

Lisp in Summer Projects Submission

Submission Date	2013-10-24 04:13:06
Full Name	mike bobak
Country	United States
Project Name	knowledge-modeling-env
Type of software	library
General category	utility
LISP dialect	Common Lisp
GitHub URL	MBcode kme,(cl-kme,kmp)
Did you start this project?	No, I'm modifying or extending an existing project.
Which file or directory contains the majority of your work?	everything in those dirs not already in LispUtils&kmb..
Briefly describe your modifications	I evaluated a large number of libraries, and started to pull them in, so they could be a more useful set of utilities.
Project Description	I want to describe my project in this form.
Purpose	A place to have KnowledgeRepresentation&Reasoning/semanticweb-libs aid the Machine-Learning/data-modeling process.
Function	It brings many of these libraries together in one place, so that development could more easily benefit from their union.
Motivation	At some point I'd like to take this summer's investigation forward into something that could be an end-to-end data-'science' aid; from aided ETL, to algorithm suggestions for modeling&visualization.
Audience	For personal (exploration) right now, but if others become interested I'd like to incorporate much more work that is going on in the area, over the next year/s.

Methodology

Each of the versioning/s are asdf loadable, w/some tests built in &/or callable for some of the newer collected lib functionality that I explored, and pulled in.

Some data load, &MachineLearning Lib use, such that it can also be represented in the KM reasoner; to later make suggestions. Also a few semantic-web libs, that make sparql queries &(by the kmp version)incorporate even more into the reasoner, to buffet up the background knowledge, to be able to make even better predictions.

Later I'll get more of a better (distributed service) framework for the algorithms, and to be able to push forward not just the data-modeling, but suggesting about the algorithm use. I don't expect a fully goal-based running of a described problem, but more an aid.

Conclusion

As an exploration it raised lots of idea of what might be usable for a much longer effort. Though the final vision is beyond what could be even decently done in many times the given time. I'm still glad I did it, and will either work it into my consulting: <http://bobak7.wix.com/bobak> &/or turn parts of it into an open-source tool. If I took it beyond ML/datamining, to a real (scientific) aided-Problem-Solving-Environment (service); I would consider having it be from an open BOINC.berkeley like general-tool/platform, to something of a more private/paid .com service; some of the more open work could be done in a more collaborative kaggle.com sort of way (as the (citizen)scientific community has always meant to be).

ps. this looked much more low-key till all of this was released in the end.

Build Instructions

load asd files

Some test data needs linking from the lib dirs.

Test Instructions

asd test &/or test functions at the bottom of some of the files

Execution Instructions

Running the test, fnc/s

Describe any bugs or caveats

some continuable warnings

Official

I have read rules and have abided by them.

I am 18 years of age or older.

I am not living in Brazil, Quebec, Saudi Arabia, Cuba, Iran, Myanmar (Burma), North Korea, Sudan, or Syria.