
Subject: Re: Calculating cumulative probability using cgHistoPlot
Posted by [David Fanning](#) on Tue, 08 Nov 2011 19:05:13 GMT
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Xin Tao writes:

> I'm using cghistoplot, and I'm confused by the cumulative probability
> calculated by cghistoplot. I'm wondering whether any one can give me
> some help here.
>
> Suppose we have histdata like this: [2, 0, 0, 3, 5, 4], then if
> we use the way of cghistoplot to calculate the cumulative probability
> like this:
>
> cumTotal = Total(histData, /CUMULATIVE) ;; gives us
> [2.00000, 2.00000, 2.00000, 5.00000, 10.0000,
> 14.0000]
> probability = Scale_Vector(cumTotal, 0, 1) ;; gives us
> probability = [0.00000 0.00000 0.00000 0.250000
> 0.666667 1.00000]
>
> This is kind of counter-intuitive to me, because the first value of
> histdata is clearly 2, but the probability is 0 until the 4th value.
> However, I'm not experienced in data analysis, and I might have
> misunderstood something about "cumulative probability" here.
>
> It seems to be more natural to me to define the cumulative probability
> in the following way:
>
> probability = total(double(hist)/total(double(hist)), /cumula)
>
> Am I right?

Probably. I was cribbing some notes from an R class that
I didn't do all that well in. :-(

I'll look into it. :-)

Cheers,

David

--

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Sepore ma de ni thui. ("Perhaps thou speakest truth.")
