

Link to GitHub Repository: https://github.com/golakiyaheet/R_Assignment1

```
tibble [3,886 x 12] (S3: tbl_df/tbl/data.frame) $ Title : chr [1:3886] "Patton
Oswalt: Annihilation" "New York Doll" "Mickey's Magical Christmas: Snowed
in at the House of Mouse" "Mickey's House of Villains" ... $ Year : num
[1:3886] 2017 2005 2001 2001 2017 ... $ Summary : chr [1:3886] "Patton
Oswalt, despite a personal tragedy, produces his best standup yet. Focusing
on the tribulations of the T"| ____truncated____ "A recovering alcoholic and
recently converted Mormon, Arthur \"Killer\" Kane, of the rock band The
New York Dol"| ____truncated____ "After everyone is snowed in at the House
of Mouse, Mickey suggests they throw their own Christmas party. Everyo"|
____truncated____ "The villains from the popular animated Disney films are
gathered at the House of Mouse with plans to take over."| ____truncated____
... $ Short Summary : chr [1:3886] "Patton Oswalt, despite a personal
tragedy, produces his best standup yet. Focusing on the tribulations of the
T"| ____truncated____ "A recovering alcoholic and recently converted Mormon,
Arthur &quot;Killer&quot; Kane, of the rock band The New " | ____truncated____
"Mickey and all his friends hold their own Christmas party at the House of
Mouse, after being snowed in." "The villains from the popular animated Disney
films are gathered at the House of Mouse with plans to take over."| ____trun-
cated____ ... $ IMDB ID : chr [1:3886] "tt7026230" "tt0436629" "tt0300195"
"tt0329374" ... $ Runtime : num [1:3886] 66 75 65 0 99 79 95 91 91 107 ...
$ YouTube Trailer: chr [1:3886] "4hZi5QaMBFc" "jwD04NsnLLg" "uCKwH-
HftrU4" "JA03ciYt-Ek" ... $ Rating : num [1:3886] 7.4 7.9 6.8 6.6 7.6 6.4 6.6
7.2 8.1 7.4 ... $ Movie Poster : chr [1:3886] "https://hydramovies.com/wp-
content/uploads/2018/04/Patton-Oswalt-Annihilation-Movie-Poster.jpg"
"https://hydramovies.com/wp-content/uploads/2018/04/New-York-Doll-
Movie-Poster.jpg" "https://hydramovies.com/wp-content/uploads/2018/04/Mickeys-
Magical-Christmas-Snowed-in-at-the-House-of-Mouse-Movie-Poster.jpg"
"https://hydramovies.com/wp-content/uploads/2018/04/Mickeys-House-of-
Villains-Movie-Poster.jpg" ... $ Director : chr [1:3886] "Bobcat Goldthwait"
"Greg Whiteley" "Tony Craig" "Jamie Mitchell" ... $ Writers : chr [1:3886]
"Patton Oswalt" "Arthur Kane" "Thomas Hart" "Thomas Hart" ... $ Cast
: chr [1:3886] "Patton Oswalt" "Sylvain Sylvain" "Carlos Alazraqui|Wayne
Allwine" "Tony Anselmo|Wayne Allwine" ... Variables in the dataset: Title
Year Summary Short Summary IMDB ID Runtime YouTube Trailer Rating
Movie Poster Director Writers Cast
```

Top 15 rows of the dataset: # A tibble: 15 x 12 Title Year Summary 'Short
Summary' 'IMDB ID' Runtime 'YouTube Trailer' Rating <chr> <dbl> <chr>
<chr> <chr> <dbl> <chr> <dbl> 1 Patton Oswalt: Ann~ 2017 "Patto~ Pat-
ton Oswalt,~ tt7026230 66 4hZi5QaMBFc 7.4 2 New York Doll 2005 "A rec~ A
recovering a~ tt0436629 75 jwD04NsnLLg 7.9 3 Mickey's Magical C~ 2001 "Af-
ter~ Mickey and all~ tt0300195 65 uCKwHHftrU4 6.8 4 Mickey's House of ~ 2001
"The v~ The villains f~ tt0329374 0 JA03ciYt-Ek 6.6 5 And Then I Go 2017 "In
th~ In the cruel w~ tt2018111 99 8CdIiD6-iF0 7.6 6 An Extremely Goofy~ 2000
"It's ~ Max goes to co~ tt0208185 79 H8oSvldAGfg 6.4 7 Peter Rabbit 2018

"Based~ Feature adapta~ tt5117670 95 7Pa_Weidt08 6.6 8 Love Songs 2007
 "Julie~ A musical inte~ tt0996605 91 s54vpKAFmS0 7.2 9 89 2017 "89 te~ The
 true story~ tt7614404 91 5hfAExhHTMM 8.1 10 The Foster Boy 2011 "The i~ A
 Swiss-German~ tt2057931 107 E9Qv_XVJ-js 7.4 11 Forever My Girl 2018 "Af-
 ter~ After being go~ tt4103724 108 3vqcMr1q5Uc 6.4 12 Tom Segura: Disgra~
 2018 "Comed~ Comedian Tom S~ tt7379330 0 kYYINJM3lPA 7.5 13 The Secret
 Rules o~ 2015 "Profe~ Professor Marc~ tt5818010 58 hpyxmT6KSvw 7.5 14 Se-
 crets in the Fall 2015 "Nothi~ Nothing is imp~ tt2522908 0 eMVw1pHVMAw 7.3
 15 Silent Night 2017 "Adam ~ Adam unexpecte~ tt7133554 100 cA6BUYVkJQoE
 7.5 # i 4 more variables: 'Movie Poster' <chr>, Director <chr>, Writers <chr>,
 Cast <chr>

```
function(dataset, Rating) { variable <- dataset[[Rating]] average <-
mean(variable) return(average) } Result of the function: 6.558929
```

Filtered dataset: # A tibble: 3,691 x 12 Title Year Summary 'Short Summary'
 'IMDB ID' Runtime 'YouTube Trailer' Rating <chr> <dbl> <chr> <chr>
 <chr> <dbl> <chr> <dbl> 1 Patton Oswalt: Ann~ 2017 "Patto~ Patton
 Oswalt,~ tt7026230 66 4hZi5QaMBFc 7.4 2 New York Doll 2005 "A rec~ A re-
 covering a~ tt0436629 75 jwD04NsnLLg 7.9 3 Mickey's Magical C~ 2001 "After~
 Mickey and all~ tt0300195 65 uCKwHHftrU4 6.8 4 Mickey's House of ~ 2001
 "The v~ The villains f~ tt0329374 0 JA03ciYt-Ek 6.6 5 And Then I Go 2017
 "In th~ In the cruel w~ tt2018111 99 8CdIiD6-iF0 7.6 6 An Extremely Goofy~
 2000 "It's ~ Max goes to co~ tt0208185 79 H8oSvldAGfg 6.4 7 Peter Rabbit
 2018 "Based~ Feature adapta~ tt5117670 95 7Pa_Weidt08 6.6 8 Love Songs
 2007 "Julie~ A musical inte~ tt0996605 91 s54vpKAFmS0 7.2 9 89 2017 "89 te~
 The true story~ tt7614404 91 5hfAExhHTMM 8.1 10 The Foster Boy 2011 "The
 i~ A Swiss-German~ tt2057931 107 E9Qv_XVJ-js 7.4 # i 3,681 more rows # i
 4 more variables: 'Movie Poster' <chr>, Director <chr>, Writers <chr>, Cast
 <chr> # i Use 'print(n = ...)' to see more rows

Duplicated rows: [1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE
 FALSE FALSE FALSE FALSE FALSE FALSE FALSE [15] FALSE FALSE
 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
 FALSE FALSE [29] FALSE FALSE FALSE FALSE FALSE FALSE FALSE
 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE [43] FALSE FALSE
 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
 FALSE FALSE [57] FALSE FALSE FALSE FALSE FALSE FALSE FALSE
 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE [71] FALSE FALSE
 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
 FALSE FALSE [85] FALSE FALSE FALSE FALSE FALSE FALSE FALSE
 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE [99] FALSE FALSE
 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
 FALSE FALSE [113] FALSE FALSE FALSE FALSE FALSE FALSE FALSE
 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE [127] FALSE FALSE
 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
 FALSE FALSE [141] FALSE FALSE FALSE FALSE FALSE FALSE FALSE

[illegible]

2886 entries]

Ordered dataset: # A tibble: 3,886 x 12 Title Year Summary 'Short Summary'
'IMDB ID' Runtime 'YouTube Trailer' Rating <chr> <dbl> <chr> <chr>
<chr> <dbl> <chr> <dbl> 1 Avengers: Infinity~ 2018 As the~ The Avengers
a~ tt4154756 149 6ZfuNTqbHE8 8.7 2 Won't You Be My Ne~ 2018 Charmi~ An
exploration~ tt7681902 94 FhwktRDG_aQ 8.7 3 Parmanu: The Story~ 2018 A
look~ A look at Indi~ tt6826438 129 XQFb12N0Arc 8.4 4 Andre the Giant 2018
A look~ A look at the ~ tt6543420 85 f_jTeuajas0 8.2 5 Isle of Dogs 2018 An
out~ Set in Japan, ~ tt5104604 101 dt__kig8PVU 8.2 6 Strokes of Genius 2018
The fi~ The film inter~ tt8638420 98 q2UYQJmMIxc 8.2 7 Robin Williams:
Co~ 2018 This i~ An intimate lo~ tt7689966 0 caIFNg_JRL4 8.2 8 Padman
2018 Biogra~ Upon realizing~ tt7218518 140 <NA> 8.1 9 Jesus Christ Super~
2018 A live~ A live musical~ tt6874964 99 mPbb4BDirHA 8 10 Deadpool 2 2018
After ~ Foul-mouthed m~ tt5463162 119 Z5ezsReZcxU 8 # i 3,876 more rows
i 4 more variables: 'Movie Poster' <chr>, Director <chr>, Writers <chr>,
Cast <chr> # i Use 'print(n = ...)' to see more rows

[1] "Title" "Year" "Summary" "Short Summary" "IMDB ID" [6] "Runtime"
"YouTube Trailer" "Rating" "Movie Poster" "Director" [11] "Writers" "Cast"
Renamed column names: [1] "Title" "release_year" "Summary" "Short Sum-
mary" "IMDB ID" [6] "Runtime" "YouTube Trailer" "movie_rating" "Movie
Poster" "Director" [11] "Writers" "Cast"

Updated dataset with new variable: [1] "Title" "release_year" "Summary"
"Short Summary" "IMDB ID" [6] "Runtime" "YouTube Trailer" "movie_rating"
"Movie Poster" "Director" [11] "Writers" "Cast" "New_Rating"

Training set: # A tibble: 2,720 x 13 Title release_year Summary 'Short
Summary' 'IMDB ID' Runtime 'YouTube Trailer' movie_rating <chr> <dbl>
<chr> <chr> <chr> <dbl> <chr> <dbl> 1 Moder~ 2017 Brough~ Brought
togeth~ tt2385752 105 7W5R2f6UOOk 5.9 2 The W~ 2010 Inspir~ A drama
based ~ tt0896872 112 al3anBiHwml 7.2 3 Real~ 2014 A wann~ A wanna-be
dir~ tt2392672 95 4mTpwwHLzDQ 6.9 4 Pirat~ 2007 After ~ Captain Barbos~
tt0449088 169 HKSZtp_OGHY 7.1 5 Chasi~ 2015 Chase ~ Unable to get
~ tt3097956 87 lA_cMQpUEns 7 6 The A~ 2004 Biopic~ A biopic depic~
tt0338751 170 FebPJlmgldE 7.5 7 Going~ 2015 A deva~ A documentary ~
tt4257858 119 ixgd38EZIR0 8 8 1 Nig~ 2016 Bea, a~ Past and prese~ tt4126694
80 b9aAIY8zMpg 5.8 9 Ready~ 2018 In the~ When the creat~ tt1677720
140 cSp1dM2Vj48 7.7 10 Sleig~ 2016 A youn~ A young street~ tt4573516 89
ORL1d7GWOBc 5.9 # i 2,710 more rows # i 5 more variables: 'Movie Poster'
<chr>, Director <chr>, Writers <chr>, Cast <chr>, # New_Rating <dbl>
i Use 'print(n = ...)' to see more rows

Summary statistics of the dataset: Title release_year Summary Short Summary
IMDB ID Length:3886 Min. :2000 Length:3886 Length:3886 Length:3886 Class
:character 1st Qu.:2009 Class :character Class :character Class :character Mode
:character Median :2013 Mode :character Mode :character Mode :character

Mean :2012 3rd Qu.:2016 Max. :2018 Runtime YouTube Trailer movie_rating
Movie Poster Director Min. : 0.0 Length:3886 Min. :1.700 Length:3886
Length:3886 1st Qu.: 91.0 Class :character 1st Qu.:6.100 Class :character
Class :character Median :102.0 Mode :character Median :6.600 Mode :character
Mode :character Mean :100.4 Mean :6.559 3rd Qu.:115.0 3rd Qu.:7.100 Max.
:338.0 Max. :9.500 Writers Cast New__Rating Length:3886 Length:3886 Min. :
2.700 Class :character Class :character 1st Qu.: 7.100 Mode :character Mode
:character Median : 7.600 Mean : 7.559 3rd Qu.: 8.100 Max. :10.500

Mean rating: 6.558929 Median rating: 6.6 Mode of movie rating: 6.2 Range of
movie rating: 1.7 9.5

Scatter plot saved as 'scatter__plot.png' png 4 RStudioGD 2