
Subject: Re: Random Sampling Without Replacement
Posted by [Michael Galloy](#) on Wed, 13 Oct 2010 16:01:26 GMT
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On 10/13/10 9:46 AM, David Fanning wrote:

> Has anyone coded up an IDL algorithm to do random
> sampling without replacement?
>
> For example, suppose I want to sample values in
> my 2D image. I want, say, 100 values that represent
> individual pixel locations in the image. How can
> I make sure I get 100 unique, but random, locations?

To randomly sample m elements from n elements, I have used this albeit inefficient technique:

```
m = 3  
n = 100  
im = findgen(n) ; input array  
arr = randomu(seed, n)  
ind = sort(arr)  
print, im[ind[0:m-1]] ; m random elements from im
```

Mike

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