
Subject: repeating elements of an array

Posted by [Cleo Drakos](#) on Sun, 24 Aug 2014 16:42:53 GMT

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Hi guys

First I want to arrange two values (-50 and 40) in the range of 10, so that I get the following array:

```
a = [-50 -40 -30 -20 -10  0 10 20 30 40]
```

Now, I want to repeat each element of array 5 times so that I can get the following result:

```
ans1 = [-50 -50 -50 -50 -50 -40 -40 ....40]
```

I also want to repeat the whole array 5 times to get the following result:

```
ans2 = [-50 -40 -30 -20 -10  0 10 20 30 40 -50 -40 -30 -20 -10  0 10 20 30 40 -50 -40 -30  
-20 -10  0 10 20 30 40 -50 -40 -30 -20 -10  0 10 20 30 40 -50 -40 -30 -20 -10  0 10 20 30  
40 .....]
```

How can I do it? I hope someone can help me.

cleo

Subject: Re: repeating elements of an array

Posted by [dg86](#) on Sun, 24 Aug 2014 20:09:17 GMT

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On Sunday, August 24, 2014 12:42:53 PM UTC-4, Cleo Drakos wrote:

> Hi guys

>

>

>

> First I want to arrange two values (-50 and 40) in the range of 10, so that I get the following array:

>

>

>

> a = [-50 -40 -30 -20 -10 0 10 20 30 40]

>

> Now, I want to repeat each element of array 5 times so that I can get the following result:

>

>

>

> ans1 = [-50 -50 -50 -50 -50 -40 -4040]

>

>

>

```
> I also want to repeat the whole array 5 times to get the following result:
>
>
>
> ans2 = [-50 -40 -30 -20 -10  0 10 20 30 40 -50 -40 -30 -20 -10  0 10 20 30 40 -50 -40 -30
-20 -10  0 10 20 30 40 -50 -40 -30 -20 -10  0 10 20 30 40 -50 -40 -30 -20 -10  0 10 20 30
40 .....]
>
>
>
> How can I do it? I hope someone can help me.
>
>
>
> cleo
```

It sounds like I might be doing your homework, but ...

```
a = [-50:40:10]
```

```
ncopies = 5
nelements = n_elements(a)
npts = ncopies*nelements
```

```
ans1 = rebin(a, npts, /sample)
```

```
; build up answer by concatenation
ans2 = []
for i = 1, ncopies do ans2 =[ans2, a]
```

```
; or else build up answer by copying
ans2 = intarr(npts)
for i = 0, npts-1, nelements do ans2[i] = a
```

TTFN,

David

Subject: Re: repeating elements of an array
Posted by [Phillip Bitzer](#) on Sun, 24 Aug 2014 20:13:16 GMT
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First, the original array:

```
IDL> a = findgen(10)*10-50
```

Now, repeat each element of the array:

```
IDL> aRepeat= rebin(a, 50, /sample)
```

Replicating the array is a little more involved, but still pretty straightforward:

```
IDL> aReplicate = reform(a#replicate(1., 5), 50)
```

Fun with reform and rebin!
