
Subject: Re: Volume Size

Posted by [davidf](#) on Thu, 09 Apr 1998 07:00:00 GMT

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[A copy of this article was sent to the cited author.]

Whoops, as a long-time IDL user I am still prone to beginner mistakes. :-(I wrote this:

```
> Presumably you can distinguish the pores by some "value"
> in the 3D volume. Suppose the pores had values less than
> 10 and the rock (rest of the 3D volume) had values greater
> than 10. Then calculating the percentage volume of the pores
> is as simple as this:
>
> pores = Where(volume LE 10)
> percent_pores = N_Elements(volume[pores])/N_Elements(volume)
```

And what I *should* have written is this:

```
percent_pores = FLOAT(N_Elements(volume[pores]))/N_Elements(volume)
```

Or you will be looking at a 0 percent, always!

Cheers,

David

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Subject: Re: Volume Size

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Andy Wales (wales@chrs1.chem.lsu.edu) writes:

```
> As a newcomer to the world of IDL (I have been using it for three
> weeks!) I would like to know if there is any way that IDL can be used to
> measure the percentage volume of an object. To use a geological example
> - can I find out the percent-volume of the pores in a rock?
>
> Most of our data is stored as 2D 'slices' as .cdf files and then
```

> constructed into a 3D common block form in IDL

Presumably you can distinguish the pores by some "value" in the 3D volume. Suppose the pores had values less than 10 and the rock (rest of the 3D volume) had values greater than 10. Then calculating the percentage volume of the pores is as simple as this:

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pores = Where(volume LE 10)
percent_pores = N_Elements(volume[pores])/N_Elements(volume)
```

Cheers,

David

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