

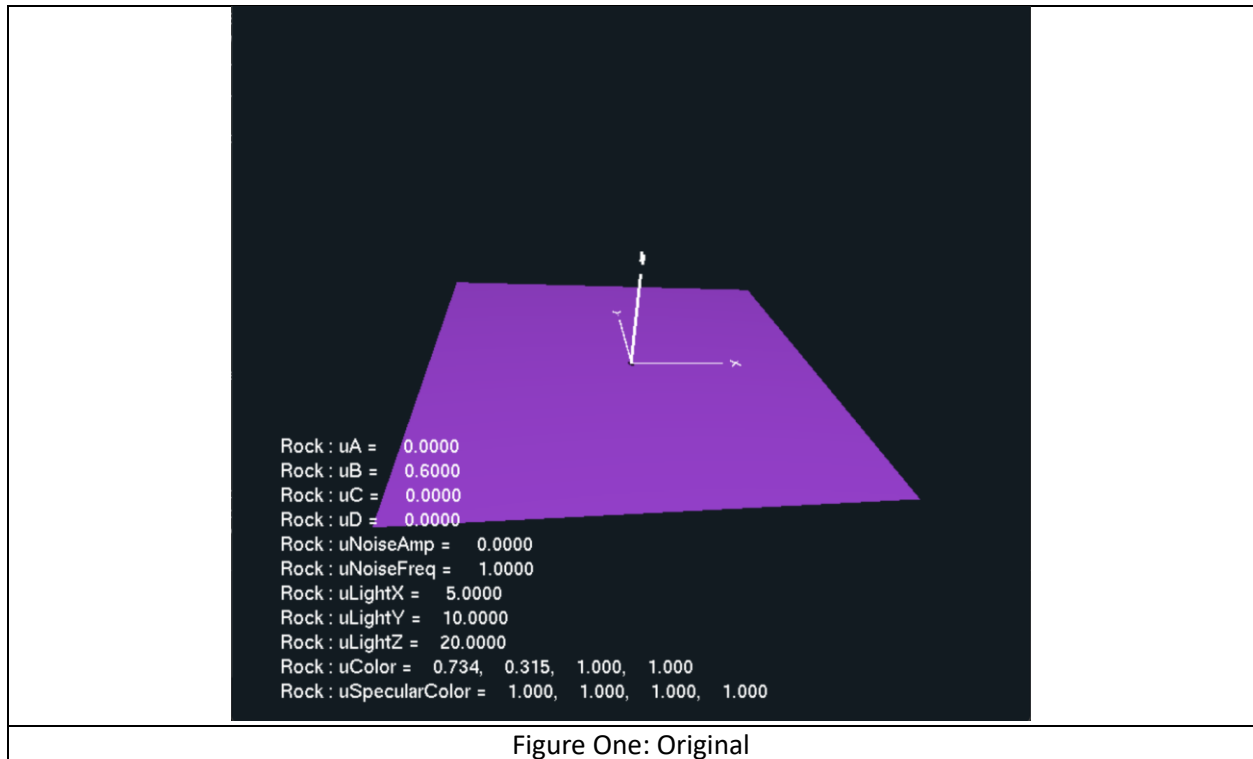
CS 557 Assignment Three: Displacement Mapping, Bump Mapping, and Lighting

Name: Chiayu Tu

Email: tuchi@oregonstate.edu

Link: [CS557 Assignment Three - OSU MediaSpace \(oregonstate.edu\)](#)

Project Screenshot:



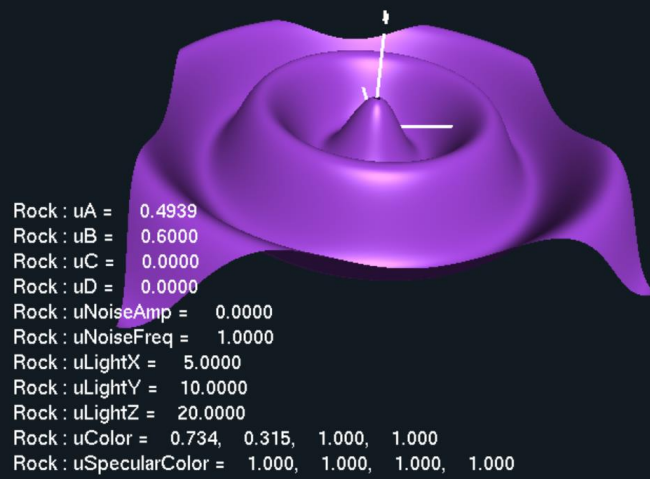


Figure Two: Changing uA

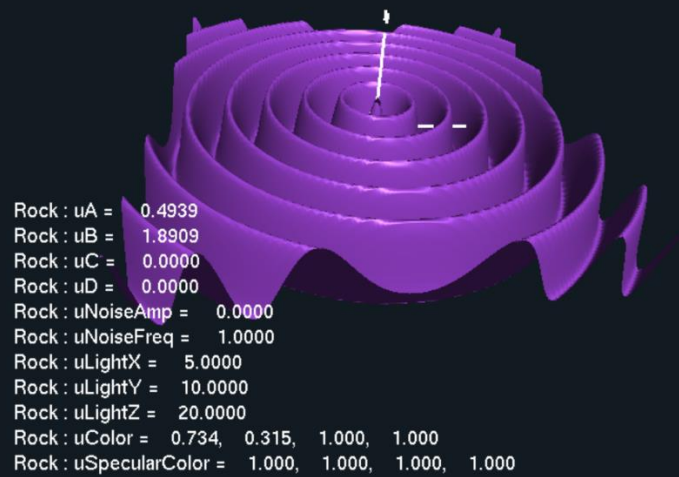
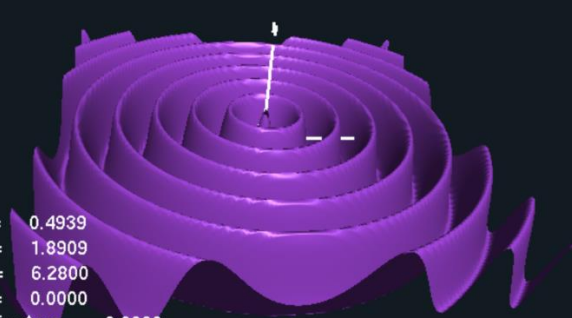


Figure Three: Changing uB

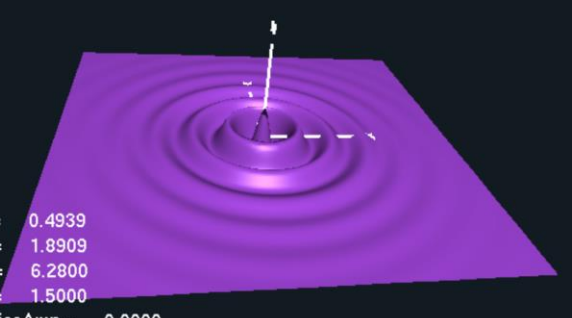


```

Rock : uA = 0.4939
Rock : uB = 1.8909
Rock : uC = 6.2800
Rock : uD = 0.0000
Rock : uNoiseAmp = 0.0000
Rock : uNoiseFreq = 1.0000
Rock : uLightX = 5.0000
Rock : uLightY = 10.0000
Rock : uLightZ = 20.0000
Rock : uColor = 0.734, 0.315, 1.000, 1.000
Rock : uSpecularColor = 1.000, 1.000, 1.000, 1.000

```

Figure Four: Changing uC



```

Rock : uA = 0.4939
Rock : uB = 1.8909
Rock : uC = 6.2800
Rock : uD = 1.5000
Rock : uNoiseAmp = 0.0000
Rock : uNoiseFreq = 1.0000
Rock : uLightX = 5.0000
Rock : uLightY = 10.0000
Rock : uLightZ = 20.0000
Rock : uColor = 0.734, 0.315, 1.000, 1.000
Rock : uSpecularColor = 1.000, 1.000, 1.000, 1.000

```

Figure Five: Changing uD

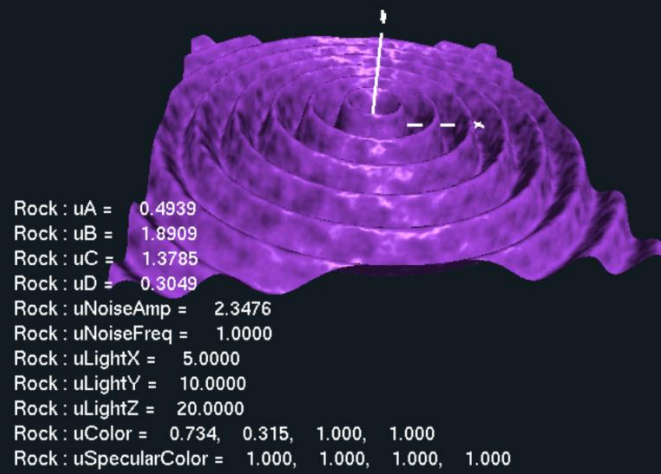


Figure Six: Changing uNoiseAmp

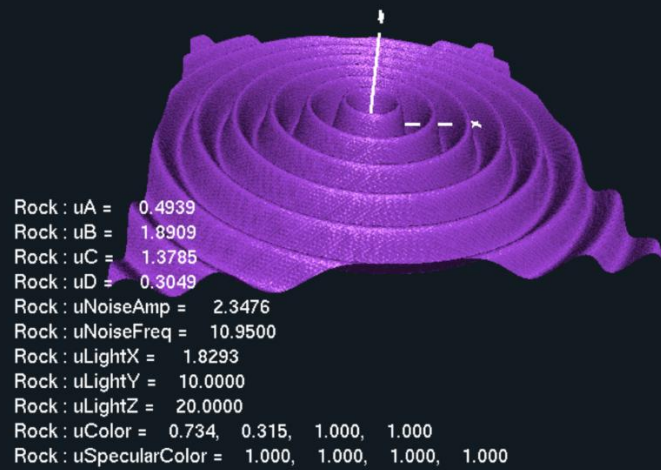
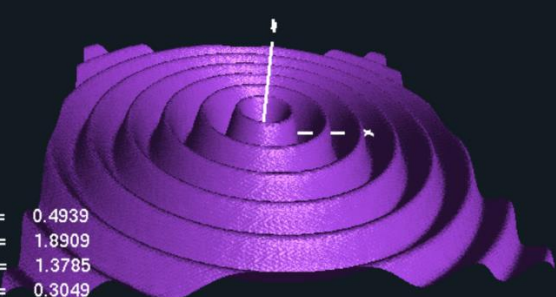


Figure Seven: Changing uNoiseFreq

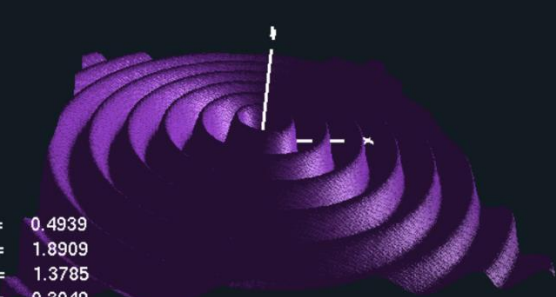


```

Rock : uA = 0.4939
Rock : uB = 1.8909
Rock : uC = 1.3785
Rock : uD = 0.3049
Rock : uNoiseAmp = 2.3476
Rock : uNoiseFreq = 10.9500
Rock : uLightX = 10.9756
Rock : uLightY = -5.3658
Rock : uLightZ = 20.0000
Rock : uColor = 0.734, 0.315, 1.000, 1.000
Rock : uSpecularColor = 1.000, 1.000, 1.000, 1.000

```

Figure Eight: Changing uLightX&Y



```

Rock : uA = 0.4939
Rock : uB = 1.8909
Rock : uC = 1.3785
Rock : uD = 0.3049
Rock : uNoiseAmp = 2.3476
Rock : uNoiseFreq = 10.9500
Rock : uLightX = 10.9756
Rock : uLightY = -5.3658
Rock : uLightZ = -10.0000
Rock : uColor = 0.734, 0.315, 1.000, 1.000
Rock : uSpecularColor = 1.000, 1.000, 1.000, 1.000

```

Figure Nine: Changing uLightZ