Subject: Re: Medical Imaging Question
Posted by davidf on Thu, 05 Aug 1999 07:00:00 GMT
View Forum Message <> Reply to Message

Mirko (mirko_vukovic@notes.mrc.sony.com) writes:

> davidf@dfanning.com (David Fanning) wrote:
>>
>> I've got a 12-bit Dicom image. I want to display this in
>> such a way that there is a direct correlation between
>> the pixel value (0 to 4094) and the representation of
>> that pixel value on the display. How do I do that?
>>
>
> Can you please expand on that? What do you mean by direct correlation?
> For a 4-bit image would color be a good correlation
> (16 values <=> 16 colors/intensities)?

I mean by this that I want to "see" 4094 shades of gray.
Now I know there are only 256 "pure" shades of gray, so
I presume that I have to fudge a gray somehow. For example,
the pure gray (128, 128, 128) could be fudged by something
like (128, 128, 135). The latter is not really a gray, but
it's almost gray and presumably it "looks" different than
the pure gray. My question really boils down to this: Is there
some standard way to "fudge" gray values between the pure
gray values, so that it appears as though I have 4094
shades of gray? And if so, what is the algorithm to
go from the pixel representation on the display to the
real pixel value?

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting
Phone: 970-221-0438 E-Mail: davidf@dfanning.com
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Toll-Free IDL Book Orders: 1-888-461-0155