
Subject: Re: cgGallery with function graphics
Posted by [Matthew Argall](#) on Thu, 27 Feb 2014 14:48:27 GMT
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Line Plot With Legend

http://www.idlcoyote.com/gallery/plot_with_legend.png

```
; Set up variables for the plot. Normally, these values would be  
; passed into the program as positional and keyword parameters.
```

```
; Create two random vectors.
```

```
data_1 = cgDemoData(17)
```

```
data_2 = cgDemoData(17)
```

```
; Calculate the data range, so you can create a plot with room at the top  
; of the plot for the legend.
```

```
maxData = Max(data_1) > Max(data_2)
```

```
minData = Min(data_1) > Min(data_2)
```

```
dataRange = maxData - minData
```

```
yrange = [MinData, maxData + (dataRange*0.25)]
```

```
; Legend Properties
```

```
items = ['Experiment 1', 'Experiment 2']
```

```
psyms = [-15, -16]
```

```
colors = ['red7', 'blu7']
```

```
;Plot the data
```

```
ngPlot = Plot(data_1, Symbol='Circle', /Sym_Filled, Color='Red', YRange=yrange, YStyle=1, $  
             XTitle='Time', YTitle='Signal', Name='Experiment 1')
```

```
ngOPlot = Plot(data_2, Symbol='Square', /Sym_Filled, Color='Blue', Overplot=ngPlot, $  
              Name='Experiment 2')
```
