

## Childhood Memories - Grp 4 Implementation

### Overview

Our childhood memories lightshow involves a collection of personal and holiday memories expressed through the pharos lighting design system on CMU's Randy Pausch memorial bridge. The show will consist of various personal memories, hoping to have the ability to expand in the future and represent more memories and holidays. For the initial light show we will include memories from Chinese New Years, Birthdays, Christmas, and summer. Each memory will be created with Pharos and stitched together to create a cohesive piece and even have sections from other memories pop up in the other memories. Ultimately, the "Childhood Memories" project will be a great way to represent the cmu community and allow more and more people to contribute to the amount of memories within the show.

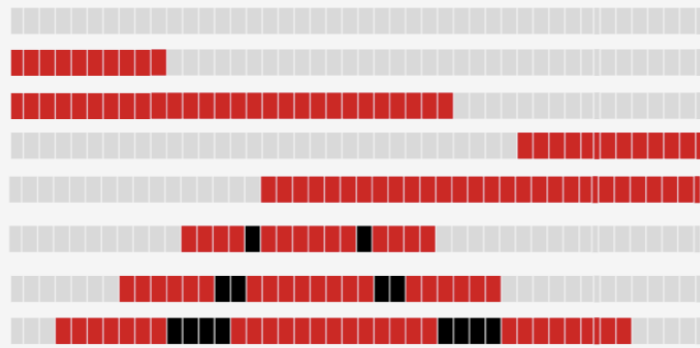
### Lighting Description

Chinese New Year's:

The dragon animation will be created using Pharos and will include moving a group of lights across the bridge over time. The ending culminates into a fireworks show that transitions to the next memory.

#### Chinese New Year's

dragon animation of hopping around and then dragon goes up you



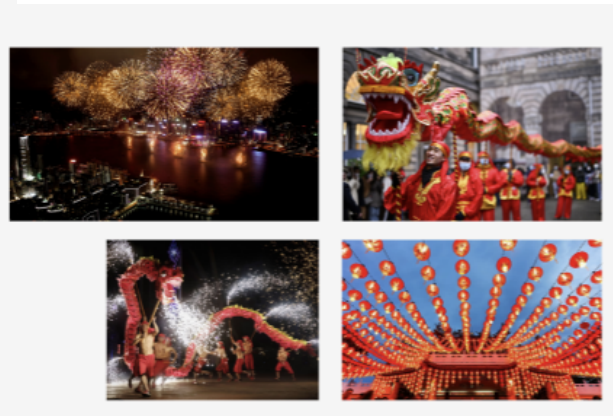
it splits off into lanterns that light up the night



it ends with a celebration of fireworks

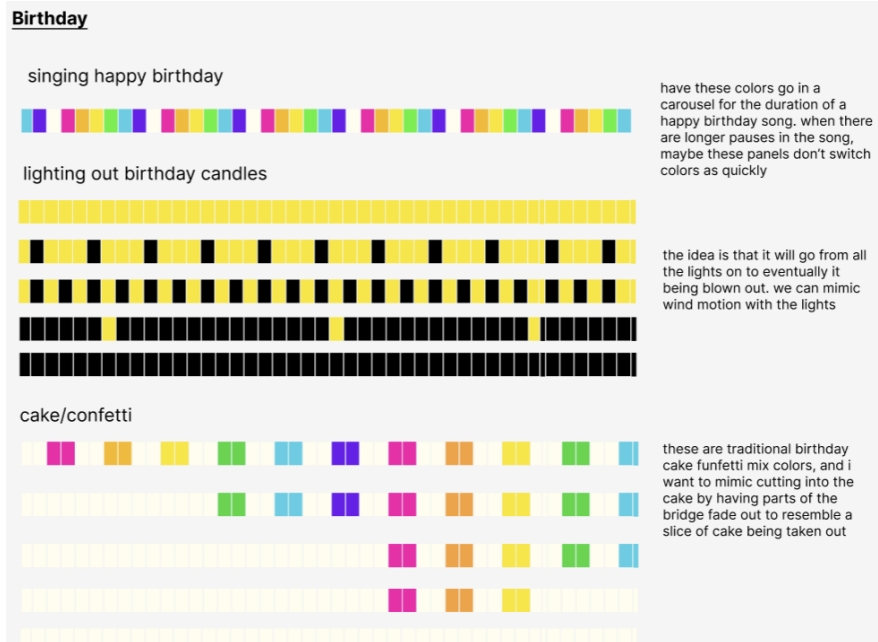


before fading into the next memory sequence



## Birthdays:

The birthday memory will consist of an array of colors at first, emulating singing happy birthday and nicely transitioning from the array of colors from the fireworks show before.



## Summer:

The summer section of the show will transition nicely from the end of the birthday as the blowing out the candles moment will leave the bridge dark and set up the sunrise of the summer memory,

## Summer

### Part 1

Ocean and beaches - The day begins with a visit to the beach

The first view is of the beach on a sunrise, where the blue water keeps coming and going over the beach



Then they see beach balls and umbrellas around



As the day passes, the people and fishes fill the beach and ocean



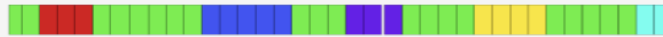
### Part 2

Parks - As the day progresses, children reach parks and start enjoying the playground

The first view that the child gets is of a lush green playground through a wooden fence



Then they enter the park and see the brightly colored rides which appear through a fade in



As the kids approach the rides they see kids running around everywhere



These black boxes will be running across the bridge in a fast motion

### Part 3

Fireflies - As the summer begins, children start observing fireflies

First the bridge is completely dark and a few random fireflies appear



Then a few more appear to accompany them



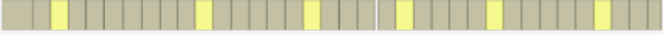
Then more than half the bridge lights up as they all come together, the bridge flashes at random spots



After some time, the morning comes and fireflies start fading away



As the morning comes, very few of them remain and they slowly fade away



Christmas:

The christmas memory will begin with the previous memory getting brighter and brighter to then emerge into the christmas green and red lights.

## Christmas

### Part 1

Fade in from the left then alternate colors as it fades in/away from the right



Fade dark colors to light then slide to white

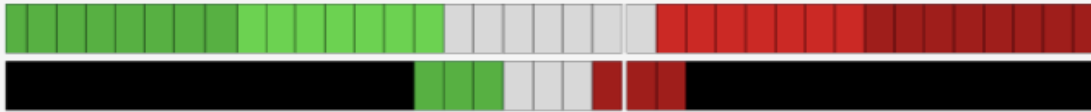


### Part 2

Random sparkling (quick fade ins but not flashing) of white that resembles a snowy Christmas. Fades into sparkling of white and christmas colors, maybe slightly lighter



Fade in colors from both the left and right



As the outer colors converge in to a point white explodes from the center in both directions

## Lighting Implementation

Show length: >5 min

1. Chinese New Year's
  - a. Can do both scripting or pharos but will probably be best with pahros
  - b. Some experimenting is needed to find the best way to emulate the dragons eyes with the pharos system
  - c. Start working on transition from dragons eyes expanding and the lanterns coming to life, start testing on bridge
2. Birthdays
  - a. Pharos for the entire part
  - b. Shouldn't be too bad to have a mix of colored lights and then a full white light get progressively faded to black
3. Summer
  - a. Pharos
  - b. Will need time to experiment with the transitions between the three parts

- c. The firefly show will need to be determined in how/which lights will come on; if it will be random or in a pattern etc.
4. Christmas
- a. Pharos
  - b. Will use the present for the alternating pattern at first
  - c. Some experimentation will be needed for the snow sparkling and falling and how to make it fade 'randomly', have to figure out how fast the white can fade in and out in order to not be tiring on the viewer but also have a snowflake like sparkle
  - d. Look at snow falling in the light as reference

### **Implementation Testing**

We tested on the bridge and here is a link to the early testing of the designs: [link](#) We can use this for reference when looking at how colors actually appear on the bridge and how the transitions work.

### Questions

- can we all work better in one pharos or bring it together later?
- Is there a way to customize the presets and save them named or combine them with others?