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Subject: Re: cghistoplot: getting histdata values without any plotting?

Posted by [timmyb89](#) on Tue, 19 Feb 2013 04:01:57 GMT

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After posting this I realised it would be easiest to just write my own function, so all good now. Are their different approaches people take to this problem?

On Tuesday, February 19, 2013 2:01:15 PM UTC+11, Tim B wrote:

> Hi everyone,

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> I'm using cghistoplot to make a histogram with three data sets (arrays).

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> One problem is I'm not sure which of the sets will have the largest (tallest) histogram. That is, if I plot one set, then overplot the remaining two sets, some of the overplotted histograms might exceed the maximum y range calculated by plotting the first set.

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> What I would like to be able to do is call cghistoplot for each data set, but without any plotting or anything taking place, solely to to retrieve the histdata keyword. I could then find the maximum y value of all of the histograms and use this to construct the final histogram.

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> It would go something like this (ignoring binsize and mininput keywords etc.):

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> cghistoplot,a,histdata=data1

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> cghistoplot,b,histdata=data2

>

> cghistoplot,c,histdata=data3

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>

>

> ymax=max([data1,data2,data3])

>

>

>

> cghistoplot,a,yrange=[0,ymax]

>

> cghistoplot,b,/oplot

>

> cghistoplot,c,/oplot

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> Although in the first 3 cghistoplot calls I don't want it to do any plotting, I only need to retrieve the histdata values. Is there a clever way to do this or am I missing something? I've tried using the /nodata keyword but it doesn't help. I'm stuck wanting to do a multiplot of overplotted histograms (looping through different bin sizes etc.).

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> Thanks, Tim

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