

---

Subject: Different scales in the same plot  
Posted by [caitouer](#) on Thu, 02 Jun 2005 21:02:08 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi, guys,  
I just wonder if anyone tried to plot several scales in the same plot.  
For example, plot two arrays with range [0,100] and [500,2000].  
Moreover, mark the values on the left and right respectively if possible.  
Right now I multiplied the second array by 0.1 first and then subtracted by 50. There might be a better way to do this...

```
x=[0,1,2,3,4]
a=[50,59,46,29,30]
b=0.1*[728,1061,1382,1620,1630]-50
PLOT,x,a,yrange=[20,150]
OPLOT,x,b
```

Thanks a lot,  
Caitouer

---

---

Subject: Re: Different scales in the same plot  
Posted by [maarten](#) on Mon, 06 Jun 2005 11:25:37 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

> Just curious,  
>  
> do you know how to do the same trick with iTools?  
>  
> Cheers,  
>  
>  
> Thomas

In iplot, a way to do this (perhaps there is an easier way I am not aware of), is by inserting a new dataspace.  
Plot the first series, e.g. iplot,a then in iplot click on edit->insert new dataspace.  
Type at the commandline iplot,b,/overplot.  
Then in iplot, the relevant axes can be hidden, by double clicking on the data. So you leave axes 1 and 3 for the first set and axes 2 and 4 for the second dataset.  
Hope this helps,  
  
cheers maarten

---

---

Subject: Re: Different scales in the same plot

Posted by [Benjamin Hornberger](#) on Mon, 06 Jun 2005 12:42:07 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

maarten wrote:

>  
>> Just curious,  
>>  
>> do you know how to do the same trick with iTools?  
>>  
>> Cheers,  
>>  
>>  
>> Thomas  
>  
>  
>  
> In iplot, a way to do this (perhaps there is an easier way I am not  
> aware of), is by inserting a new dataspace.  
> Plot the first series, e.g. iplot,a then in iplot click on edit->insert  
> new dataspace.  
> Type at the commandline iplot,b,/overplot.  
> Then in iplot, the relevant axes can be hidden, by double clicking on  
> the data. So you leave axes 1 and 3 for the first set and axes 2 and 4  
> for the second dataset.

This is described in one of the iTools Tutorials, which you can find on the RSI website (you'll have to sign up to download them).

Benjamin

---

---

Subject: Re: Different scales in the same plot

Posted by [caitouer](#) on Thu, 09 Jun 2005 15:39:22 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

I never used iplot before. I tried that moments ago. It is very convenient. I almost got what I wanted. I will keep on trying. Thanks a lot.

---