Subject: Re: Composition structure

Posted by James Kuyper on Fri, 01 Oct 2004 18:49:44 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?

Composite = Image1

Then, for each additional image:

Composite = Composite > ImageN

Subject: Re: Composition structure

Posted by btt on Fri, 01 Oct 2004 19:07:02 GMT

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Jeferson E. wrote:

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- > this structure. What could be done?

>

For any old situation you can loop through the values, for example...

x = 5 & for i = 0, 10 do begin & x >= i & print, i, x & endfor

- 0 5
- 1 5
- 2 5
- 3 5
- 4 5
- 5 5
- 6 6

```
7 7
8 8
9 9
10 10
```

In your case you would do something like the following...

```
composite = image1 for i = 0, nImages-1 do composite = composite > imagei (or composite >= imagei)
```

Ben

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:
```

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>

- > 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]
```

END

ENDFOR

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

paulv

Subject: Re: Composition structure Posted by jcesq on Sun, 03 Oct 2004 21:57:05 GMT View Forum Message <> Reply to Message

Thanks for all suggestions! I'm going to use Kuyper procedure (the simplest), once my image have always the same size:

Composite = Image1

Then, for each additional image:

Composite = Composite > ImageN

Best Regards for all...
Jeferson

Paul Van Delst <paul.vandelst@noaa.gov> wrote in message news:<cjkboj\$ls7\$1@news.nems.noaa.gov>...

- > Jeferson E. wrote:
- >> Hello there!

>>

- >> Assuming I have 5 images and I want to get the maximum value
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> 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
```