
Subject: Re: help with idl

Posted by [Helder Marchetto](#) on Thu, 07 Feb 2013 14:26:46 GMT

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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??

>

>

>

> 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
