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Subject: Re: log log scale scatterplot

Posted by [benjamin.castellani](#) on Tue, 05 Dec 2017 21:49:46 GMT

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On Tuesday, December 5, 2017 at 11:21:27 AM UTC-7, sid wrote:

> Hello all,

> I need to plot in log log scale and it is a scatter plot and I need to get the slope and intercept after fitting with linfit. This needs to be plotted in logarithmic space. And also the correlation coefficient needs to be calculated in log-log space.

>

> I have 10 x values and 10 y values

> is this correct plot, `alog10(x)`, `alog10(y)`

> or like this plot, `x,y,/xlog,/ylog` but I need the values in order to find the linfit.

>

> how to do this

> thanks

```
x = [1487.,500,24,3455,2233]
```

```
y = [11,50,2400,32.3,111]
```

```
fit = linfit(alog(x),alog(y))
```

```
xfit=[min(alog(x)),max(alog(x))]
```

```
yfit = xfit*fit[1]+fit[0]
```

```
p = plot(alog(x),alog(y),symbol='o',linestyle=6,color='blue',sym_filled=1)
```

```
p2 = plot(xfit,yfit,/overplot)
```

```
t = text(0.5,0.8,/normal,'Y = ' + strtrim(string(fit[1]),2) + ' X + ' + strtrim(string(fit[0]),2),color='red')
```

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