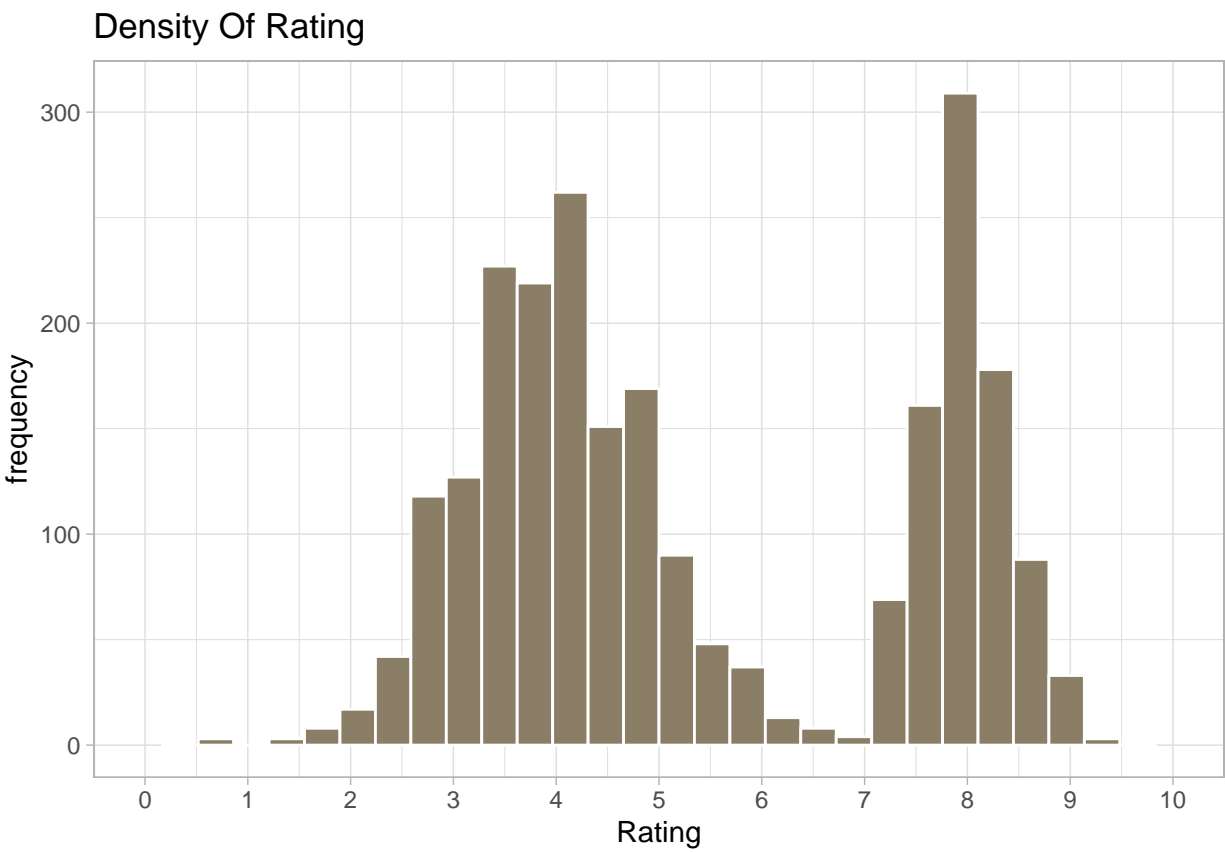


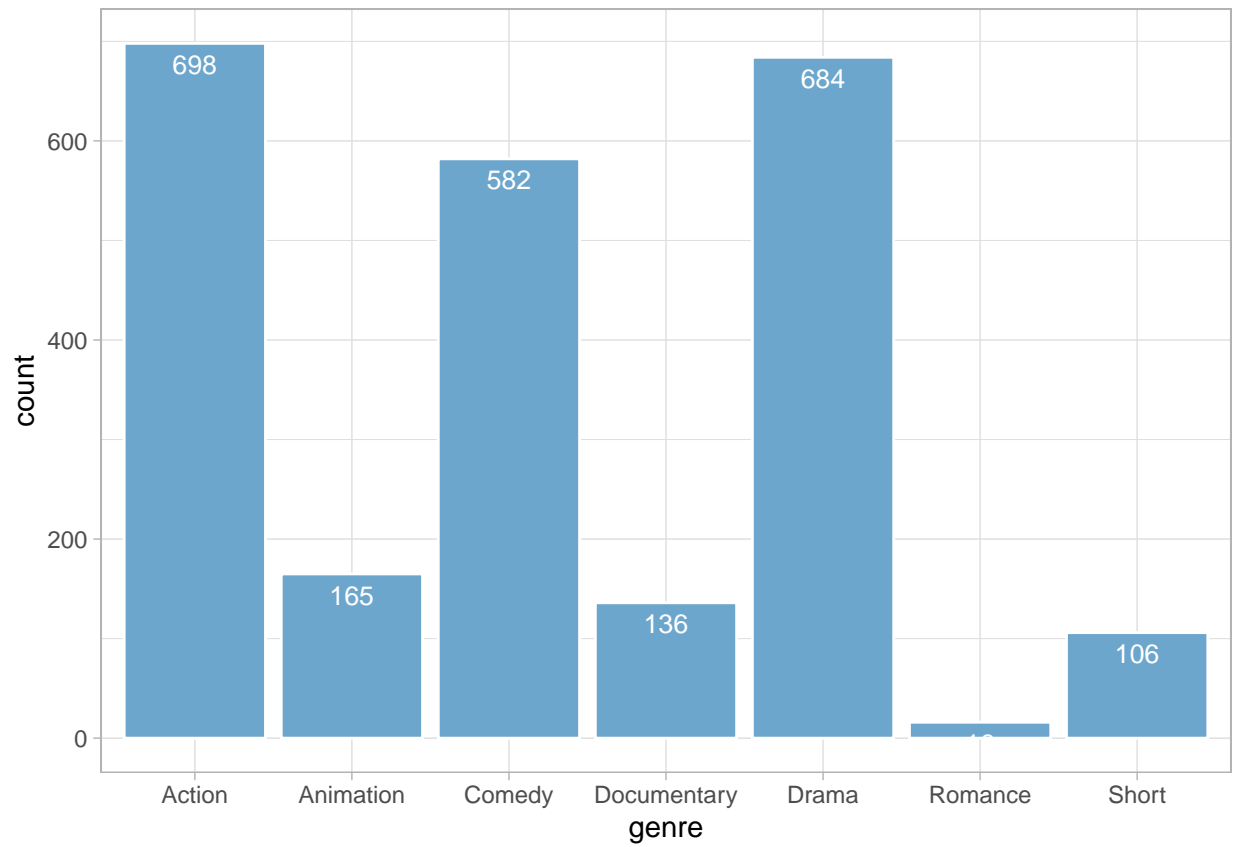
Group_07_Analysis

Group 7

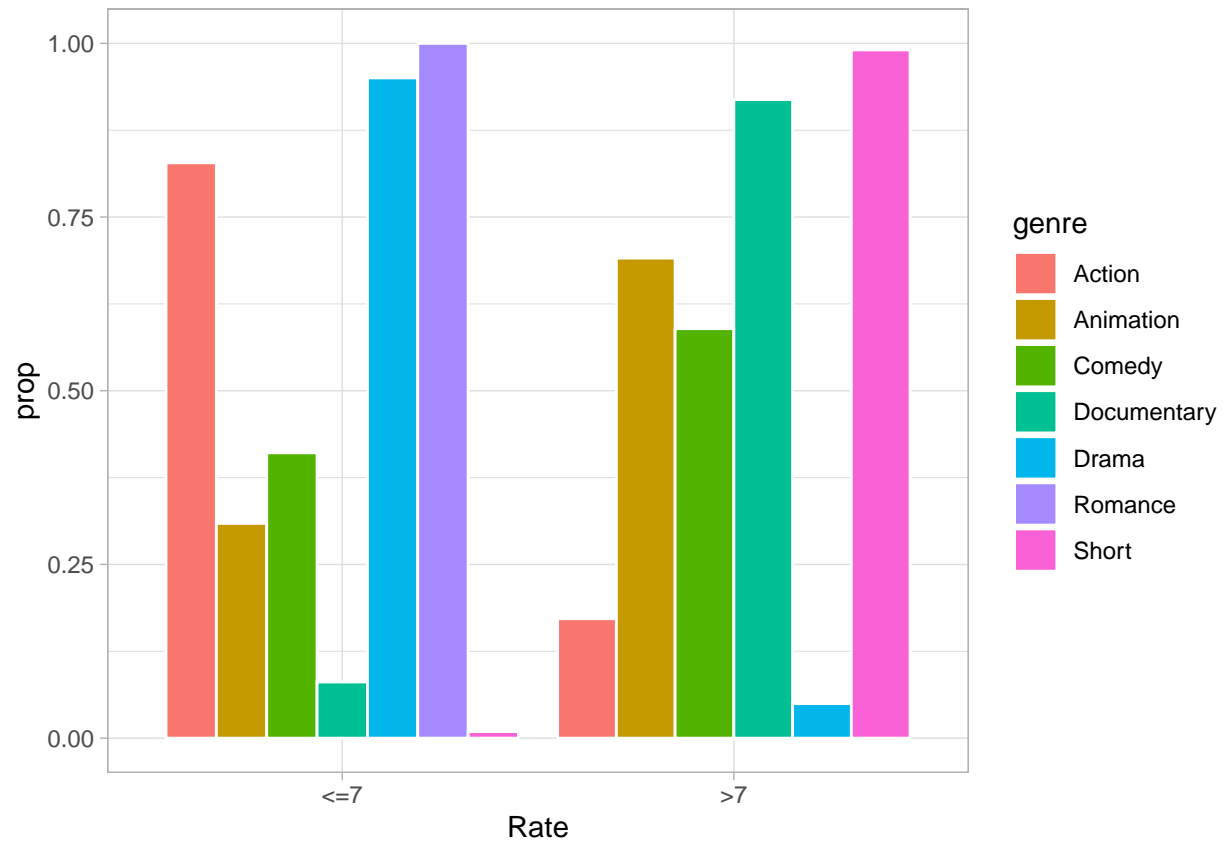
rating
Min. :0.700
1st Qu.:3.700
Median :4.700
Mean :5.414
3rd Qu.:7.800
Max. :9.200

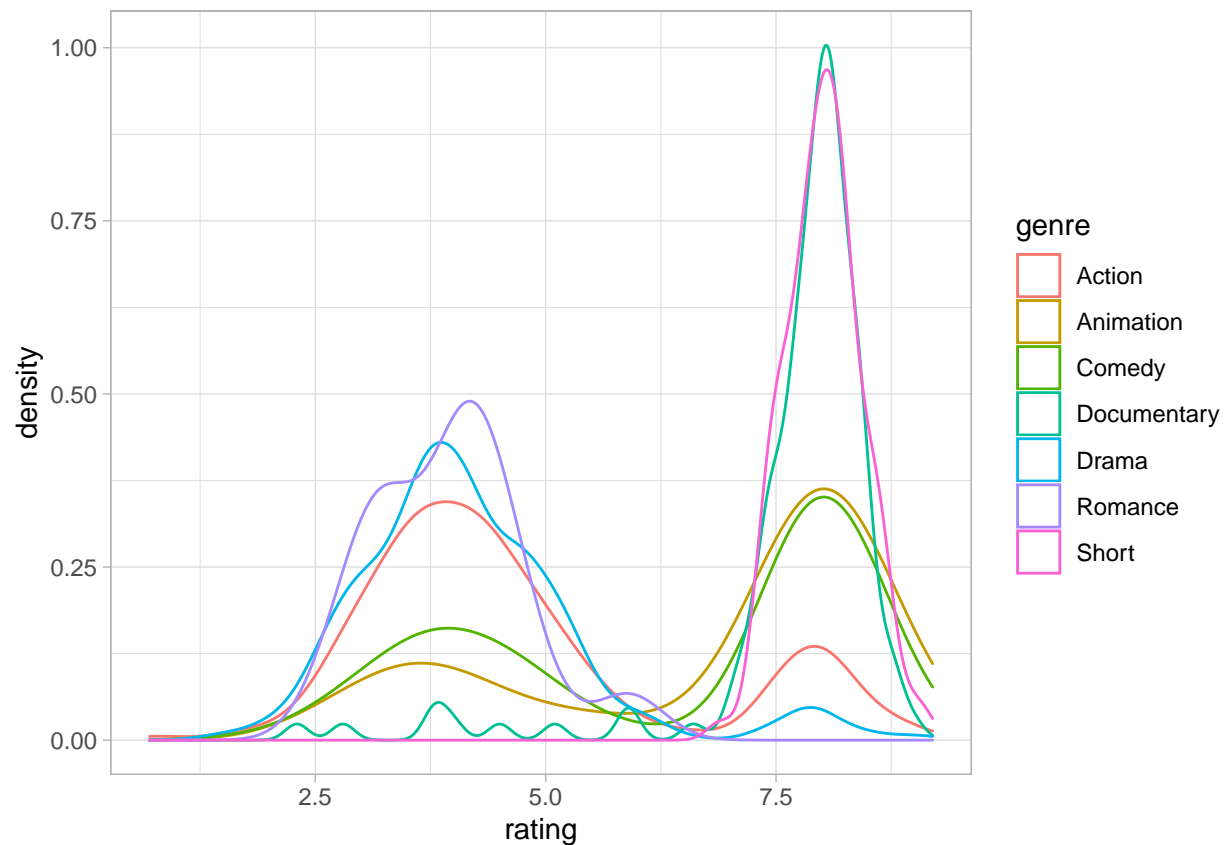


Rate	Action	Animation	Comedy	Documentary	Drama	Romance
<=7	37.4% (578)	3.3% (51)	15.5% (239)	0.7% (11)	42.0% (650)	1.0% (16)
>7	14.3% (120)	13.6% (114)	40.8% (343)	14.9% (125)	4.0% (34)	0.0% (0)
Short						
0.1%	(1)					
12.5%	(105)					



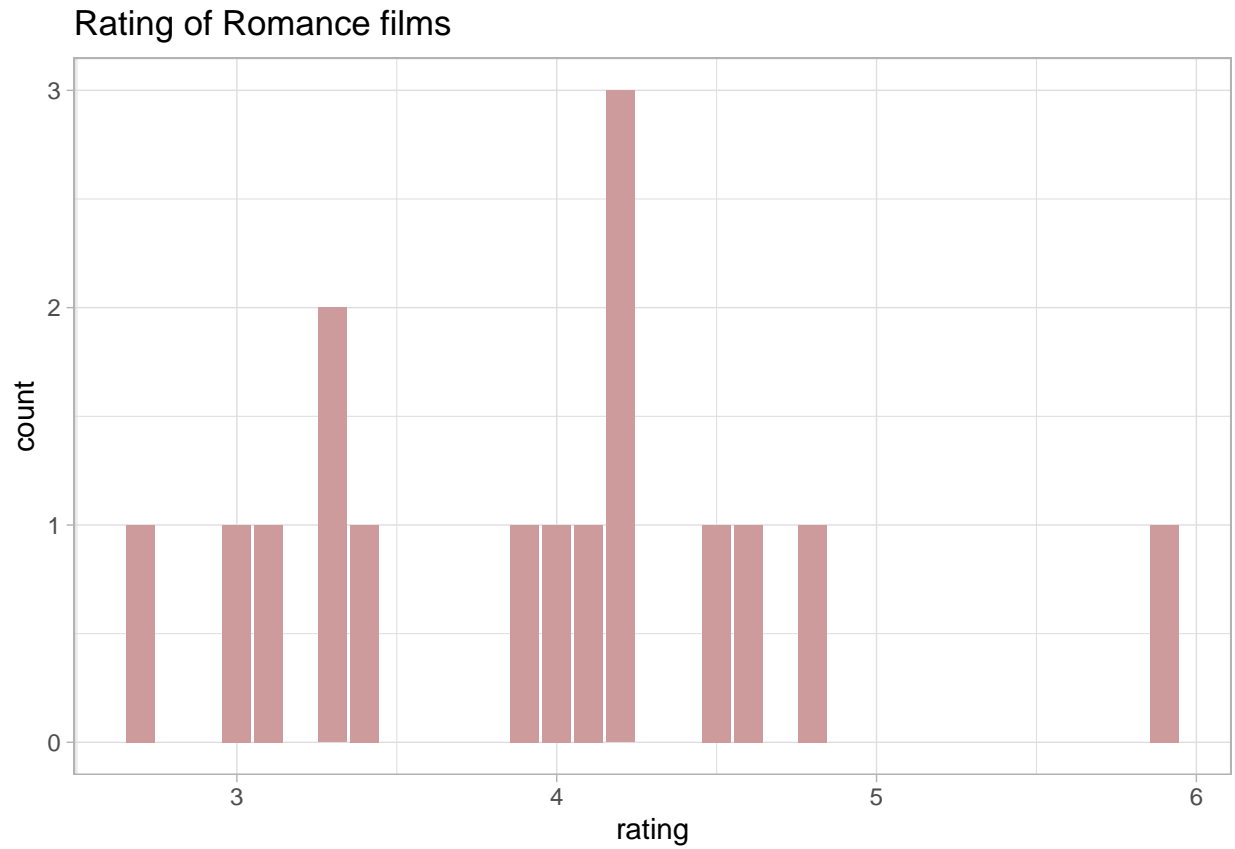
```
Action  Animation  Comedy  Documentary  Drama  Romance
698      165      582      136      684      16
Short
106
```



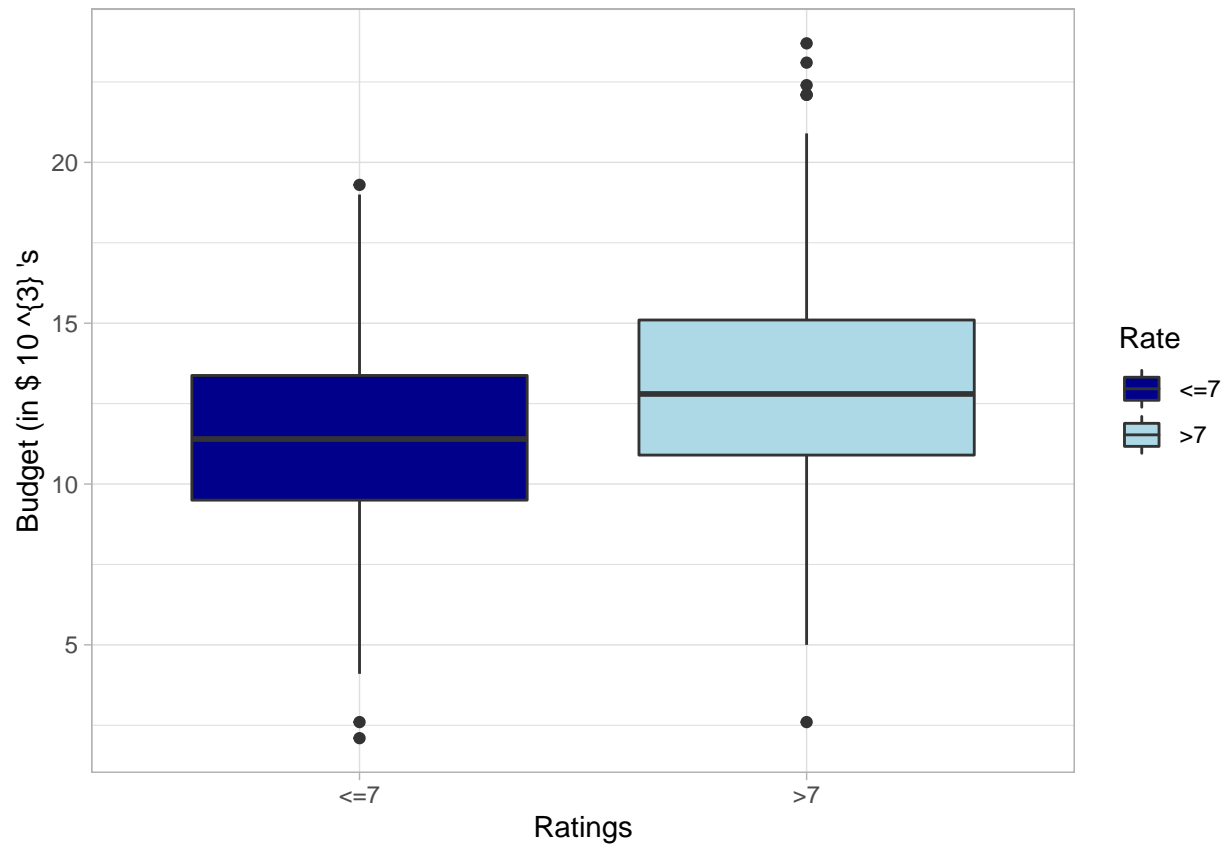


From this density graph we can see that Short, Documentary, Comedy and Animation films are more likely to get rates over 7.5 compared to rates lower than 7 (5 to be exact)

We notice that the majority of films are within one of the 3 most dominant categories Action , Comedy and Drama . On the opposite Animation Documentary and Short films have relatively close frequencies . And Romance films are comparatively very rare among our list of films (only 16 films where Romantic among all 2387)

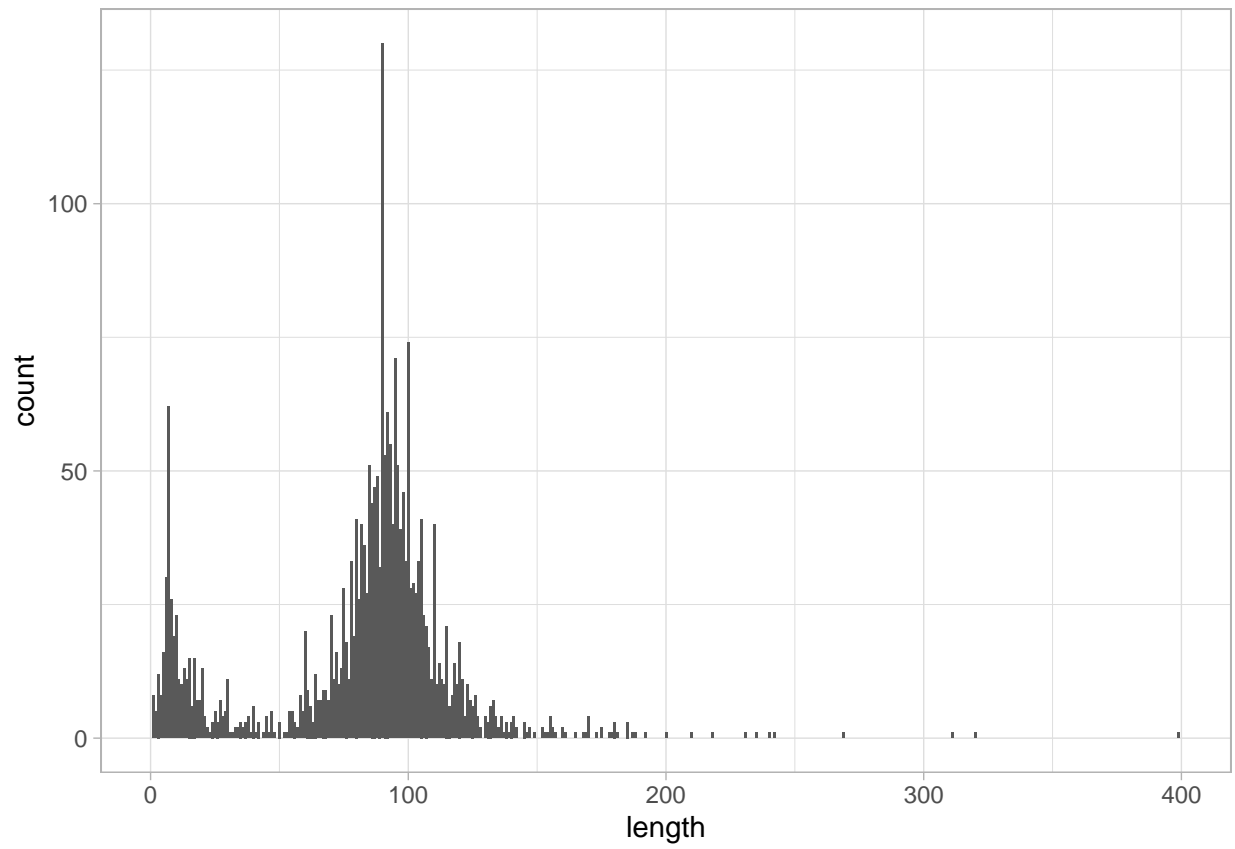


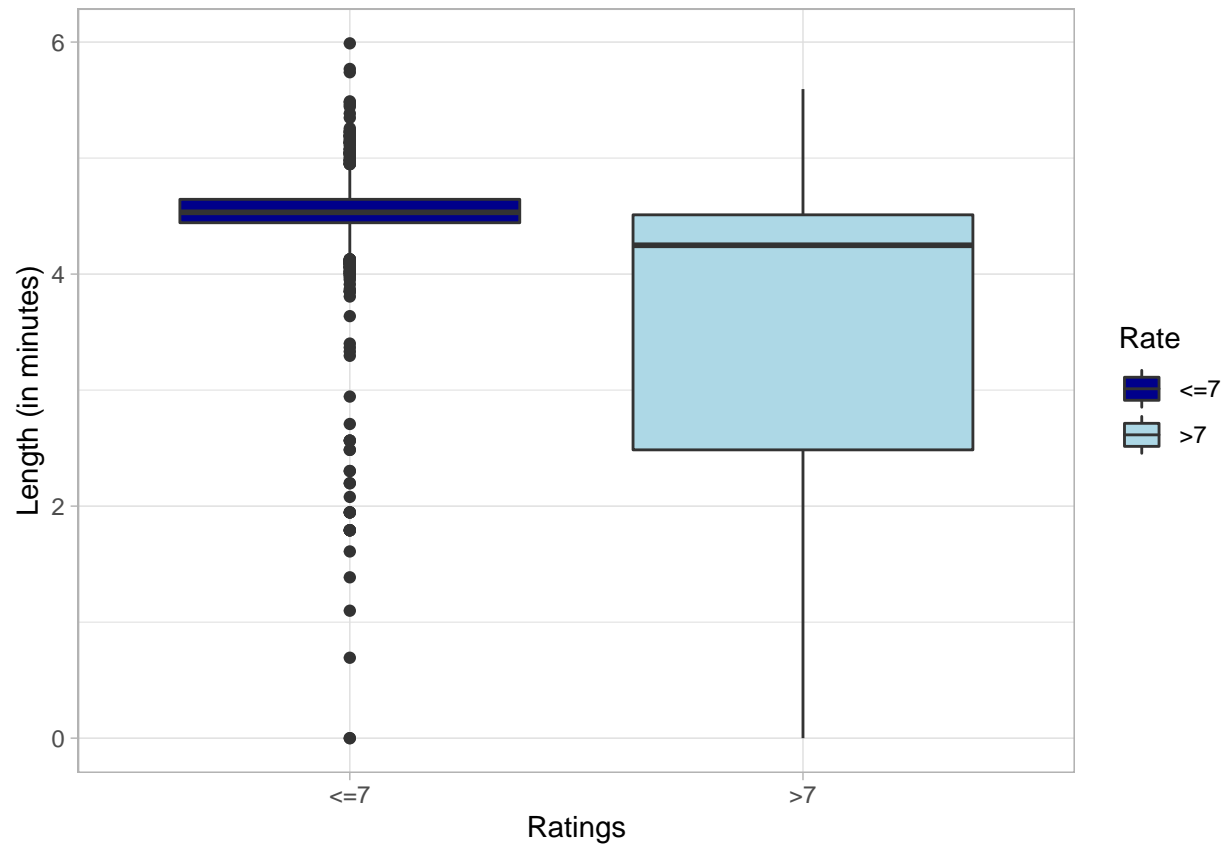
Given the barchart we notice that in our dataset all Romance films have ratings below 7. This might indicate that Romance is not a strong explanation a

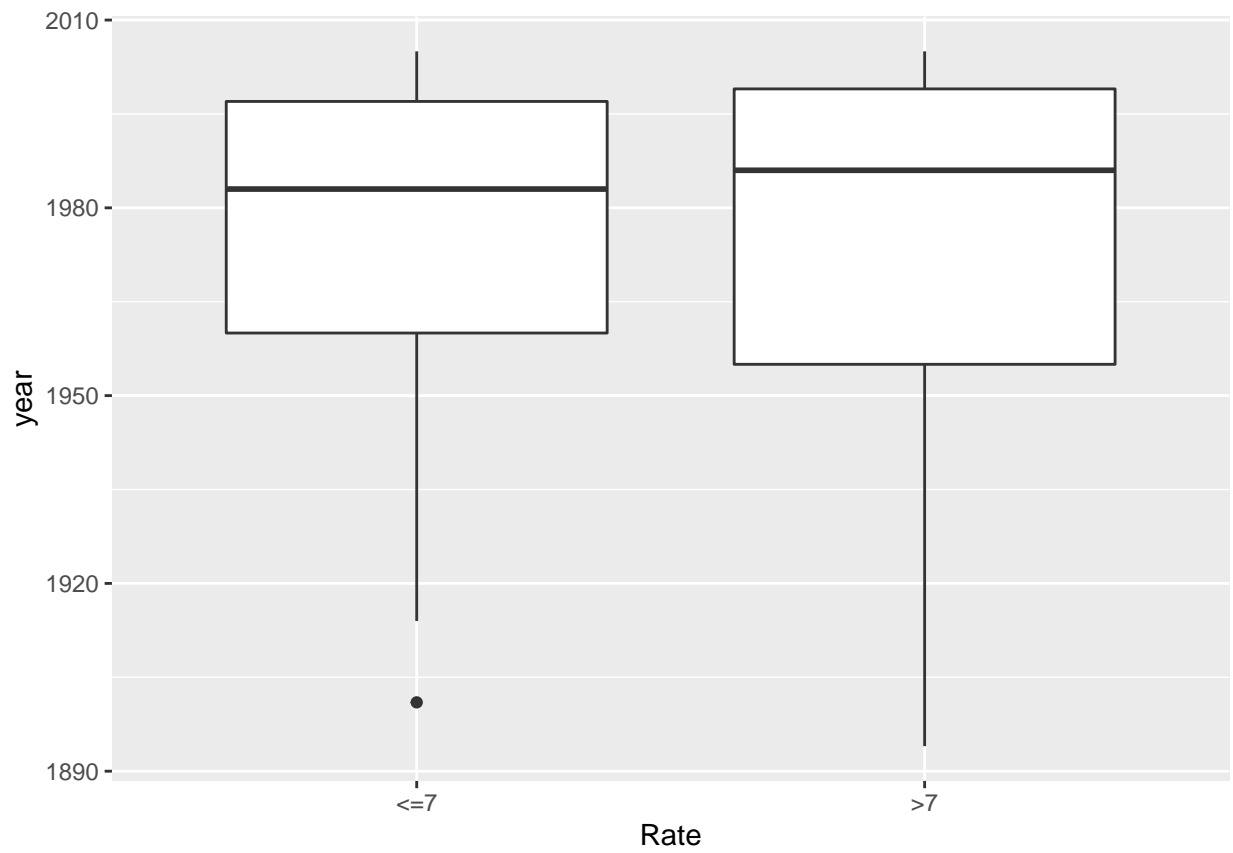


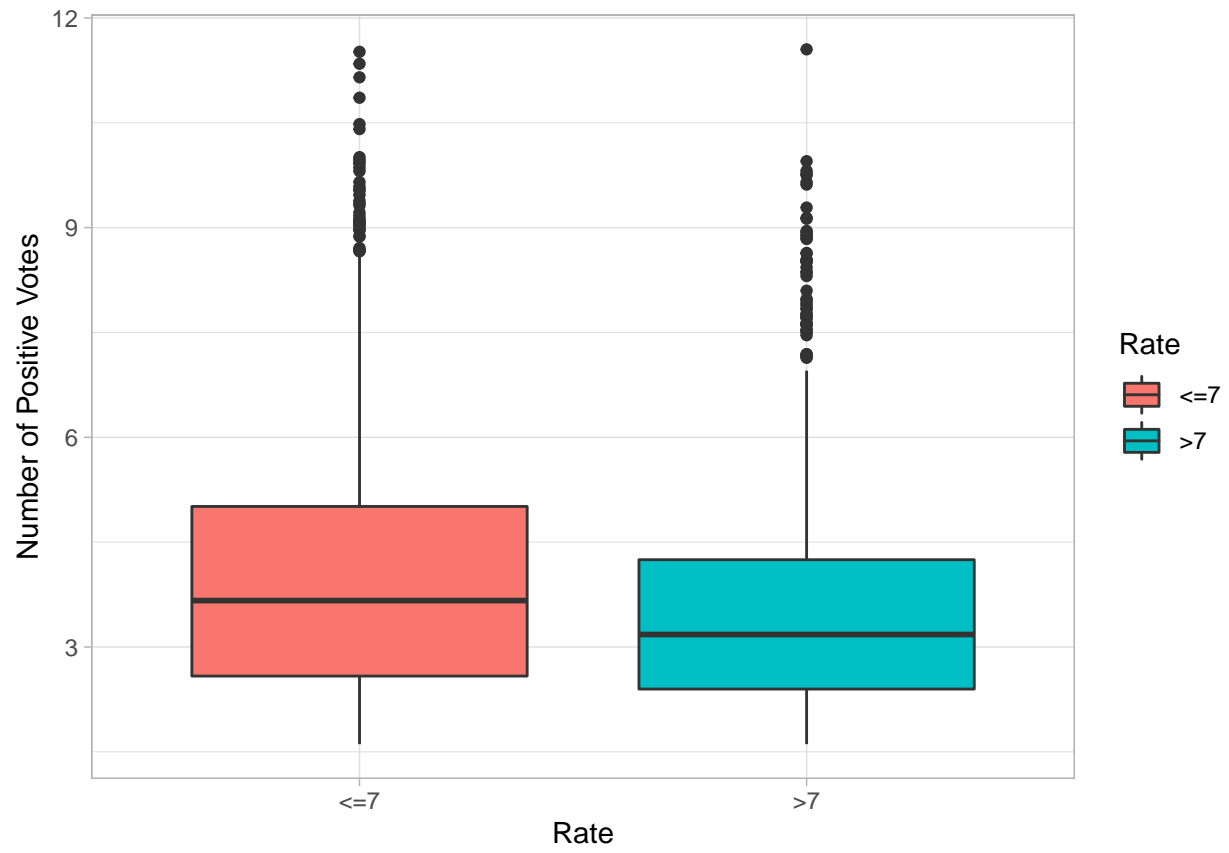
Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
1.00	72.00	90.00	81.41	100.00	399.00	92

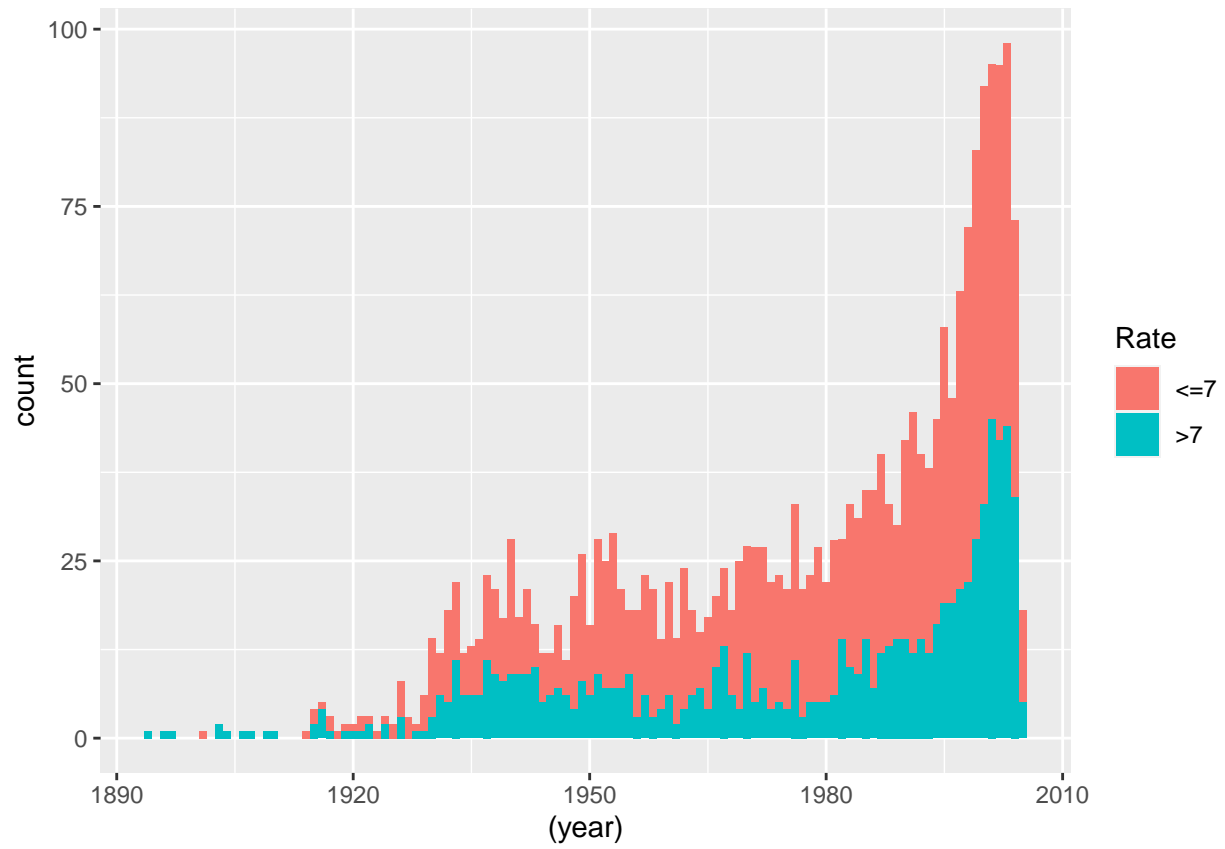
[1] 87

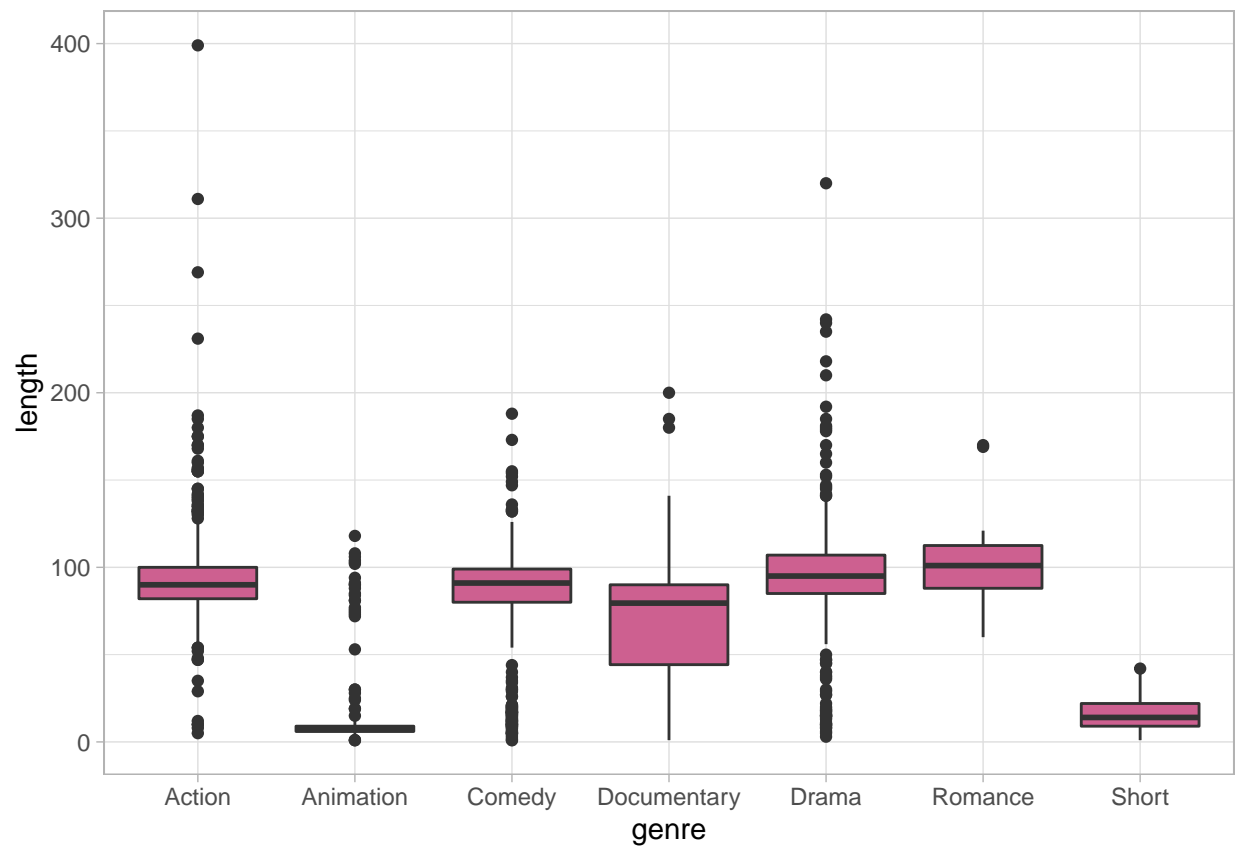


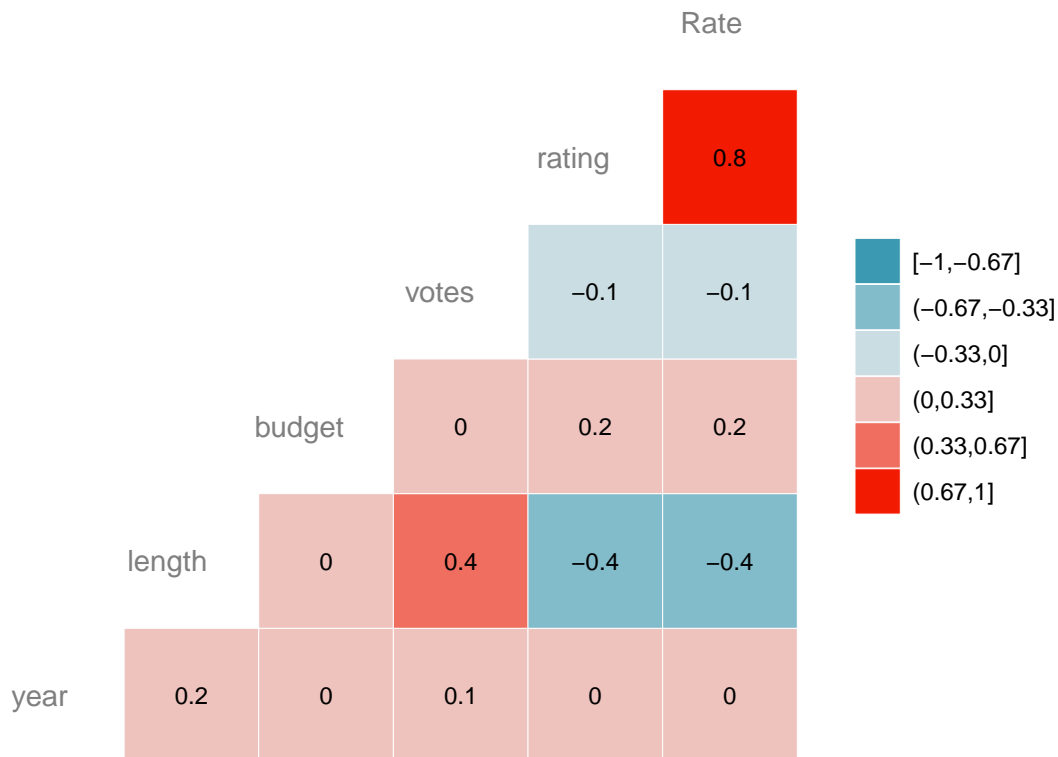












We see in general films' duration are roughly in same range except Animation and Short films. Both have comparatively smaller length

Call:

```
glm(formula = Rate ~ genre + length, family = binomial(link = "logit"),
    data = film)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-2.9520	-0.5677	-0.2469	0.3637	4.1533

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	1.832605	0.269055	6.811	9.67e-12 ***
genreAnimation	-0.257000	0.299480	-0.858	0.390809
genreComedy	1.949419	0.143447	13.590	< 2e-16 ***
genreDocumentary	3.989061	0.373338	10.685	< 2e-16 ***
genreDrama	-1.576207	0.222284	-7.091	1.33e-12 ***
genreRomance	-13.669351	348.890679	-0.039	0.968747
genreShort	3.499947	1.028815	3.402	0.000669 ***
length	-0.038875	0.002934	-13.250	< 2e-16 ***

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

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 2982.5 on 2294 degrees of freedom