Lab 4. Data Preparation

Select the most relevant data:

Exploring the most relevant data:

```
average_ratings_per_user <- rowMeans(ratings_movies)

qplot(average_ratings_per_user) + stat_bin(binwidth = 0.1) +

ggtitle("Distribution of the average rating per user")

## stat_bin: binwidth defaulted to range/30. Use 'binwidth = x' to adjust this.</pre>
```

Normalising data:

```
ratings_movies_norm <- normalize(ratings_movies)
sum(rowMeans(ratings_movies_norm) > 0.00001)
## [1] 0
```

Visualize the normalized matrix (it's colored because the data is continuous):

Binarising data

1st option: define a matrix equal to 1 if the movie has been watched

2nd option: define a matrix equal to 1 if the cell has a rating above the threshold

```
ratings_movies_good <- binarize(ratings_movies, minRating = 3)
image(ratings_movies_good[rowCounts(ratings_movies) > min_movies_binary,
colCounts(ratings_movies) > min_users_binary],
main = "Heatmap of the top users and movies")
```