

Lab 4: Construct Bootstrap Intervals

The dataset `movies20.RData` contains the RottenTomatoes scores of 20 films.

1. Plot a histogram showing the distribution of the movie scores. Find the sample mean and standard deviation of these scores.
2. Construct a bootstrap distribution of 200 means calculated based on this data. Plot a histogram showing this bootstrap distribution.
3. Construct a 95% bootstrap interval for the average RottenTomatoes score of the movies.
4. How is this bootstrap interval different from the 95% confidence interval based on t distribution? Which one do you think is more plausible?