
Subject: Re: The plot including another plot
Posted by [Paolo Grigis](#) on Tue, 07 Feb 2006 14:00:24 GMT
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YJP wrote:

```
> HI~ ALL ^^
>
> I want to plot a graph which include another graph.
> Actually, I want to plot a samll part of main graph on
> the marginal region. The small one is just enlarged
> version of the some part of main graph.
>
>
> like this~
> -----
> -               ----- -
> -               y -   - -
> y -             -   - -
> -               ----- -
> -               x   -
> -               -
> -----
>               x
>
> Is there any procedure doing this job?
> Otherwise, How do I approch it?
>
> Thank you~^^
>
> Best Wishes, ***
>
```

Here's an example that works even with !P.Multi NE 0,
slightly modified from the original code which produced
the figure:

<http://www.astro.phys.ethz.ch/staff/pgrigis/private/2265fig1 .eps>

```
.....
;.....;
```

```
xrange=[0,10]
yrange=[0,10]
```

```
N=200
x=findgen(N)/(N-1)*10
y=0.3*exp(x)
```

```
plot,x,y,xrange=xrange,yrange=yrange,psym=-4
```

```
zoomxrange=[2,3];coordinates of zoom region
zoomyrange=[3,4]
```

```
plotxcoord=[5,9];region of the plot where to place the zoomed plot
plotycoord=[5,9];in data coordinates
```

```
oplot, zoomxrange[[0,1,1,0,0]], zoomyrange[[0,0,1,1,0]]
```

```
zoomcoord=convert_coord(zoomxrange,zoomyrange,/data,/to_norm al)
plotcoord=convert_coord(plotxcoord,plotycoord,/data,/to_norm al)
```

```

oplot,[zoomxrange[1],plotxcoord[0],[zoomyrange[0],plotycoord[0]],linestyle=1
oplot,[zoomxrange[1],plotxcoord[0],[zoomyrange[1],plotycoord[1]],linestyle=1

```

```
plot,x,y,xrange=zoomxrange,/xstyle $
      ,yrange=zoomyrange,/ystyle $
      ,position=plotcoord[[0,1,3,4]],charsize=0.8 $
      ,/noerase,yticks=2,ytickv=[3,3.5,4] $
      ,xticks=2,xtickv=[2.,2.5,3.],xmargin=[0.,0],ymargin=[0.,0],p sym=-4
```

```
.....
|||||
```

Ciao,
Paolo