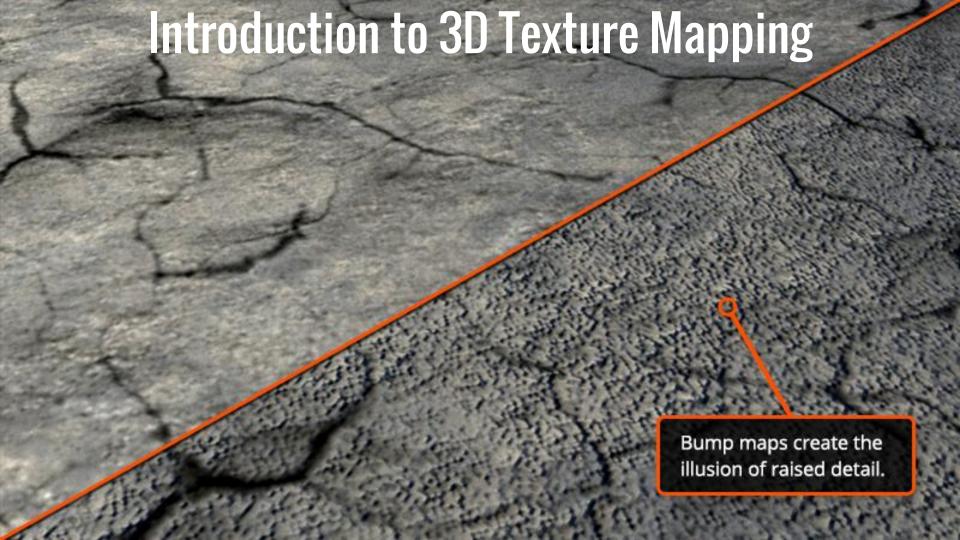
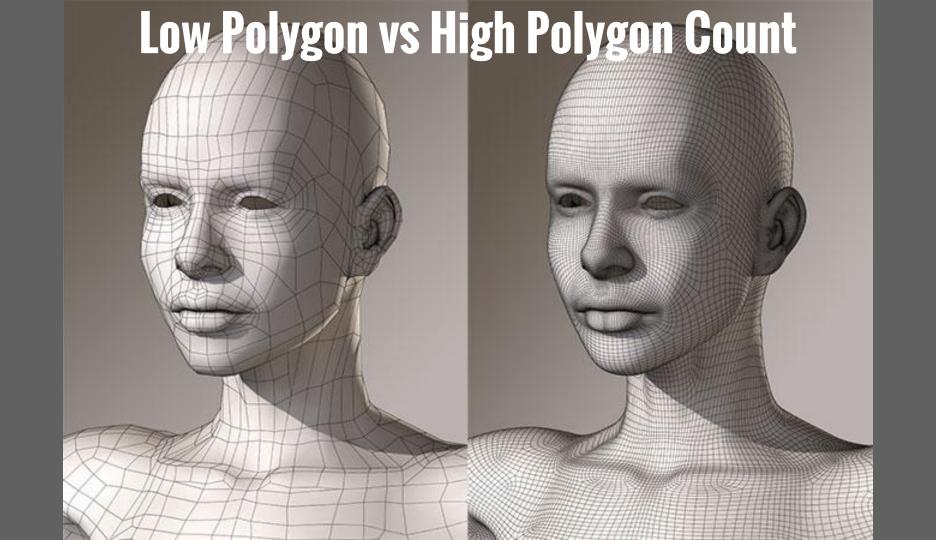
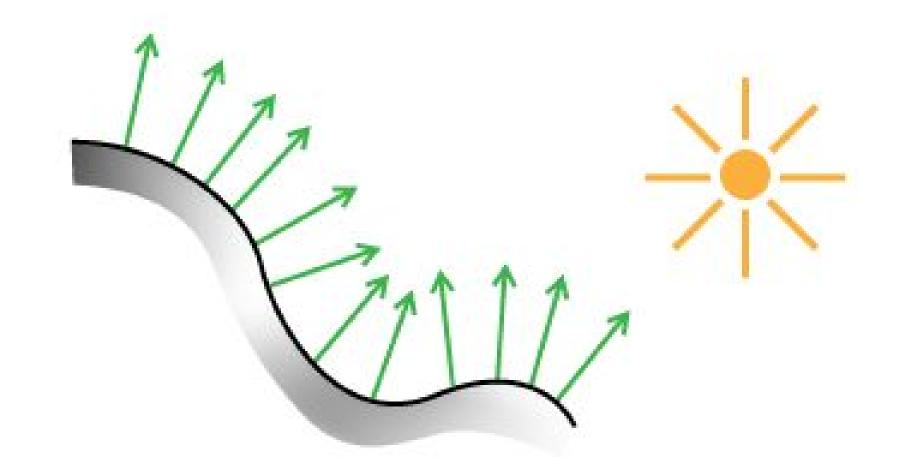


3D Texture Mapping CAP 3027 Fall 2015

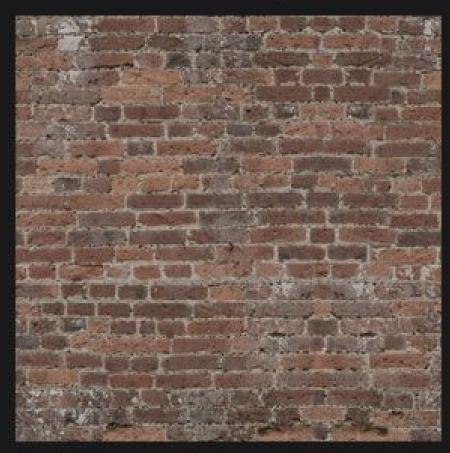
Nicola Frachesen | Richard Li | Natalie Rumak | Xiaoxi Zheng







Texture map Bump Mapping Bump Map

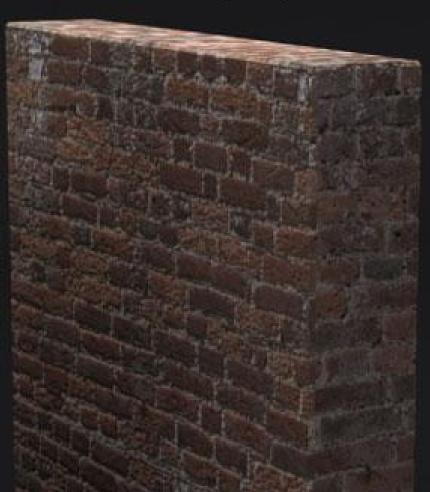


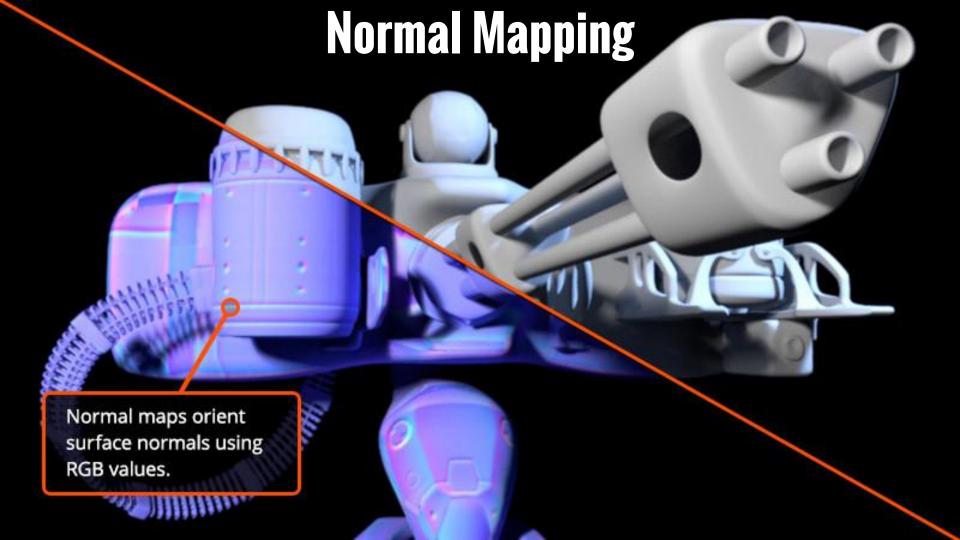


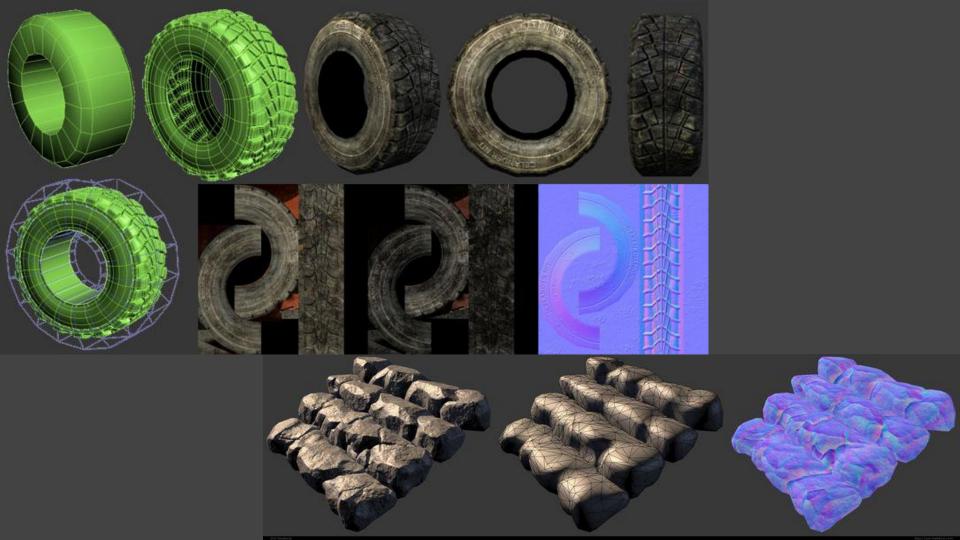
Without bump map

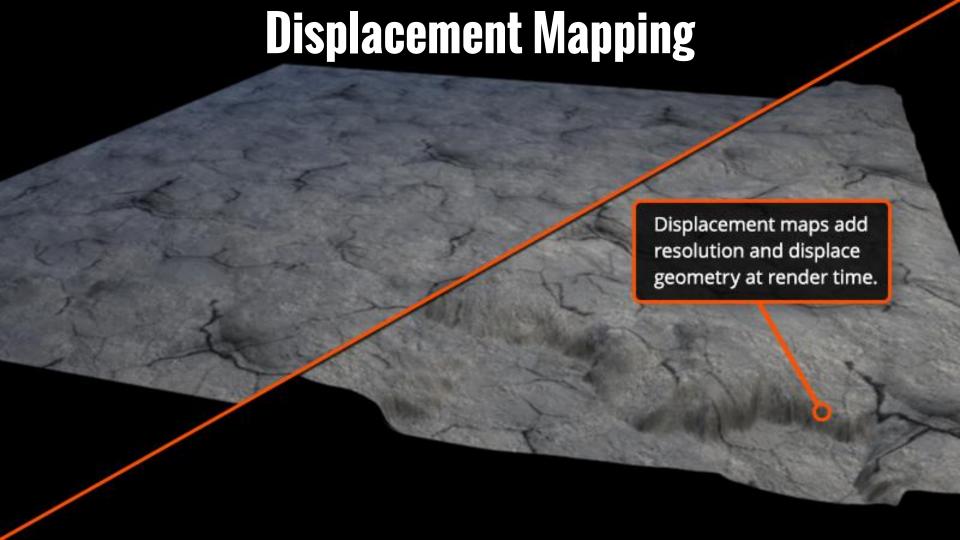
With bump map

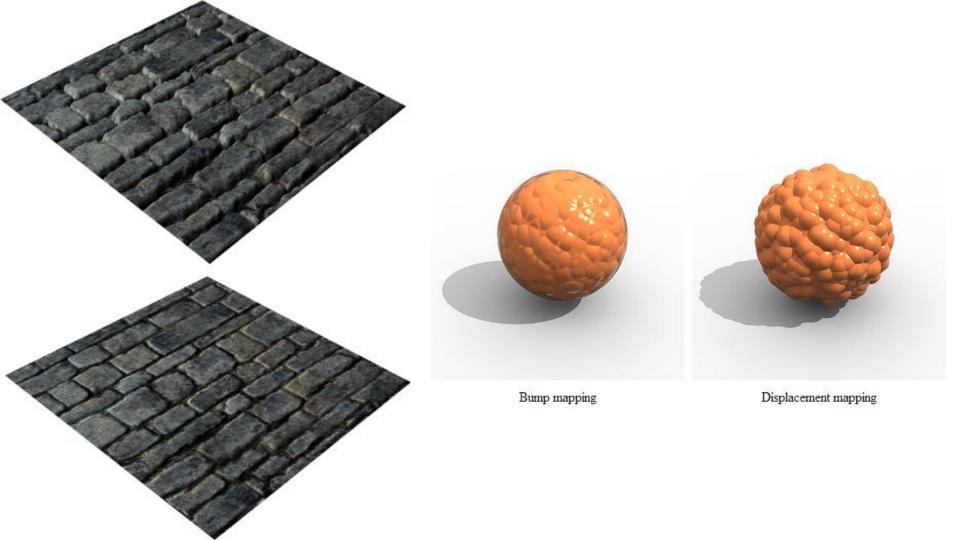


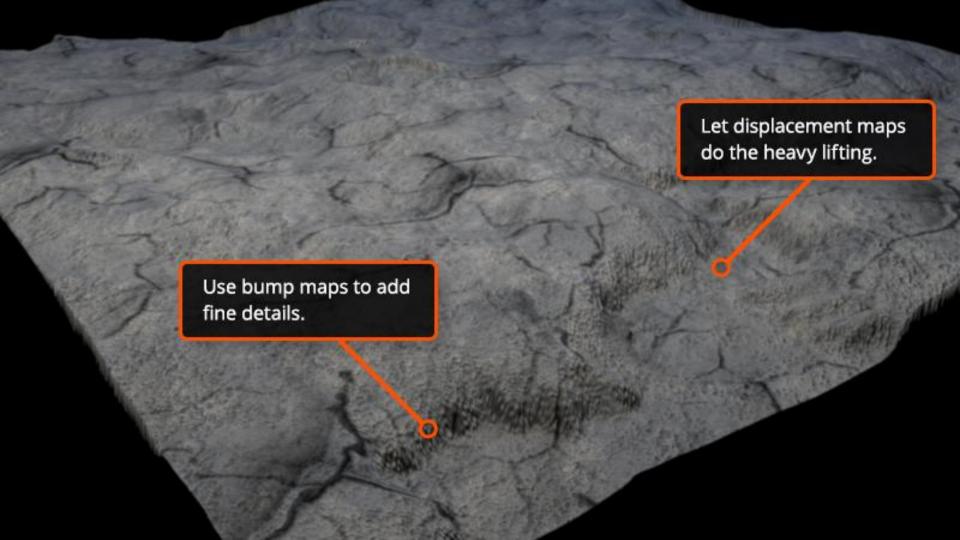












Relief Mapping



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

