
Subject: Poisson noise generator
Posted by [murtagh](#) on Thu, 30 Jul 1992 14:13:27 GMT
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Hi IDLers,

I am looking for a Poisson noise generator that takes a 1D or 2D array as input and returns a noisified version of it according to the Poisson distribution. (The input is taken as defining the mean at every pixel.)

I am surely not the first one to consider this problem. Is there a ready-to-use IDL-routine out there that I could pull over?

If I get more than one reply, I'll summarize.

Since I am not regularly reading this bulletin board I would appreciate answers to be mailed to adorf@eso.org on the Internet.

Thanks.

Hans-Martin Adorf
Space Telescope - European Coordinating Facility
Garching, FRG

Subject: Re: Poisson Noise
Posted by [wlandsman](#) on Sat, 12 Mar 2011 01:29:36 GMT
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I think poidev.pro (<http://idlastro.gsfc.nasa.gov/ftp/pro/math/poidev.pro>) will work.

IDL> imnoise = POIDEV(im)

One could also do this using a combination of the /POISSON keyword to randomn and the /reverse_indices keyword to HISTOGRAM. --Wayne
