
Subject: Re: Stretching an image

Posted by [David Fanning](#) on Fri, 10 Dec 2004 16:33:08 GMT

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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

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
