S.A.G.E Air Defense System

Presented by

James Harvey - Research Paper Writer
Yuya Kawakubo - The most handsome actor in the world!!!
Amber Li - Photo Editor
Jeffrey Zhu - Team Secretary

Members of team (tasks broken down)

James Harvey: Focus mainly on the paper

Yuya Kawakubo: The most handsome actor in the world!!!!!!
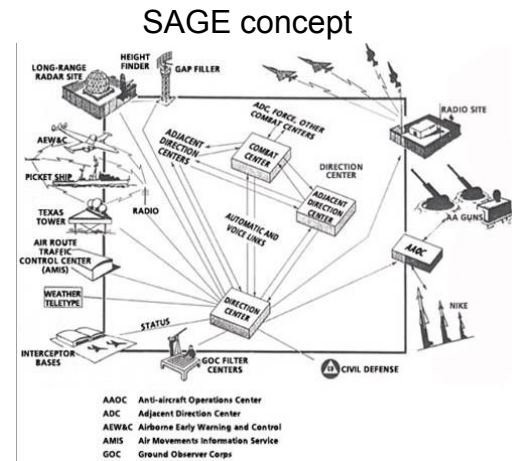
Amber Li: Picture editing

Jeffrey Zhu: Team secretary

Original

Background

SAGE concept

- 1963-1984
- IBM AN/FSQ-7 computer
- Defense network created by the United States to detect and stop airborne attacks during the Cold War
- 23 centers around the country communicated with each other
- The operator scanned for enemy aircrafts and used light guns to select targets on screen
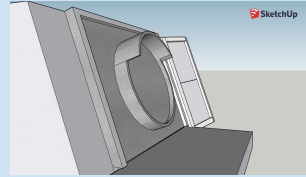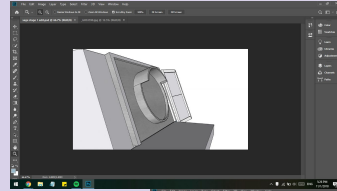- Magnetic core memory

Our Reenactment

Comparison

In progress

Photoshoot at CS Multimedia Lab

Sketchup

Photoshop

Prototyping

- In creating the visual, two prototypes were made
  - Attempt 1: SAGE model by combining common objects
  - Attempt 2: Virtual SAGE model creation

Prototype 1   V.S.   Prototype 2

Difficulties (Compromises)

- The equipment: rareness of such computer
- Time management: midterms, other assignments
- Creating a composite image
- No pre-existing models in the Sketchup 3D Warehouse that matched the SAGE computer
- Making the Sketchup model look realistic next to our actor
- Recreating the glass screen with shading and highlights

Analysis for next project

Carry on:

- Prototyping

- Team communication

Improvements:

- Technical limitations

- Preparations (equipments)

Citations

https://www.ll.mit.edu/about/history/sage-semi-automatic-ground-environment-air-defense-system

http://www-03.ibm.com/ibm/history/ibm100/us/en/icons/sage/