
Subject: Help: Plotting 3d data as 2d intensity map or histogram

Posted by [gianguido](#) on Fri, 22 Oct 2004 03:07:14 GMT

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Hi everyone,

here's my problem:

I have an $3 \times N$ array. the 3 cols represent r, t and $F(r, t)$. I don't know what the function F is I just have some noisy data to fill the matrix.

I would like to compute a 2d image where the intensity of each pixel is proportional to the average value of $F(r, t)$ and where the coordinates of the pixel in question is related to the value of r and t .

I have two further points:

- 1) r and t are continuous so I would like to create bins along the axes
- 2) within a given bin (or a given r and t range) $F(r, t)$ can have different values, so I need to compute the average of F over the bin.

I thought `hist_2d` could do it but that is not what I need... any help or suggestions? I have no idea about how to go about coding...

Many thanks for any help you can give!

Gianguido

PS: this group seems more active than the "plain" lang.idl. what is the difference between idl and idl-pvwave?
