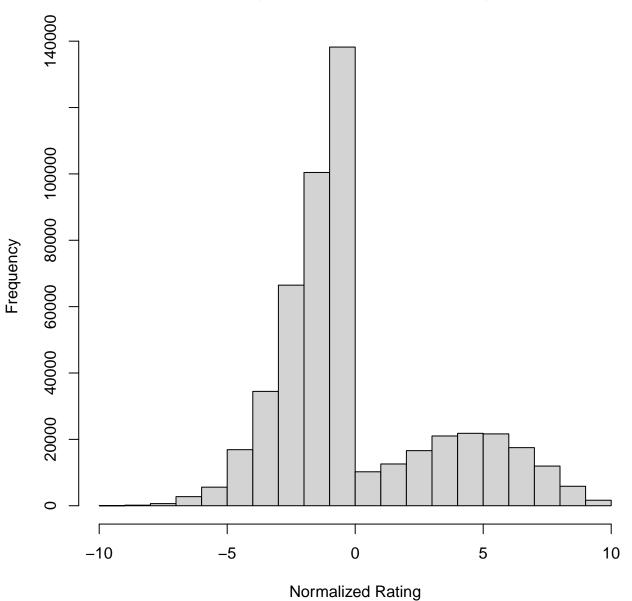
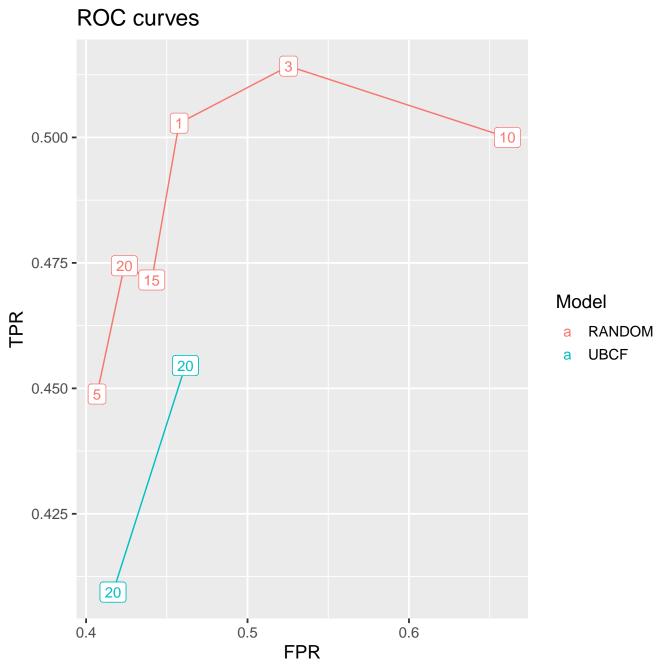
## **Histogram of Normalized Ratings**





## Precision-Recall curves 0.87 -20 15 0.86 -20 20 3 0.85 -Precision Model **RANDOM UBCF** 0.84 -0.83 -0.82 -10 0.450 0.500 0.475 0.425 **TPR**