
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
