Subject: Re: Keyword precedence Posted by Martin Schultz on Tue, 29 Aug 2000 07:00:00 GMT

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```
Mark Hadfield wrote:
   for each element foo add a single keyword,
 foo_properties, thus:
 pro my_visualisation $
>
    , VIEW_PROPERTIES=view_properties $
>
    , XAXIS PROPERTIES=xaxis properties $
>
    , YAXIS_PROPERTIES=yaxis_properties $
>
    , SURFACE_PROPERTIES=surface_properties $
>
    , WINDOW_PROPERTIES=window_properties
>
>
    theview = new view(UNITS=2, DIMENSIONS=, EXTRA=view properties)
>
    thexaxis = new axis(DIRECTION=0, TICKFORMAT=...,
>
  _EXTRA=xaxis_properties)
    theyaxis = new_axis(DIRECTION=1, TICKFORMAT=...,
  _EXTRA=yaxis_properties)
    ; Add the axes to a model & add that to the view
    : Get data
>
    thesurface = new_surface(STYLE=2, DATAX=..., _EXTRA=surface_properties)
>
    ; add the surface to the model
    new_window, GRAPHICS_TREE=theview, RETAIN=2, _EXTRA=window_properties
>
 end
>
> Now to control (say) the X axis the caller just sets xaxis_properties equal
  to a structure containing the appropriate keyword:value pairs, e.g.:
>
> my_visualisation, XAXIS_PROPERTIES={notext:1, minor:0}
>
> Now this approach obviously relies on the "_properties" structures
> overriding the defaults. When I first tried this I found that the
> xaxis properties keyword was not working and that this was because I had
> happened to use inheritance by reference in new_axis. The rest (as they say)
```

If you follow this approach, you might almost as well pass the structure explicitely instead of relying on the extra passing mechanism. Things like this prompted me a while ago to write my little ChkStru routine, where you test (a) if the thing you test is a structure, and (b) if it contains what you are looking for. An example for setting axis properties could look like: IF ChkStru(xaxis_properties, 'DIRECTION') THEN thexaxis->SetProperty, \$ direction=xaxis_properties.direction

> is history...

```
IF ...
```

But I realize, this may get a bit lengthy from time to time ;-)

Thanks for the thoughtful discussion,

Martin

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