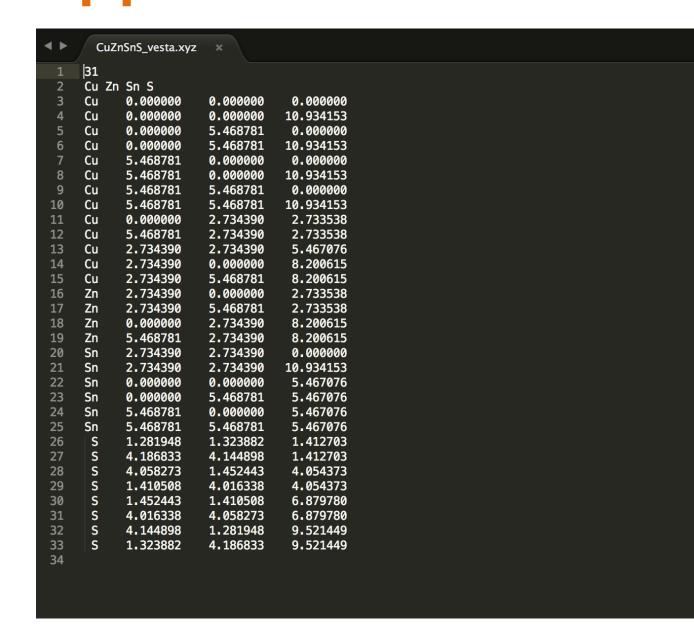
NCSA SPIN

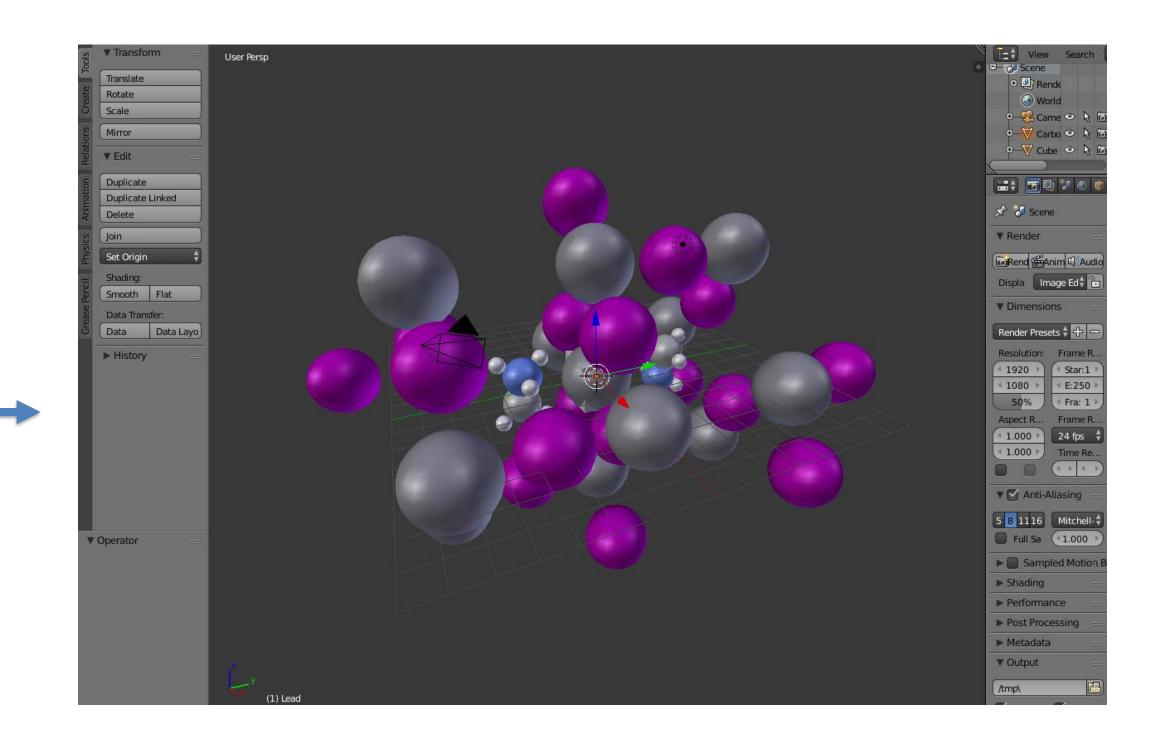
Incorporating Interactive Virtual Reality Technology in an Educational Environment

Project Objective

To determine the effectiveness of using interactive virtual reality for learning purposes as opposed to educational virtual reality technology which does not have any user interaction. For this study the focus will be on creating a virtual reality application that can be applied to Materials Science classes at the University of Illinois at Urbana-Champaign. Specifically, this application will create visualizations of complex molecules which can be interactively explored in virtual reality.

Approach

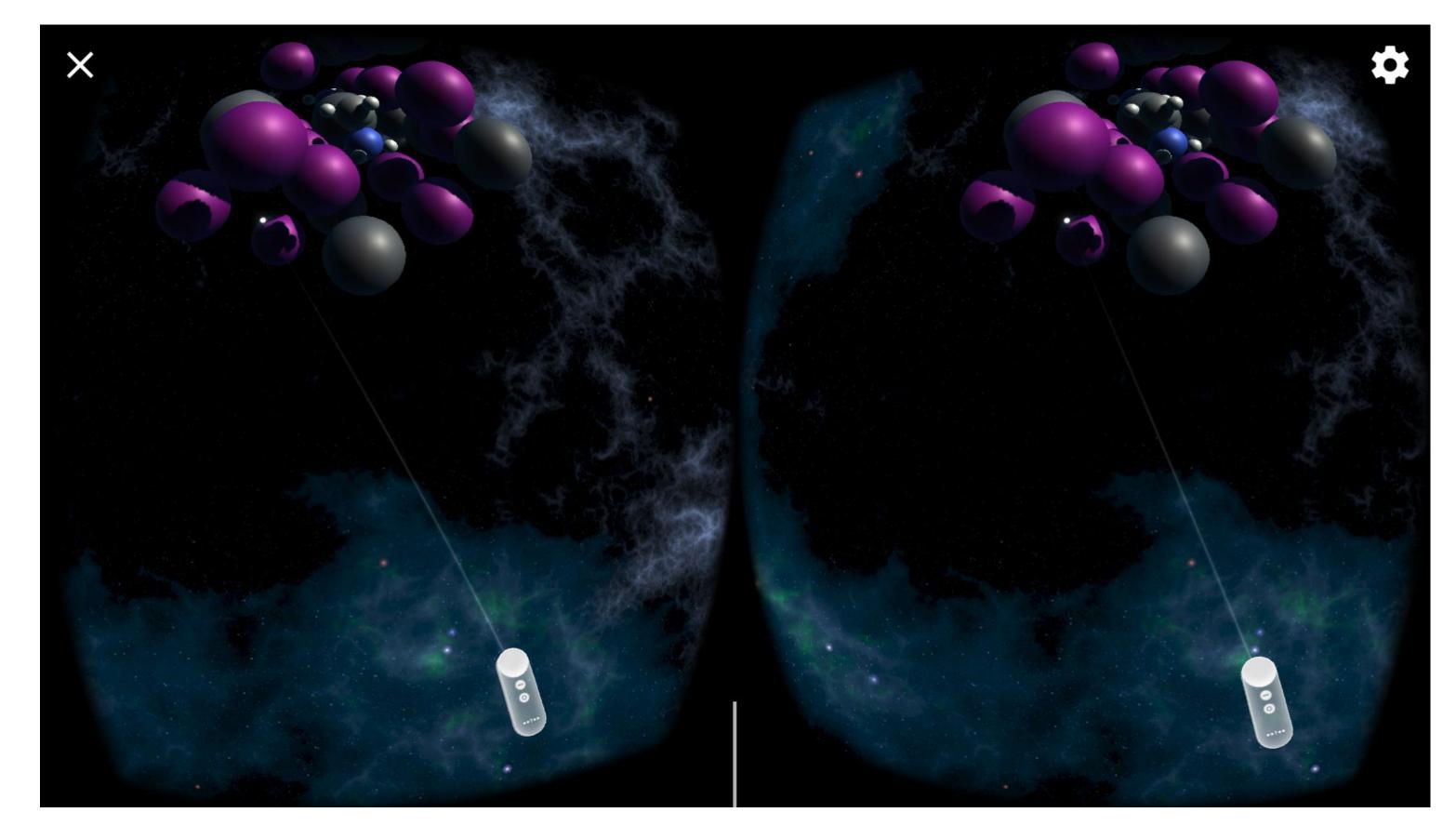




Blender

VESTA Format

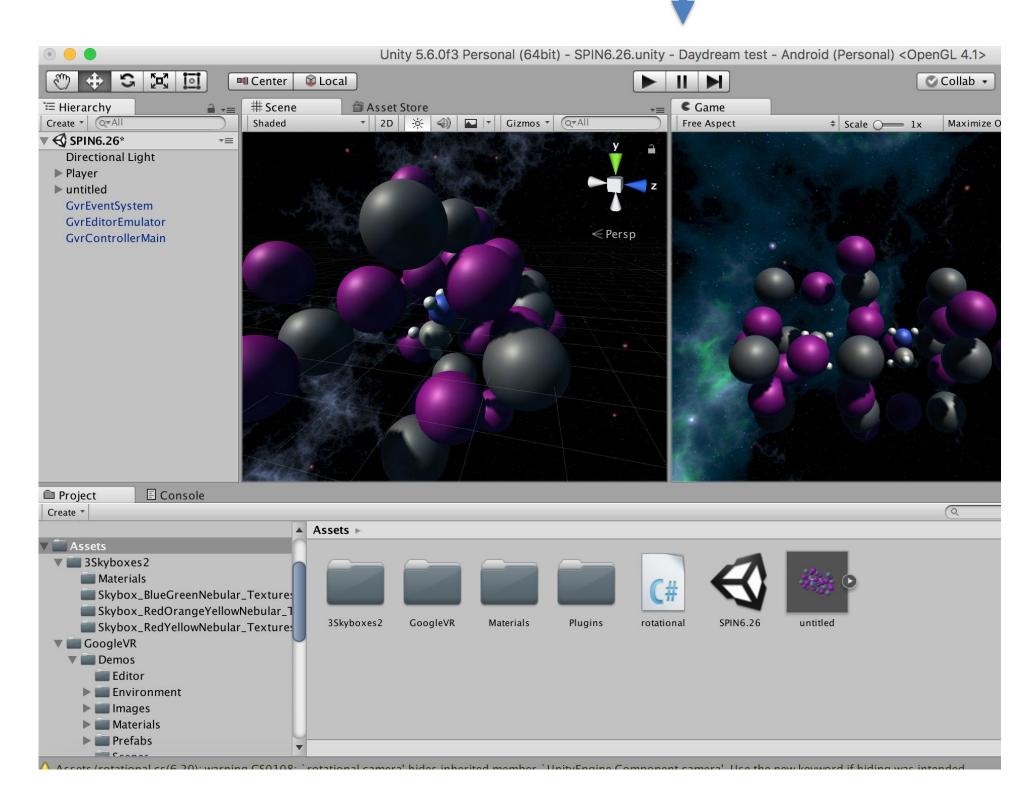
Status



Screenshot of Current Version of our Virtual Reality App

Research Questions

- What is the most effective way to incorporate interactive virtual reality into a classroom given the limitations of today's technology?
- What is an appropriate class size into which virtual reality can be practically incorporated?
- Does the use of virtual reality for educational purposes have a significant impact on the student's understanding of the course material?



Unity