Lisp in Summer Projects Submission

Submission Date	2013-10-23 07:03:42
Full Name	saupin guillaume
Country	france
Project Name	Lisphys : Physical simulation using Automatic Differentiation
Type of software	library
General category	robotics
LISP dialect	Commmon Lisp
GitHub URL	https://github.com/kayhman
Did you start this project?	Yes, all the code is written by me
Project Description	I want to upload a free-form 3-4 page PDF composition.
Upload 3-4 page detailed PDF	lisphys.pdf
Build Instructions	You need emacs with quicklisp and slime installed . Then, simply launch emacs, start slime (M-x slime) and run : CL-USER> (ql::quickload "lisphys") CL-USER> (in-package #:lisphys) LISPHYS> (start) This will open an opengl windows with a simple example of double pendulum.
Test Instructions	To ensure the correctness of the computation, manye test have been written. They are ran each time lisphys is loaded using quicklisp. They can be found in the `tests directory`_. You can run them manually as follow : CL-USER> (in-package #:lisphys) LISPHYS> (run-suite 'LisPhysSuite)
Execution Instructions	Simply launch emacs, start slime (M-x slime) and run :

	CL-USER> (ql::quickload "lisphys") CL-USER> (in-package #:lisphys) LISPHYS> (start)
Describe any bugs or caveats	There is no known bugs, but there is much to do to have a user friendly api.
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.