Subject: Re: Creating a dicom-file in HSV colors
Posted by Abraham campbell on Thu, 31 Jan 2008 14:40:39 GMT
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andreas.weng@gmail.com wrote:
> Hi there,
>
> this is my first question to this newsgroup. I could not find my
> problem in the archives.
> I want to create a dicom-file in the HSV-color format. We have the
> toolkit and I can create the files, but they do not contain what I
> want them to.
> I pass a an array with size (3,25,25) to the method. The three fields
> contain the values for hue, saturation and value. Writing the file
> with
>
> obj->setpixeldata, data, bits_allocated=bitsAlloc, $
> photometric_interpretation = 'HSV', $
> columns = coli, $
> rows = rowi, $
> samples_per_pixel=3, $
> planar_configuration = 0, $
> pixel_representation = PixelRep, $
> number_of_frames = 1
>
> and commiting it produces a dcm-file with the size 25x25. Looking at
> the file with a dicom-viewer shows that the first pixel-column of the
> created image contains the values of the first row of the first field
> of the input data.
> Hard to describe...
>
> Goal of the HSV-image should be to encode three different parameters
> of an examination in one image.
>
> So my question: Does anybody know if I have to rearrange my passed-in
> data? IDL-Version is 6.3.
>
> Greetings,
> wengi

You can also store anything you want as private tags--provided that you (and your organization) are the only consumers of your DICOM files. Private tags let you put your own custom data (i.e. non-standard) into a DICOM files. The down side is that private tags are not standard tags, so other DICOM software may not be able to read the data in private tags. If that is not an issue for you, then you might consider private tags, though their syntax is somewhat terse.

You could create a private tag, store your HSV image as a data blob of OB type data (OB means "Other Byte"), then later, read in your blob of byte data, then re-interpret it as your HSV image. But, you won't have to convert it to any other image format before storing it, since you are just streaming your HSV image into a private tag as a collection of bytes.

Just a thought.
Abraham
