
Subject: Re: dumb q: waterfall

Posted by [davidf](#) on Mon, 26 Oct 1998 08:00:00 GMT

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Nancy R. Galbraith (ngalbraith@whoi.edu) writes:

> Sorry, I can't find this in the manual. I need to make a "waterfall
> plot" in which the y axis applies to the first bin of data in a 2d
> time series, and the subsequent bins are offset from the first. Its
> pretty simple in a lot of plotting pkgs, but I can't see the right
> way to do it in idl. Any advice would be greatly appreciated.

I guess there are many ways to do this, but here is
a short example that I modified a bit to make it look
like your little drawing. I hope it will be enough
to give you the idea anyway.

Cheers,

David

PRO Waterfall

; Create the data.

```
seed = 1L
data = FltArr(101, 6)
FOR count = 0, 5 DO BEGIN
    row = RandomU(seed, 101)
    FOR j=0,4 DO row = Smooth(row, 3)
    data[* , count] = row * 30
ENDFOR
```

; Display window

Window, XSize=300, YSize=500

; Draw the plots.

```
Plot, data[* ,0], XStyle=8, YStyle=4, XTitle='Time', $
    Position=[0.1, 0.1, 0.9, 0.2], YRange=[0,30]
Plot, data[* ,1], XStyle=4, YStyle=4, YRange=[0,30], $
    Position=[0.1, 0.2, 0.9, 0.3], /NoErase
Plot, data[* ,2], XStyle=4, YStyle=4, YRange=[0,30], $
    Position=[0.1, 0.3, 0.9, 0.4], /NoErase
Plot, data[* ,3], XStyle=4, YStyle=4, YRange=[0,30], $
    Position=[0.1, 0.4, 0.9, 0.5], /NoErase
```

```
Plot, data[*],4, XStyle=4, YStyle=4, YRange=[0,30], $  
  Position=[0.1, 0.5, 0.9, 0.6], /NoErase  
Plot, data[*],5, XStyle=4, YStyle=4, YRange=[0,30], $  
  Position=[0.1, 0.6, 0.9, 0.7], /NoErase  
Plot, data[*],5, XStyle=4, YStyle=4, YRange=[0,30], $  
  Position=[0.1, 0.7, 0.9, 0.8], /NoErase  
Plot, data[*],5, XStyle=4, YStyle=8, YRange=[0,30], $  
  Position=[0.1, 0.8, 0.9, 0.9], /NoErase  
Axis, XAxis=1  
END
```

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