# Tutorials – final day

For the last day, you should prepare a Jupyter notebook with the following:

- reading the data from database into a Pandas DataFrame
- calculation of similarities
- at least one simple recommender. You can choose from the following list or select your own:
    - user-based collaborative recommender
    - item-based collaborative recommender
    - Slope One recommender
    - Association rules recommender
    - matrix factorization (SVD)-based recommender
- prepare working examples that you will use for demonstration

Data: work on MovieLens 100K dataset (or bigger)

Holdout data: for 100 users with most ratings hold out 10 movies with most ratings.

Evaluation: calculate MAE and MSE on the holdout set, for at least one chosen method.

You decide what tools to use. You can implement everything by yourself or use the Surprise library.

Please be prepared to show me everything in **2-3 minutes**. Everything should work smoothly!