Subject: Re: color value interpolation from colorbar
Posted by j.coenia@gmail.com on Fri, 05 Dec 2008 02:35:56 GMT
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Thanks everyone. Sorry for the delay, I had to generate the requested pics and create a Picasa web album. If there is a better way to post images to usenet forums, please let me know.

Below is the Picasa link to the two images requested by Vince and Paolo, (1) an example frame grab of a scan, and (2) its colorbar RGB plotted against colorbar location:

http://picasaweb.google.com/j.coenia/ColorInterpolation?auth key=H9iPrIqxX1c#

To answer Jeremy's question, the colorbar length is 140 pixels or so (scaled here from 1 to 100 on the x axis, which is vertical in the scan). You can see from the plot that the colorbar sampling is "garbagy." There are two very bright artifacts, at approximately x=20 and x=80. Such outliers can be tossed or smoothed out somehow I think. For simplicity, I just sampled the values down the vertical center of the colorbar, as the colorbar tends to bleed a little into the dark background near the edges (more errors).

Jeremy's answer makes some sense to me. So is it possible to reasonably guess the color levels in that artery using the colorbar on the side of the scan? I know there is no scale on the colorbar -- I've been instructed to assume linear gradient from 1 to 100. Radiologists and researchers use these colors; can the computer quantify them to extract more meaningful information?

Thanks again.