

SUMMARY

These files contain 1,000,209 anonymous ratings of approximately 3,900 movies made by 6,040 MovieLens users who joined MovieLens in 2000.

USAGE LICENSE

Neither the University of Minnesota nor any of the researchers involved can guarantee the correctness of the data, its suitability for any particular purpose, or the validity of results based on the use of the data set. The data set may be used for any research purposes under the following conditions:

- * The user may not state or imply any endorsement from the University of Minnesota or the Grouplens Research Group.
- * The user must acknowledge the use of the data set in publications resulting from the use of the data set (see below for citation information).
- * The user may not redistribute the data without separate permission.
- * The user may not use this information for any commercial or revenue-bearing purposes without first obtaining permission from a faculty member of the Grouplens Research Project at the University of Minnesota.

If you have any further questions or comments, please contact Grouplens <grouplens-info@cs.umn.edu>.

CITATION

To acknowledge use of the dataset in publications, please cite the following paper:

F. Maxwell Harper and Joseph A. Konstan. 2015. The MovieLens Datasets: History and Context. ACM Transactions on Interactive Intelligent Systems (TiiS) 5, 4, Article 19 (December 2015), 19 pages. DOI=<http://dx.doi.org/10.1145/2827872>

ACKNOWLEDGEMENTS

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FURTHER INFORMATION ABOUT THE GROUPLENS RESEARCH PROJECT

The Grouplens Research Project is a research group in the Department of Computer Science and Engineering at the University of Minnesota. Members of the Grouplens Research Project are involved in many research projects related to the fields of information filtering, collaborative filtering, and recommender systems. The project is lead by professors John Riedl and Joseph Konstan. The project began to explore automated collaborative filtering in 1992, but is most well known for its world wide trial of an automated collaborative filtering system for Usenet news in 1996. Since then the project has expanded its scope to research overall information filtering solutions, integrating in content-based methods as well as improving current collaborative filtering technology.

Further information on the Grouplens Research project, including research publications, can be found at the following web site:

<http://www.grouplens.org/>

GroupLens Research currently operates a movie recommender based on collaborative filtering:

<http://www.movielens.org/>

RATINGS FILE DESCRIPTION

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All ratings are contained in the file "ratings.dat" and are in the following format:

UserID::MovieID::Rating::Timestamp

- UserIDs range between 1 and 6040
- MovieIDs range between 1 and 3952
- Ratings are made on a 5-star scale (whole-star ratings only)
- Timestamp is represented in seconds since the epoch as returned by time(2)
- Each user has at least 20 ratings

USERS FILE DESCRIPTION

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User information is in the file "users.dat" and is in the following format:

UserID::Gender::Age::Occupation::Zip-code

All demographic information is provided voluntarily by the users and is not checked for accuracy. Only users who have provided some demographic information are included in this data set.

- Gender is denoted by a "M" for male and "F" for female
- Age is chosen from the following ranges:

- * 1: "Under 18"
- * 18: "18-24"
- * 25: "25-34"
- * 35: "35-44"
- * 45: "45-49"
- * 50: "50-55"
- * 56: "56+"

- Occupation is chosen from the following choices:

- * 0: "other" or not specified
- * 1: "academic/educator"
- * 2: "artist"
- * 3: "clerical/admin"
- * 4: "college/grad student"
- * 5: "customer service"
- * 6: "doctor/health care"
- * 7: "executive/managerial"
- * 8: "farmer"
- * 9: "homemaker"
- * 10: "K-12 student"
- * 11: "lawyer"
- * 12: "programmer"
- * 13: "retired"
- * 14: "sales/marketing"
- * 15: "scientist"
- * 16: "self-employed"
- * 17: "technician/engineer"
- * 18: "tradesman/craftsman"
- * 19: "unemployed"
- * 20: "writer"

MOVIES FILE DESCRIPTION

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Movie information is in the file "movies.dat" and is in the following format:

MovieID::Title::Genres

- Titles are identical to titles provided by the IMDB (including year of release)
- Genres are pipe-separated and are selected from the following genres:

- * Action
- * Adventure
- * Animation
- * Children's
- * Comedy
- * Crime
- * Documentary
- * Drama
- * Fantasy
- * Film-Noir
- * Horror
- * Musical
- * Mystery
- * Romance
- * Sci-Fi
- * Thriller
- * War
- * Western

- Some MovieIDs do not correspond to a movie due to accidental duplicate entries and/or test entries
- Movies are mostly entered by hand, so errors and inconsistencies may exist