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Subject: Re: registering images, shift(/nowrap)  
Posted by [David Fanning](#) on Mon, 11 Nov 2002 14:18:13 GMT  
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Ronn Kling (ronn@rlkling.com) writes:

> I was wondering if anyone has a routine out there that allows you to shift  
> an array without wrapping? The shift routine works great but anything that  
> gets pushed off on one edge gets wrapped around to the other. I just want to  
> throw this wrapped part away. A simple 1D example is  
>  
> in = [1,2,3,4,5]  
> print, shift(in,2)  
> IDL> 4,5,1,2,3  
>  
> what I want is  
>  
> print, shiftNoWrap(in,2)  
> IDL> 0,0,1,2,3  
>  
> Of course, it really needs to work on a 2D image....

I should think something like this would work:

```
FUNCTION ZEROSHIFT, image, n1, n2
if n_elements(image) eq 0 then image = dist(30)
s = size(image, /dimensions)
if n_elements(n1) eq 0 then n1 = s[0]/2
if n_elements(n2) eq 0 then n2 = s[0]/2
retvalue = shift(image, n1, n2)
retvalue[0:n1-1, *] = 0
retvalue[* , 0:n2-1] = 0
RETURN, retvalue
END
```

Cheers,

David

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Subject: Re: registering images, shift(/nowrap)  
Posted by [David Fanning](#) on Mon, 11 Nov 2002 14:25:09 GMT  
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David Fanning (david@dfanning.com) writes:

> I should think something like this would work:

Well, \*something\* like that. More like this, I guess. :-)

```
FUNCTION ZEROSHIFT, image, n1, n2
if n_elements(image) eq 0 then image = dist(30)
s = size(image, /dimensions)
if n_elements(n1) eq 0 then n1 = s[0]/2
if n_elements(n2) eq 0 then n2 = 0
retvalue = shift(image, n1, n2)
retvalue[0:(0 > (n1-1) < (s[0]-1)), *] = 0
retvalue[* , 0:(0 > (n2-1) < (s[1]-1))] = 0
RETURN, retvalue
END
```

Cheers,

David

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