Subject: Re: How to plot linear regression relation of two array?
Posted by Hu on Mon, 09 Feb 2009 21:21:19 GMT
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On Feb 9, 1:13 pm, Vince Hradil <vincehra...@gmail.com> wrote:
> On Feb 9, 2:51 pm, Hu <jha...@gmail.com> wrote:
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>> On Feb 9, 12:12 pm, Vince Hradil <vincehra...@gmail.com> wrote:
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>>> On Feb 9, 1:45 pm, Hu <jha...@gmail.com> wrote:
>
>>>> Hi,
>
>>>> I am trying to plot a linear regression relation of two array
>>>> (supposing A and B) by using IDL. What I want is to got a chart like
>>>> this link shows (the group is unable to post figure
directly):http://serc.carleton.edu/images/introgeo/teachingw data/LeastSquaresGr...
>
>>>> especially, How can I got the black straight line and the coefficients
>>>> R^2 ?
>
>>>> Thanks
>
>>> Have you looked in the help for linfit()?
>
>> BTW, I set MEASURE_ERRORS to SQRT(ABS(Y)), just follow the example,
>> but what is MEASURE_ERRORS? and what is R^2 mean in the above picture?
>
>> Thank you very much
>
> Sounds like you're using REGRESS() not LINFIT()?
>
> I'd use LINFIT() to get the nice line
> and use CORRELATE() to get the Pearson correlation coefficient. I
> think CORRELATE() gives you the Pearson correlation coefficient, r,
> which, in this case can be squared to get R^2.

I use Linfit(), this function need a MEASURE_ERRORS parameter to run.
Anyway, I will try your suggestion, CORRELATE()

Tnaks