 
## Residuals:
##      Min      1Q  Median      3Q     Max 
## -1.70354 -0.13561  0.03291  0.17800  0.75959 
## 
## Coefficients:
##                               Estimate Std. Error t value Pr(>|t|)    
## (Intercept)             4.69189   0.06915  67.849 < 2e-16 ***
## showGenreAnimation and Cartoons -0.67860   0.07608 -8.919 < 2e-16 ***
## showGenreAnime            -0.46215   0.07922 -5.833 7.36e-09 *** 
## showGenreClassics          -0.10063   0.11978 -0.840 0.401004  
## showGenreComedy            -0.30477   0.07158 -4.258 2.26e-05 *** 
## showGenreDrama             -0.23947   0.07166 -3.342 0.000864 *** 
## showGenreFamily             -0.78606   0.11978 -6.563 8.52e-11 *** 
## showGenreFood              -0.47481   0.11978 -3.964 7.90e-05 *** 
## showGenreHealth and Wellness -0.80707   0.11978 -6.738 2.72e-11 *** 
## showGenreKids              -0.79519   0.07841 -10.141 < 2e-16 *** 
## showGenreNews and Information -1.39520   0.11978 -11.649 < 2e-16 *** 
## showGenreReality and Game Shows -1.01065   0.07428 -13.606 < 2e-16 *** 
## showGenreScience Fiction     -0.37659   0.11978 -3.144 0.001716 **  
## showGenreTeen                -0.68965   0.11978 -5.758 1.14e-08 *** 
## --- 
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1 
## 
## Residual standard error: 0.3093 on 986 degrees of freedom
## Multiple R-squared:  0.4843, Adjusted R-squared:  0.4775 
## F-statistic: 71.24 on 13 and 986 DF,  p-value: < 2.2e-16

```

```

model3 <- lm(formula = showRating ~ showSeasonsCount, data=Hulu)
summary(model3)

```

```

## 
## Call:
## lm(formula = showRating ~ showSeasonsCount, data = Hulu)
## 
## Residuals:
##    Min     1Q   Median     3Q    Max 
## -2.0213 -0.1912  0.1112  0.3376  0.5811 
## 
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)    
## (Intercept) 4.215e+00  2.007e-02 210.032 <2e-16 ***
## showSeasonsCount -5.768e-05  2.790e-03 -0.021    0.984  
## --- 
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1 
## 
## Residual standard error: 0.4281 on 998 degrees of freedom
## Multiple R-squared:  4.283e-07, Adjusted R-squared:  -0.001002 
## F-statistic: 0.0004275 on 1 and 998 DF, p-value: 0.9835

```

```

model4 <- lm(formula = showRating ~ showCompanyID, data=Hulu)
model5 <- lm(formula = showRating ~ showCompanyChannelID, data=Hulu)
model6 <- lm(formula = showRating ~ showCompanyName, data=Hulu)
model7 <- lm(formula = showRating ~ showCompanyID + showCompanyChannelID + showCompanyName, data = Hulu)
summary(model4)

```

```

## 
## Call:
## lm(formula = showRating ~ showCompanyID, data = Hulu)
## 
## Residuals:
##    Min     1Q   Median     3Q    Max 
## -2.00330 -0.19242  0.08684  0.32011  0.63270 
## 
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)    
## (Intercept) 4.256e+00  1.907e-02 223.165 < 2e-16 ***
## showCompanyID -1.353e-04  4.377e-05 -3.091  0.00205 ** 
## --- 
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1 
## 
## Residual standard error: 0.426 on 998 degrees of freedom
## Multiple R-squared:  0.00948, Adjusted R-squared:  0.008488 
## F-statistic: 9.552 on 1 and 998 DF, p-value: 0.002053

```

```
summary(model5)
```

```
##  
## Call:  
## lm(formula = showRating ~ showCompanyChannelID, data = Hulu)  
##  
## Residuals:  
##      Min       1Q   Median     3Q    Max  
## -1.9653 -0.1731  0.0945  0.3275  0.6145  
##  
## Coefficients:  
##                               Estimate Std. Error t value Pr(>|t|)  
## (Intercept)          4.250e+00  1.721e-02 246.931 < 2e-16 ***  
## showCompanyChannelID -1.825e-09  5.526e-10 -3.302 0.000993 ***  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Residual standard error: 0.4257 on 998 degrees of freedom  
## Multiple R-squared:  0.01081,    Adjusted R-squared:  0.009818  
## F-statistic:  10.9 on 1 and 998 DF,  p-value: 0.0009931
```

```
summary(model6)
```

```

## 
## Call:
## lm(formula = showRating ~ showCompanyName, data = Hulu)
##
## Residuals:
##    Min      1Q  Median      3Q     Max 
## -1.1219 -0.1189  0.0000  0.2324  0.6662 
##
## Coefficients:
##                               Estimate Std. Error t value
## (Intercept)                3.67461   0.10874 33.794
## showCompanyNameABC          0.37494   0.11177  3.355
## showCompanyNameABC Studios  0.91665   0.15378  5.961
## showCompanyNameAdult Swim   1.09827   0.15378  7.142
## showCompanyNameAustralian Broadcasting Corporation -1.48145   0.36064 -4.108
## showCompanyNameBravo         0.57814   0.15378  3.760
## showCompanyNameCartoon Network 0.38287   0.11997  3.191
## showCompanyNameCBS           0.52389   0.11624  4.507
## showCompanyNameCMT           0.74989   0.15378  4.877
## showCompanyNameComedy Central 0.67791   0.12099  5.603
## showCompanyNameDisney Junior -0.17099   0.15378 -1.112
## showCompanyNameDisney XD     0.92418   0.15378  6.010
## showCompanyNameE! Entertainment -0.46300   0.15378 -3.011
## showCompanyNameFOX            0.66802   0.11228  5.950
## showCompanyNameFox Television Classics 0.69304   0.13025  5.321
## showCompanyNameFreeform       0.82431   0.15378  5.360
## showCompanyNameFunimation     0.84635   0.15378  5.504
## showCompanyNameFXX            0.78905   0.13317  5.925
## showCompanyNameHistory        1.10851   0.15378  7.209
## showCompanyNameHulu Original Series 0.70337   0.13562  5.186
## showCompanyNameLifetime       0.21021   0.15378  1.367
## showCompanyNameMGM             0.64069   0.15378  4.166
## showCompanyNameMTV            0.42617   0.12556  3.394
## showCompanyNameNBC            0.67055   0.11380  5.893
## showCompanyNameNickelodeon    0.15684   0.11855  1.323
## showCompanyNameSesame Street   -0.31085   0.20343 -1.528
## showCompanyNameSHOWTIME        1.01747   0.15378  6.617
## showCompanyNameSony Pictures Television 0.77099   0.12795  6.026
## showCompanyNameTNT             0.75914   0.15378  4.937
## showCompanyNameToei Animation  0.47208   0.15378  3.070
## showCompanyNameUniversal Television -0.09602   0.15378 -0.624
## showCompanyNameUSA             0.82230   0.15378  5.347
## showCompanyNameViz Media       0.65719   0.12370  5.313
## showCompanyNameWarner Bros.   0.58654   0.13317  4.404
## 
## Pr(>|t|) 
## (Intercept) < 2e-16 ***
## showCompanyNameABC 0.000825 ***
## showCompanyNameABC Studios 3.51e-09 ***
## showCompanyNameAdult Swim 1.81e-12 ***
## showCompanyNameAustralian Broadcasting Corporation 4.33e-05 ***
## showCompanyNameBravo 0.000180 ***
## showCompanyNameCartoon Network 0.001462 **

```

```

## showCompanyNameCBS          7.39e-06 ***
## showCompanyNameCMT          1.26e-06 ***
## showCompanyNameComedy Central 2.75e-08 ***
## showCompanyNameDisney Junior 0.266437
## showCompanyNameDisney XD    2.63e-09 ***
## showCompanyNameE! Entertainment 0.002673 **
## showCompanyNameFOX          3.75e-09 ***
## showCompanyNameFox Television Classics 1.28e-07 ***
## showCompanyNameFreeform      1.04e-07 ***
## showCompanyNameFunimation    4.76e-08 ***
## showCompanyNameFXX          4.34e-09 ***
## showCompanyNameHistory       1.14e-12 ***
## showCompanyNameHulu Original Series 2.61e-07 ***
## showCompanyNameLifetime      0.171941
## showCompanyNameMGM          3.37e-05 ***
## showCompanyNameMTV          0.000716 ***
## showCompanyNameNBC          5.25e-09 ***
## showCompanyNameNickelodeon   0.186163
## showCompanyNameSesame Street 0.126825
## showCompanyNameSHOWTIME      6.08e-11 ***
## showCompanyNameSony Pictures Television 2.39e-09 ***
## showCompanyNameTNT          9.36e-07 ***
## showCompanyNameToei Animation 0.002201 **
## showCompanyNameUniversal Television 0.532505
## showCompanyNameUSA          1.11e-07 ***
## showCompanyNameViz Media     1.34e-07 ***
## showCompanyNameWarner Bros.  1.18e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## 
## Residual standard error: 0.3439 on 966 degrees of freedom
## Multiple R-squared:  0.3755, Adjusted R-squared:  0.3541
## F-statistic:  17.6 on 33 and 966 DF,  p-value: < 2.2e-16

```

```
summary(model17)
```

```

## 
## Call:
## lm(formula = showRating ~ showCompanyID + showCompanyChannelID +
##     showCompanyName, data = Hulu)
##
## Residuals:
##    Min      1Q  Median      3Q     Max
## -1.1219 -0.1189  0.0000  0.2324  0.6662
##
## Coefficients: (2 not defined because of singularities)
##                                     Estimate Std. Error
## (Intercept)                   4.109e+00  8.206e-02
## showCompanyID                  2.086e-03  3.927e-04
## showCompanyChannelID          -3.560e-08  6.667e-09
## showCompanyNameABC             -5.412e-01  1.021e-01
## showCompanyNameABC Studios     1.277e-01  1.385e-01
## showCompanyNameAdult Swim      6.581e-01  1.211e-01
## showCompanyNameAustralian Broadcasting Corporation -1.054e+00  3.898e-01
## showCompanyNameBravo           1.147e-01  1.352e-01
## showCompanyNameCartoon Network -5.525e-02  7.369e-02
## showCompanyNameCBS              9.724e-01  1.918e-01
## showCompanyNameCMT              1.282e+00  2.298e-01
## showCompanyNameComedy Central   3.712e-02  9.397e-02
## showCompanyNameDisney Junior    -6.467e-01  1.206e-01
## showCompanyNameDisney XD        1.627e-01  1.296e-01
## showCompanyNameE! Entertainment -9.244e-01  1.352e-01
## showCompanyNameFOX              2.171e-01  8.571e-02
## showCompanyNameFox Television Classics 2.379e-01  1.080e-01
## showCompanyNameFreeform         1.317e-01  1.254e-01
## showCompanyNameFunimation       1.305e-01  1.354e-01
## showCompanyNameFXX              6.806e-01  1.194e-01
## showCompanyNameHistory          2.946e-01  1.399e-01
## showCompanyNameHulu Original Series 1.023e+00  1.830e-01
## showCompanyNameLifetime         9.300e-01  2.606e-01
## showCompanyNameMGM              1.480e-01  1.343e-01
## showCompanyNameMTV              9.957e-01  2.185e-01
## showCompanyNameNBC              2.321e-01  8.840e-02
## showCompanyNameNickelodeon      2.841e-01  1.386e-01
## showCompanyNameSesame Street    -1.066e+00  1.910e-01
## showCompanyNameSHOWTIME          1.138e-01  1.459e-01
## showCompanyNameSony Pictures Television 8.586e-01  1.407e-01
## showCompanyNameTNT               2.960e-01  1.208e-01
## showCompanyNameToei Animation   -4.253e-01  1.455e-01
## showCompanyNameUniversal Television -2.671e-01  1.361e-01
## showCompanyNameUSA              3.547e-01  1.350e-01
## showCompanyNameViz Media         NA        NA
## showCompanyNameWarner Bros.     NA        NA
##
##                                     t value Pr(>|t|)
## (Intercept)                   50.073 < 2e-16 ***
## showCompanyID                  5.313 1.34e-07 ***
## showCompanyChannelID          -5.339 1.16e-07 ***
## showCompanyNameABC             -5.300 1.44e-07 ***

```

```

## showCompanyNameABC Studios          0.922 0.356662
## showCompanyNameAdult Swim         5.433 7.03e-08 ***
## showCompanyNameAustralian Broadcasting Corporation -2.703 0.006983 **
## showCompanyNameBravo              0.848 0.396370
## showCompanyNameCartoon Network    -0.750 0.453546
## showCompanyNameCBS                5.071 4.75e-07 ***
## showCompanyNameCMT                5.578 3.16e-08 ***
## showCompanyNameComedy Central     0.395 0.692911
## showCompanyNameDisney Junior      -5.362 1.03e-07 ***
## showCompanyNameDisney XD          1.255 0.209639
## showCompanyNameE! Entertainment    -6.835 1.45e-11 ***
## showCompanyNameFOX                2.533 0.011471 *
## showCompanyNameFox Television Classics 2.203 0.027822 *
## showCompanyNameFreeform           1.050 0.293982
## showCompanyNameFunimation          0.964 0.335479
## showCompanyNameFXX                5.701 1.58e-08 ***
## showCompanyNameHistory             2.106 0.035480 *
## showCompanyNameHulu Original Series 5.588 2.99e-08 ***
## showCompanyNameLifetime            3.569 0.000376 ***
## showCompanyNameMGM                 1.102 0.270757
## showCompanyNameMTV                4.557 5.86e-06 ***
## showCompanyNameNBC                2.626 0.008779 **
## showCompanyNameNickelodeon         2.050 0.040640 *
## showCompanyNameSesame Street       -5.583 3.07e-08 ***
## showCompanyNameSHOWTIME            0.780 0.435680
## showCompanyNameSony Pictures Television 6.103 1.51e-09 ***
## showCompanyNameTNT                2.451 0.014418 *
## showCompanyNameToei Animation     -2.924 0.003537 **
## showCompanyNameUniversal Television -1.962 0.050021 .
## showCompanyNameUSA                2.626 0.008765 **
## showCompanyNameViz Media           NA      NA
## showCompanyNameWarner Bros.        NA      NA
## ---
## Signif. codes:  0 '****' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.3439 on 966 degrees of freedom
## Multiple R-squared:  0.3755, Adjusted R-squared:  0.3541
## F-statistic: 17.6 on 33 and 966 DF,  p-value: < 2.2e-16

```