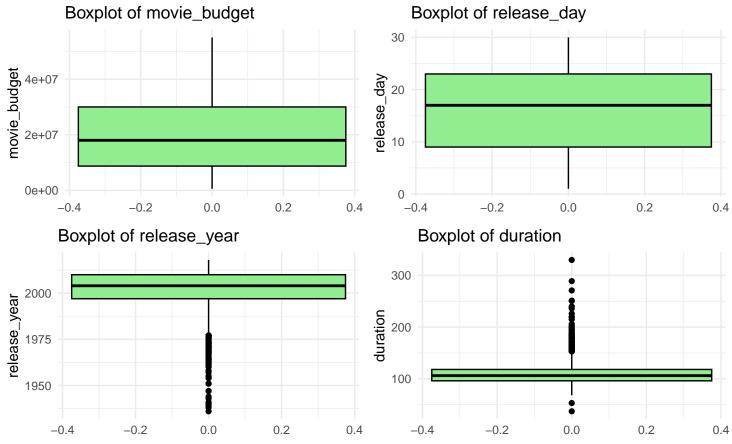
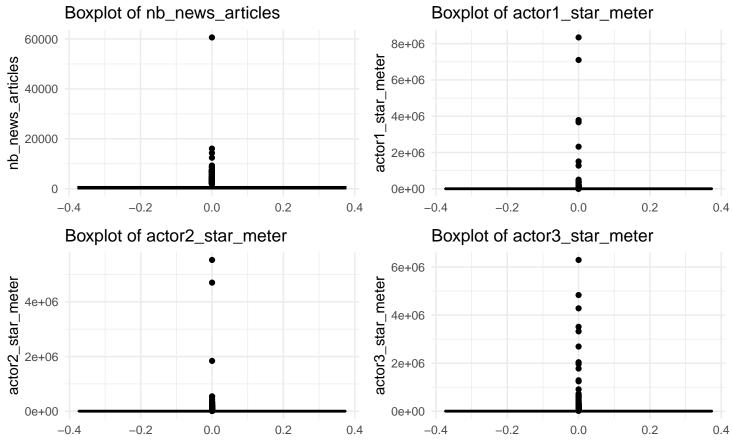
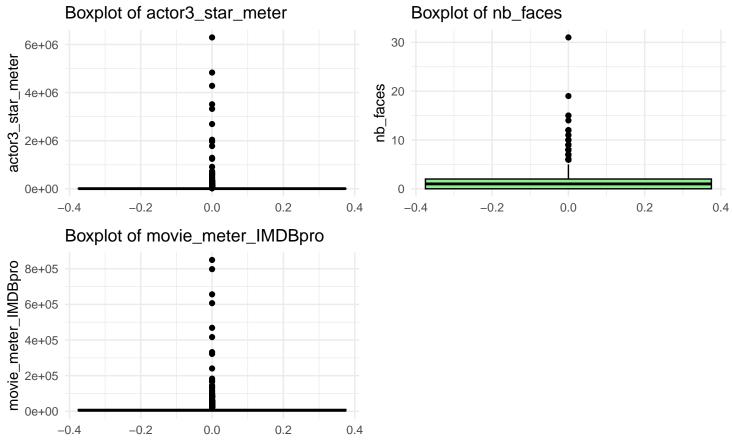


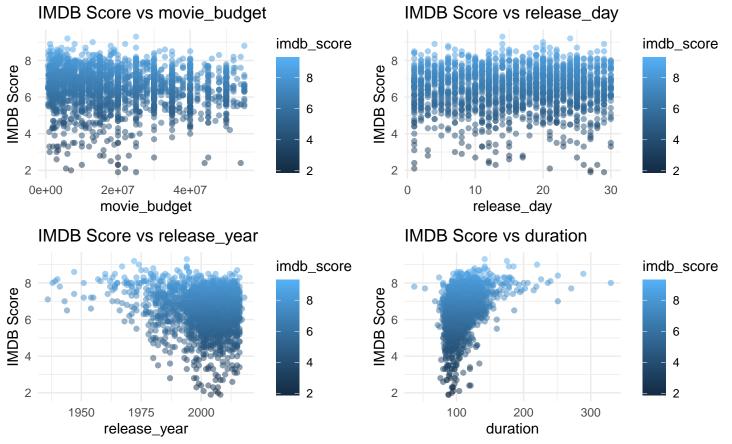
	Predictor	Skewness	Kurtosis
movie_budget	movie_budget	0.5379464	-0.7262042
release_day	release_day	-0.1666258	-1.0893363
release_year	release_year	-1.6267935	3.8669948
duration	duration	2.6770820	15.5853124
aspect_ratio	aspect_ratio	-0.3718203	-1.0763686
nb_news_articles	nb_news_articles	18.6088704	558.9580715
actor1_star_meter	actor1_star_meter	23.2678536	594.7305886
actor2_star_meter	actor2_star_meter	27.5774777	810.6270569
actor3_star_meter	actor3_star_meter	16.2897374	306.3312994
nb_faces	nb_faces	3.7344758	29.8917997
movie_meter_IMDBpro	movie_meter_IMDBpro	14.5328325	249.5463930

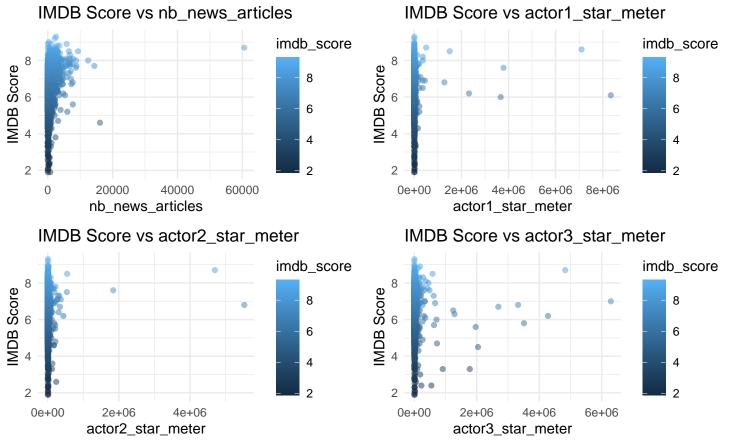


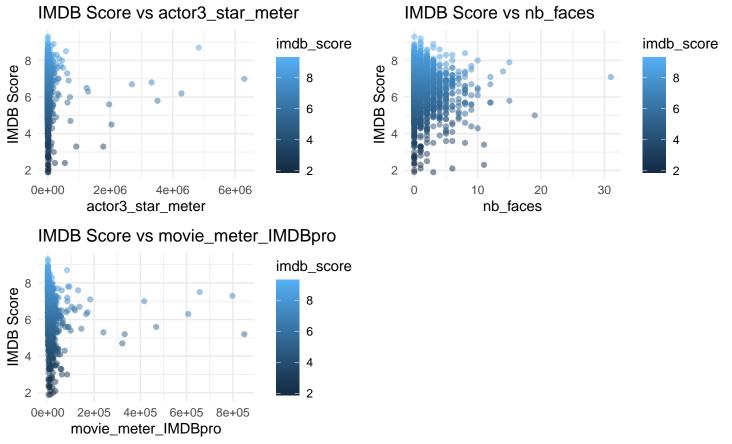




```
movie_budget release_day release_year duration aspect_ratio
Min. : 560000
               Min. : 1.00
                           Min. :1936 Min. : 37.0
                                                    Min. :1.180
1st Qu.: 8725000
               1st Qu.: 9.00
                           1st Qu.:1.850
Median :18000000 Median :17.00
                           Median :2004 Median :106.0
                                                    Median :2.350
Mean :20973774 Mean :15.95
                           Mean :2001 Mean :109.7
                                                    Mean :2.096
3rd Qu.:30000000 3rd Qu.:23.00 3rd Qu.:2010 3rd Qu.:118.0 3rd Qu.:2.350
Max. :55000000 Max. :30.00
                           Max. :2018 Max. :330.0
                                                    Max. :2.760
nb_news_articles actor1_star_meter actor2_star_meter actor3_star_meter
Min. : 0.0
              Min. : 9 Min. : 3
                                           Min. :
1st Qu.: 78.0
              1st Qu.: 505 1st Qu.: 1895
                                           1st Qu.: 3075
Median : 286.0
             Median : 1888 Median : 3986
                                           Median : 5856
Mean : 770.6 Mean : 21190 Mean : 17114
                                           Mean : 35469
3rd Qu.: 845.5 3rd Qu.: 4665 3rd Qu.: 7667
                                           3rd Qu.: 12250
Max. :60620.0 Max. :8342201 Max. :5529461
                                           Max.
                                                 :6292982
 nb_faces movie_meter_IMDBpro
Min. : 0.00 Min. :
                      71
1st Qu.: 0.00 1st Qu.: 2836
Median : 1.00 Median : 5406
Mean : 1.44
           Mean : 11612
3rd Qu.: 2.00 3rd Qu.: 10198
Max. :31.00 Max. :849550
```







```
1
          movie_budget 5.417691e-04 6.188867e-03
2
           release_day 3.488141e-01 4.552876e-04
3
         release month 2.907435e-01 2.606009e-02
4
          release_year 5.812340e-18 3.795539e-02
5
              duration 2.124863e-79 1.686284e-01
6
              language 7.963938e-01 1.646691e-02
7
               country 1.725032e-01 3.767972e-02
8
      maturity_rating 9.261149e-04 4.739582e-02
9
          aspect_ratio 6.245747e-01 1.242413e-04
10
           distributor 1.166891e-02 2.567400e-01
11
      nb news articles 1.154764e-23 5.082841e-02
12
              director 7.382646e-03 7.821907e-01
13
                actor1 8.795616e-01 6.359676e-01
14
     actor1_star_meter 2.039799e-01 8.368206e-04
15
                actor2 6.181009e-01 7.677719e-01
     actor2_star_meter 9.276008e-02 1.464975e-03
16
17
                actor3 1.151085e-01 8.562379e-01
18
     actor3_star_meter 8.581515e-01 1.657242e-05
19
           colour_film 1.187884e-12 2.586263e-02
20
                genres 9.474060e-02 4.331155e-01
              nb_faces 8.394547e-05 7.992422e-03
21
22
         plot_keywords
                                NaN 1.000000e+00
23
                action 2.096054e-12 2.529932e-02
24
             adventure 3.282087e-03 4.474328e-03
25
                 scifi 3.669494e-05 8.798989e-03
26
              thriller 4.323968e-04 6.405711e-03
27
               musical 3.198531e-01 5.132520e-04
28
               romance 5.134628e-01 2.215080e-04
29
               western 3.974098e-03 4.294571e-03
30
                 sport 1.566731e-02 3.025159e-03
31
                horror 2.102335e-13 2.757971e-02
32
                 drama 7.482679e-53 1.143819e-01
33
                   war 1.756616e-06 1.178186e-02
34
             animation 4.666386e-01 2.748906e-04
35
                 crime 6.930645e-03 3.775400e-03
36 movie_meter_IMDBpro 7.897205e-05 8.051840e-03
37
       cinematographer 8.280564e-01 5.487727e-01
    production_company 2.643196e-02 5.158081e-01
```

Non-constant Variance Score Test Variance formula: \sim fitted.values Chisquare = 8.574293, Df = 1, p = 0.0034094

Call:

lm(formula = formula_numeric, data = df)

Residuals:

Min 1Q Median 3Q Max -5.2782 -0.4624 0.1466 0.6354 2.4424

Coefficients:

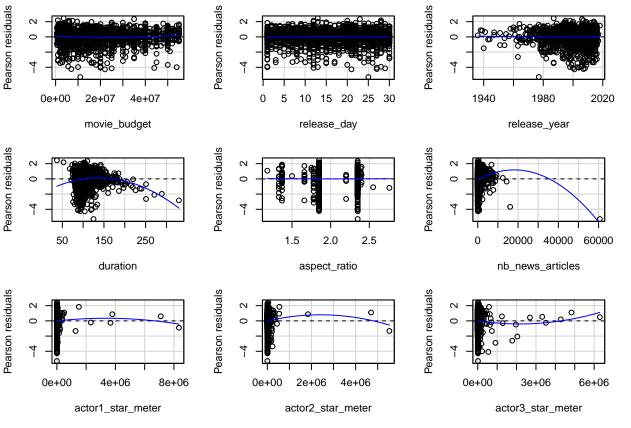
Estimate Std. Error t value Pr(>|t|) (Intercept) 2.101e+01 4.021e+00 5.225 1.93e-07 *** movie_budget -1.148e-08 1.585e-09 -7.244 6.28e-13 *** release_day 1.685e-03 2.625e-03 0.642 0.521022 release_year -8.353e-03 2.014e-03 -4.148 3.50e-05 *** duration 2.050e-02 1.096e-03 18.706 < 2e-16 *** aspect_ratio 8.328e-02 8.451e-02 0.985 0.324524 nb news articles 1.130e-04 1.185e-05 9.535 < 2e-16 *** actor1 star meter 9.566e-08 7.749e-08 1.235 0.217154 actor2_star_meter 1.513e-07 1.340e-07 1.129 0.258948 actor3_star_meter -2.264e-08 8.765e-08 -0.258 0.796165 nb_faces -4.055e-02 1.060e-02 -3.824 0.000136 *** movie meter_IMDBpro -1.732e-06 5.479e-07 -3.161 0.001596 ** Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

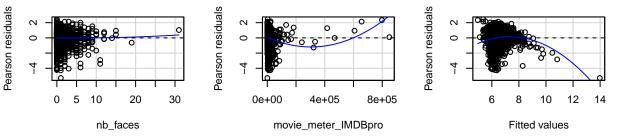
Residual standard error: 0.9555 on 1918 degrees of freedom Multiple R-squared: 0.2497, Adjusted R-squared: 0.2454 F-statistic: 58.04 on 11 and 1918 DF, p-value: < 2.2e-16

t test of coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept)
                              4.6352e+00 4.5322 6.199e-06 ***
                   2.1008e+01
                  -1.1482e-08 1.5227e-09 -7.5409 7.161e-14 ***
movie_budget
release_day
               1.6849e-03 2.6749e-03 0.6299 0.5288339
release_year -8.3530e-03 2.3290e-03 -3.5866 0.0003434 ***
                2.0501e-02 1.5301e-03 13.3983 < 2.2e-16 ***
duration
aspect_ratio
             8.3280e-02 8.6971e-02 0.9576 0.3384018
nb_news_articles 1.1303e-04
                              4.9917e-05 2.2643 0.0236690 *
actor1_star_meter 9.5660e-08
                              6.3152e-08 1.5148 0.1300000
actor2_star_meter 1.5131e-07
                              1.6960e-07 0.8921 0.3724349
actor3_star_meter -2.2645e-08 7.9944e-08 -0.2833 0.7770111
                -4.0548e-02 1.1473e-02 -3.5344 0.0004184 ***
nb faces
movie_meter_IMDBpro -1.7320e-06 8.5195e-07 -2.0330 0.0421924 *
```

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1





```
Test stat Pr(>|Test stat|)
movie_budget
                                    0.005226 **
                     2.7960
                                    0.513635
release_day
                     -0.6533
release_year
                                    0.671388
                     0.4243
                                   1.349e-13 ***
duration
                    -7.4554
aspect_ratio
                     0.1851
                                    0.853141
                    -9.4878
nb_news_articles
                                   < 2.2e-16 ***
actor1_star_meter
                    -0.9317
                                    0.351608
actor2_star_meter
                    -1.4345
                                    0.151589
actor3_star_meter
                     1.8199
                                    0.068937 .
                                    0.621382
nb_faces
                      0.4940
                     6.7627
                                   1.792e-11 ***
movie_meter_IMDBpro
Tukey test
                   -11.8803
                                   < 2.2e-16 ***
```

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

