
Subject: Re: help with idl

Posted by [Helder Marchetto](#) on Thu, 07 Feb 2013 14:28:45 GMT

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On Thursday, February 7, 2013 3:26:46 PM UTC+1, Helder wrote:

> On Thursday, February 7, 2013 3:13:36 PM UTC+1, fd_...@mail.com wrote:

>

>> Does anyone know how to create a Toeplitz matrix in idl??

>

>>

>

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>>

>

>> Best Wishes

>

>>

>

>> Mar

>

>

>

> Well, I'm not sure that this is what you are looking for and I don't think that this is the the "IDL" way, however it does the job:

>

>

>

> IDL> n = 5

>

> IDL> a = make_array(n,n)

>

> IDL> OneLine = findgen(2*n)

>

> IDL> FOR l=0,n-1 DO a[*,l] = (shift(OneLine,l))[0:4]

>

> IDL> print, a

>

> 0.000000 1.00000 2.00000 3.00000 4.00000

>

> 8.00000 0.000000 1.00000 2.00000 3.00000

>

> 7.00000 8.00000 0.000000 1.00000 2.00000

>

> 6.00000 7.00000 8.00000 0.000000 1.00000

>

> 5.00000 6.00000 7.00000 8.00000 0.000000

>

>
>
> Hope it helps.
>
>
>
> Cheers,
>
> h

Oh, yeah, to define the general elements you should edit the definition of OneLine. For instance you could try with:

OneLine = [0.0,1,2,3,4,8,7,6,5]

Cheers,
H
