Final Project Proposal

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1 Project Description

The project we will be working on is a Lisp Image Convolution program. The program will take in a JPEG image file as input, manipulate a copy of the image according to some user-specified filter, and output the filtered image as a new JPEG. The work associated with this project will consist of writing the code to process the image, creating a set of filters, and writing the manipulated image data to a new file. In addition, we will be creating a front-end to allow the user to interact with the program without having to actually write Lisp function calls.

2 Tools used

The interface for the project will be a GUI. The GUI is created using the Lisp ToolLit (LTK). The LTK documentation is: http://www.peter-herth.de/ltk/ltkdoc.pdf. Screen shots of a GUI demo can be found at http://www.peter-herth.de/ltk/ltk-osx.png. Furthermore, to read, manipulate, and write JPEG images, we will be using opticl, https://github.com/slyrus/opticl.