Subject: Re: Histrogram plot in IDL using cgHistoplot
Posted by Jeremy Bailin on Tue, 14 Jun 2011 20:26:16 GMT
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I would use value_locate to bin the data into your unequal bins, and then use judicious use of xticks, xtickv and xtickname to get the labels right. Something like this:

```
; Create some data that has the correct distribution. Presumably
; you don't need to do this since you already have your data!
data = [randomu(seed,11)*3, 3+randomu(seed, 16)*3, 6+randomu(seed, 5)*4, $
  10+randomu(seed,3)*10, 20+randomu(seed,4)*20, 40+randomu(seed,2)*20]

; Specify where the bin edges are
bin_edges = [0,3,6,10,20,40,60]
nbins = n_elements(bin_edges)-1

; Map your data onto the bins, so values between 0 and 3 become "0",
; values between 3 and 6 become "1", etc.
data_bins = value_locate(bin_edges, data)

; Create an array with each bin edge duplicated for labelling
labelnums = rebin(1 # bin_edges, 2, nbins+1, /sample)
; And create the label strings
labels = string(labelnums[1:2*nbins], format='(%"%0d - %0d")')

; Finally create the histogram
cghistoplot, data_bins, xrange=[0,nbins], xticks=nbins-1, $
  xtickv=0.5+indgen(nbins), xtickname=labels
```

-Jeremy.

Subject: Re: Histrogram plot in IDL using cgHistoplot
Posted by Sasha Singh on Wed, 15 Jun 2011 14:05:52 GMT
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On Jun 14, 4:26 pm, Jeremy Bailin <astroco...@gmail.com> wrote:
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>    xtickv=0.5+indgen(nbins), xtickname=labels
>
>  -Jeremy.
```

Thank you. It works like a charm. The plot looks awesome :)

Sasha.
