
Subject: Re: How to plot linear regression relation of two array?

Posted by [Vince Hradil](#) on Mon, 09 Feb 2009 21:13:06 GMT

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On Feb 9, 2:51 pm, Hu <jha...@gmail.com> wrote:

> On Feb 9, 12:12 pm, Vince Hradil <vincehra...@gmail.com> wrote:

>

>> 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...](http://serc.carleton.edu/images/introgeo/teachingw%20data/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 .
