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Subject: Re: minimum intensity projection  
Posted by [David Fanning](#) on Fri, 02 Jul 2004 15:15:10 GMT  
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maarten writes:

> I am trying to perform a minimum intensity projection on a 3d MRI  
> dataset, and I was hoping if anyone ever wrote an algorithm to perform  
> this. Because I am having some problems implementing this myself.

When we want a minimum projection image of one of our volumes,  
we simply do this:

```
min_image = Min(volume, Dimension=3)
```

We have had some discussion with doctors about whether  
this \*means\* anything, but it's easy enough to do, so  
why not. :-)

More often they are interested in the maximum intensity  
projection, which--of course--is done like this:

```
max_image = MAX(volume, Dimension=3)
```

If we are calculating a MIP Cine image, we will  
do a bit a weighting of the values, otherwise  
as the image rotates it is very difficult to  
distinguish front from back.

Cheers,

David

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David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

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