



# Wentworth Institute of Technology

## College of Engineering

### Department of Computer Science & Networking

### Senior Design - Summer 2012

### MultiSaver

Alex Jackson, Arthur Charlton, Timothy Brantley II for Professor Durga Suresh

## INTRODUCTION

Multisaver is a project intended to give users with multiple monitors a robust suite of screensaver tools. It expands on Windows' natural screensaver options by allowing a user to configure the display of a screensaver among all of their monitors in any configuration.

## DESIGN

- Configuration Panel
  - Written in C# using WPF
  - Saves to an XML file
- Screensaver
  - Written in C# using XNA
  - Reads XML file from Configuration Panel and displays various screensavers based on settings

## MODES & OPTIONS

### Slideshow

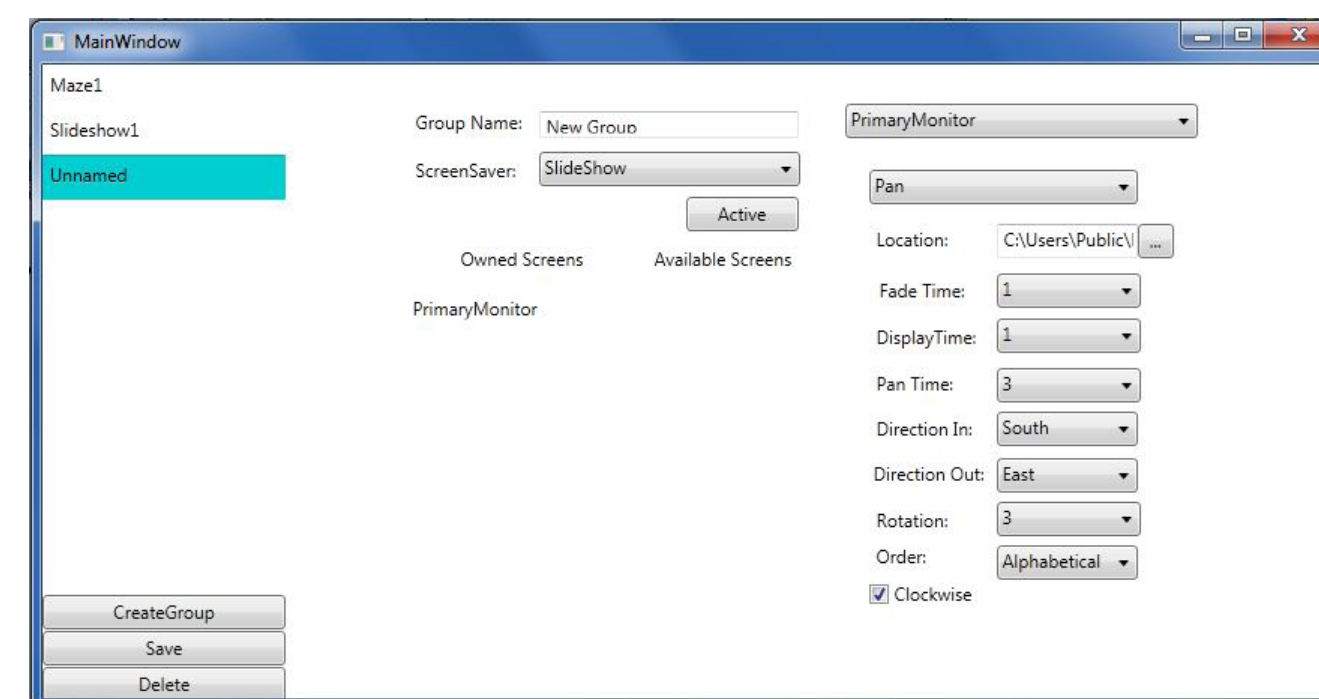
- Pieces (How many segments the pictures break into when transitioning)
- Transition Time (Length of delay)
- Transition Type (How it transitions)
  - Pan (Pictures slide in and out)
  - Fade (Pictures fade in and out)
  - Spiral (Pictures spin in and out)

### Maze

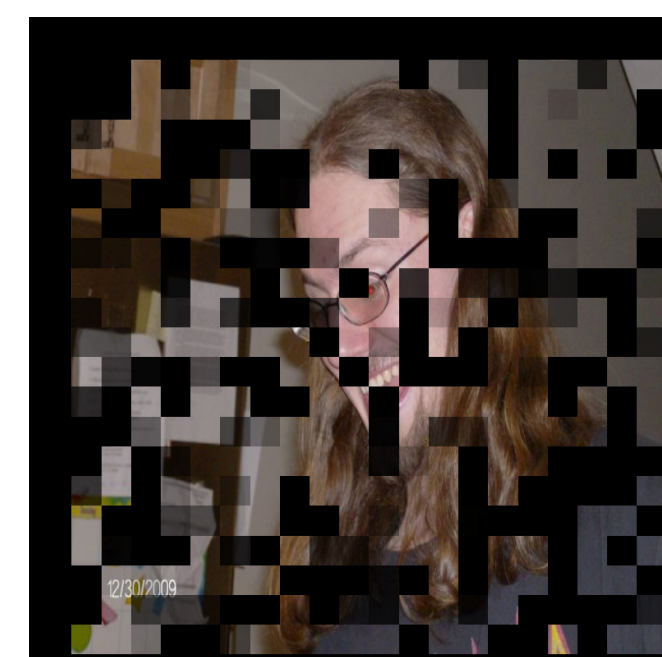
- Maze Size
- Artificial Intelligence (AI) View
  - Search Algorithm (Solve method)
- Maze Overview (Top-down view)

## PROTOTYPE

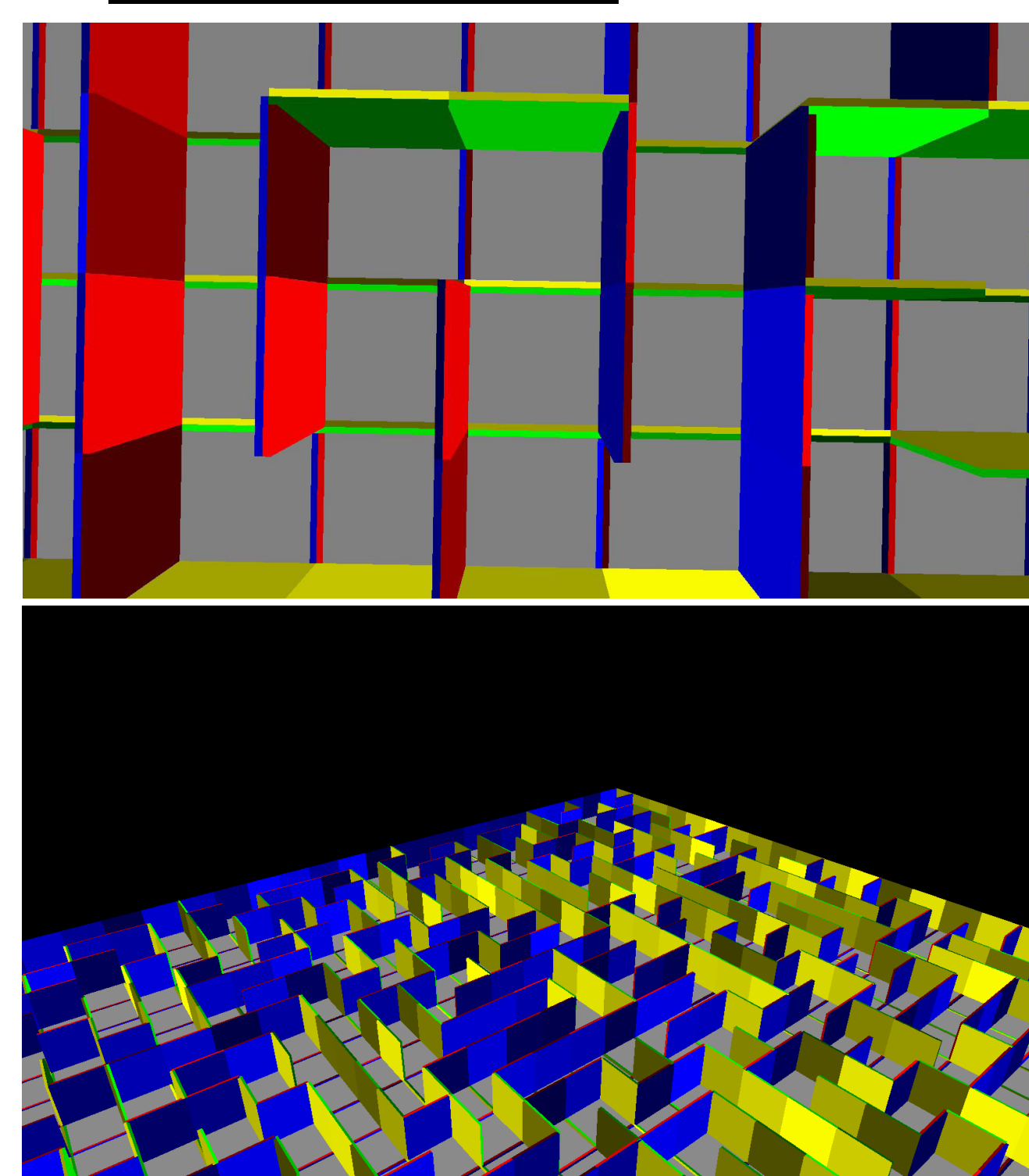
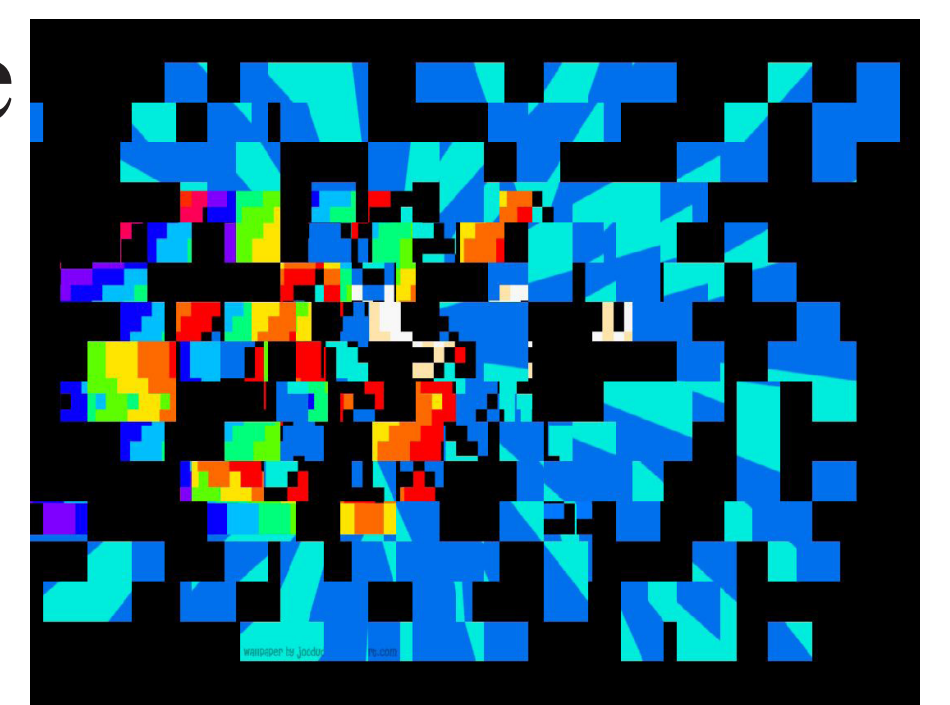
The configuration panel always a user to arrange their monitors and select the desired mode.



The slideshow mode displays pictures from a photoalbum



with a variety of transition types.



The maze is randomly generated and AIs attempt to solve it. A monitor can watch an AI realtime or see the overall progress.

## CONCLUSION

The project was able to give the users something to really look at when their computer is not in use.

## REFERENCES

1. MultiSaver on Git Hub (<https://github.com/LynxStar/MultiSaver>)
2. XNA Development Center (<http://msdn.microsoft.com/en-us/centrum-xna.aspx>)