
Subject: Re: display question

Posted by [davidf](#) on Fri, 06 Mar 1998 08:00:00 GMT

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Joseph Scott Stuart (nospam@ll.mit.edu) writes:

- > I have a sensor to calibrate in which the pixels are not laid out in a
- > simple grid. I can construct an array that gives the X-Y coordinates
- > (relative to some point on the focal plane) of the centers of each
- > pixel, and I know the shape of each pixel. When taking calibration
- > data from the sensor, I'll have an array that gives the intensity that
- > each pixel is measuring. What I would like to do is make a display
- > that shows a little box for each pixel, of the right size, in the
- > right location with the measured intensity, and then be able to zoom
- > in using the mouse cursor to select a box.
- >
- > I can probably get something to work by using `convert_coord` to get the
- > device coordinates of each pixel corner, then constructing an array of
- > the appropriate number of pixels, and using `tv` to display. But, there
- > are over 15,000 pixels, and I fear that this will be much too slow.
- > Are there any better ways to display a bunch of little boxes each with
- > its own color at its own specified data coordinates?

I presume that many of these boxes will be the same size and shape. One of the things I've done is make my own plot symbol (using `USERSYM`) that is the correct shape for what I want to plot. Then I just set up a plot (with or without axes) and simply plot the pixels into the data space with the `Plot` command and `PSYM` set to 8. This saves having to go into device coordinate space.

Cheers,

David

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