
Subject: surface,/horizontal ;inadequate

Posted by [Kristian Kjaer](#) on Fri, 28 Apr 2000 07:00:00 GMT

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I want to draw a surface and plot lines only along x, not along y.
surface,...,/horizontal doesn't quite do what I want:

```
; Sample data to demonstrate the problem:
```

```
x=findgen(41) & y=findgen(256)
```

```
z=1/((1+(x-20)^2/5^2)#(1+(y-20)^2/50^2))
```

```
window,xsize=400,ysize=300
```

```
surface,z,x,y,az=-45 & wait,1
```

```
; Now the screen is all white. This is what I want to avoid.
```

```
surface,z,x,y,/hor,az=-45 & wait,1
```

```
; This is OK, and so is the next view:
```

```
surface,z,x,y,/hor,az=-10 & wait,1
```

```
surface,z,x,y,/hor,az=-7 & wait,1
```

```
; But now the lines are drawn along y, and again the screen is white.
```

```
; Transposing does not help:
```

```
surface,transpose(z),y,x,/hor,az=81 & wait,1
```

```
surface,transpose(z),y,x,/hor,az=45 & wait,1
```

```
; These are OK, but
```

```
surface,transpose(z),y,x,/hor,az=83 & wait,1
```

```
; here the screen is all white.
```

The precise angles where the plot direction goes 'wrong' seem to depend slightly on platform.

(OK, so maybe the az-values are a bit funny in this example, but when I do it 'for real', the problem does get in my way.)

Does anyone see how get lines along x only, or do I need a new feature?

Thanks for any suggestions, Kristian

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