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Subject: Calculate gradient

Posted by [mslarkin](#) on Fri, 12 Mar 2010 21:41:36 GMT

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Hi IDL experts,

I have a 2-D array (2708x4060), containing reflectance data. Is it possible to calculate the reflectance gradient (i.e. the rate of reflectance change over distance or array grid) throughout the array, and then draw lines of equal gradient (note that they're NOT contour lines)?

Thank you very much for your help!

IDL beginner

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Subject: Re: Calculate gradient

Posted by [Kenneth P. Bowman](#) on Sun, 14 Mar 2010 17:16:55 GMT

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In article

<32fa95d5-4856-4847-9f28-cfcac9ad4348@t20g2000yqe.googlegroups.com>, mslarkin <enhlwang@gmail.com> wrote:

- > Hi IDL experts,
- > I have a 2-D array (2708x4060), containing reflectance data. Is it
- > possible to calculate the reflectance gradient (i.e. the rate of
- > reflectance change over distance or array grid) throughout the array,
- > lines)?
- > Thank you very much for your help!
- > IDL beginner

You need to be clearer. The gradient is a vector quantity. Do you want to plot isopleths of the magnitude of the gradient?

Ken Bowman

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