
Subject: Histogram looks like spiky bars

Posted by rpertaub@gmail.com on Fri, 16 Mar 2007 15:14:32 GMT

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Hi,

I have an image for which I want to make a histogram. I just do plot, histogram(image) with xrange being my 14 bit image size (~16000).

ANYway, what I get is a bunch of vertical lines of different lengths.

I want a smooth curve, not discrete lines.

How do i do that?

thanks!!

Subject: Re: Histogram looks like spiky bars

Posted by [Sven Geier](#) on Tue, 20 Mar 2007 05:35:18 GMT

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rpertaub@gmail.com wrote:

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At the risk of asking something stupid:

Are you sure that all the possible values actually occur in your image? I'm asking because I once had a funky image that I didn't understand the histogram of at all - until I realized that in the processing there was a step where floats got truncated to integers and in that step I was losing all non-integer values and in the end the values I was histogramming over were integer multiples of some certain scaling factor (and the histogram plotted thin spikes for those values and zeros for any other number).

Just an idea...

- S

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<http://www.sgeier.net>

My real email address does not contain any "Z"s.

Subject: Re: Histogram looks like spiky bars

Posted by [MarioIncandenza](#) on Tue, 20 Mar 2007 19:27:13 GMT

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On Mar 16, 8:14 am, "rpert...@gmail.com" <rpert...@gmail.com> wrote:

> Hi,
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> histogram(image) with xrange being my 14 bit image size (~16000).
> ANYway, what I get is a bunch of vertical lines of different lengths.
> I want a smooth curve, not discrete lines.
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> thanks!!

There are two routines out there called HIST_PLOT. One is from Liam Gumley and can be found at http://www.cis.rit.edu/~dwmpci/HTML_DOC/plotting_help.html (also see his extensive bag o' tricks at <http://cimss.ssec.wisc.edu/~gumley/>).

The other is from Gelu Nita and can be found here:

[http://achilles.nascom.nasa.gov/~zarro/php/ssw_print.php?file=\\$SSW/radio/ovsa/idl/util/hist_plot.pro](http://achilles.nascom.nasa.gov/~zarro/php/ssw_print.php?file=$SSW/radio/ovsa/idl/util/hist_plot.pro).

I use the Gumley routine, though over the years I have modified it almost into unrecognizability. But if you're just getting into this problem, try them both see which you like better, both are very simple routines.

Good luck!
