2022 3D Scanning The fun...

Chris Coley NSS July 2022

Why I decided to try 3D scanning... And am still not sure it makes sense...

- Scan an object to turn in to a 3D model to print
- Scan an object so I can use the 3D model in CAD to create add on's
- Or use the model in DAZ 3D to be able to pose a figure to fit

3D Scanning methods.

- iPhone or Android APP, Application on the computer.
- Latest iPhone and iPads have 3D sensors and APPs for 3D scanning
- Photogrammetry
 - Take lots of pictures and stitch them together
 - 3DF Zephyr (<u>https://www.3dflow.net</u>)
- Laser Scanning, Structured Light
 - Projects a pattern and based on that patterns distortion determine the depth
 - Microsoft Kinect, Revopoint 3D (https://www.revopoint3d.com), Some industrial scanners...
- Time of Flight / Lidar
 - Effectively measures the distance to a point in space based on how long the light takes to get there
 - <u>Microsoft Kinect 2</u>, iPhone/iPad 3D sensor...

Specular and Lambertian... What do these words mean

- Specular

 - Or directly back blinding the camera

- Lambertian
 - Reflects light in all directions

This is like a mirror reflects light away from the source in most cases

Spray Paint... You have to paint your models well almost...

- AESUB White (Permanent sort of)
- AESUB Blue (Lasts a few hours)
- <u>AESUB Orange</u> (Lasts a few more hours...)
- Dry Shampoo Spray (Wash off when you are done)

• Oh by the way they lie. They are all white...

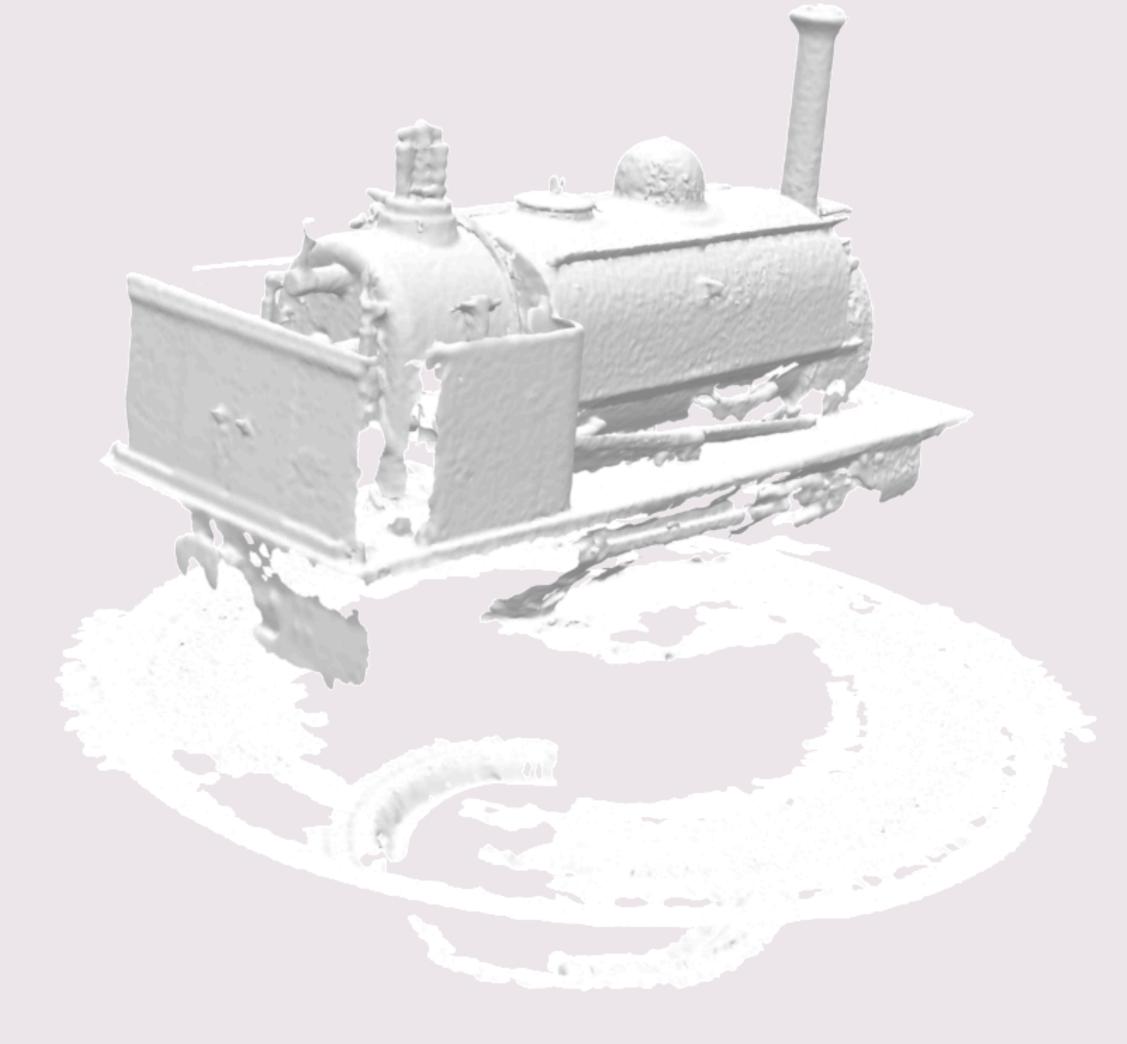


And we didn't have to paint him 🤤

3D Scan of Bob Sorenson



3D Scan of Accucraft Hunslet



Almost good enough to pose a figure in DAZ 3D 😃