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Subject: Re: pixel size in DICOM images  
Posted by [Jo Klein](#) on Tue, 27 Feb 2007 14:54:19 GMT  
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Hi Pete,  
Pixel size is stored in tag (0028,0030). Note that this is actually pixel spacing, not pixel size, although in most contexts these terms are interchangeable. The IDLffDICOM object will help you extract this and other data.  
Cheers,  
Jo

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Subject: Re: pixel size in DICOM images  
Posted by [Mike\[2\]](#) on Tue, 27 Feb 2007 14:54:33 GMT  
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On Feb 27, 9:32 am, Peter Clinch <p.j.cli...@dundee.ac.uk> wrote:  
> As far as I can tell the QUERY\_DICOM routine doesn't actually tell me  
> the pixel size (i.e., mm in the original target, not number of pixels  
> making up the image) of an image. Which is a shame, as I'd really like  
> to know what that is!  
>  
> Have I got that wrong, or are there any suggestions from The Team as to  
> how I'd most easily go about getting that?

To get the pixel size and image dimensions, you can use IDLffDICOM:

```
IDL> dcm = obj_new('IDLffDICOM')
IDL> var = dcm->read(filename)
IDL> Nx = *(dcm->getvalue('0028'x,'0010'x))[0]
IDL> Ny = *(dcm->getvalue('0028'x,'0011'x))[0]
IDL> pixel_size = *(dcm->getvalue('0028'x,'0030'x))[0]
IDL> help, Nx, Ny, pixel_size
NX          UINT      =   512
NY          UINT      =   512
PIXEL_SIZE  STRING    = '0.9765625\0.9765625 '
IDL> print, float(strsplit(pixel_size, '\', /extract))
0.976562    0.976562
```

Although I often use the DICOM standard to look up group/element pairs, it is even easier to use IDLffDICOM::dumpelements:

```
IDL> dcm->dumpelements
```

Regards, Mike

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Subject: Re: pixel size in DICOM images  
Posted by [Peter Clinch](#) on Tue, 27 Feb 2007 15:04:21 GMT  
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Mike wrote:

> To get the pixel size and image dimensions, you can use IDLffDICOM:  
<snip>

That was pretty comprehensive!

Many thanks, problem sorted... :-)

Pete.

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