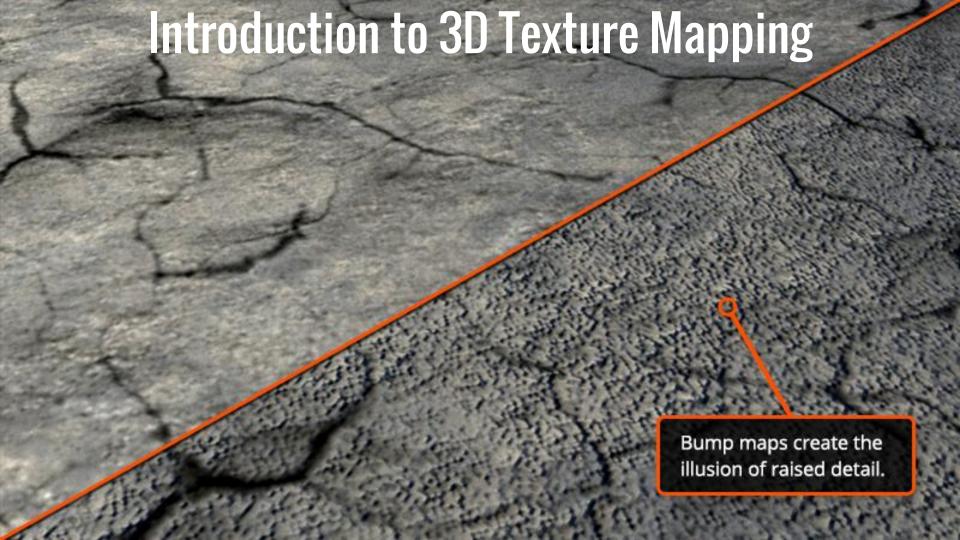
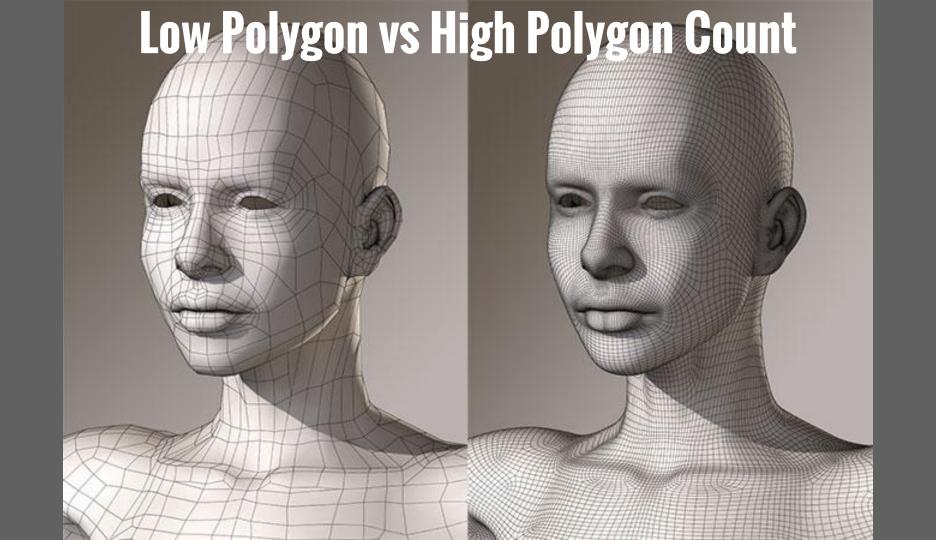
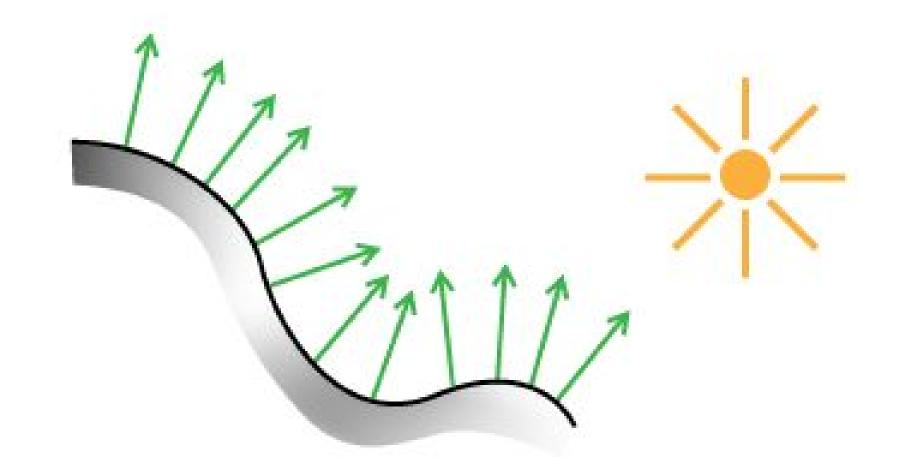


## 3D Texture Mapping CAP 3027 Fall 2015

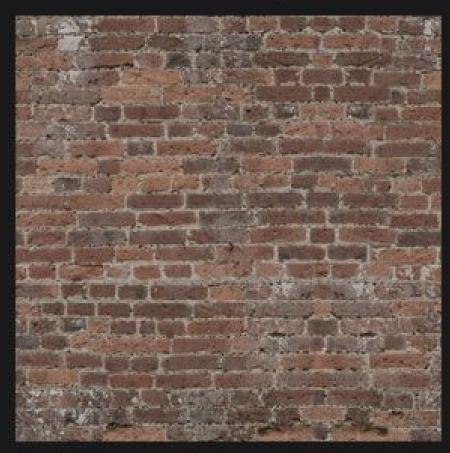
Nicola Frachesen | Richard Li | Natalie Rumak | Xiaoxi Zheng







# Texture map Bump Mapping Bump Map

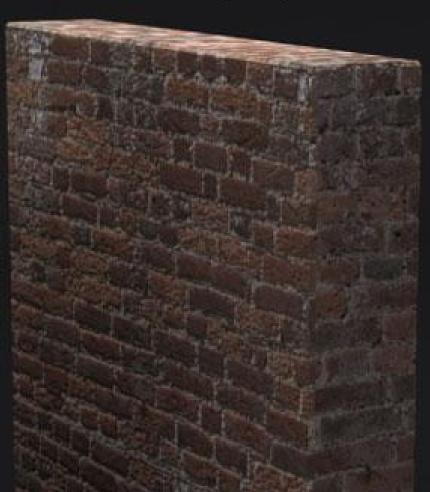


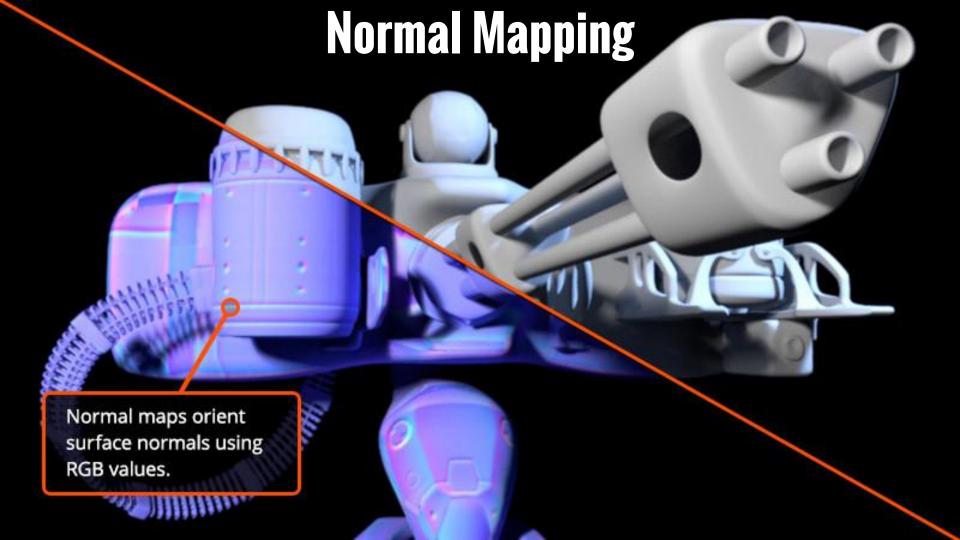


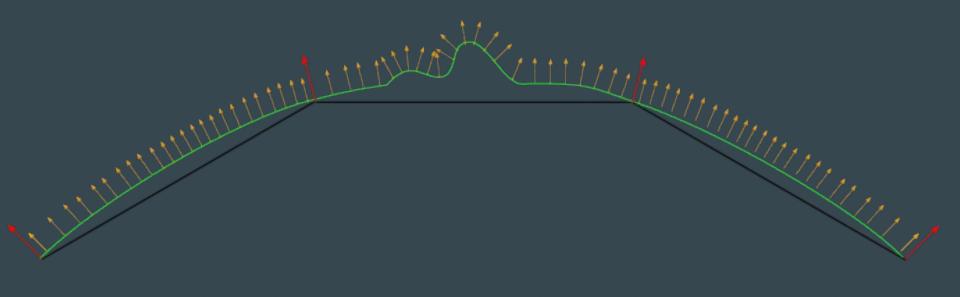
#### Without bump map

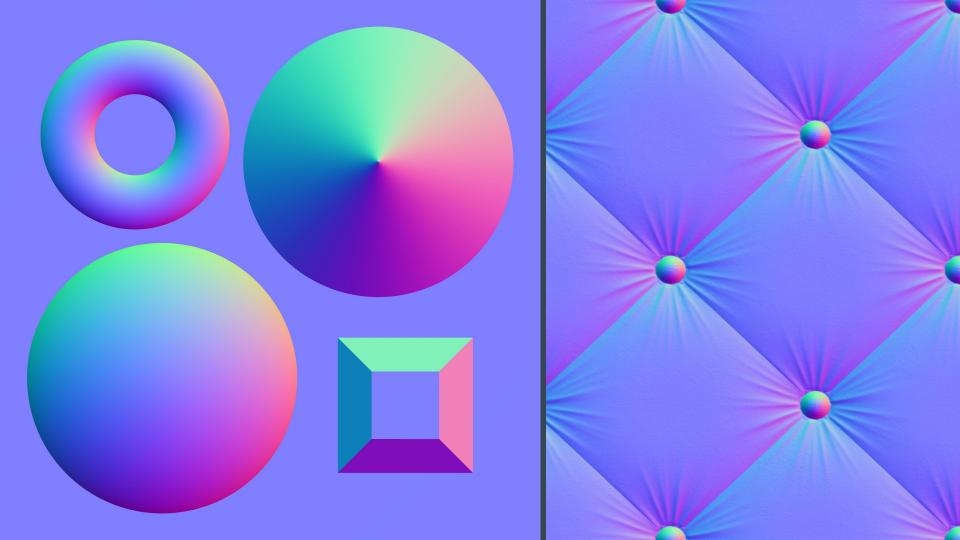
#### With bump map

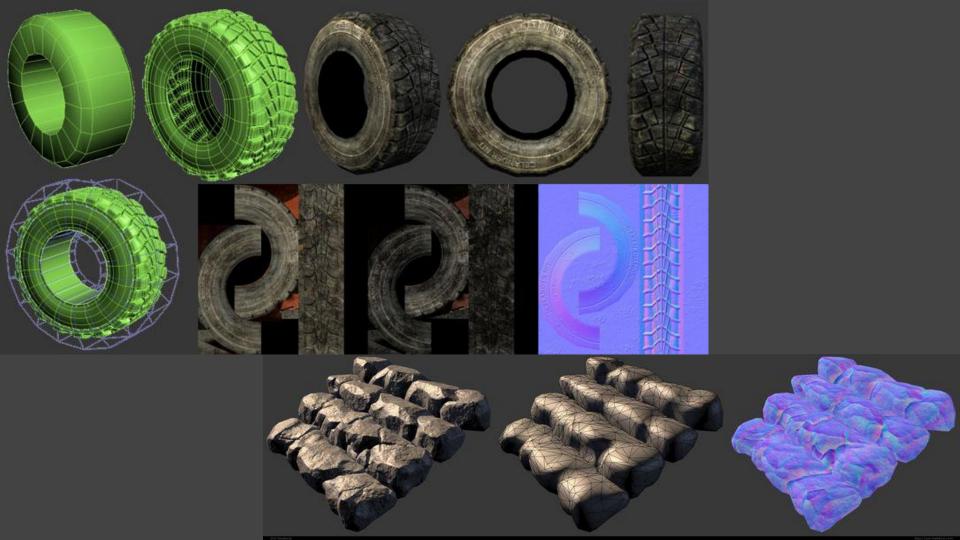


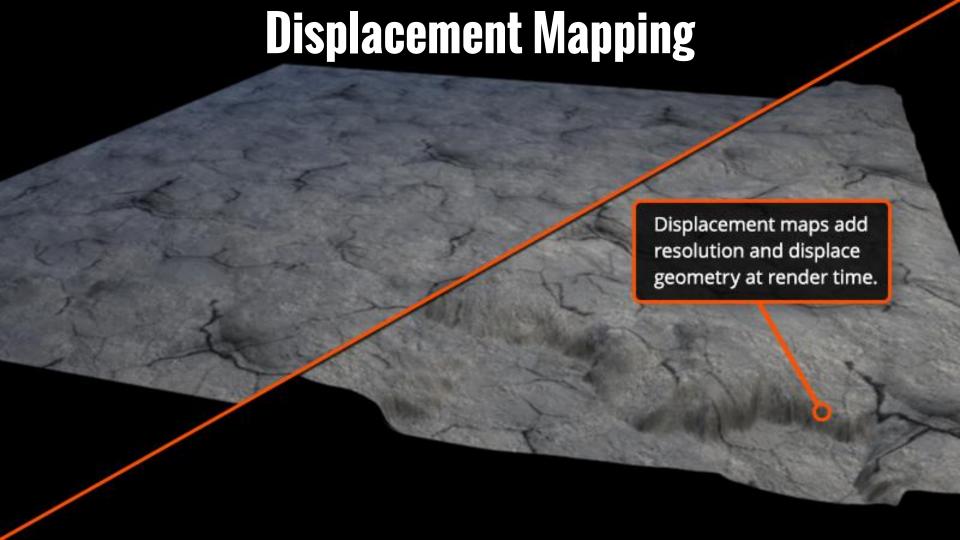


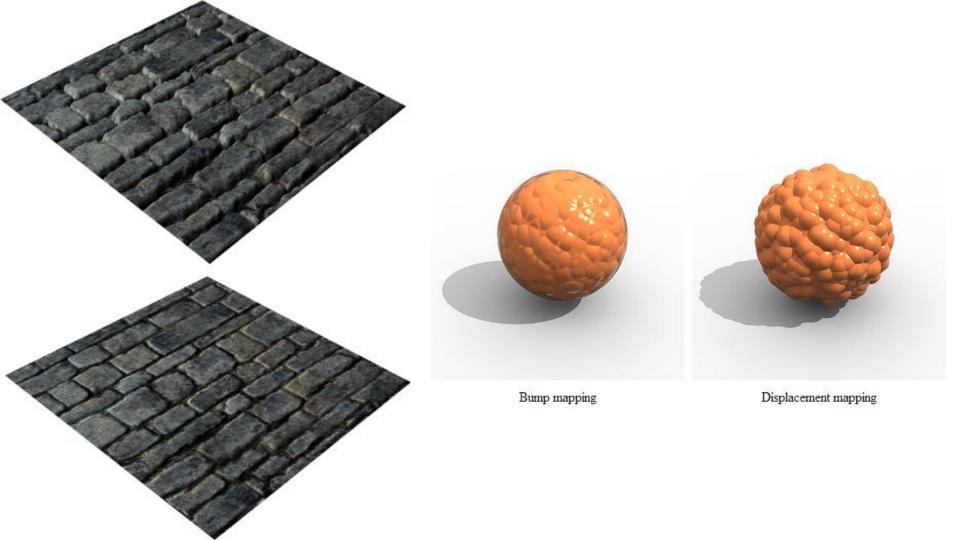


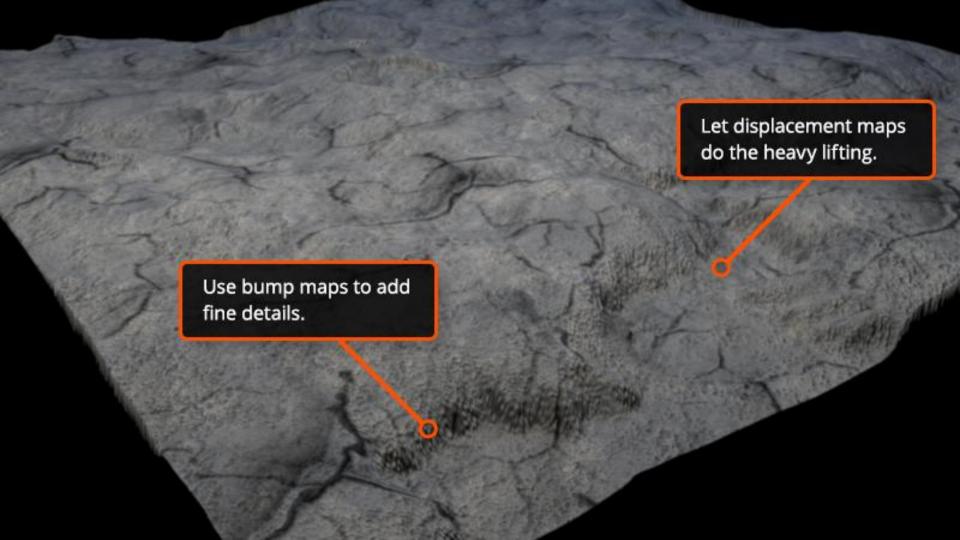












### Relief Mapping



Figure 1. Town rendered using conventional texture mapping. The façades and brick walls represented with one texture each.



Figure 2. Same view as in Figure 1 rendered using relief texture mapping. Both scenes contain the same number of polygons. Notice the bricks standing out and the protruding dormers.



# MAYA DEMO

## **Parallax Mapping**



Normal Mapped

Parallax Mapped

Steep Parallax Mapped

### **Horizon Mapping**





# Bringing It All Together

