CS4533 Lecture 8.1 Slides/Notes

Hidden Surface Removal & BSP Trees; Shadow Projection & Making Decal in HW3 (Notes, Ch 11, Notes)

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(Below we look at occlusion culling Algorithms).

1. Back - Face Removal:

Suppose we have closed surface of an obj (19. sphere, cube, ...), where each polygonal face has a normal vector soing outward. ep.

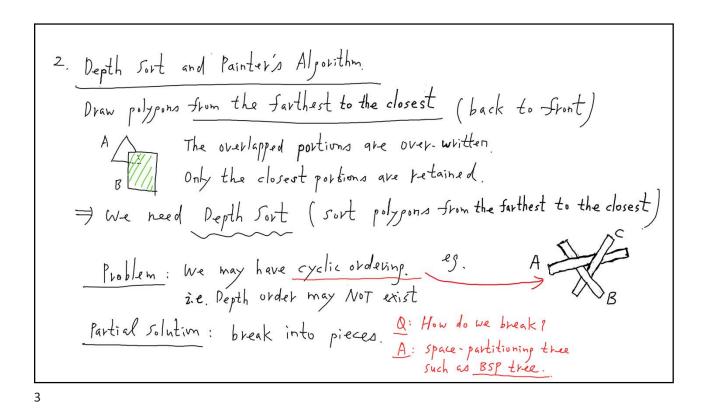
Polygon is facing forward iff O \in (-90^\circ, 70^\circ)

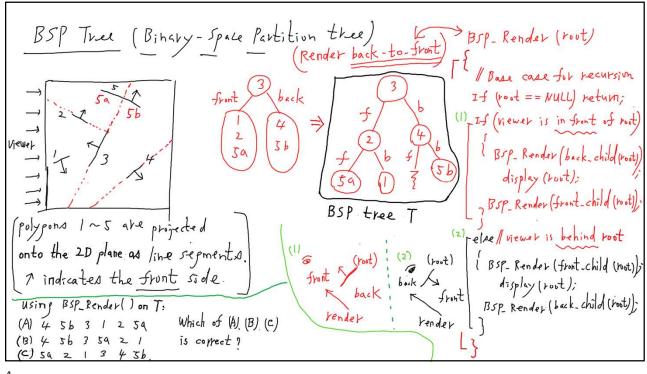
i.e. CODD \ge 0.

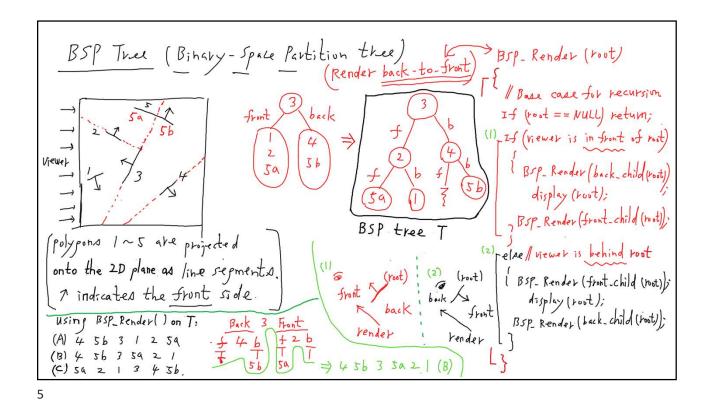
The CODD \ge 0.

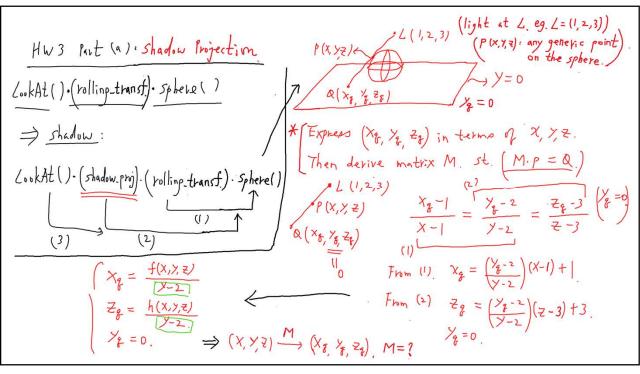
If CODD \ge 0.
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$$\frac{x}{x} = \frac{x}{x} = \frac{x}$$

