
Subject: Re: Stretching an image

Posted by [Liam Gumley](#) on Fri, 10 Dec 2004 18:41:09 GMT

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David Fanning wrote:

> Liam Gumley writes:

>

>

>> I believe ENVI uses what is known as histogram clipping, as a way to
>> remove outlier values from the stretch range. I describe an
>> implementation of histogram clipping in Chapter 7 of my book. Here is
>> the code from the book (imclip.pro):

>>

>> ;---start of imclip.pro---

>> FUNCTION IMCLIP, IMAGE, PERCENT=PERCENT

>>

>> ;- Check arguments

>> if (n_params() ne 1) then \$

>> message, 'Usage: RESULT = IMCLIP(IMAGE)'

>> if (n_elements(image) eq 0) then \$

>> message, 'Argument IMAGE is undefined'

>>

>> ;- Check keywords

>> if (n_elements(percent) eq 0) then percent = 2.0

>>

>> ;- Get image minimum and maximum

>> min_value = min(image, max=max_value)

>>

>> ;- Compute histogram

>> nbins = 100

>> binsize = float(max_value - min_value) / float(nbins)

>> hist = histogram(float(image), binsize=binsize)

>> bins = lindgen(nbins + 1) * binsize + min_value

>

>

> Liam, why 100 bins? I would have thought the minimum
> number would be 256, to correspond with a possible byte
> image. Or is 100 just a nice round number that gives
> reasonable results?

>

> Cheers,

>

> David

A nice round number that gives reasonable results.
