Subject: Re: Saving an application state Posted by robert.dimeo on Fri, 25 Jun 2004 11:39:06 GMT View Forum Message <> Reply to Message

Many thanks to all of you for your good ideas. This has been very helpful.

## Rob

JD Smith <jdsmith@as.arizona.edu> wrote in message news:<pan.2004.06.25.01.36.40.142685@as.arizona.edu>...

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> David is right, I do have a preferred method I've written about, and it's
> fairly easy. It essentially requires you to hide all the unnecessary
> widget info behind a single pointer. I usually use self.wlnfo. Accessing
> said data is then a bit more tedious ((*self.wlnfo).wButton instead of
> self.wButton), but it gives you two things:
 1. Your object can live and run without a GUI. Good for batch scripts
    and command line processing.
>
> 2. You can save your object without the unnecessary (and harmful)
    transient widget data by simply "detaching" them before saving.
>
>
  A simplified version of my save method is:
>
> pro myClass::Save,file
    detwInfo=self.wInfo; detach
>
    self.wlnfo=ptr_new(); a null pointer save, self,FILENAME=filename
     self.wlnfo=detwlnfo; reattach
>
> end
> which works nicely, unless you have trouble saving (no permissions, etc.),
 in which case some error checking is a good idea:
>
> pro myClass::Save,file
    detwInfo=self.wInfo; detach
>
    self.wlnfo=ptr_new(); a null pointer catch, serr
>
    if serr eq 0 then save, self, FILENAME=file catch, /CANCEL
>
    self.wlnfo=detwlnfo
                              ; reattach if serr then message, 'Error
>
    saving to file: '+file
>
> end
> Anyway, this is all you really need. Restoring is pretty simple, but you
> have to be a bit careful to make sure your restored object doesn't
> overwrite the class definition of a changed class (which in principle
> means compile that class before restoring). My RESTORE_OBJECT routine
> takes care of that (or you can do it yourself).
>
```

- > Other fun tricks you can do with SAVE/RESTORE on objects include
- > overwriting the existing "self" pointer in-place... a \*very\* easy way to
- > implement "recover from file", which I call "transmogrification".

>

- > David is right that SAVE very diligently follows the data structures
- > thoroughly through all pointers and composited objects, and saves
- > everything, but if you're careful to detach what you don't want or need,
- > you'll be in fine shape. There's lots to read on the NG on this topic.
- > JD