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Subject: Re: Multiple axes and plots with NG

Posted by [chris\\_torrence@NOSPAM](mailto:chris_torrence@NOSPAM) on Mon, 13 Jan 2014 03:20:23 GMT

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Hi Matthew,

Well, first of all, your final plot looks really nice. Just like David Fanning's. Second, I don't think you can really improve the code much. By definition, once a plot is created, then all other plots that go on top of it (using say `/overplot`) must share the same "data space". In other words, they are all assumed to have the same data units. So your method of doing a new plot with `/current` is more or less correct. I was able to simplify your code a little bit by avoiding the original "empty" plot, and also by suppressing the axes for the later plots:

```
data_1 = cgScaleVector(cgDemodata(17), 0.0, 1.0)
data_2 = cgScaleVector(cgDemodata(17), 0.0, 1000.0)
data_3 = (Findgen(101)+1) / 5
```

```
position = [0.15, 0.15, 0.7, 0.820]
thick = 2
```

```
;Add the first set of data and the left axes.
```

```
Plot1 = Plot(data_1, Color='red', Thick=thick, Position=position, Ytitle='Data 1')
ay1 = Plot1['Axis 1']
ay1.Color = 'red'
ay3 = Plot1['Axis 3']
ay3.hide = 1
```

```
;Add the second set of data. Turn off the axes.
```

```
Plot2 = Plot(data_2, /Current, AXIS_STYLE=0, Position=position, Color='green', LineStyle=2,
Thick=thick)
```

```
;Add the right axis
```

```
Axis2 = Axis('Y', Location=[(Plot2.xrange)[1], 0, 0], Target=Plot2, TextPos=1, $
Color='green', Title='Data 2')
```

```
;Add the third set of data. Turn off the axes
```

```
Plot3 = Plot(data_3, /Current, AXIS_STYLE=0, Position=position, Color='blue', LineStyle=1,
Thick=thick)
```

```
;Add a third axis
```

```
xr = Plot3.xrange
Axis3 = Axis('Y', Location=[xr[1]+0.25*(xr[1]-xr[0]),0,0], Target=Plot3, TextPos=1, $
Color='blue', Title='Data 3', /Log)
```

Hope this helps!

Cheers,  
Chris  
ExelisVIS

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