
Subject: Re: draw text parallel to a sloping line
Posted by [kashyap](#) on Sat, 04 Mar 2000 08:00:00 GMT
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It doesn't work because >orientation< in XYOUTS does not know anything about the previous PLOT and the data ranges in the plot. Do the following:

```
X = 24.5259 & Y = 16789.1 & Slope = -1763.03 ; data coordinates
dX=2.2 & plot, [X-dX,X+dX], Y+[-dX,dX]*Slope
;{convert slope from data to device coordinates
DATA_XY=convert_coord(X+DX*[-1,1],Y+DX*SLOPE*[-1,1],/DATA,/T O_DEVICE)
DATA_DY=DATA_XY(1,1)-DATA_XY(1,0) & DATA_DX=DATA_XY(0,1)-DATA_XY(0,0)
O_angle=atan(DATA_DY,DATA_DX)*!radeg
;end changes}
xyouts,X,Y,'A_String_Parallel_To_A_Line',align=0.5,orient=O_angle
```

vinay

In article <38C1644C.FB280C52@risoe.dk>,
Kristian Kjaer <kristian.kjaer@risoe.dk> wrote:
> I want to draw some text parallel to a sloping line, e.g.,
> the line through (X,Y) with a given Slope:
>
> IDL> X = 24.5259 & Y = 16789.1 & Slope = -1763.03 ; data coordinates
> IDL> dX=2.2 & plot, [X-dX,X+dX], Y+[-dX,dX]*Slope
>
> Then this doesn't give the desired result:
>
> IDL> O_angle=atan(Slope)*!radeg
> IDL> xyouts,X,Y,'A_String_Parallel_To_A_Line',\$
> IDL> alignment=0.5,orientation=O_angle
>
> But then, how to do?
> Any help appreciated!

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