Assignment-2 Submission

Indian Institute of Technology Delhi Mesh Processing

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1 Square Mesh

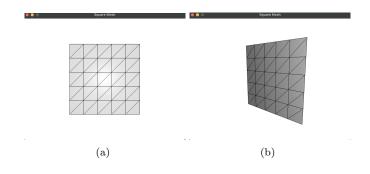


Figure 1: Square Mesh: 5 rows and 5 columns

2 Sphere Mesh

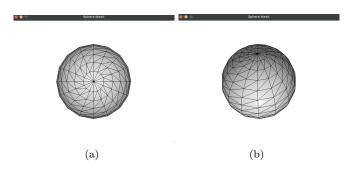


Figure 2: Sphere Mesh: 16 longitudes and 16 latitudes

3 Cube Mesh

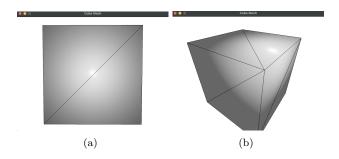


Figure 3: Cube loaded from cube.obj

4 Teapot Mesh

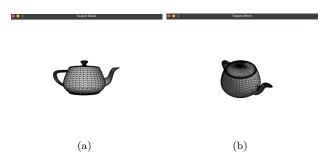


Figure 4: Teapot loaded from teapot.obj

5 Bunny Mesh

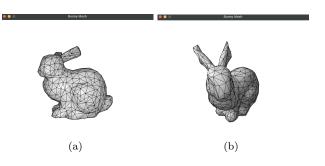


Figure 5: Bunny loaded from bunny-1k.obj

6 Noisy Cube Mesh

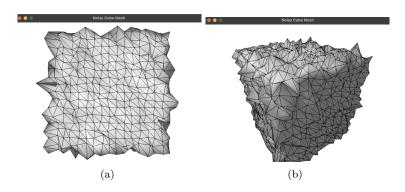


Figure 6: Cube loaded from noisycube.obj (noisy)

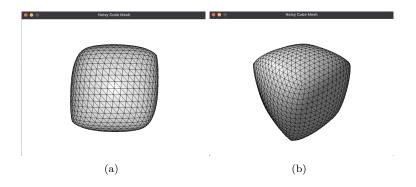


Figure 7: Naive smoothing (100 iterations, $\lambda = 0.33$)

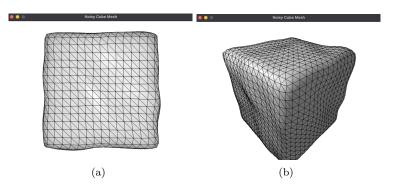


Figure 8: Taubin smoothing (100 iterations, $\lambda = 0.33, \, \mu = -0.34$)

7 Loop Subdivision (Bunny Mesh)

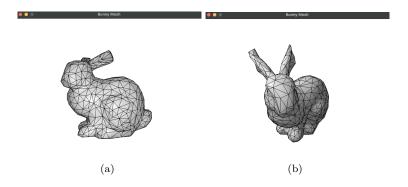


Figure 9: Original bunny loaded from bunny-1k.obj

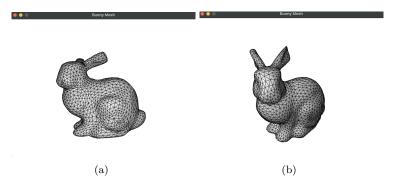


Figure 10: Subdividing once (Loop)

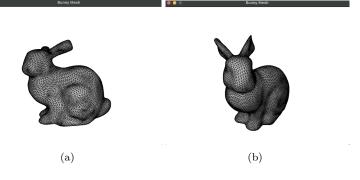


Figure 11: Subdividing again (Loop)