
Subject: When should objects be used?

Posted by [Richard G. French](#) on Thu, 24 Jun 1999 07:00:00 GMT

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Nearly all of my IDL programs started as interactive bits of code, saved in a journal file and then expanded into programs. The main power of IDL for me is to be able to tinker with the code quite easily, try different things out, and then finalize the code in the fashion that works best. Most of these programs are the old-fashioned kind where you specify the conditions at the start (the data to be analyzed, the conditions of the analysis, the form of the result) and then crank through the processing in a fairly linear fashion, without a lot of interaction along the way. In fact, when I produce PostScript files for publications, I generally do it by having a specific parameter file to go with each figure, such that I can reliably reproduce the figure exactly by running the code again. I had found that previously, I had often produced figures from highly interactive programs but had a hard time figuring out just exactly what was done to produce them. All of this is by way of saying that this sort of programming seems to be the opposite of object oriented code or widget programming, which often seems to involve lots of interactive choices along the way. Thus, I have never taken the plunge to learn object oriented programming, but I have a feeling that I am missing the parade and I'd like to know what I am missing.

Could some of you who might have started out doing things the way I do, and who have converted to object-oriented programming, tell me if there is something to be gained by my revising my programming style to use objects? I have developed a nice library of IDL procedures and functions to do my kind of processing, but I have not done the same with widgets, and I have never tried doing it with objects.

To provide a specific example, I have written some IDL code to determine the exact locations of small Saturnian satellites in Hubble Space Telescope images, to fit orbits to these positions, and to produce TeX tables of the final fitted results. Do you see obvious advantages to trying to do some of this using objects?

Thanks for any insight you can provide. My problem is that so much of the discussion of objects seems abstract that I have a hard time figuring out how to translate it to the problems I am trying to solve.

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