
Subject: Re: interpolation for resizing

Posted by [Chris\[6\]](#) on Wed, 03 Dec 2008 04:04:39 GMT

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On Dec 2, 1:28 pm, David Fanning <n...@dfanning.com> wrote:

> bryan.s.h...@gmail.com writes:

>> I have a 100 X 100 spatial image to be resized to 1000*1000.

>> The data of this image is surface temperature and includes some part
>> of ocean.

>> Because I want to exclude data of ocean area during interpolation, I'm
>> trying to resize it using "interpolate".

>> But I cannot understand the IDL help pages for the 'interpolate'.

>> Could anyone help me with a simple command line for this job?

>

> I don't think this is what you want to do.

> Just use CONGRID (or REBIN) to resize your
> image. (CONGRID uses INTERPOLATE to do the
> interpolation, so you can see how it is done,
> if you read the code.) Then mask out your ocean
> pixels in the usual way, with the WHERE function.

>

> bigImage = Congrid(image, 1000, 1000)

> oceanPixels = Where(bigimage EQ 9999, count)

> IF count GT 0 THEN image[oceanPixels] = 0

>

> Cheers,

>

> David

> --

> David Fanning, Ph.D.

> Coyote's Guide to IDL Programming (www.dfanning.com)

> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

One potential issue with this approach is that IDL may interpolate between your 9999 values and your real data values when you expand the array. If you set the 9999s to !values.f_nan beforehand, then the interpolation will behave more sensibly.

chris
