Subject: Re: Creating a dicom-file in HSV colors
Posted by wengi on Fri, 01 Feb 2008 13:02:26 GMT
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On 31 Jan., 15:40, Abraham campbell <abra...@ittvis.com> wrote:
> andreas.w...@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

Hi Abraham,

thank you for your ideas. But maybe this could be a problem for me. I
think our PACS system will have problems with that private tags
because of having the MUST of being standard. But creating the images
using color_convert in IDL solved my problem I think. The images look
as I want them to and they are "standard".
Thank you again.
wengi
