
Subject: Add diagonal 1:1 line in a plot?

Posted by [kim20026](#) on Tue, 08 May 2007 02:35:54 GMT

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Goodday, Everyone.

I am writing a classical scientific paper comparing MODIS-retrieved data with ground measured data. I found several papers on this. Almost all of those papers have figures with 1:1 diagonal lines, and I want to draw this with IDL.

First, I tried this with a simple data file. First column is ground-measured air temperature, second column is MODIS-retrieved/processed air temperature.

```
dat.txt
-4.2    -1.4
0       2.7
2.8     6.9
5.3     4.1
3.8     2.7
5.4     2.9
3.3     1.9
4.6     3
1.6     3.6
5.2     3.2
5.4     5.9
7.9     6.1
4.3     7.8
9.2     6.6
```

I tried this way.

```
pro OneOne ; Display 1:1 line
```

```
device, decomposed=0, set_font='arial*24*bold'
loadct, 30
```

```
window, xsize=700, ysize=700
```

```
readcol, 'dat.txt', nws, mod07, format='F, F'
n=n_elements(nws)
```

```
vsym, 24
```

```
plot, nws, mod07, psym =2, title = '1:1 line - NWS vs MOD07', xtitle =
'NWS', ytitle = 'MOD07', xrange = [-5, 10], yrange = [-5, 10]
```

```
end
```

Now I got a plot with several dots. However, still I don't know how to add the diagonal 1:1 line. Please give me a suggestion. Thanks.

Harry
