

Project Progress Report

Application for Interactive LED Visualization

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CSE 237D

Background

The University of California, San Diego's (UCSD) Computer Science and Engineering (CSE) department building was constructed in 2005. The architects who designed this state-of-the-art teaching and research facility designed the building with a unique look and feel. Along these lines, they designed the floor plan of the building to be shaped like a foot. In the "big toe" of the building, the architects included tri-color LED fixtures. These iColor Cove fixtures, usually found in theater lighting systems and clubs, are the first model in a successful line of lights by Color Kinetics. With seventy fixtures lining the large windows on each floor of the big toe, these LEDs are able to fill the room with colorful ambient light.

Each fixture can be independently set to one of 16.7 million additive RGB colors through DMX-512 signaling protocol. However, since the building was completed access to these fixtures has been limited to a panel on each floor that can execute up to eight preprogrammed light shows. Also, because the big toe rooms have restricted access and the LEDs are most observable at night, there is little opportunity for students to use them.

During the fall of 2009 I worked with Catherine Wah and Emmett McQuinn on a group project for our compilers class (CSE231). The project goals were to develop a simple language for programming light shows and the software for compiling the language and displaying the results in a simulator or on the LED fixtures in the big toe. The project concluded with a successful demonstration of programs developed in our language being compiled and displayed on one floor of the big toe.

Project Goal

The goal of this project is to develop a method for students to remotely control the big toe LEDs, increasing their overall accessibility and mindshare. This will be done by building on the compilers project from the fall quarter. I will create an application for Google's Android OS that will allow users to write programs in our language and then send them to a web server that will compile and execute the programs, displaying them on the big toe fixtures. Additionally, if this goal is completed in a timely fashion, the application will be expanded to include a method of manually controlling the fixtures and a simulator to allow users to view a visualization of their program before submitting it to the server.

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