## **CPSC 314 Computer Graphics**

Dinesh K. Pai Projective Transformation Ch. 10.3, 11.2, 11.3

## NOTICE:

Recordings of the lecture are provided to students enrolled in the course for self-study only. Any other use, including reproduction and sharing of links to materials, is strictly prohibited.

## **Preliminaries**

- Today
  - View Frustum
  - Orthographic Projection
  - Projective Transformations (not the same as Projection)
  - Additional "fixed function" steps: Clipping, Normalized Device Coordinates

## **Motivation**

- The simple projection from last class lost all depth information (like a real camera)
  - Mathematically, the Projection is "singular", and has a zero column
- We want to retain some "depth like" information
- Depth demo <u>https://threejs.org/docs/#api/materials/MeshDepthMaterial</u>

SWITCH TO TABLET







