CSE 564 – VISUALIZATION

LAB 3 REPORT – IMAGEVIS3D (IMAGES SUBMITTED SEPARATELY TOO)
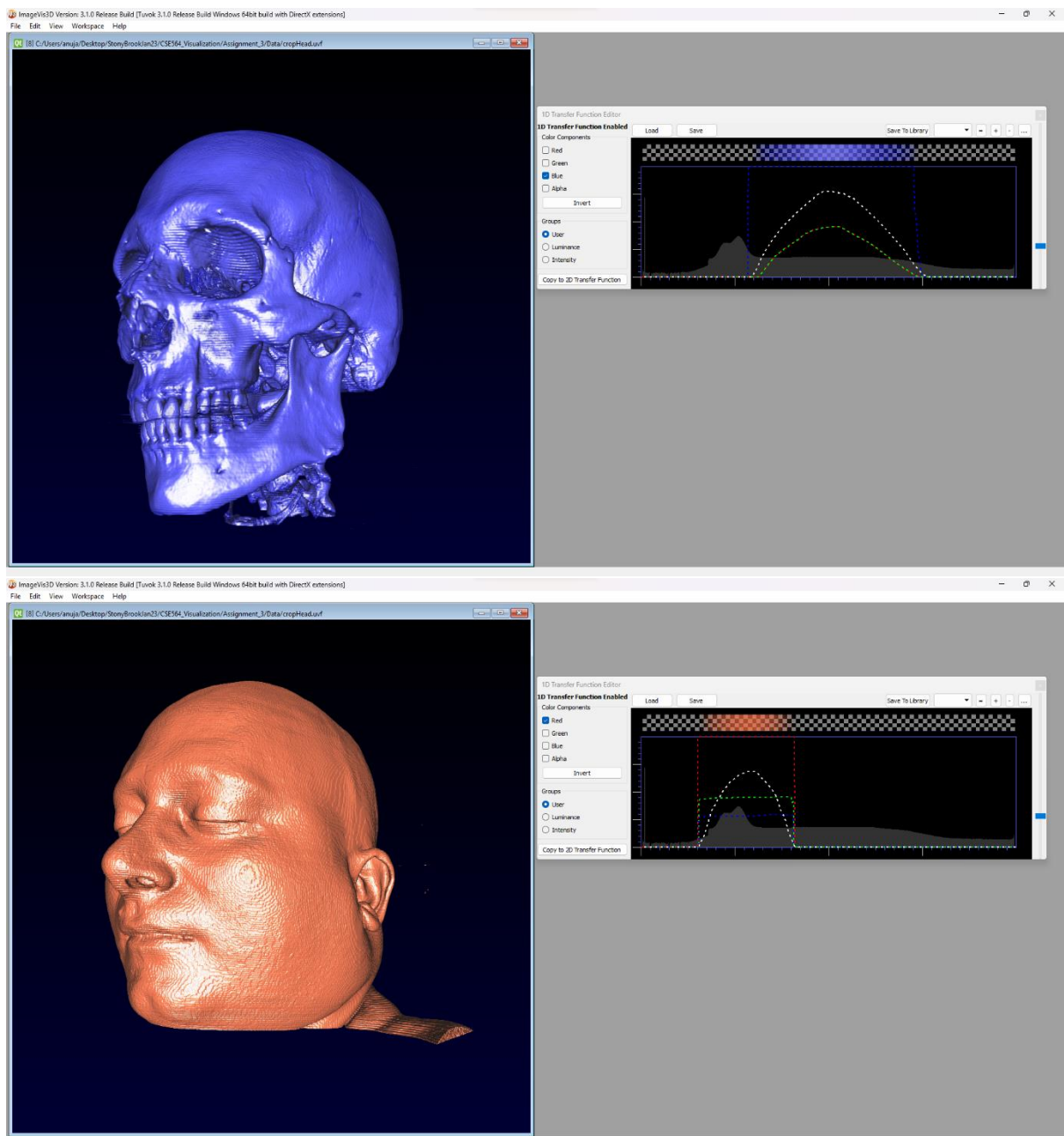
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Problem 1: render 4 iso-surface images

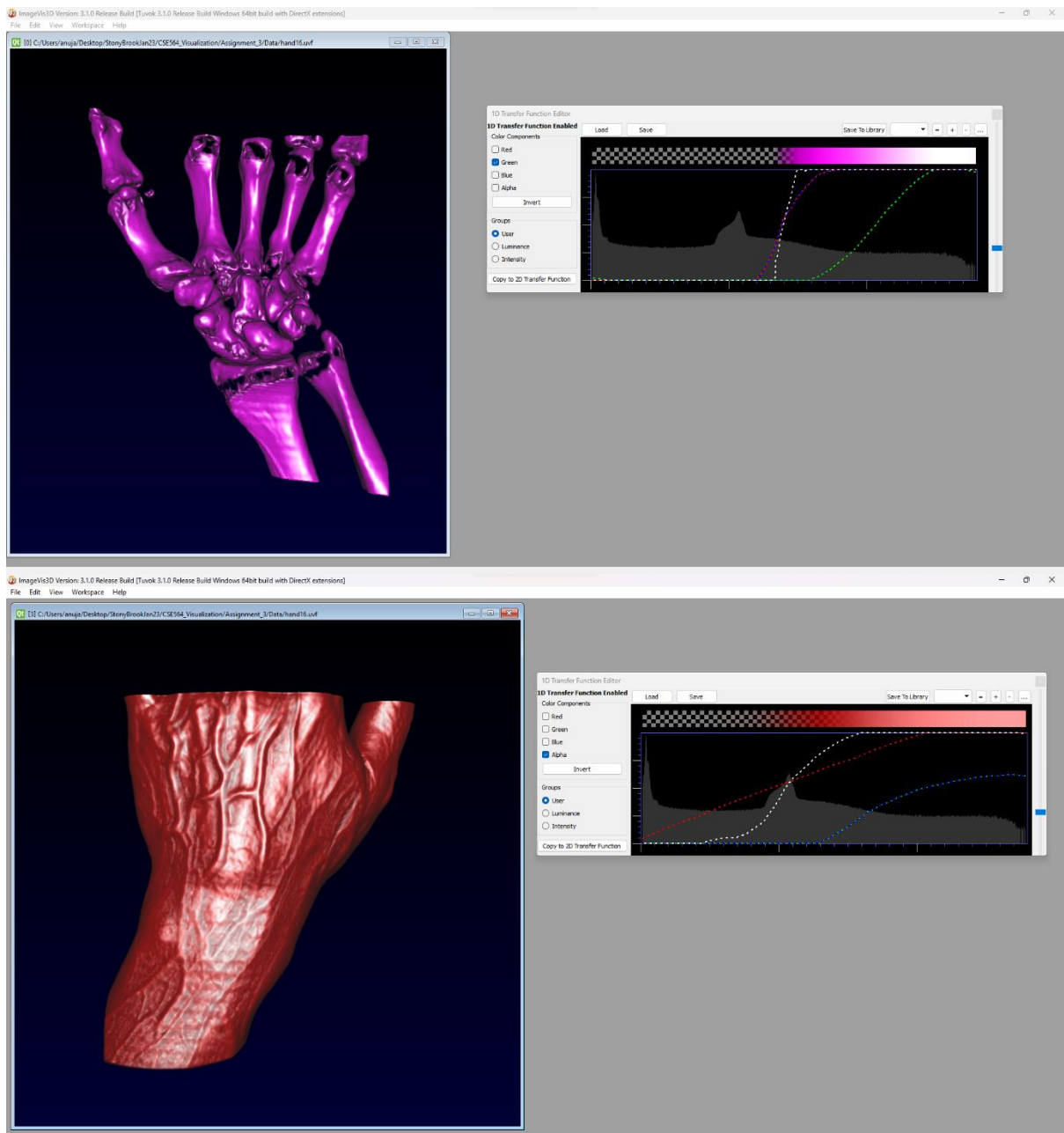*two different datasets with different iso-surfaces shown*

Dataset 1: cropped Head.

Iso surfaces: First one shows the skeleton and bone surface while the second one shows the skin surface.
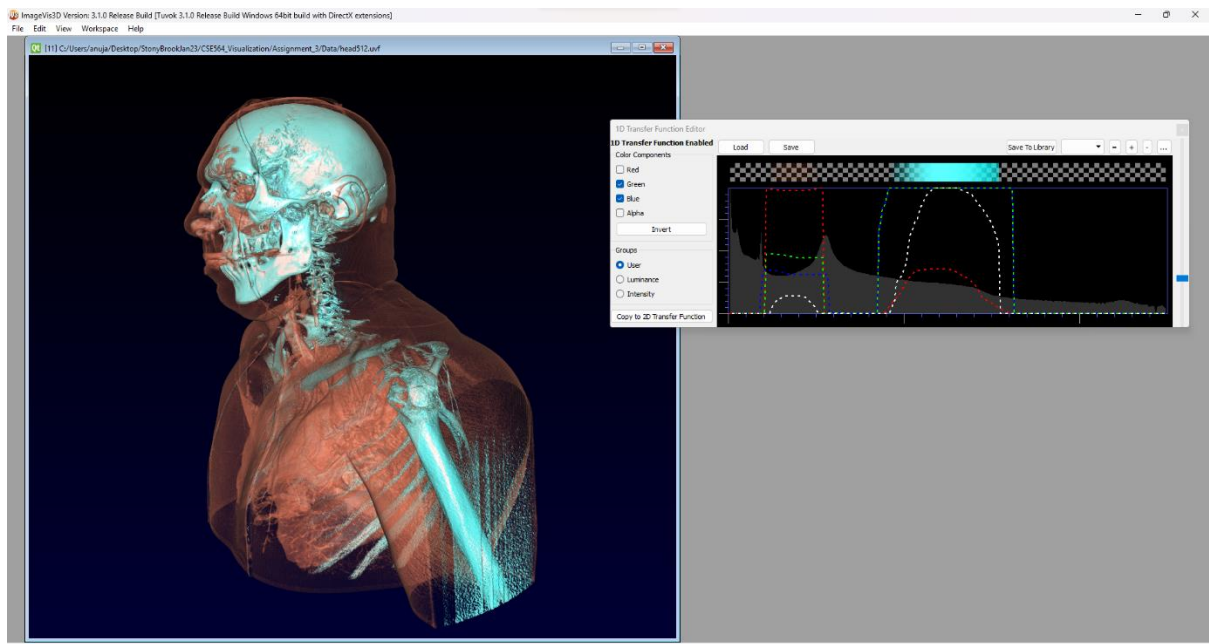
Dataset 2: Hand16

Iso-surfaces: First one shows the skeleton surface while the second one shows the skin surface and the lighting highlights the veins under the skin.

Problem 2: render 2 images with multiple surfaces visible using semi-transparent rendering

 pick from two different datasets

render the surfaces with different colors

Dataset 1: Head512

Semi-transparent rendering shows the upper structure layer which has the nose, lips and ears along with organs like lungs seen as semi-transparent render whereas the skeletal structure underneath is also visible and is opaque.

Dataset 2: Hand16

Semi-transparent rendering shows the upper structure layer which skin and veins seen as semi-transparent render whereas the skeletal structure underneath is also visible and is opaque