Subject: Re: Zoom-like procedure
Posted by Craig Markwardt on Sat, 28 Jul 2001 20:06:01 GMT
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Bob Fugate <rqfugate@mindspring.com> writes:

> I am displaying small parts (e.g. 16x16 pixels) of images and need to zoom
> regions up to a size large enough to see the relative brightness of the
> pixels. The ZOOM procedure does exactly what I want, but in an interactive
> mode. Does anyone know of a function or procedure or other means that would
> allow me to include this feature in my program to automatically zoom a
> preselected subregion of the image? REBIN, and CONGRID resample and that is
> not what I want, I just want the intensity in each original pixel to be
> reproduced everywhere in a synthesized, larger pixel, ideally whose size I
> can choose.

Bob,

Isn't this exactly what REBIN does? It replicates pixels. The value
of this BLOWUP:

  blowup = rebin(img(0:15,0:15), 16*nscale, 16*nscale)

is a new array with NSCALE times as many pixels in each direction as
the original 16x16 subimage. Then of course you have to TV it onto
the screen. :-)

Craig

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 -- -------------
Craig B. Markwardt, Ph.D.   EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
 -- -------------

Subject: Re: Zoom-like procedure
Posted by Bob Fugate on Sat, 28 Jul 2001 22:55:24 GMT
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Craig,
You are right. However, it appears one must also add the keyword SAMPLE or
all but the last row of the enlarged pixels will contain a number of
gradient levels proportional to the dimensions of the array being expanded.
The first time I tried this I had the scale factors wrong -- not integer
multiples of the dimensions of the array and I didn't use the sample
keyword.
Thanks, again for your help. This solves my problem.

Bob

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> Craig
>
> --
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> Craig B. Markwardt, Ph.D.   EMAIL: craigmnet@cow.physics.wisc.edu
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