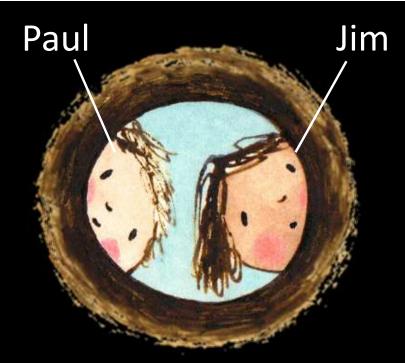
Further down the rabbit hole...





- Project started trying to identify bright spot in young Moon image
- Led to 3D imaging of the Moon (Paul) & lunar surface modeling (Jim)

Rabbit hole image courtesy http://dtrhradio.com/ Moon image courtesy Andrew Brown

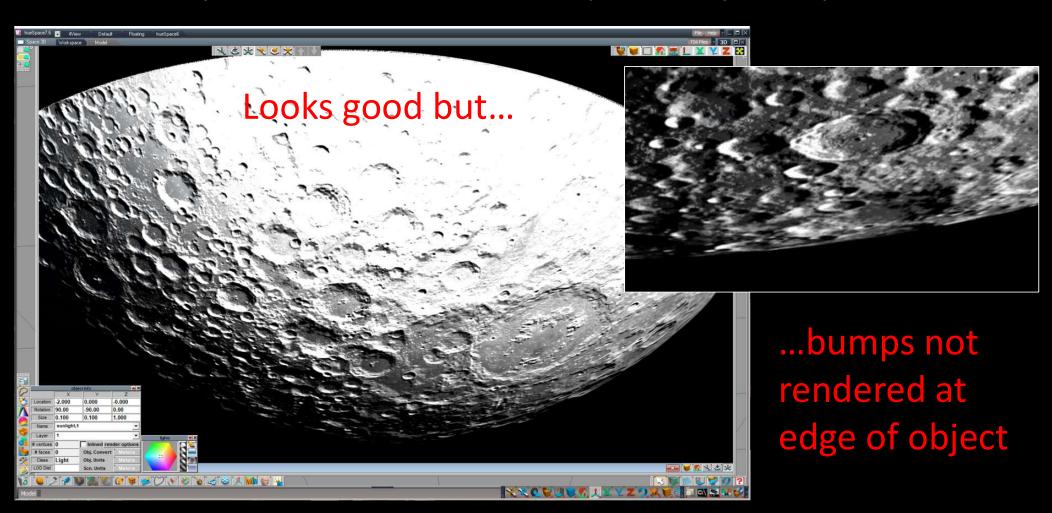
Simulating Lunar Phases

- Capturing same view of Moon again will be a challenge
 - Need same libration + clear sky to horizon
- What if I create 3D model of Moon and simulate view instead?
 - Total control of libration, lighting, image scale (zoom), camera position, etc.
- Already familiar with 3D modeling (Caligari trueSpace)
- Model inputs readily available on LROC website:

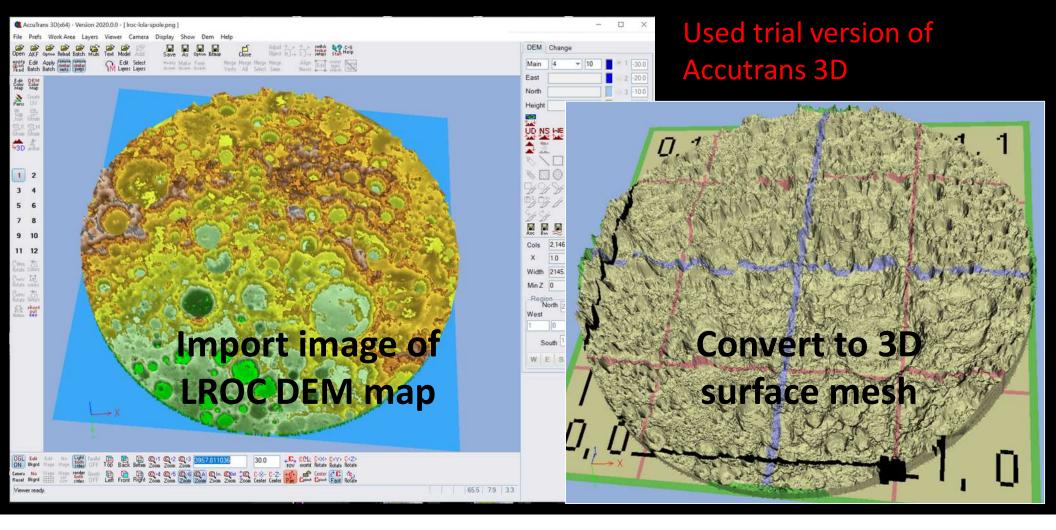
https://quickmap.lroc.asu.edu/

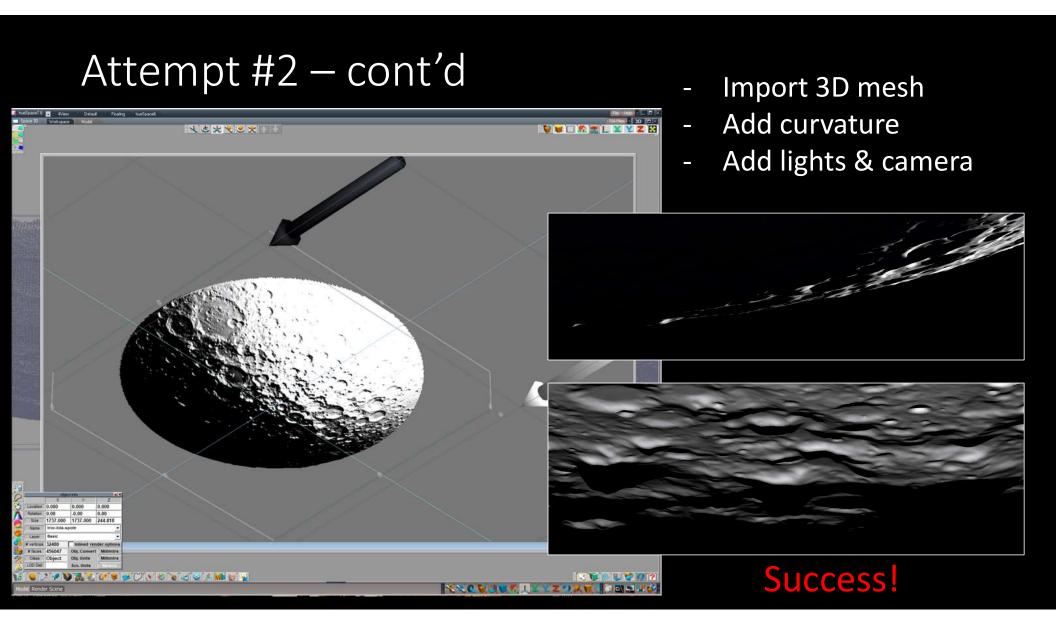
Sample Inputs From LROC Website Albedo 🌲 quickmap.lrocasu.edu/layers?extent=-121.1074152.0,47.4575037, 27.25828668;proj=178:layers=NrDMAZQTgGnGCMc808WGJQlo3582ArgDbEwDeARAE4CG+A5g. 😉 🔅 Satellite Images an... 🦁 History of EAA Blog 📘 Free online first aid... 🙆 Windy: Clouds 🥀 HYPERLEDA 🐞 Astrospheric 🐭 COVID-19 curves: C. SLDEM2015 Azimuth **Digital Elevation Model** III LOLA Albedo Map (save as monochrome images)

Attempt #1 – Quick & Dirty (Bump Map)

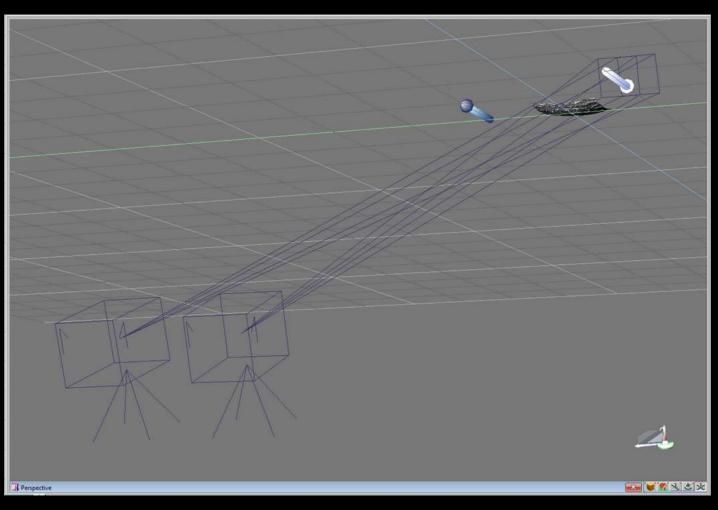


Attempt #2 – Long Way (3D Surface Model)





Stereo Pairs



- Same principal as Paul's cross-eyed method
- Instead of Moon at two different libration angles, use two cameras
- Distance between cameras sets depth of field

