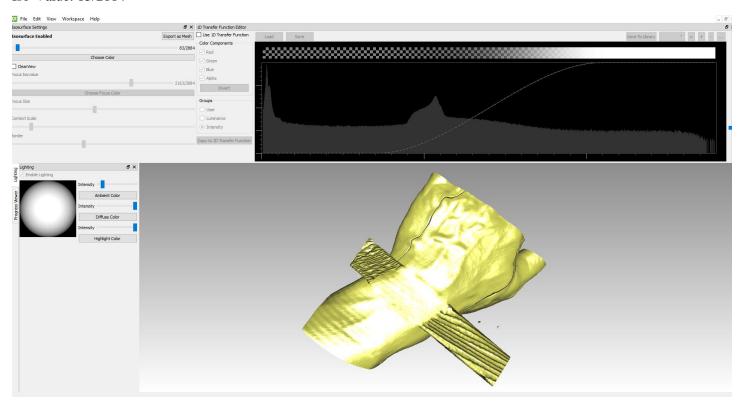
Q1)

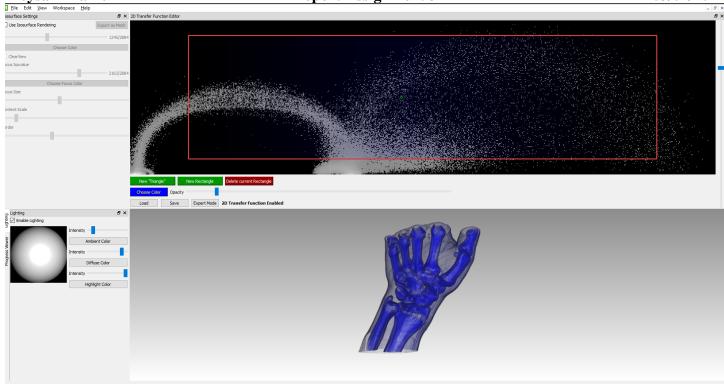
- What rendering method did you use for each image? How did you choose the settings?
- What Iso-value(s) correspond to the skin? What Iso-value(s) correspond to the bone?

Iso-Value: 83/2884

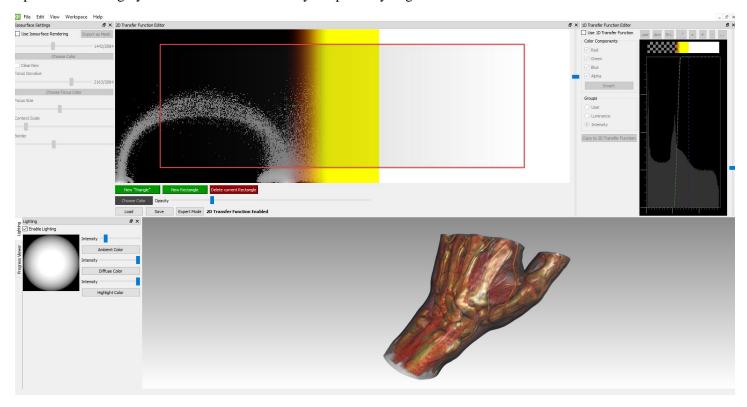


I did not change the Iso-value for the blue hands, I used 2D-Transfer Function. In this case to get the correct result I changed the opacity volume on 2d-Transfer Function.

My Iso-Value in this case is 1245/2884.

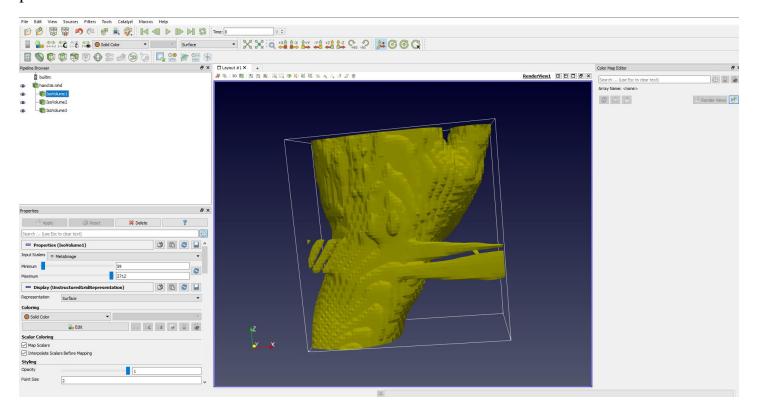


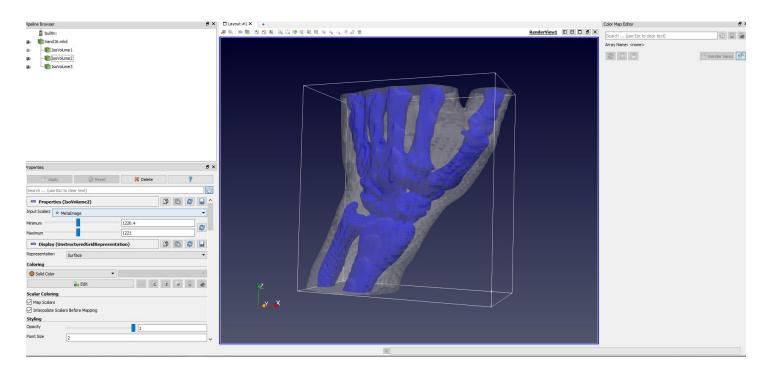
First, I load hand16.uvf and I used 1D-trafsfer Function. When hand show up I loaded hand16.1dt on 1D-transfewr Function and I clicked on "Copy to 2D-Transfer Function". I played with the opacity for finding the correct pictures. And I picked the dark gray color to make it more likely the picture you gave it to us.



Q2)

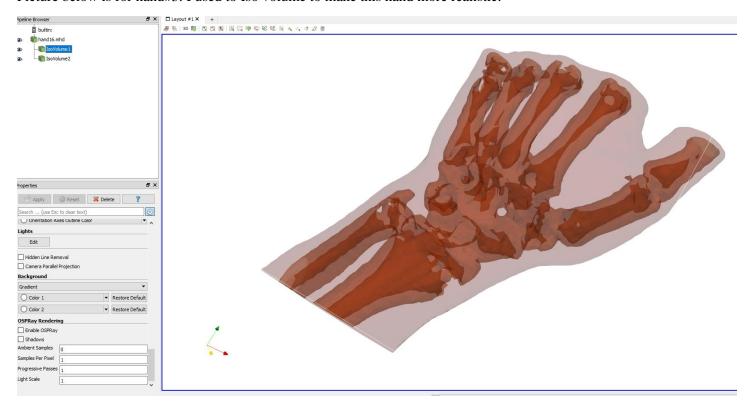
I



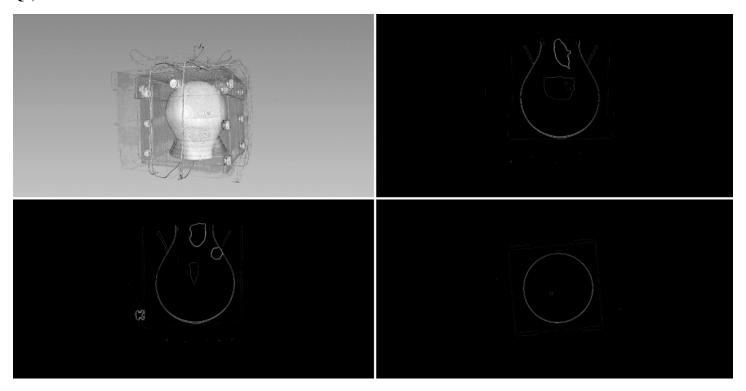


It was impossible for me to find good color on Paraview for hand#3. I used python to convert hand16.1dt to xml or Json but I was not successful. The main problem from my perspective about Paraview is a good open source software but it doesn't support many formats. In addition to that it is not user-friendly software.

Picture below is for hand#3. I used to Iso volume to make this hand more realistic.

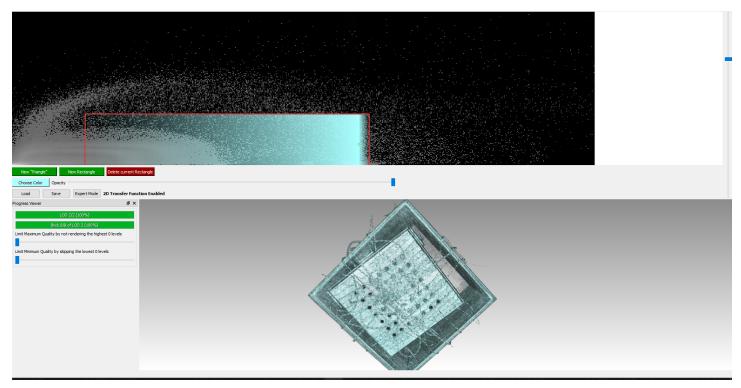


Q3)



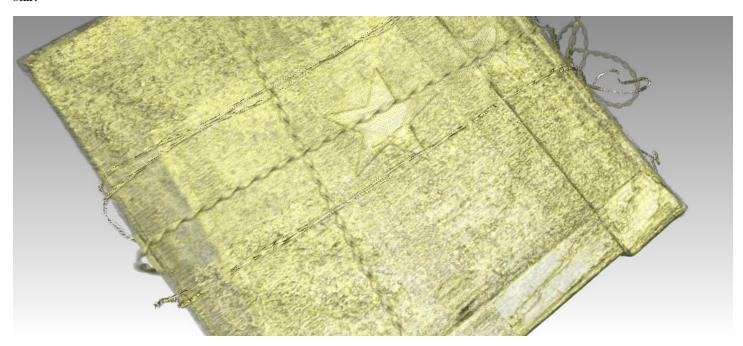
Max Opacity:

I used the 2D-transfer Function, when I changed the opacity to the Max I can see the more details such as 1 box inside a present box. The result below when I changed the opacity to Max:

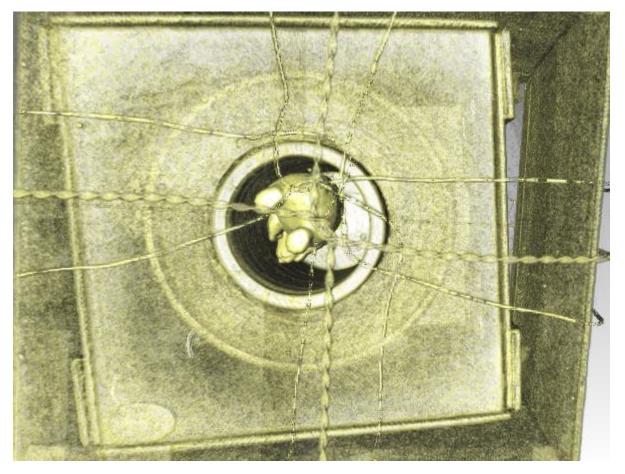


Use volume rendering within ImageVis3D to visualize the data and find out what is in the "present".

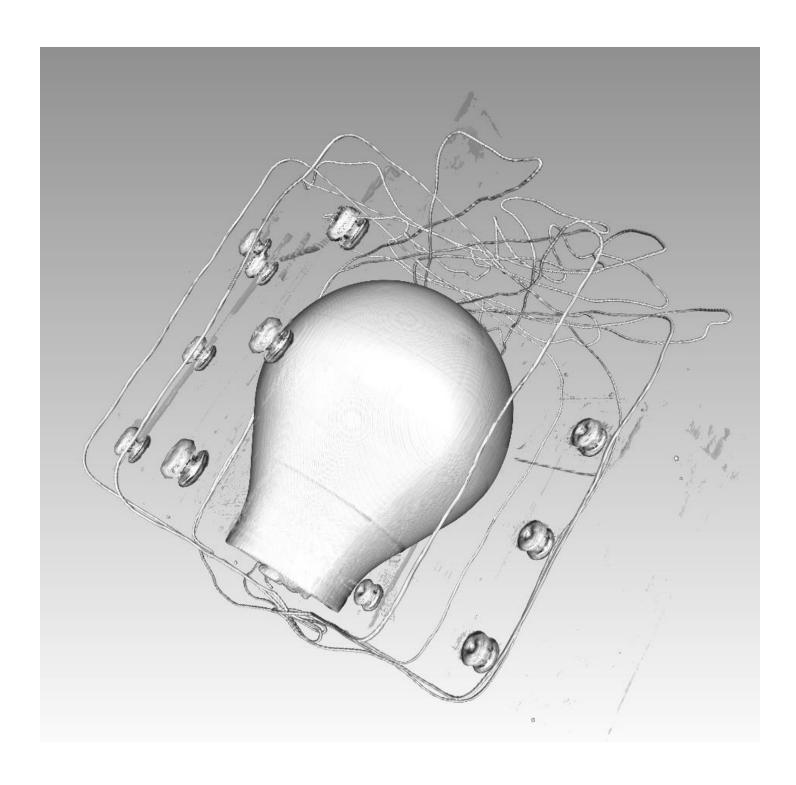
It looks like a cage with many wire that connect the cage to the main box. I saw different sign in the main box such as star.

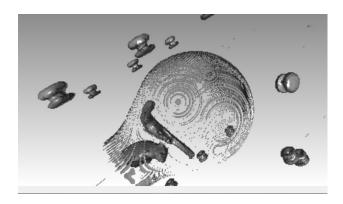


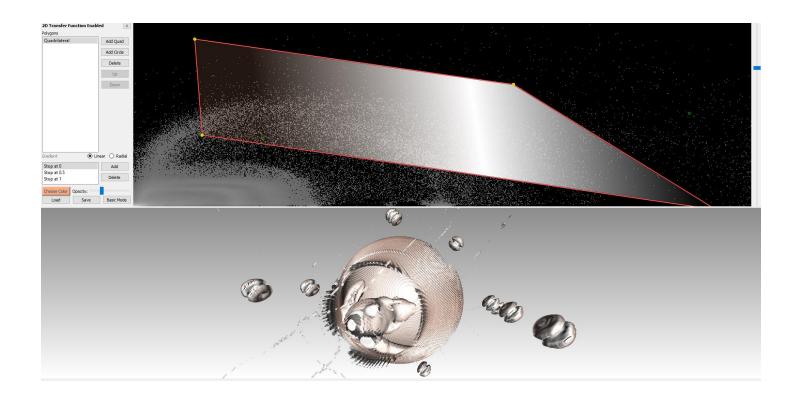
The wire seems more like ribbon. And, inside the second box we have something look like globe. Inside the globe I think we have Squirrel



I used new triangle method on 2D transfer function And I put my opacity in the middle and I find many pins that connect the second box to the globe.



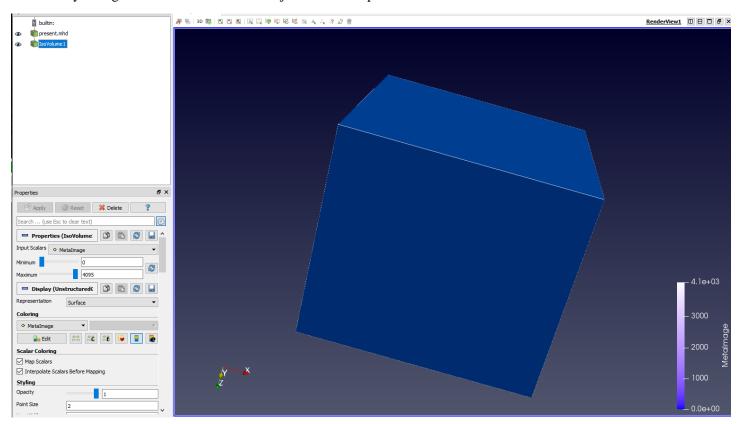




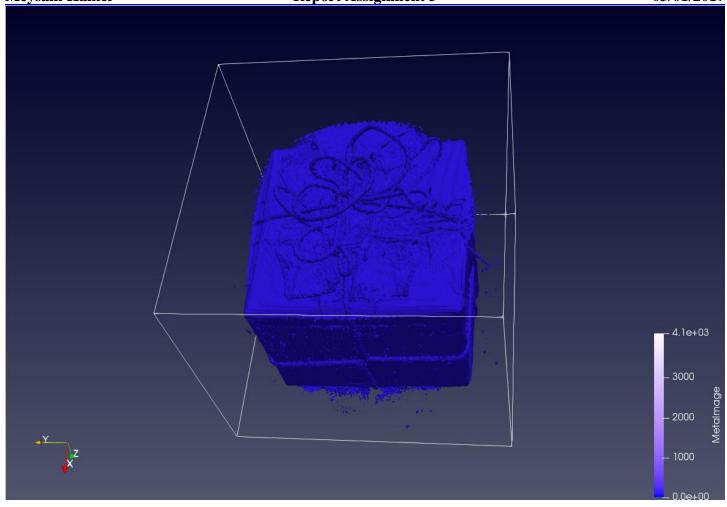
Q4)

Paraview

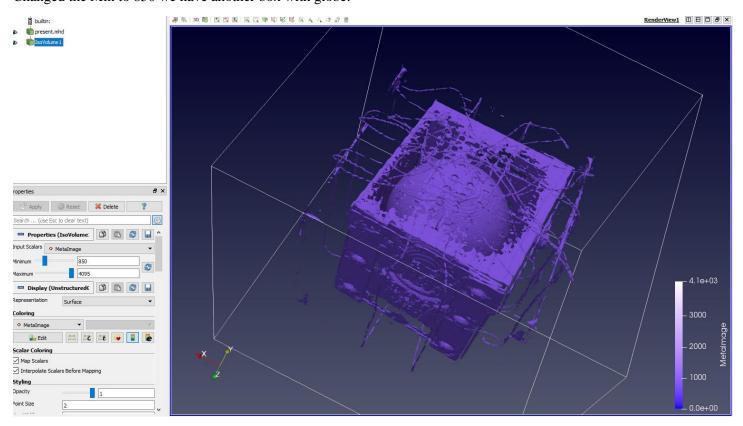
I export the data to the present.mhd. I open the .mhd file in the Paraview and I applied Iso volume filter. In Paraview without any change in Min value our result is just a box like picture below:



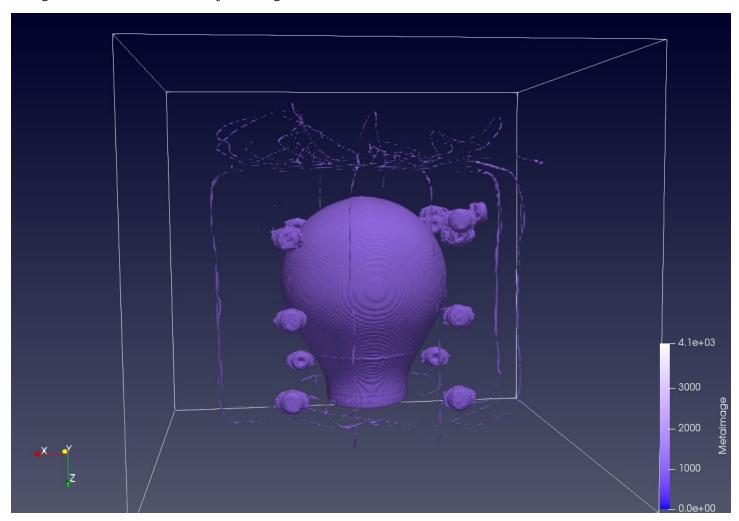
When I changed the Min value in Iso volume we can see inside of the box. I changed the Min value to 100 I got the result below:



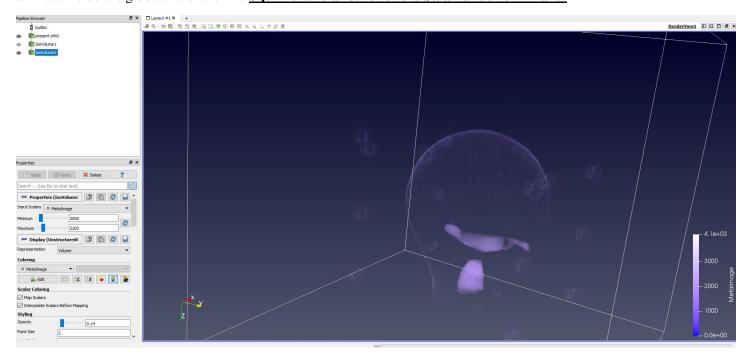
Changed the Min to 850 we have another box with globe:



Changed the Min to 1200, now we just have globe



I added another Iso volume and I changed the opacity to 0.14 and, I changed representation to the volume, I found to animals inside the globe one of them is **Squirrel and another one is Salamander or Lizard.**



I changed the opacity for first Iso volume to 0.1 and, I hanged the min to 1150 and max 2900 and I found new thing in the box. It looks like a castle or maybe house I have attached the picture below also I changed the representation to the Wireframe.

