
Subject: Re: How to create synthetic images of stars with gaussian psf in IDL.

Posted by [Sonu Tabitha](#) on Tue, 05 Apr 2016 04:15:18 GMT

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On Monday, April 4, 2016 at 11:13:35 PM UTC+5:30, Michael Galloy wrote:

> On 4/4/16 9:01 AM, Sonu Tabitha wrote:

>> On Monday, April 4, 2016 at 1:13:27 PM UTC+5:30, Sonu Tabitha wrote:

>>> I want to create a synthetic image to resemble a stellar field

>>> (say covering an area of 255 by 255 pixels, with a total of about 4

>>> stars having Gaussian PSF). The rest of the image has to be filled

>>> with constant background and noise, as present in the entire image,

>>> but devoid of stars. I want to create this to test a source

>>> extraction algorithm that I have developed. I am a beginner in IDL.

>>> Can you please help me out in coding?

>>

>> Is there any way to do it with FLTARR?

>

> FLTARR just makes an array of floats (by default 0.0's) of a given size.

> You might use it, but that will be the least of your worries.

>

> Mike

> --

> Michael Galloy

> www.michaelgalloy.com

> Modern IDL: A Guide to IDL Programming (<http://modernidl.idldev.com>)

I used PSF_gaussian to generate a star with gaussian profile. But while plotting what I am obtaining is a graph. Doesn't look like a star. Infact i need to create a closed object (circular or elliptical) to represent stars. Can you please tell em how to do it?
