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Subject: color table conversion

Posted by [Arend Sluis](#) on Fri, 18 May 2001 15:59:10 GMT

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Hi,

this is a bit of an arcane topic, but here goes. I would like to use the CIE Lab or CIE Luv color system to choose the colors that I want to load into the IDL color table. The conversion from either of these color systems to CIE XYZ is standard, the problem is the conversion from CIE XYZ to RGB in IDL. I found one conversion (in the procedure PSEUDO), but it doesn't seem to be correct, since white is not in the correct place, i.e. Lab = (\*,0.,0.). Does anyone have any ideas how to find the correct conversion, or how the folks at rsinc found their XYZ->RGB transformation to begin with?!

In case you're wondering why I care: Lab and Luv systems are based on the way colors are perceived, so that the perceived difference between to colors is reflected in their Lab coordinates. This way I can optimize the way I am displaying my data. I hope.

Thanks for any help,

Arend.

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