
Subject: Re: Randomize array order

Posted by [Vince Hradil](#) on Thu, 26 Jul 2007 20:32:39 GMT

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On Jul 26, 11:57 am, David Streutker <dstreut...@gmail.com> wrote:

> How about a Knuth shuffle?

>

> (Disclaimer: I'm not a statistician; I just found it on Wikipedia.)

>

> function kunsort, array

> na = n_elements(array)

> random = randomu(seed,na) * (na - array - 1) + array

> for i=0L,na-2 do array[i] = array[random[i]]

> return, array

> end

>

> Added to Vince's code (last column):

>

> 0 100000 0.0619998 0.0780001 0.0320001

> 1 166810 0.125000 0.125000 0.0780001

> 2 278256 0.282000 0.218000 0.141000

> 3 464158 0.547000 0.406000 0.235000

> 4 774263 1.07800 0.657000 0.390000

> 5 1291549 1.93700 1.09400 0.703000

> 6 2154435 3.51500 1.89100 1.20300

> 7 3593812 6.34400 3.11000 1.98400

> 8 5994841 11.5470 5.21800 3.36000

> 9 10000000 20.3750 8.67200 5.60900

>

> Windows XP, dual 2.66 GHz, 3 GB RAM, IDL 6.3

I'm not sure, but I think that will give you "with replacement".
