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Subject: Shading a band of ranges in pwave  
Posted by [John Kennedy](#) on Mon, 22 May 1995 07:00:00 GMT  
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Hi,

Before I spend three or four days trying to work out the following in pwave, I thought I would ask if anybody out there has already done this and could they tell me how to please.

I would like to produce a 2-D graph where one of the plots can vary between certain y-ranges and I would like to show this by shading the relevant areas. An example of the data is as follows:

X-Range	Low Y Value	High Y Value
64 7	10	
128 8	12	
192 9	15	

and so on....

If you know of a method to do this could you possibly email me the answer (as well as posting it) as I am in a bit of a hurry to get this done,

Many thanks

John

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Subject: Re: Shading a band of ranges in pwave  
Posted by [thompson](#) on Sun, 28 May 1995 07:00:00 GMT  
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John Kennedy <[johnk](mailto:johnk)> writes:

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> certain y-ranges and I would like to show this by shading the relevant areas.  
> An example of the data is as follows:

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> If you know of a method to do this could you possibly email me the answer (as  
> well as posting it) as I am in a bit of a hurry to get this done,

The following should work. Suppose that you have the 1-D arrays X,  
YLOW, and YHIGH, which all have the same number of elements. Then, you should  
be able to use the commands

```
XX = [X, REVERSE(X)]  
YY = [YLOW, REVERSE(YHIGH)]  
PLOT, XX, YY, /NODATA  
POLYFILL, XX, YY
```

Good luck,

Bill Thompson

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