
Subject: Re: Composition structure

Posted by [Paul Van Delst\[1\]](#) on Fri, 01 Oct 2004 19:12:11 GMT

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Jeferson E. wrote:

> Hello there!

>

> Assuming I have 5 images and I want to get the maximum value
> composition. I can use something like that:

>

> Composite = Image1 > Image2 > Image3 > Image4 > Image5

>

> However, in the case I don't know the number of images, I can't use
> this structure. What could be done?

Depends how you call your application, no?

Let's say you have 10 images (say, 800x640) - you'd need to stick them in some sort of array to allow you code to process an arbitrary number of images,

```
n = 20
```

```
ImageArray = bytarr(800,640,n)
```

```
.... here fill you image array....
```

```
GetImageMax, ImageArray, ImageMax
```

where the procedure is something like below:

```
PRO GetImageMax, ImageArray, $ ; Input  
    ImageMax ; Output
```

```
; -- Get some array info
```

```
Info = SIZE( ImageArray, /STRUCTURE )
```

```
; -- Is the image array 3-d?
```

```
IF ( Info.N_DIMENSIONS NE 3 ) THEN $  
    MESSAGE, 'Must pass in a 3-D array!'
```

```
; -- Determine the number of images
```

```
n_Images = Info.DIMENSIONS[2]
```

```
; -- Find the maximum
```

```
ImageMax = ImageArray[*,*,0]
```

```
FOR i = 1, n_Images-1 DO BEGIN
```

```
    ImageMax = ImageMax > ImageArray[*,*,i]
```

```
ENDFOR
```

```
END
```

I'm sure other folks will post cleverer solutions that don't use loops.

paulv
