Subject: Re: actual size of plot in iplot window
Posted by Michael Galloy on Fri, 06 Apr 2007 20:29:53 GMT
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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
--
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