
Subject: Re: annotated text without using graphics device in IDL?
Posted by [Liam E. Gumley](#) on Wed, 07 May 2003 18:11:23 GMT
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"Howard Taylor" <howard.taylor@jhuapl.edu> wrote in message
news:b9bfce\$b5j\$1@houston.jhuapl.edu...

> I'd like to annotate an image without having to first draw the text on the
> active graphics display and then read the image back. This undesirable
> method might look like:

```
>  
> a=indgen(256,256)  
> tv,a  
> xyouts,100,100,'this text',/device  
> b=tvrd()
```

```
>  
>  
> Instead, I'd like an approach that doesnt rely on the graphics device at  
> all. It might be called in this way:
```

```
>  
> a=findgen(256,256)  
> b = imgtext( a, 100,100,'this text' )
```

```
>  
> As a result, b is an image whose contents have been altered to include the  
> text.
```

```
>  
> Anybody seen this sort of thing for IDL?
```

I don't think you can avoid having some sort of graphics device selected.

However you can use the Z-buffer graphics device which exists only in memory, and does not require a graphics window:

```
ncol = 256  
nrow = 256  
a = dist(ncol, nrow)  
entry_device = !d.name  
set_plot, 'Z'  
device, set_resolution=[ncol, nrow], set_colors=256, z_buffering=0  
tv, bytscl(a)  
xyouts,100,100, 'this text', /device  
b = tvrd()  
set_plot, entry_device
```

Note that the image was byte scaled since the Z-buffer is an 8-bit device. Finally, you might get different character sizes in the Z-buffer compared to a normal graphics window. To make sure the character sizes match, set the character size explicitly in either case using a command like

device, set_character_size=[10, 12] ; width 10 pixels, height 12 pixels

Cheers,

Liam.

Practical IDL Programming

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