

CS 6965 Advanced Data Visualization Project 3

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Step 0: Getting Started (5 points)

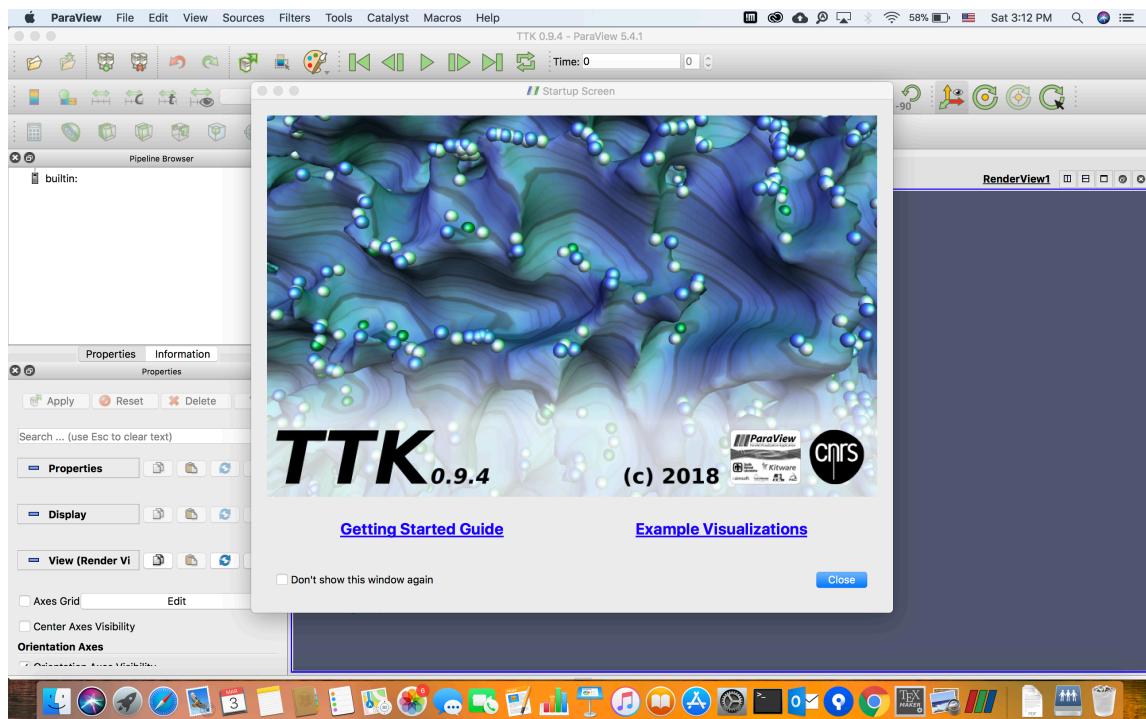
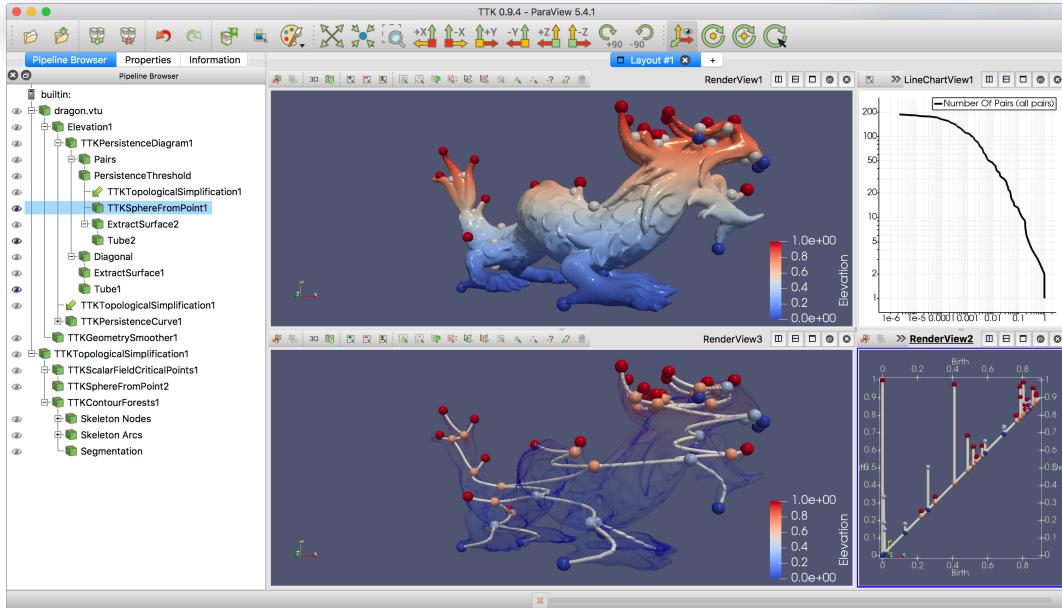


Figure 1: Screen capture of the TTK startup screen

Step 1: Dragon Demo (5 points)



Problem Encountered In the beginning, I strictly followed the instructions to make the contour tree. However, the colors of nodes in the Contour Tree are not identical to the colors of nodes in the Persistence Diagram even though they are both colored by `Nodetype`. Namely, the dark red points are displayed as light red in the contour tree.

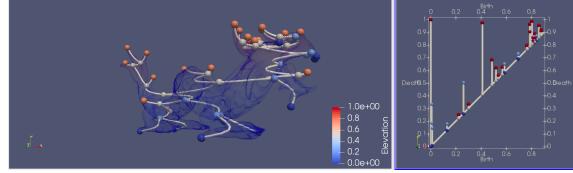


Figure 3: Problem on Contour Tree with blue-red color scale

I also tried the same color as the demo, but still got a lighter green.

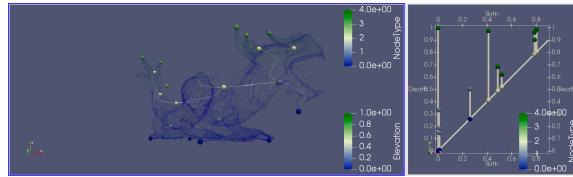


Figure 4: Problem on Contour Tree with blue-green color scale

Finally I checked all the properties in the example state file and found that they used a different color scale to enlarge the threshold of dark green.

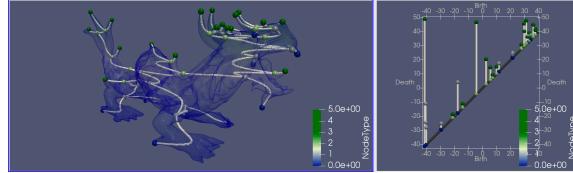


Figure 5: Color scale used in the example

I accordingly modified my nodetype color scale and got a better look.

Step 2: Morse Persistence Demo (5 points)

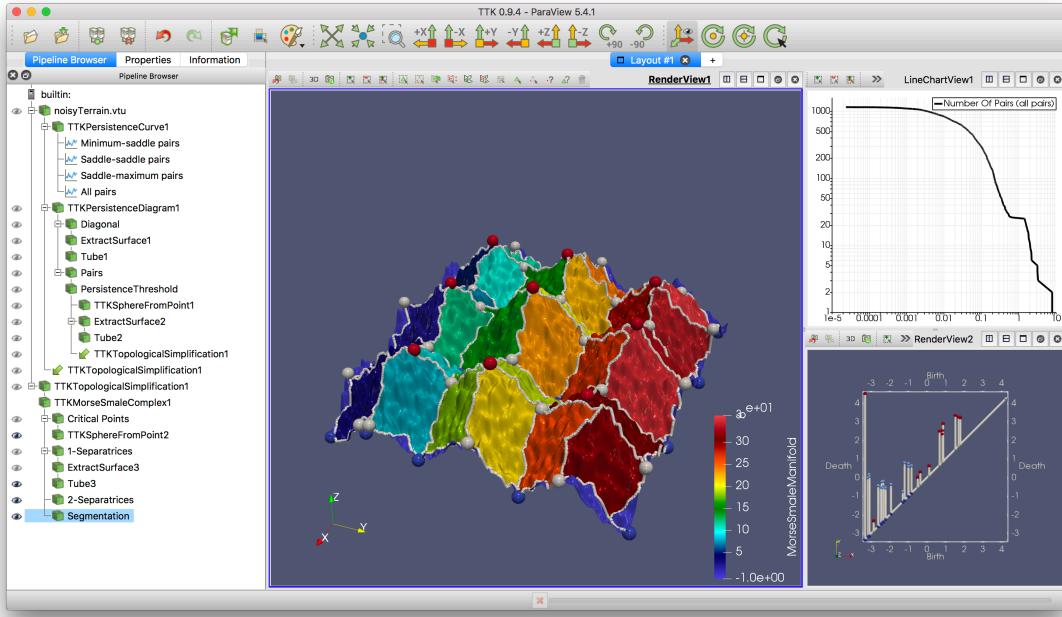


Figure 6: Screen capture of the Morse Persistence Demo