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

Posted by [David Fanning](#) on Tue, 08 May 2007 14:03:16 GMT

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Mike writes:

```
>> OPlot, [-5, 10], [-5, 10]
```

```
>
```

```
> Be careful with this - the slope of the line depends on the plot range
```

```
> and aspect ratio and the ratios of those to the arguments to oplot.
```

```
> I've found that using
```

```
>
```

```
>> oplot, !x.crange, !x.crange
```

```
>
```

```
> more often produces correct plots.
```

I had to do an Internet search to see what he meant by a 1:1 line, but it seemed to me that the actual slope didn't matter in this case. It was the ratio that was important.

But, in any case, it would probably be smart to have a plot that had a 1:1 aspect ratio, if only so you don't confuse the casual reader of your paper.

You could always use my ASPECT program for this purpose:

```
PLOT, data, POSITION=Aspect(1.0)
```

You can find ASPECT here:

```
http://www.dfanning.com/programs/aspect.pro
```

Of course, you can have aspect ratios be whatever you want them to be:

```
Plot, data, POSITION=Aspect(2.0/3.0)
```

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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