
Subject: Re: Using TV command instead of contour
Posted by [KRDean](#) on Wed, 13 Jul 2011 15:21:35 GMT
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On Jul 12, 4:18 am, Amit <amisra.a...@gmail.com> wrote:

> Dear Friends,
>
> I have a data in form of flags, for example, dust=1,smoke=2 and so on.
> There cannot be numbers in between.
>
> The data is in the form of 2-dimensional array, with each cell
> corresponding to a latitude, longitude pair. I want to display it --
> the output would look something like a chess board. If I use the
> CONTOUR command, it interpolates at the boundaries, producing
> incorrect plots.
> This problem is solved if I use TVIMAGE program. However, I cannot
> pass the latitude,longitude data to the command (like CONTOUR). Can
> anyone suggest me how to use TVIMAGE or TV in a way similar to
> CONTOUR?
>
> Thanks for your help
> Amit

I normally use PLOTS to display index values, like landuse data were
certain numbers represent regions. For exmaple, 10:forest and
40:grass.

Below is an example how I use PLOTS.

Kelly Dean
Milliken, Colorado

```
;+  
;  
;  
;-----
```

PRO IndexPlot

```
file = FILEPATH( 'worldelv.dat', SUBDIRECTORY = ['examples', 'data'])  
image = READ_BINARY(file, DATA_DIMS = [360,360])
```

```
siz = SIZE( image )  
LatArr = REPLICATE( 1.0, siz[1] ) # ( ( LINDGEN( siz[2] ) * 0.5 ) -  
89.5 )  
LngArr = ( LINDGEN( siz[1] ) * 1.0 ) # REPLICATE (1.0, siz[2] )
```

```
west = WHERE( LngArr GT 180.0, cnt )  
IF ( cnt GT 0 ) THEN LngArr[west] = LngArr[west] - 360.0
```

```
; The user defined plotting symbol ( PSYM=8 ) is used by PlotS to  
; add a symbol on the plot. So the IDL routine USERSYM is used to  
; create a filled symbol of a circle.
```

```
A = FINDGEN(17) * (!PI*2/16.)  
USERSYM, COS(A), SIN(A), /FILL
```

```
;image = ROTATE( image,7 )
```

```
DEVICE, decompose=0  
WINDOW, 0, XSIZE=siz[1], YSIZE=siz[2], TITLE='Index Plot'
```

```
LOADCT, 27 ; Assign a color table
```

```
MAP_SET, 0.0, 180.0, 0.0, /Mercator
```

```
PlotS, LngArr, LatArr, COLOR = image, $  
      PSYM = 8, SYMsize = 0.8, /DATA
```

```
MAP_CONTINENTS
```

```
END
```
