

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.

Norris Project A Comprehensive Report

Camilla Rothe



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Table of Contents Norris Project A Comprehensive Report

1. Understanding the eBook Norris Project A Comprehensive Report
 - The Rise of Digital Reading Norris Project A Comprehensive Report
 - Advantages of eBooks Over Traditional Books
2. Identifying Norris Project A Comprehensive Report
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Norris Project A Comprehensive Report
 - User-Friendly Interface
4. Exploring eBook Recommendations from Norris Project A Comprehensive Report
 - Personalized Recommendations
 - Norris Project A Comprehensive Report User Reviews and Ratings
 - Norris Project A Comprehensive Report and Bestseller Lists
5. Accessing Norris Project A Comprehensive Report Free and Paid eBooks
 - Norris Project A Comprehensive Report Public Domain eBooks
 - Norris Project A Comprehensive Report eBook Subscription Services
 - Norris Project A Comprehensive Report Budget-Friendly Options

6. Navigating Norris Project A Comprehensive Report eBook Formats
 - ePub, PDF, MOBI, and More
 - Norris Project A Comprehensive Report Compatibility with Devices
 - Norris Project A Comprehensive Report Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Norris Project A Comprehensive Report
 - Highlighting and Note-Taking Norris Project A Comprehensive Report
 - Interactive Elements Norris Project A Comprehensive Report
8. Staying Engaged with Norris Project A Comprehensive Report
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Norris Project A Comprehensive Report
9. Balancing eBooks and Physical Books Norris Project A Comprehensive Report
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Norris Project A Comprehensive Report
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Norris Project A Comprehensive Report
 - Setting Reading Goals Norris Project A Comprehensive Report
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Norris Project A Comprehensive Report
 - Fact-Checking eBook Content of Norris Project A Comprehensive Report
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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