Subject: Re: How to create white noise in IDL?
Posted by Craig Markwardt on Sat, 16 Apr 2016 22:21:08 GMT

On Saturday, April 16, 2016 at 5:51:32 AM UTC-4, Meegle_Jade wrote:
> How to create white noise image in IDL? I have heard about RANDOMN and RANDOMU but do they create white noise?

Typically, white noise is the same as Gaussian deviate noise (RANDOMN). The "whiteness" refers to the power spectrum of the data.

RANDOMU provides uniform deviates. While this *also* will produce noise with a white spectrum, it is not typical. And RANDOMU deviates have a DC bias. The deviates are between 0 and 1 which means the average is 0.5, and this will show up as a non-white DC frequency component.

So for a 100x200 image use RANDOMN(SEED,100,200).

Craig