
Subject: Re: dumb q: waterfall

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

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David Fanning wrote:

> 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.

> David

David has a good idea to start, but it turns out that the SURFACE routine actually makes this type of plot VERY simple. Here's David's code hacked to use it.

PRO Waterfall

```
    ; Create the data.
```

```
seed = 1L
data = FltArr(6, 101)
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.
```

```
surface, data, ax=70, az=0, /horizontal, /upper, zaxis=-1
END
```

Phillip
