
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.clinch@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
