
Subject: Re: cgGallery with function graphics
Posted by [Matthew Argall](#) on Thu, 27 Feb 2014 15:35:36 GMT
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Grid On Line Plot
http://www.idlcoyote.com/gallery/grid_plot.png

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; Example data. Normally passed into the program as a positional parameter.

data = cgScaleVector(cgDemoData(1), 30, 1200)

height = cgScaleVector(Findgen(N_Elements(data)), 0, 6)

thick = 2

; To label minor ticks on the axis use Martin Shultz program LogLevels.

; Set YTICKS to one less than the number of ticks returned by LogLevels.

ticks = LogLevels([10,2000])

nticks = N_Elements(ticks)

; Create the plot

ngPlot = Plot(time, data, Thick=thick, Color='Red', XTitle='Time', \$
 YTitle='Signal', Symbol='Circle', /Sym_Filled, Sym_Size=1.5, \$
 Sym_Color='Blue')

; Add the grid

; Note: There is a bug in IDL 8.2 that applies a minor tickmark grid for half of the grid.

(ngPlot.Axes)[0].TickLen = 1

(ngPlot.Axes)[0].GridStyle = 1

(ngPlot.Axes)[1].TickLen = 1

(ngPlot.Axes)[1].GridStyle = 1

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Coyote Version

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PRO Grid_On_Line_Plot_FG, WINDOW=window

; Example data. Normally passed into the program as a positional parameter.

data = cgScaleVector(cgDemoData(1), 30, 1200)

height = cgScaleVector(Findgen(N_Elements(data)), 0, 6)

thick = 2

; To label minor ticks on the axis use Martin Shultz program LogLevels.

; Set YTICKS to one less than the number of ticks returned by LogLevels.

```

ticks = LogLevels([10,2000])
nticks = N_Elements(ticks)

; Open a window and return its reference to the user.
aWindow = Window(WINDOW_TITLE="Grid on Line Plot")

; Create the plot
ngPlot = Plot(time, data, /Current, Thick=thick, Color='Red', XTitle='Time', $
              YTitle='Signal', Symbol='Circle', /Sym_Filled, Sym_Size=1.5, $
              Sym_Color='Blue')

; Add the grid
; Note: There is a bug in IDL 8.2 that applies a minor tickmark grid for half of the grid.
(ngPlot.Axes)[0].TickLen = 1
(ngPlot.Axes)[0].GridStyle = 1
(ngPlot.Axes)[1].TickLen = 1
(ngPlot.Axes)[1].GridStyle = 1
END ;*****

; This main program shows how to call the program and produce
; various types of output.

; Display the plot in a resizeable graphics window.
Grid_On_Line_Plot_FG, Window=window

; Create a PostScript file. Linestyles are not preserved in IDL 8.2.3 due
; to a bug. Only encapsulated PostScript files can be created.
window.save, 'grid_on_line_plot_fg.eps'

; Create a PNG file with a width of 600 pixels. Resolution of this
; PNG file is not very good.
window.save, 'grid_on_line_plot_fg.png', WIDTH=600

; For better resolution PNG files, make the PNG full-size, then resize it
; with ImageMagick. Requires ImageMagick to be installed.
window.save, 'additional_axes_plot_fg_fullsize.png'
Spawn, 'convert grid_on_line_plot_fg_fullsize.png -resize 600 grid_on_line_plot_fg_resized.png'

END

```
