# Recommending frameworks

*ClayRS,* [*https://github.com/swapUniba/ClayRS*](https://github.com/swapUniba/ClayRS)

DaisyRec, <https://github.com/recsys-benchmark/DaisyRec-v2.0>

*Elliot,* [*https://github.com/sisinflab/elliot*](https://github.com/sisinflab/elliot)

*Cornac,* [*https://github.com/PreferredAI/cornac*](https://github.com/PreferredAI/cornac)

LensKit, <https://github.com/lenskit/lenskit>

MS Recommenders, <https://github.com/recommenders-team/recommenders>

RecBole, <https://github.com/RUCAIBox/RecBole>

*RecPack,* [*https://github.com/LienM/recpack*](https://github.com/LienM/recpack)

Mab2rec, <https://github.com/fidelity/mab2rec>

ReChorus, <https://github.com/THUwangcy/ReChorus>

RecList, <https://github.com/RecList/reclist>

FuxiCTR, <https://github.com/reczoo/FuxiCTR>

## Instructions

Evaluate the usability of individual recommendation frameworks. Do the following:

**Required:**

* Describe 2-3 the key advantages of the framework (self-reported by authors)
* Install the framework (note any difficulties)
* Try to implement/run a basic “RecSys Hello World” (any algorithm, any dataset)
  + How long does it take to make the code running?
  + How good is the support (documentation, tutorials, ready-to-use code...)?
* Evaluate the recommendations offline over any reasonable train-test splits & some relevance-based metrics (precision, nDCG, RMSE, CTR...)
  + How long does it take?
  + How good is the support (documentation, tutorials,...)?
  + How broad is the selection of metrics?

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**Nice to have some of the following:**

* Expand “RecSys Hello World” to incorporate and evaluate multiple algorithms
  + Any major obstacles?
  + How broad is the selection of algorithms?
* Add a dummy recommender (e.g., random or static recommendations)
  + Was it straightforward to implement it, or too much “ballast code”?
  + How long does the integration take?
  + Did you run into some troubles/obstacles?
  + Was the case well documented?
* Modify the dataset. Add a new user with several ratings. Then, test the algorithms only w.r.t. this user.
  + Again, straightforwardness, integration time, obstacles?

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*Discuss with others, try to compare individual frameworks, and ideally provide +/- points or relative comparison of frameworks..*

Some results exist from previous years (together for Labs1&2): <https://docs.google.com/spreadsheets/d/1Bpb4TkW0teDQvwKryswh_Fhrt2qa-cqAfwuPRx-oxSo/edit?usp=sharing>