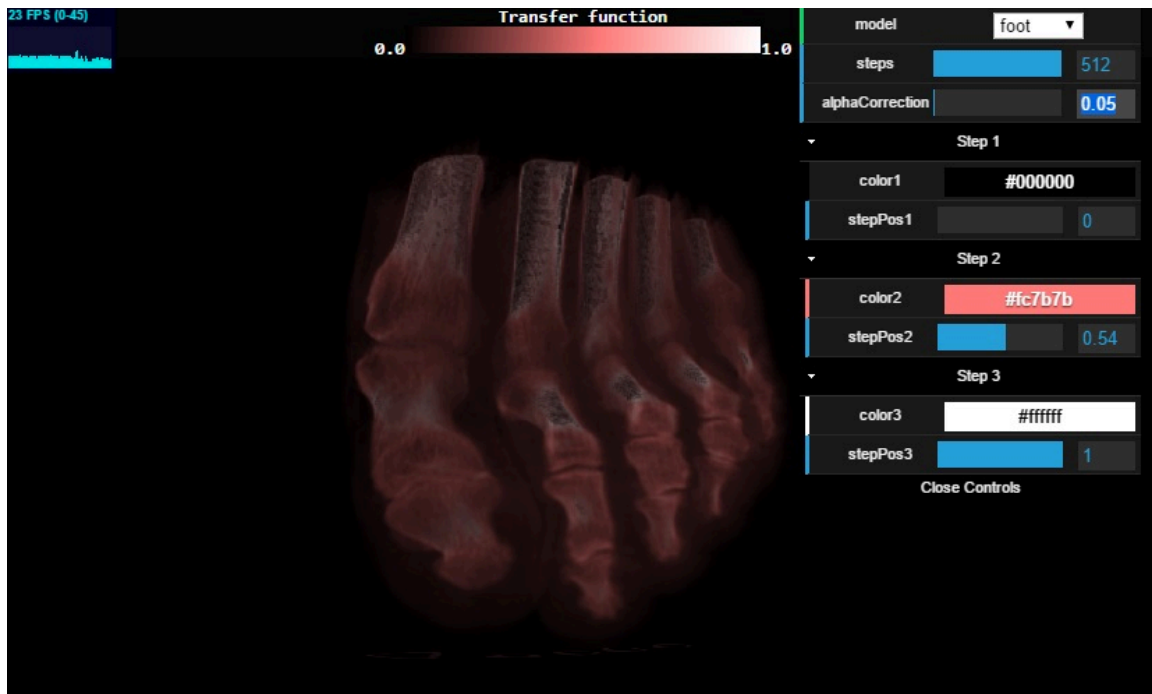


## CS 5630 / CS 6630 Visualizaion HW6

a)

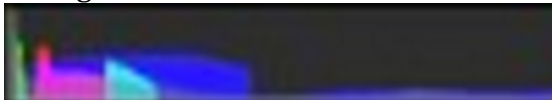
We have three color picker and we have alpha correction factor for that. Each depth is determined by the number of steps mentioned in the design. This is one way of effectively designing



b)

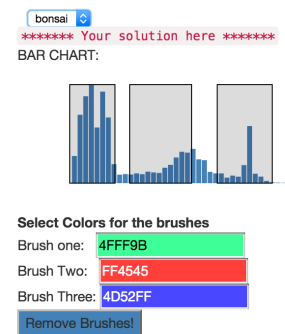
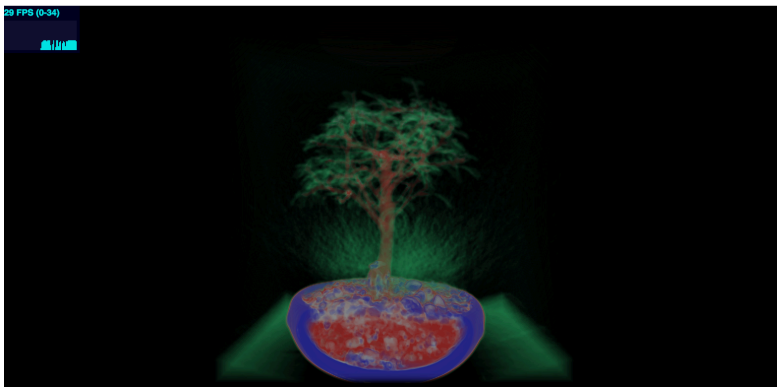


Histogram:



I will basically have a histogram and with a brush select the region from the histogram and apply color appropriately. With this I could group each region and apply color suitably so that each clustered part will be represented in a separate color which is effective to view.

c)



This is what I implemented. In this we can use three brushes and select the region from the bar graph, similar to previous representation but I used a bar graph for this. Each can be given different color and can be appropriately viewed.

3) Interesting pattern:

- Dark colors with light colors works perfect.
- Dark colors should be given to higher intensity region.

Pattern:

- 1) If you see the above picture, the intensity higher region is chosen by green color which constitutes the upper part.
- 2) The medium intensity part constitutes the stem and goes till root.
- 3) The root outer part which constitutes blue ives the lowest intensity part.