

Division of Visual Computing

**Donald H. House
Chair**

**April 2, 2010
School of Computing
Clemson University**

Goals of the presentation

Foundations

People

Programs

Foundations

A philosophical foundation

“In this Day whatsoever serveth to reduce blindness and to increase vision is worthy of consideration. This vision acteth as the agent and guide for true knowledge. Indeed in the estimation of men of wisdom keenness of understanding is due to keenness of vision.”

- Bahá'u'lláh

A conceptual foundation for Visual Computing

Visual computing includes the arts and sciences

That use computational methods to engage the visual mind

To enhance understanding

To make the invisible visible

**In other words, anything involving both computation and
vision**

Directions

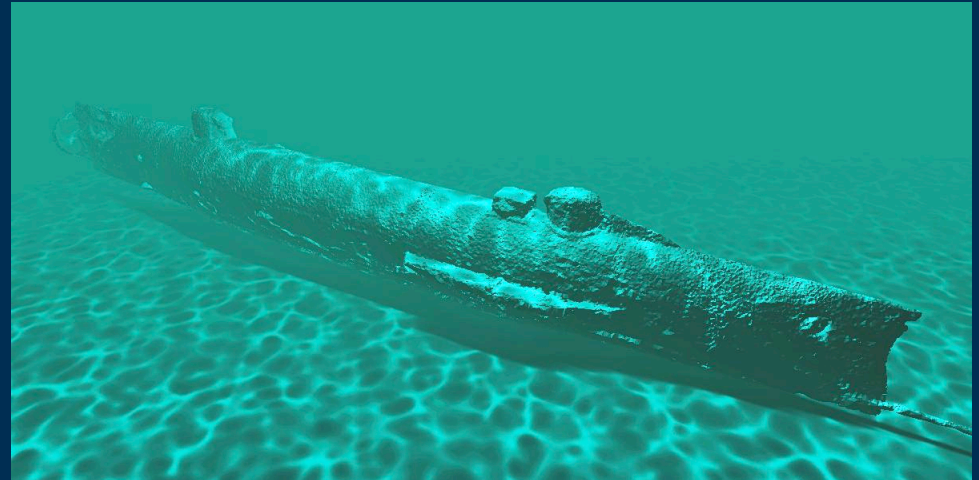
Computer Graphics

Data Visualization

Vision Science

Education

Entertainment



Directions

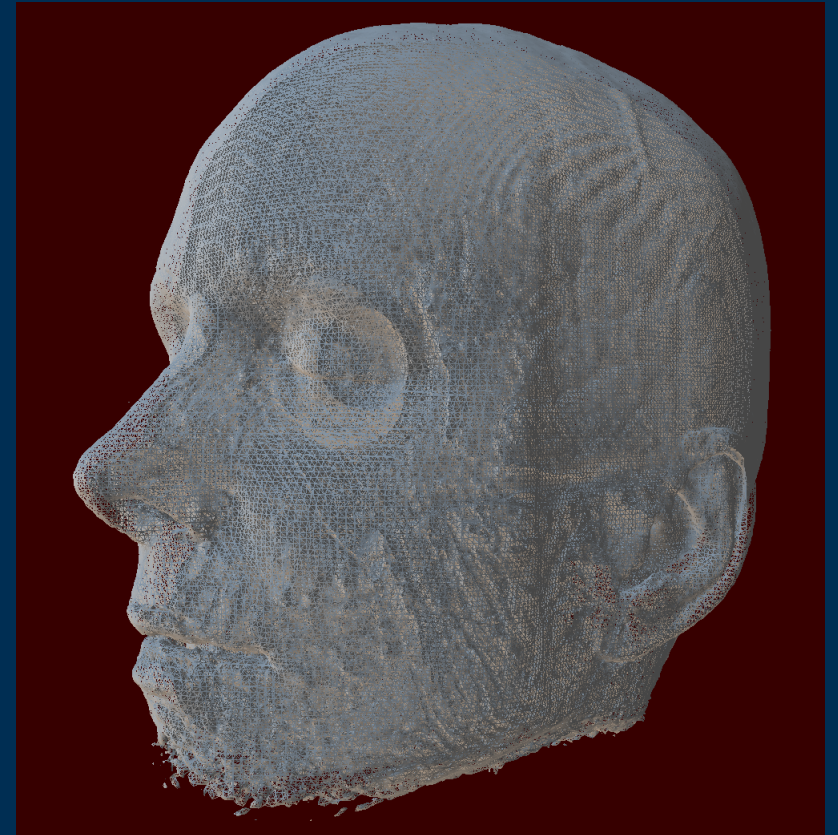
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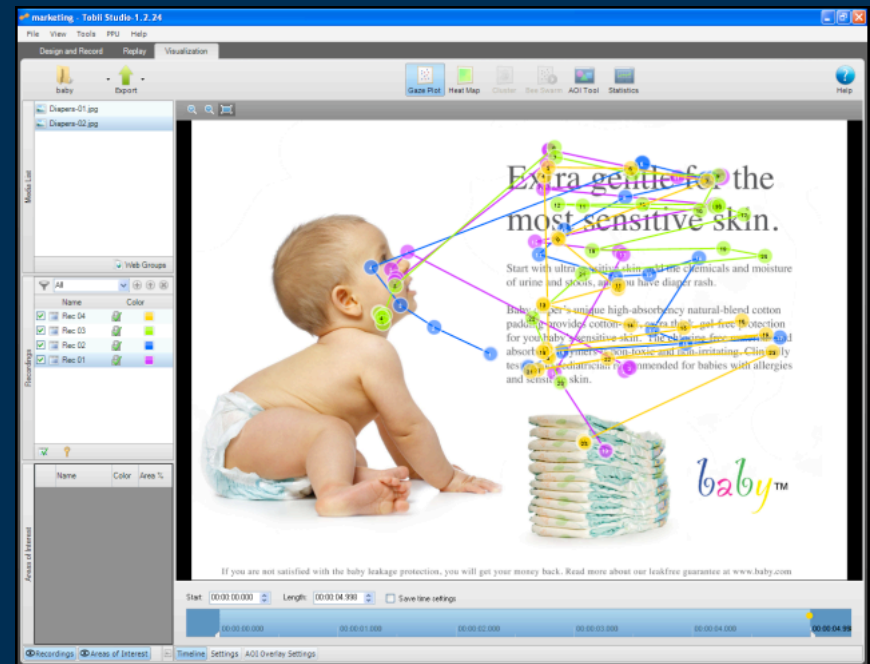
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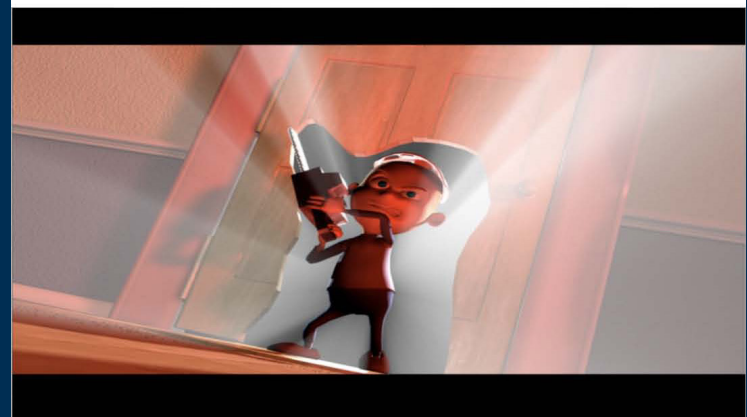
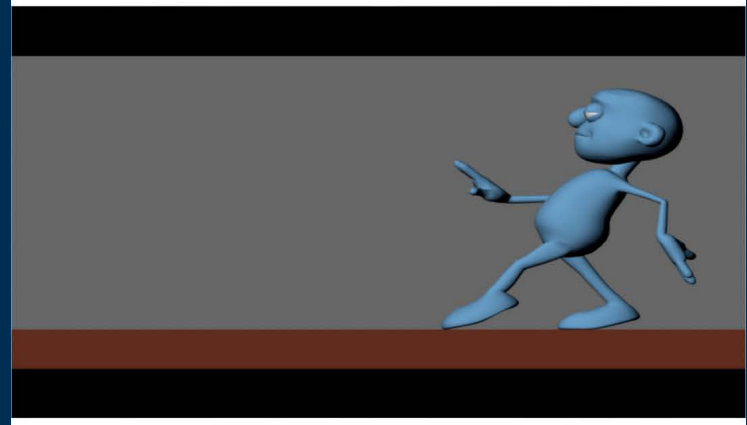
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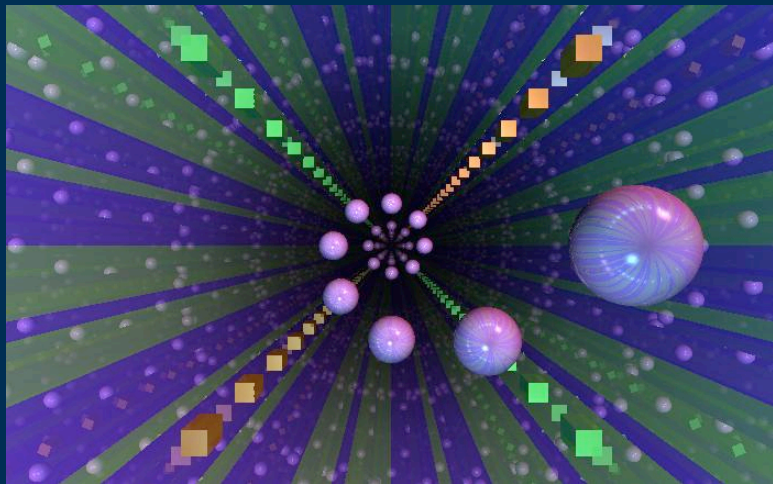
Entertainment



People

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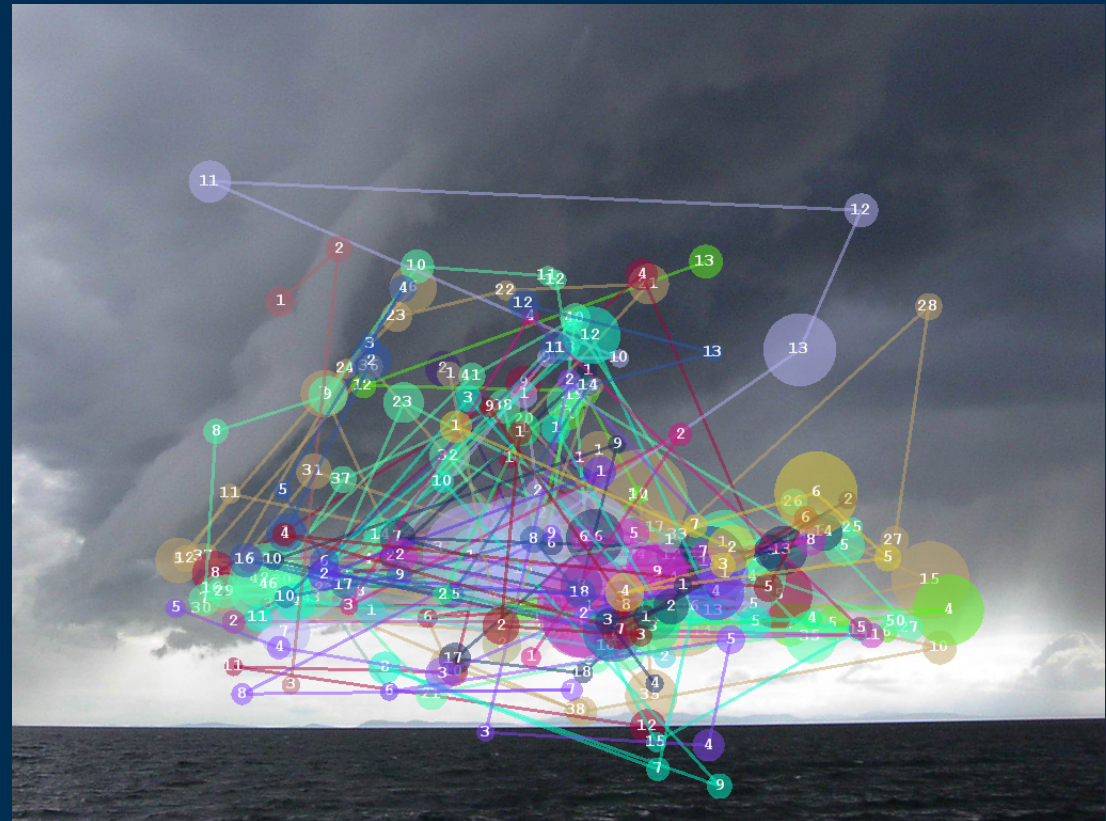
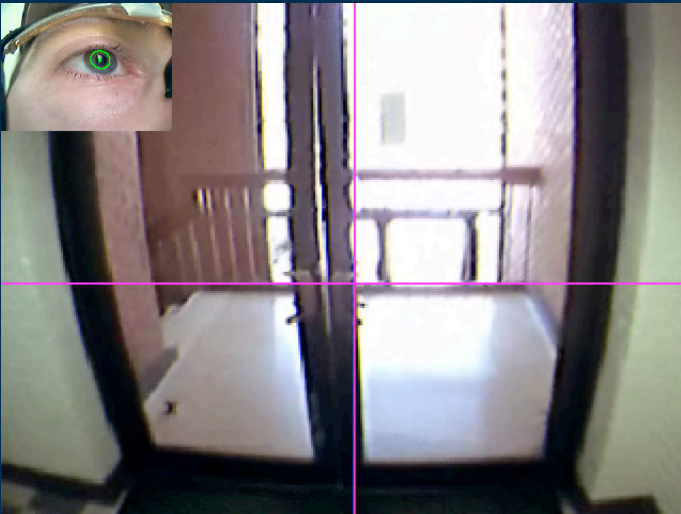


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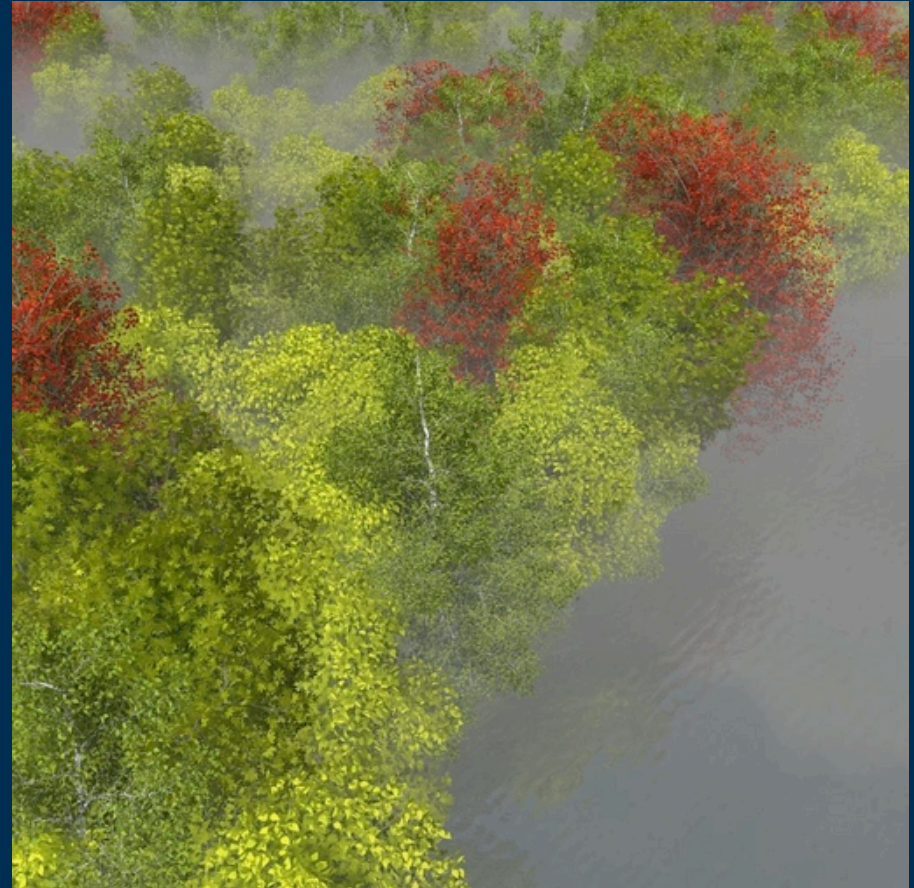
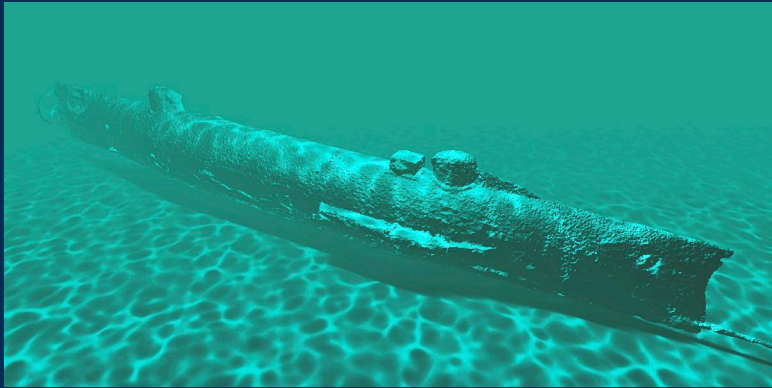


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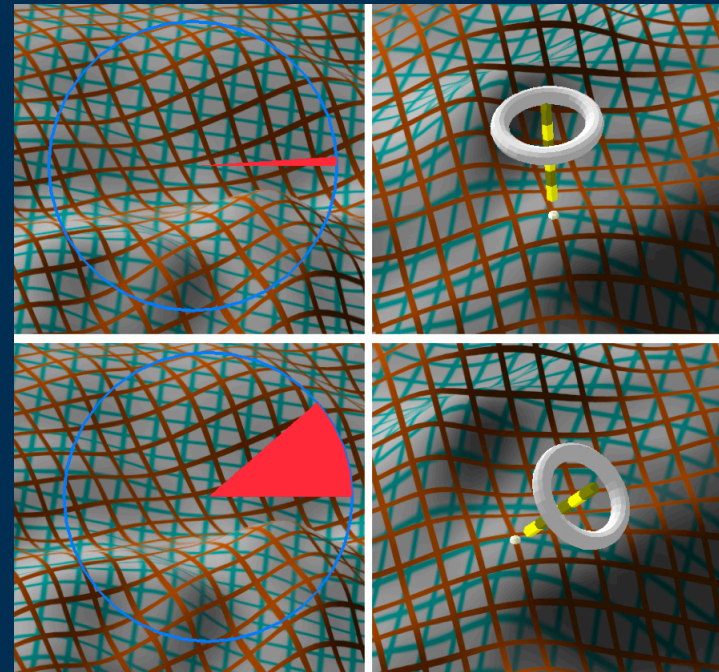


Robert Geist

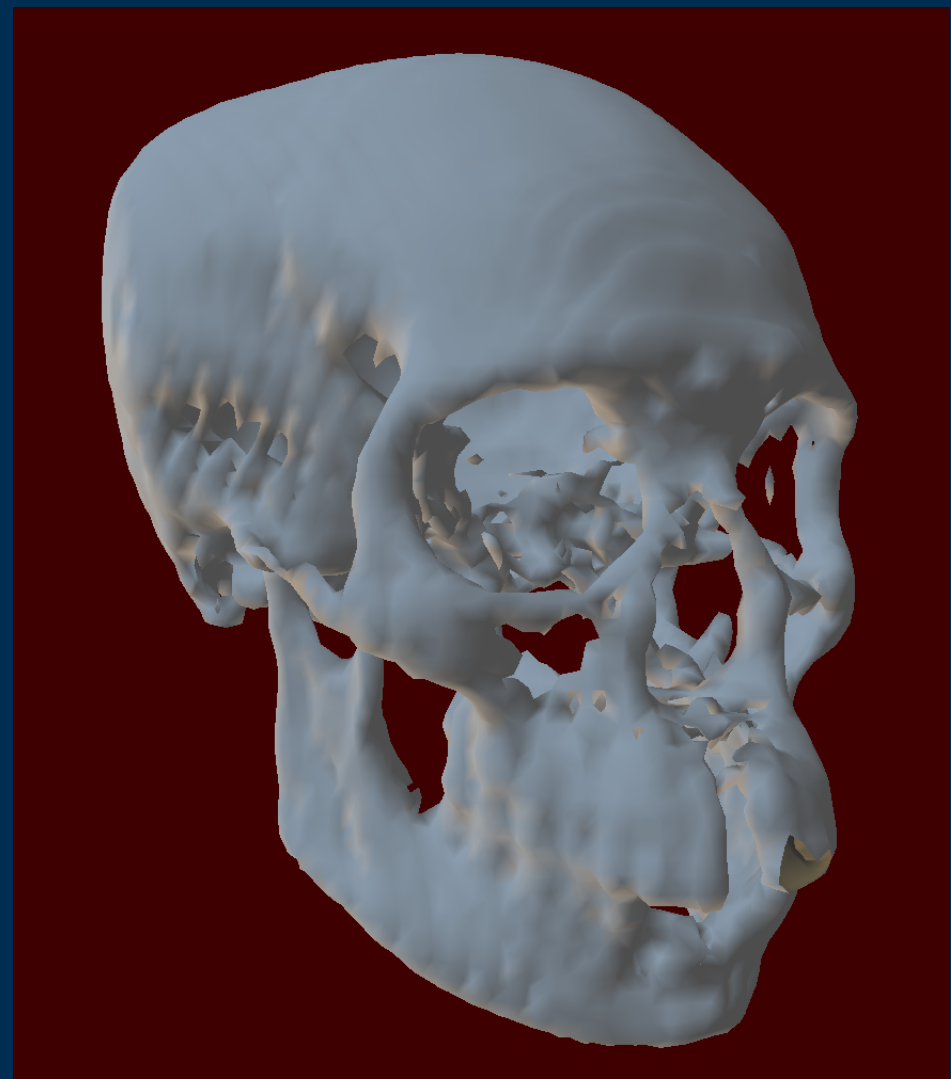
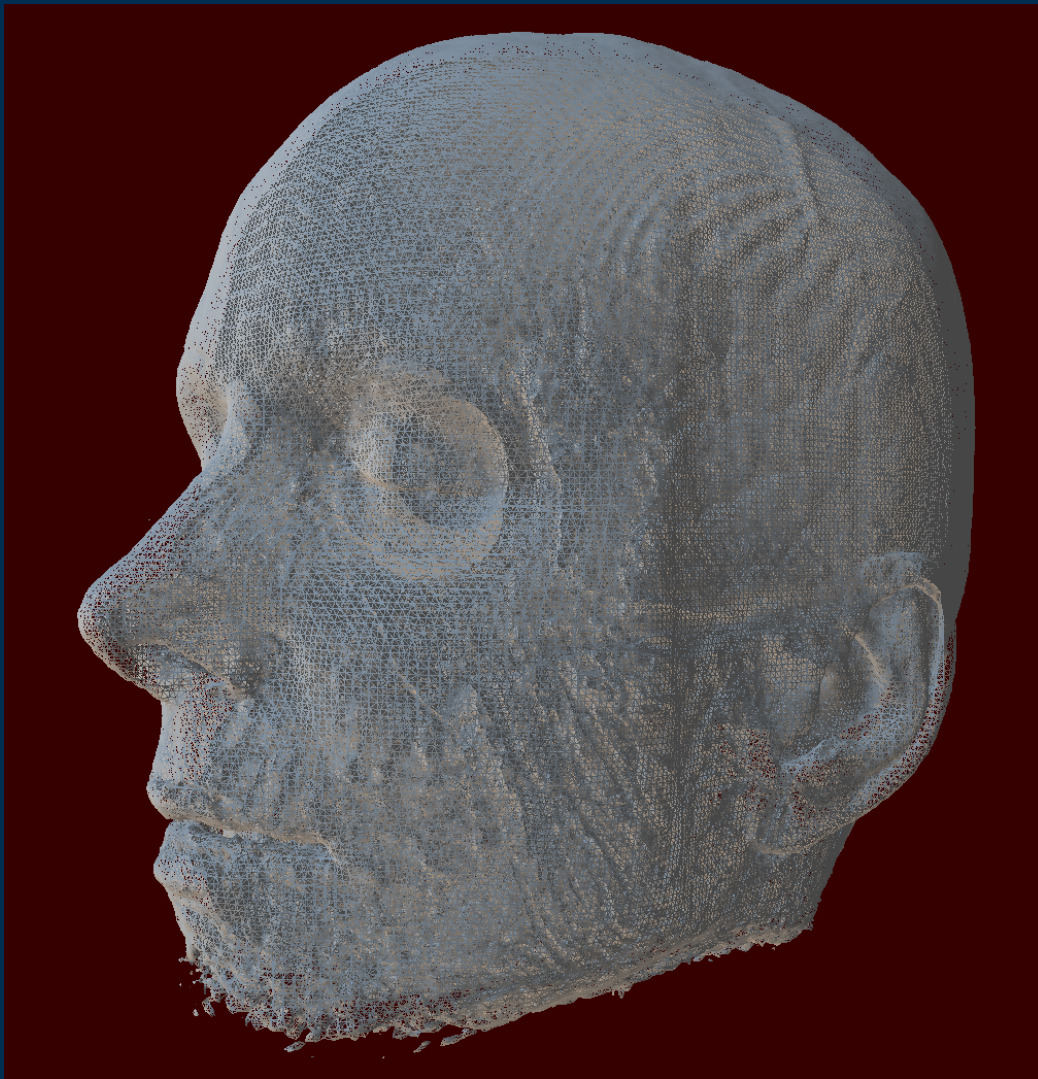


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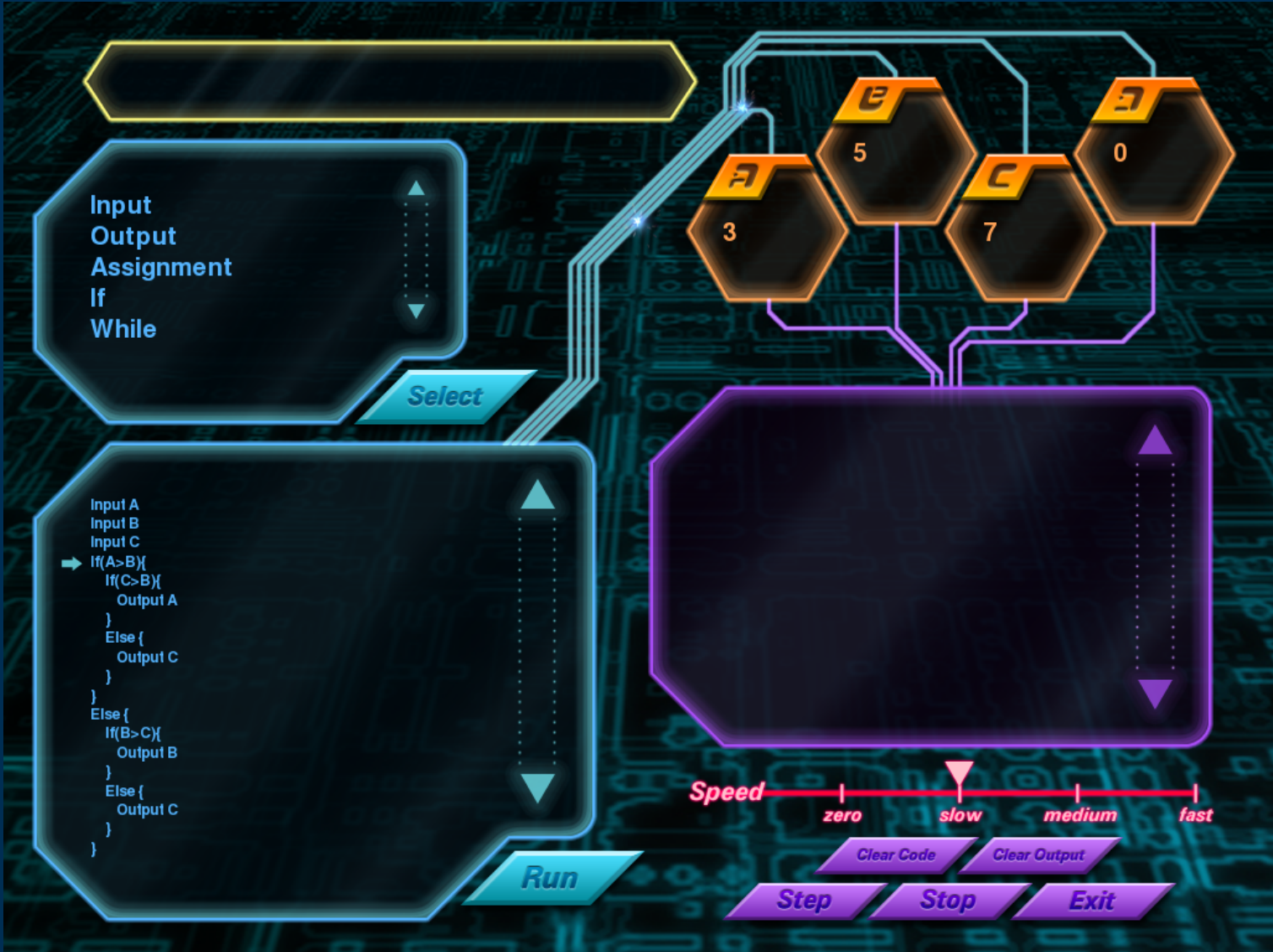
CpSc 372
Client-Based Software Engineering
Clients: Pat Zingole & Catherine Mobley

The collage features several screenshots from two games. On the left, the 'Epic Ecology' title screen is shown with a green background and the text 'Epic Ecology' and 'Play Options'. In the center, a 'Kill Global Warming' title screen displays the text 'kill global warming help all gore save the earth!' and instructions to press 'ENTER to play' and 'ESC to exit'. Below this, a screenshot shows a character in a field with a 'Remainings: 7' counter. At the bottom, a screenshot from 'Earth Defense' shows a character and a barrel in a landscape.

CpSc 416
2D Game Development
with C++ & Design Patterns

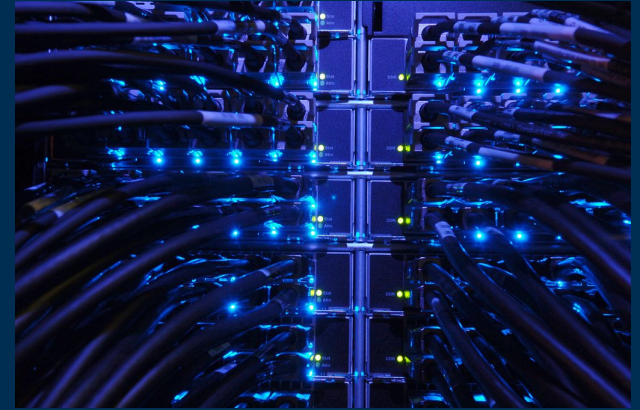
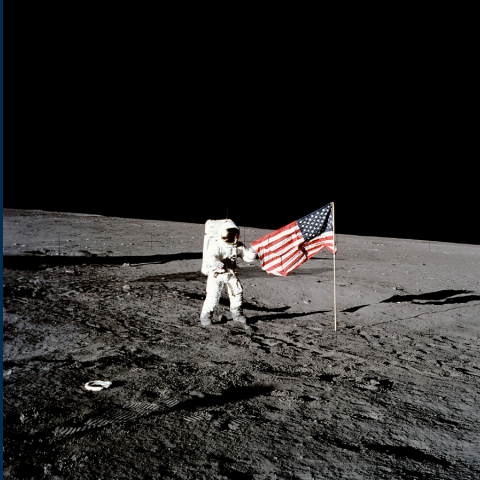
The collage features screenshots from three games. At the top left, the 'Internet Meme Throwdown' title screen shows a 'PRESS SPACEBAR TO CONTINUE' prompt and a meme featuring four people. Below it, the 'Attack Chopper' title screen displays 'Attack Chopper' and 'Hit Esc to Play'. On the right, a large 'Global Warming' title screen features a character on a motorcycle and a cityscape. Other screenshots include a 'Restores Available: 100 Health: 50.00 Score: 100' screen, a 'Wave: 4.00' screen, and a '# of Baddies: 10.00' screen.

Brian Malloy



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Mike Westall



Programs

Programs

The Digital Production Arts M.F.A. program

Specialization within the M.S. and Ph.D. programs

Visual Computing Seminar series

Laboratories

Eye Tracking

Graphics and Visualization

High Performance Computing

Digital Production

Fin