Subject: Re: Histogram Hot-shots Required
Posted by Liam Gumley on Fri, 16 Jul 1999 07:00:00 GMT

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David Fanning wrote:
> What I can't figure out tonight is how to find out
> what bin that pixel is in, given that I know the pixel
> value. (Even as I write this sentence I have the sense
> that this is a trivial exercise, but I'm afraid it is
> not yielding the shear number of hours I have spent
> on it. At least not for me.)

Assuming I know the minimum and maximum values (the range) used in
creating the histogram, the histogram binsize, and the number of bins,
the zero-based bin index is given by

bin_index = long(float(pixel_value - histogram_min_value) /
float(binsize))

and then to protect against pixel values LT histogram minimum value, or
GE histogram maximum value

bin_index = (bin_index > 0L) < (number_of_bins - 1L)

At least, that's how it looks to me on paper....

Cheers,
Liam.

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