# **Assignment-2 Submission**

# Indian Institute of Technology Delhi Mesh Processing

Name: Arnav Tuli Entry Number: 2019CS10424 Name: Deepanshu Entry Number: 2019CS50427

#### 1 Square Mesh

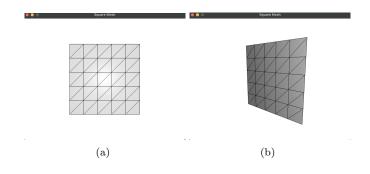


Figure 1: Square Mesh: 5 rows and 5 columns

#### 2 Sphere Mesh

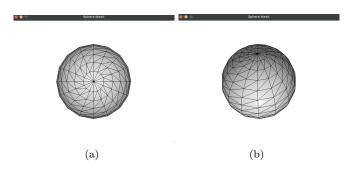


Figure 2: Sphere Mesh: 16 longitudes and 16 latitudes

## 3 Cube Mesh

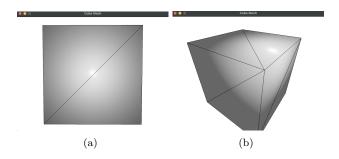


Figure 3: Cube loaded from cube.obj

### 4 Teapot Mesh

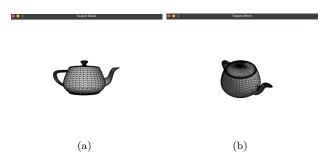


Figure 4: Teapot loaded from teapot.obj

# 5 Bunny Mesh

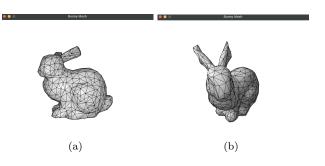


Figure 5: Bunny loaded from bunny-1k.obj

### 6 Noisy Cube Mesh

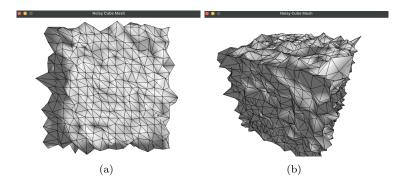


Figure 6: Cube loaded from noisycube.obj (noisy)

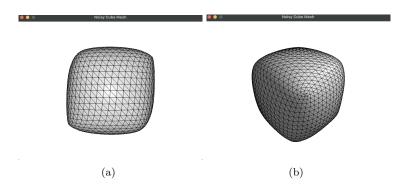


Figure 7: Naive smoothing (100 iterations,  $\lambda = 0.33$ )

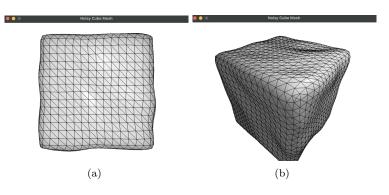


Figure 8: Taubin smoothing (100 iterations,  $\lambda=0.33,\,\mu=-0.34)$ 

# 7 Loop Subdivision (Bunny Mesh)

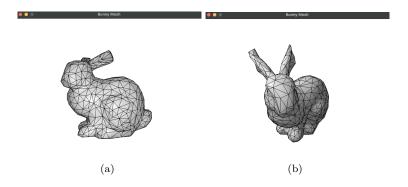


Figure 9: Original bunny loaded from bunny-1k.obj

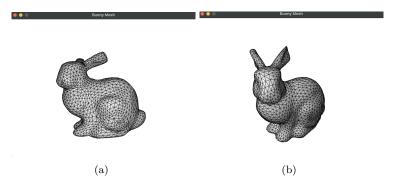


Figure 10: Subdividing once (Loop)

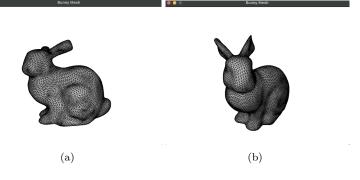


Figure 11: Subdividing again (Loop)