
Subject: dual histogram stumper

Posted by [paul wisehart](#) on Mon, 16 Dec 2002 22:13:26 GMT

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Hi<

I have 2 histograms ... A and B

A=histogram(a) B=histogram(b)

they have same xrange, but different yrange.

I have the ratio of the $n_elements(a)/n_elements(b)$

NOW, I want to plot them on top of each other so they are normalized.

AND, the left y-axis shows A's range,
the right axis shows B's range.

I can achieve most of the objectives if I :

(1) plot A

(2) normalize B

(3) oplot B

the problem is this leaves out B's y-axis.

instead of normalizing B , I want to normalize B's plot.

possible??

paul wisehart

wisehart@runbox.com

Subject: Re: dual histogram stumper

Posted by [Rick Towler](#) on Wed, 18 Dec 2002 04:07:38 GMT

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"Surendar Jeyadev" <jeyadev@wrc.xerox.bounceback.com> wrote

> David,

>

> Just a nudge to your memory. Still waiting for the answer to my question.

> What does the REVERSE keyword to the HISTOGRAM call do in IDL? Us poor

> folks stuck with Wave cannot use that excellent procedure you posted

> re set intersections as it is :-(

>

There isn't an up to date FAQ for the group but David's site is the next

best thing. It is best to bookmark David's site and check there before posting since the answer can usually be found within his helpful pages. There is so much goodness there even he forgets some of it (but that may be due to age ;)

http://www.dfanning.com/tips/histogram_tutorial.html

-Rick

Subject: Re: dual histogram stumper
Posted by [David Fanning](#) on Wed, 18 Dec 2002 06:14:04 GMT
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Rick Towler (rtowler@u.washington.edu) writes:

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> best thing. It is best to bookmark David's site and check there before
> posting since the answer can usually be found within his helpful pages.
> There is so much goodness there even he forgets some of it (but that may be
> due to age ;)
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> http://www.dfanning.com/tips/histogram_tutorial.html

Now hold on there. This is suppose to be the season of light, but this week the doctor ordered me not to play tennis (or ski) for a month to allow a wrist injury to heal, and now I'm accused of getting old. I don't see much light in that. :-(

(Not to mention my friend, Diego, is back in town for the holidays, ready to resume our epic battle, which--when we left off last time--had him in the lead 21 sets to 20, with Diego winning the decisive set 18-16 in a third set tie-breaker on an offensive lob, for goodness sake. Oh, woe is me! I still have nightmares of that ball floating gently over my head.)

Anyway, I wasn't ignoring Surendar's question. Just waiting for JD to step in to explain it before I made a mess of it. Briefly, the REVERSE_INDICES keyword is the way to get back the pixel indices of the pixels in each bin. Sort of like the WHERE function, although much, MUCH faster. In fact, REVERSE_INDICES contains the magic in much of the HISTOGRAM command.

And Rick is right, if you really want to understand the details, the only place to do so is JD's fabulous (and famous) Histogram Tutorial.

http://www.dfanning.com/tips/histogram_tutorial.html

If you really can't find such a thing in the PV-Wave version of HISTOGRAM, then this really is going to be a Bah Humbug kind of a year. :-(

Cheers,

David

--

David W. Fanning, Ph.D.
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Phone: 970-221-0438, E-mail: david@dfanning.com
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: dual histogram stumper
Posted by [Rick Towler](#) on Wed, 18 Dec 2002 19:55:35 GMT
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"David Fanning" <david@dfanning.com> wrote

> Rick Towler (rtowler@u.washington.edu) writes:
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> Now hold on there. This is suppose to be the season
> of light, but this week the doctor ordered me not to
> play tennis (or ski) for a month to allow a wrist injury
> to heal, and now I'm accused of getting old. I don't see
> much light in that. :-(

You are right.

Anyway, from those pictures I saw from the last IDL EPA meeting you sure don't *act* old. :)

-Rick

Subject: Re: dual histogram stumper
Posted by [jeyadev](#) on Wed, 18 Dec 2002 22:00:14 GMT
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In article <MPG.1869c016ee279e93989a78@news.frii.com>,
David Fanning <david@dfanning.com> wrote:
> Rick Towler (rtowler@u.washington.edu) writes:
>
>> There isn't an up to date FAQ for the group but David's site is the next
>> best thing. It is best to bookmark David's site and check there before
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>> There is so much goodness there even he forgets some of it (but that may be
>> due to age ;)
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>> http://www.dfanning.com/tips/histogram_tutorial.html

Thanks. I did try to look up the manuals for IDL at the RSI site,
but I could not find them. That was the first port of call. Then,
I went back to David's book (yeah, verily, I have it!), but did
not find the answer. Then I decided to fire an email to David.
There was no reply and hence the reason for going public.

> Anyway, I wasn't ignoring Surendar's question. Just waiting
> for JD to step in to explain it before I made a mess of it.
> Briefly, the REVERSE_INDICES keyword is the way to get back the
> pixel indices of the pixels in each bin. Sort of like the WHERE
> function, although much, MUCH faster. In fact, REVERSE_INDICES
> contains the magic in much of the HISTOGRAM command.

Thanks.

> And Rick is right, if you really want to understand the
> details, the only place to do so is JD's fabulous (and
> famous) Histogram Tutorial.
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> http://www.dfanning.com/tips/histogram_tutorial.html
>
> If you really can't find such a thing in the PV-Wave version
> of HISTOGRAM, then this really is going to be a Bah Humbug
> kind of a year. :-(

And thanks, again. I guess I should now look up the sites
for not just the quirky bits and for the nooks and crannies
of the features, but for straightforward documentation as
well!

--

Surendar Jeyadev jeyadev@wrc.xerox.bounceback.com

Remove 'bounceback' for email address

Subject: Re: dual histogram stumper

Posted by [David Fanning](#) on Thu, 19 Dec 2002 00:45:49 GMT

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Rick Towler (rtowler@u.washington.edu) writes:

> Anyway, from those pictures I saw from the last IDL EPA meeting you sure
> don't *act* old. :)

Now, wait a minute, she *said* she was eig... Oh, never mind. :-(

Cheers,

David

--

David W. Fanning, Ph.D.

Fanning Software Consulting, Inc.

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