**Title**: Project 4—Cube Mapping Reflective and Refractive Bump-mapped Surfaces

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Video Link:

https://media.oregonstate.edu/media/t/1\_3vrlu8g9

## **About project:**

For this project, I utilized cube-mapping to create a reflective and refractive display of a bump-mapped math function. The same math function used in Project #3 was utilized and the parameters for the math function (uK, uP) were put on sliders. To blend the reflective and refractive versions of the scene, a uMix slider variable was used. The index of refraction, uEta, was also put on a slider. I used the Kelley cube map to provide the output for the cube map. By utilizing cube-mapping and adjusting the various parameters with sliders, I was able to create a visually appealing display that accurately reflected and refracted the math function.

## **Screenshots**:











