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Subject: Re: Annotating a 3-d Image Array?  
Posted by [rivers](#) on Mon, 24 Apr 1995 07:00:00 GMT  
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In article <3ngj12\$3ra@news.mtu.edu>, "Andrew A. Pilant" <anpilant@mtu.edu> writes:

> Hello-

>

> This is probably ultraultra easy, but I am stuck.

>

> Scenario:

> I have a time series of SSM/I images in a single array, e.g.,

> `ssmi=intarr(100,100,20)` (20 days of 100x100 images).

>

> I would like to write the date (e.g., "Sep 21") on each image so that

> when I animate them (via movie or xinteranimate) I know the date

> of the image. I'll concatenate a 20x100 box at the bottom to hold the

> text, so the whole array would be 120x100x20. Ultimately, I'll export

> the annotated images/array in some form amenable to mpeg play or

> similar generic animation software.

>

> In reality, there are hundreds of images, so doing the following in

> command line mode won't be feasible:

> `tv,image`

> `xyouts,x,y,'sep 12',/device`

> `new_i=tvrd()`

The method you reject as unfeasible might work fine if you:

- Use the Z buffer device. TVRD() is much faster than with X
- Set the Z device size to be 20x100, so you only use it to buffer the box used for the string.
- Use IDL's normal array operators to put the new box at the bottom of your images.

Remember to set the Z device to not do Z buffering (DEVICE, /NOZ) which also speeds it up.

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Subject: Re: Annotating a 3-d Image Array?  
Posted by [Greening C M](#) on Wed, 26 Apr 1995 07:00:00 GMT  
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Hi,

You could write a procedure using the DT\_ADD functions to change the date.

e.g

```
PRO annotate, images, date, new_images
; go through each image
for i=0, (size(images))(3)-1 do begin
  tv, image
  ; get a string of the date
  dt_to_str, date, date_string
  ; put the date at position x,y
  xyouts,x,y, date_string, /device
  new_images(*,*,i)=tvrd()
  ; increment the date
  date=dt_add(date, /Day)
endfor
end
```

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