







ALL MANGA USERS DON'T ALWAYS RATE THE SAME WAY. Distribution of Mean Scores Given by Users Number of Users per Score Format POINT_10_DECIMAL 4000 3500 POINT_10 of Users 2500 POINT_100 -Numper 2000 -POINT_5 -1000 500 POINT_3 20 80 100 75000 100000 125000 150000 175000 200000 25000 50000 Mean Score Given Count



HOW TO EVALUATE A RECOMMENDER SYSTEM?

MEAN ABSOLUTE ERROR

Measures how far (on average)
the predicted ratings are from
the actual user ratings.

PRECISION@K SCORE

In the recommender's top 10 recommendations, how many were relevant* for the user

RECALL@K SCORE

Out of all the relevant* manga, how many were in the top 10 recommendations for the user

*A MANGA TITLE WITH A RATING ABOVE 7 IS CONSIDERED RELEVANT

EVALUATION METRICS

Algorithm Name	FCP	MAE	RMSE	Precision@10	Recall@10
Baseline Only	0.747	1.008	1.356	0.946	0.501
KNN Basic	0.745	1.106	1.522	0.955	0.498
KNN Baseline	0.783	0.885	1.219	0.958	0.506
SVD	0.881	0.637	0.895	0.981	0.513
KNN with Z-Score	0.771	0.928	1.272	0.949	0.497
KNN with Means	0.773	0.952	1.293	0.942	0.492
Co-clustering	0.720	1.015	1.378	0.943	0.497
Slope One	0.886	0.709	1.048	0.963	0.497
Non-negative Matrix Factorization	0.801	1.608	1.851	0.869	0.317
Random Normal Predictor	0.495	2.125	2.680	0.762	0.333

Table 1: Comparison of different recommendation algorithms based on FCP, MAE, RMSE, Precision@10, and Recall@10 scores on the test set. Bold values indicate the best results.

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