Subject: Orientation of 2-d plot
Posted by tasboy63 on Fri, 20 Jan 2017 01:17:51 GMT
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Hello,
I'm trying to make a plot that is oriented at 90degrees to another plot on the same page.
A command something like:

plot,time,variable,position=position,orient=90

would do the trick - only "orient" isn't a keyword.

Any idea how this might be done?
Thanks greatly.
Phil

Subject: Re: Orientation of 2-d plot
Posted by Phillip Bitzer on Fri, 20 Jan 2017 15:24:50 GMT
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On Thursday, January 19, 2017 at 7:17:54 PM UTC-6, Phillip Reid wrote:
> Hello,
> I'm trying to make a plot that is oriented at 90degrees to another plot on the same page.
> A command something like:
>
> plot,time,variable,position=position,orient=90
>
> would do the trick - only "orient" isn't a keyword.
>
> Any idea how this might be done?
> Thanks greatly.
> Phil

Just swap your variables:
t= LINDGEN(50)-25
x = t^2

p = PLOT(t, x, LAYOUT=[2, 1, 1])
p2 = PLOT(x, t, LAYOUT=[2, 1, 2], /CURRENT)

Subject: Re: Orientation of 2-d plot
Posted by wlandsman on Fri, 20 Jan 2017 18:09:15 GMT
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On Friday, January 20, 2017 at 10:24:54 AM UTC-5, Phillip Bitzer wrote:

> On Thursday, January 19, 2017 at 7:17:54 PM UTC-6, Phillip Reid wrote:
>> Hello,
>> I'm trying to make a plot that is oriented at 90degrees to another plot on the same page.
>> A command something like:
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> p2 = PLOT(x, t, LAYOUT=[2, 1, 2], /CURRENT)

This works for most plots but won't if you are using BARPLOT() or creating a filled histogram plot.
   David Fanning's CGHISTOPLOT for direct graphics has a /ROTATE keyword (with an example in his plot gallery http://www.idlcoyote.com/gallery/) to rotate a filled histogram.   Internally his program has to use a lot of calls to PLOTS to emulate a rotated filled histogram.   --Wayne

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Subject: Re: Orientation of 2-d plot
Posted by tasboy63 on Fri, 20 Jan 2017 22:45:54 GMT
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On Saturday, 21 January 2017 02:24:54 UTC+11, Phillip Bitzer wrote:
> On Thursday, January 19, 2017 at 7:17:54 PM UTC-6, Phillip Reid wrote:
>> Hello,
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>> A command something like:
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>>
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>> Phil
>
> Just swap your variables:
> t= LINDGEN(50)-25
> x = t^2
>

```
> p = PLOT(t, x, LAYOUT=[2, 1, 1])
> p2 = PLOT(x, t, LAYOUT=[2, 1, 2], /CURRENT)
```

D'oh! I can't believe I didn't try that!
Thanks Phillip (and wlandsman) for your replies.
In this instance swapping the variables (with a little jiggery pokery) works just fine.
Phil

Subject: Re: Orientation of 2-d plot
Posted by Phillip Bitzer on Sat, 21 Jan 2017 16:12:31 GMT
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On Friday, January 20, 2017 at 12:09:18 PM UTC-6, wlandsman wrote:
> On Friday, January 20, 2017 at 10:24:54 AM UTC-5, Phillip Bitzer wrote:
>> On Thursday, January 19, 2017 at 7:17:54 PM UTC-6, Phillip Reid wrote:
>>> Hello,
>>> I'm trying to make a plot that is oriented at 90degrees to another plot on the same page.
>>> A command something like:
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example in his plot gallery http://www.idlcoyote.com/gallery/) to rotate a filled histogram.
Internally his program has to use a lot of calls to PLOTS to emulate a rotated filled histogram.
--Wayne

Good call Wayne. But, Barplot does have a horizontal property that rotates, i.e. produces
horizontal bars, similar to David's cgHistoplot:

```
x = randomn(1l, 1000)
h = HISTOGRAM(x, BINSIZE=0.1, LOCATIONS=loc)
bp = barplot(loc, h)
bp.horizontal = 1
```

Subject: Re: Orientation of 2-d plot
Posted by wlandsman on Sun, 22 Jan 2017 03:49:40 GMT
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On Saturday, January 21, 2017 at 11:12:33 AM UTC-5, Phillip Bitzer wrote:

Cool!

> Good call Wayne. But, Barplot does have a horizontal property that rotates, i.e. produces horizontal bars, similar to David's cgHistoplot:
>
> x = randomn(1l, 1000)
> h = HISTOGRAM(x, BINSIZE=0.1, LOCATIONS=loc)
> bp = barplot(loc, h)
> bp.horizontal = 1