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Subject: Re: Cleaning up inherited object classes  
Posted by [btt](#) on Wed, 03 Dec 2003 20:17:02 GMT  
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M. Katz wrote:

> Cleaning up is my least favorite activity. Were my living room an IDL  
> object I'm sure it'd be full of dangling pointer references. Here's a  
> question regarding objects' Cleanup methods and inheritance.  
>  
> When an object inherits another object, methods can be overridden. So  
> what happens to the Cleanup method? It is special.  
>  
> If my House object inherits the Living\_Room and Bathroom object  
> classes, will a call to HOUSE::Cleanup also call Living\_Room::Cleanup  
> and Bathroom::Cleanup when obj\_destroy, self is called?  
>  
> Let me put that another way. Suppose an object class, A, has pointer  
> fields. Unless someone tells me otherwise, I assume it's a good idea  
> two specifically free the pointers in that object's Cleanup routine.  
> Now, suppose another object class, B, inherits A. B has its own  
> pointers to clean up as well, so I write that into its cleanup  
> routine.  
>  
> It is sufficient to write the Cleanup methods like this?  
>  
> pro Bobj::Cleanup  
> ptr\_free, self.Bpointer  
> obj\_destroy, self  
> end  
>  
> pro Aobj::Cleanup  
> ptr\_free, self.Apointer  
> obj\_destroy, self  
> end  
>  
> Will Bobj::Cleanup's call to "obj\_destroy, self" also call  
> Aobj::Cleanup so that self.Apointer can be freed as the object is  
> destroyed?  
>  
> Also, does the destruction of an object that contains a pointer field  
> also inherently free the pointer? or is it necessary to specifically  
> ask for that in the Cleanup?  
>  
> Now if I could only get the House::TakeOutTheTrash method to work  
> reliably my wife would be thrilled.  
>  
> M. Katz  
Hello,

I think you simply call the cleanup method for each superclass.  
The following is the way I do it.

```
PRO House::Cleanup
```

```
DoMyOwnCleanUpofLocalPointersAndObjects
```

```
Self->Living_Room::CleanUp
```

```
Self->Bath_Room::Cleanup
```

```
END
```

Provided that HOUSE was defined this way.

```
PRO House__Define
```

```
struct = {House, $
```

```
  INHERITS Bath_Room, $
```

```
  INHERITS Living_Room}
```

```
END
```

If Bath\_Room inherits from some other object, such as READING\_ROOM, then it will call that superclass' cleanup method if you have Bath\_Room's cleanup as ...

```
PRO Bath_Room::Cleanup
```

```
self->Reading_Room::Cleanup
```

```
END
```

I would defer to other's on the question if a subclass MUST have its own CLEANUP method. I haven't tried it, but I'm not sure that it does (unless it has its own pointers and objects to cleanup.)

Cheers,  
Ben

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