Subject: Re: Box-Whisker plots in IDL
Posted by teich on Mon, 20 Aug 2007 21:03:52 GMT
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On Aug 20, 4:56 pm, David Fanning <n...@dfanning.com> wrote:
> te...@atmsci.msrc.sunysb.edu writes:
>> Hi, Suppose data is something simple like:
>
>> data=[2,3,5,7,7,10,11,11,12,15,16,17,17]
>
>> I get a 75th quartile of 11.0. Shouldn't I get around 15?
>
> JD will have to explain the difference between BINSIZE
> and NBINS to us again. (And I think he is in China for
> a couple of weeks.) But I got strange results with my
> HISTOGRAM method, too. Here is a slightly revised program:
>
>   data=[2,3,5,7,7,10,11,11,12,15,16,17,17]
>   ;box plot needs min, max, median which are straight forward:
>
>   minVal = min(data)
>   maxVal = max(data)
>   medianVal = median(data,/even)
>
>   ; Find the quartiles.
>   h = Histogram(data, NBINS=4, REVERSE_INDICES=ri, $
>   MIN=minVal, MAX=maxVal)
>   qtr_25th = Median(data[ri[ri[0]:ri[2]-1]])
>   qtr_75th = Median(data[ri[ri[2]:ri[4]-1]])
>
>   Print, minVal, maxVal, medianVal, qtr_25th, qtr_75th
>   END
>
> And the result I get with the new data:
>
>   2   17   11.0000   7.00000   16.0000
>
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:http://www.dfanning.com/
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Thanks,

I think I will go with yours!

Howie