
Subject: Re: actual size of plot in iplot window

Posted by [Michael Galloy](#) on Fri, 06 Apr 2007 20:29:53 GMT

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

On Apr 6, 11:07 am, "mgal...@gmail.com" <mgal...@gmail.com> wrote:

> On Apr 5, 8:03 pm, Paul Woodford <cpwoodf...@spamcop.net> wrote:

>

>> Is there any way to make the plot in an iplot window actually occupy the
>> majority of the window? Perhaps I'm thick, but this has been bugging me
>> for a while, and I can't figure out how to do it.

>

> Yes, I would appreciate an easy way to do this too, like an XMARGIN
> and YMARGIN keywords that work like the PLOT commands'. Currently, I
> get the visualization layer and set the VIEWPLANE_RECT property to get
> the margins I want.

>

> There is a FIT_TO_VIEW keyword in IDL 6.4 which will make the
> visualization to take up the *entire* view.

>

> Mike

> --www.michaelgalloy.com

I had to refactor what I was doing to make it a bit more general, but here is what I'm currently doing. This is not completely general, but might give you hand on what you're doing:

```
;+
; Wrapper routine for iPlot which handles margins for the plot also.
;
; @param x {in}{required}{type=1D numeric array}
;       x-coordinates of data if y param is passed or y-coordinates
of data
;       if only x is passed
; @param y {in}{optional}{type=1D numeric array}
;       y-coordinates of data
; @keyword xmargin {in}{optional}{type=fltarr(2)}{default=[0.1, 0.1]}
;       size of left and right margins in window normal units
; @keyword ymargin {in}{optional}{type=fltarr(2)}{default=[0.1, 0.1]}
;       size of bottom and top margins in window normal units
; @keyword _extra {in}{optional}{type=keywords}
;       keywords to iPlot
;-
pro iplot_with_margins, x, y, xmargin=xmargin, ymargin=ymargin,
_extra=e
  compile_opt strictarr

  myXMargin = n_elements(xmargin) eq 0 ? [0.1, 0.1] : xmargin
  myYMargin = n_elements(ymargin) eq 0 ? [0.1, 0.1] : ymargin
```

```

case n_params() of
0 : iplot, _strict_extra=e
1 : iplot, x, _strict_extra=e
2 : iplot, x, y, _strict_extra=e
endcase
toolID = itGetCurrent(tool=oTool)

visIds = oTool->findIdentifiers('*', /visualization)
visLayerId = strmid(visIds[0], 0, strpos(visIds[0], '/', /
reverse_search))
oVisLayer = oTool->getByIdentifier(visLayerId)

xsize = 1.4 / (1.0 - myXMargin[0] - myXMargin[1])
ysize = 0.98 / (1.0 - myYMargin[0] - myYMargin[1])
xstart = - myXMargin[0] * xsize - 1.4 / 2
ystart = - myYMargin[0] * ysize - 0.98 / 2

oVisLayer->setProperty, viewplane_rect=[xstart, ystart, xsize,
ysize]
end

```

Mike

--

www.michaelgalloy.com
