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Subject: Re: Another simple one

Posted by [snudge42](#) on Thu, 09 Aug 2007 04:43:48 GMT

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On Jul 31, 2:19 am, "Jean H." <jghas...@DELTHIS.ucalgary.ANDTHIS.ca> wrote:

>> Is that possible? Or does my array have to be square so have to

>> truncate the whole thing at element 4 for example?

>

>> Cheers,

>

>> Snudge42

>

> Hi,

>

> You can also use a 1D array containing all of your data... then you

> should know which entries correspond to which line...

>

> ex: a = [1,2,3,4,5,6]

>

> you can think of A as

> 1,2,3

> ,4,5

> , ,6

>

> So, but this starts to be useful with big arrays, you can have a 2D

> array that indexes the 1D array...

>

> ex:

> indices2Dto1D = [[0,1,2],[-1,3,4],[-1,-1,5]]

> print, "value of 2,2 = ", a[indices2Dto1D[2,2]] ==> 6

> and

> indices1Dto2D = [0,1,2,4,5,8]

> print, "2D coords of the value 6 = ", indices1Dto2D[where(a eq 6)] ==>

> 8 (this is the 1D coordinate in the 2D array... you can transform it

> back to 2,2)

>

> Jean

> PS: I use this all the time to keep satellite images covering a study

> area having a crazy shape... I save about 75% of the otherwise required

> memory! ... I have to keep only 1 array covering the entire area, and

> all the other arrays cover only the study area!

Lots to think about there, thanks everyone. =)

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