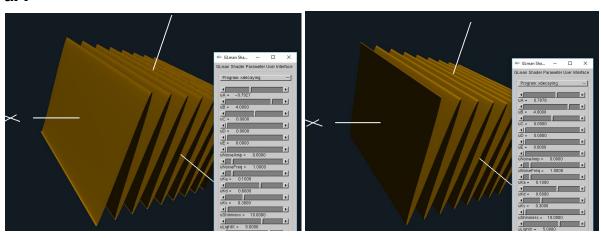
Project 3 - Displacement Mapping, Bump Mapping, and Lighting

Explanation:

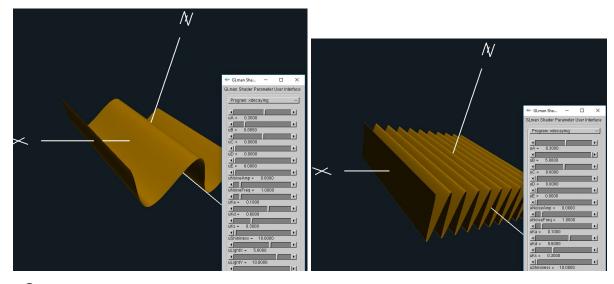
Using the provided formulas (and some quick googling about maths within C++) I believe that I have managed to find the normals and apply them in a satisfactory manner. I combined the declaration of the vec3's with the normalize call, so that was a small shortcut that I had used. The formulas for distortion worked as they were taking an existing object, and modifying it in relation to a formula. Locating normals works (or so I believe it does) through following the given derivatives to calculate normal values we need for our mapping.

Screenshot comparisons:

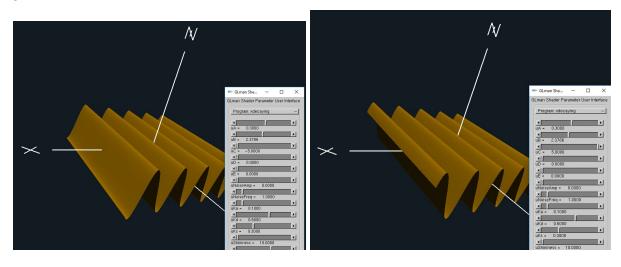
uA



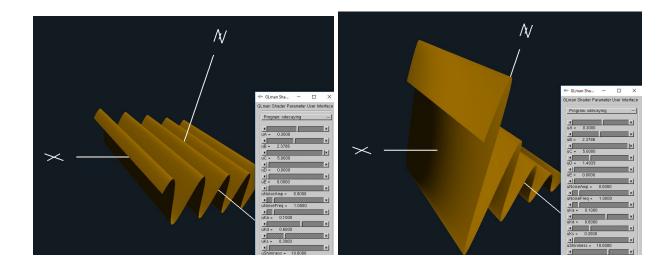
uВ



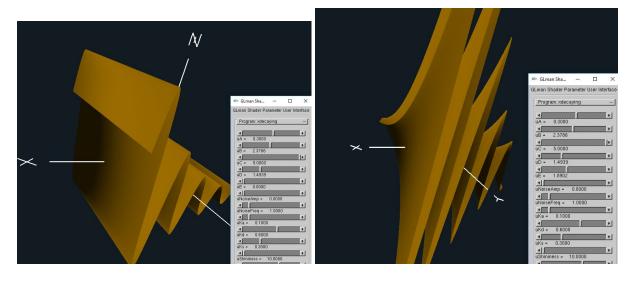
uC



uD



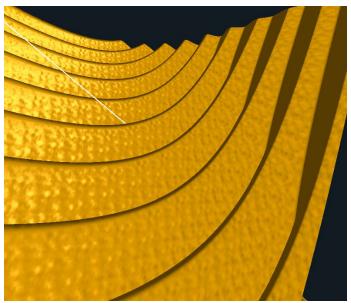
uЕ



Normals



Bump



Video Link: https://media.oregonstate.edu/media/t/0_erc1b531

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Thanks, and have a great day!