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Subject: Re: filling area for an XY plot

Posted by [chris\\_torrence@NOSPAM](mailto:chris_torrence@NOSPAM) on Tue, 20 Jan 2015 02:51:40 GMT

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On Monday, January 19, 2015 at 12:52:28 PM UTC-7, mkmv...@gmail.com wrote:

> I would like to fill an area for an XY plot. I have altitude on Y axis and percentage difference on X axis. I have three lines plotted, the center line being the mean value and the other two lines are  $\pm 1$  standard deviation. I would like to plot the standard deviation from mean as a shaded area. I tried to use polyfill but was no luck. Any help will be appreciated.

> Thanks,

> Mahesh

Example from the POLYGON function:

```
data = RANDOMU(s,81)*15-5
```

```
upper = data + RANDOMU(s,81)*2 + 6
```

```
bottom = data - RANDOMU(s,81)*3 - 7
```

```
year = INDGEN(81) + 1930
```

```
key = 1942
```

```
p = PLOT(year, data, XRANGE=[1930,2010], YRANGE=[-15,20], $
```

```
  YTITLE='Soil Heat Accumulation [MJ m$^{-2}$]', THICK=2)
```

```
poly = POLYGON([year,reverse(year)], [upper,reverse(bottom)], $
```

```
  [REPLICATE(-0.01,162)], /DATA, /FILL_BACKGROUND, $
```

```
  FILL_COLOR="light steel blue")
```

Cheers,

Chris

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