
Subject: text inversion when inverting axis
Posted by [Jahvasc](#) on Mon, 26 May 2014 16:39:58 GMT
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Hi, I'm trying to make a plot with decreasing values in the x-direction. No problem with this. The problem arises when I use "text" function to write down an annotation to the plot window. Here, I give a very simple example:

```
a=findgen(10)
b=sqrt(a)
pl=plot(a,b,xrange=[9,0])
tx=text(0.1*max(pl.xrange),0.9*max(pl.yrange),'b=sqrt(a)',/d ata)
```

I get it also inverted! Am I doing something wrong?
Thanks!

Subject: Re: text inversion when inverting axis
Posted by [Matthew Argall](#) on Mon, 26 May 2014 17:08:12 GMT
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My impression is that the text function likes to draw from the minimum value towards maximum value when the DATA keyword is being used. To fix this, you can try changing the orientation of the text. This is what worked for me

```
a=Findgen(10)
b=Sqrt(a)
pl=Plot(a, b, XRANGE=[9,0])
tx=Text(2, 2.5, 'b=sqrt(a)', /DATA, BASELINE=[1,0,0], ORIENTATION=45)
```

Note that the docs say that BASELINE=[1,0,0] is the default. However, the following two lines have different results (for me, on IDL 8.2).

```
tx1=Text(2, 2.5, 'b=sqrt(a)', /DATA, ORIENTATION=45, BASELINE=[1,0,0])
tx2=Text(2, 2.5, 'b=sqrt(a)', /DATA, ORIENTATION=45)
```

Subject: Re: text inversion when inverting axis
Posted by [Jahvasc](#) on Mon, 26 May 2014 17:18:08 GMT
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Yes, since I'm using the same version you are, I also have to use both, baseline and orientation. Thank you very much!

Subject: Re: text inversion when inverting axis
Posted by [Matthew Argall](#) on Mon, 26 May 2014 17:43:52 GMT
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> Note that the docs say that BASELINE=[1,0,0] is the default. However, the following two lines have different results (for me, on IDL 8.2).

>
> tx1=Text(2, 2.5, 'b=sqrt(a)', /DATA, ORIENTATION=45, BASELINE=[1,0,0])

Actually, any orientation between 1 and 89 give me the same results.

Any value of ORIENTATION between 90 and 179 give another fixed orientation

.....180
.....181 and 269
.....270
.....271 and 359

The following line also gives the results you desire, and should be less dependent on the glitchy behavior

tx=text(2, 2.5, 'b=sqrt(a)', /data, ORIENTATION=180, UPDIR=[0,1,0])

Note again, however, that UPDIR=[0,1,0] should be the default. The following two lines give different results, though

tx1=text(2, 2.5, 'b=sqrt(a)', /data, ORIENTATION=180)
tx2=text(2, 2.5, 'b=sqrt(a)', /data, ORIENTATION=180, UPDIR=[0,1,0])
