
Subject: Re: 2-D Density Plots

Posted by [Mark Hadfield](#) on Tue, 14 Jan 2003 00:46:41 GMT

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"Justin Sieglaff" <justins@ssec.wisc.edu> wrote in message
news:9bc4f51c.0301131508.73b9098d@posting.google.com...

> I was wondering if anyone knows of a simple way to create 2-d density
> plots? Any help would be great!

What do you mean by "2D density plot". Do you mean a plot that displays 2D
numeric data as a 2D array of cells, with the colour of each cell
representing the corresponding numeric value via a number->color mapping?

Plots like these tend to be loosely called "image plots" in the IDL
community. Matlab refers to them as pseudo-color plots. In the Mathematica
documentation they're referred to as density plots. And this is the term
that I have tended to use.

There is a lot of IDL software out there to plot density plots (in this
sense)

Have a look at David Fanning's XIMAGE at

<http://www.dfanning.com/>

Craig Markwardt's PLOTIMAGE at

<http://astrog.physics.wisc.edu/~craigm/idl/idl.html>

Liam Gumley's IMDISP at

http://www.gumley.com/PIP/Free_Software.html

I have tried several ways of implementing density plots in object graphics
in my Motley IDL library:

<ftp://ftp.niwa.co.nz/incoming/m.hadfield/idl/README.html>

See the MGH_Density class & the MGH_EXAMPLE_DENSITY example program.

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Mark Hadfield "Ka puwaha te tai nei, Hoea tatou"

m.hadfield@niwa.co.nz

National Institute for Water and Atmospheric Research (NIWA)

Subject: Re: 2-D Density Plots

Hi Justin,

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I wrote this really cool, fast routine to do this (by mapping byte values
from two images into the upper and lower half of a short integer) then
discovered HIST_2D which does the same:-)

Cheers,

Dave

--

David Burridge
Burrige Computing, 18 The Green South
Warborough, Oxon, OX10 7DN
England
Tel: +44 (0) 1865 858279, Email: davidb@burridgecomputing.co.uk

Outgoing mail is certified Virus Free.
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Version: 6.0.404 / Virus Database: 228 - Release Date: 15/10/2002
