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Subject: Re: Reducing a set of curves to a mean curve  
Posted by [Vince Hradil](#) on Mon, 04 Jan 2010 21:03:56 GMT  
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On Jan 4, 9:59 am, Bernhard Reinhardt  
<[wirdseltengele...@freisingnet.de](mailto:wirdseltengele...@freisingnet.de)> wrote:

> Hi everyone,  
>  
> I have a set of curves (as x-y-points) which I'd like to reduce to a  
> mean curve and some kind of deviation interval. If the curves would  
> consist of fixed x-values with varying y-values this would be no big  
> deal since I could compute the mean and a deviation measure at every  
> x-value. However it turns out that the x-values are not fixed as well.  
>  
> My first idea was to use `poly_fit` but the results don't look like I want  
> them to and it doesn't solve my problem with the deviation interval.  
> Right now I'm thinking of using a fixed x-grid and interpolating the  
> data. But before I reinvent the wheel again I want to ask if someone  
> here has appropriate code in his library. I think this should be a  
> common problem!?  
>  
> Best regards!  
>  
> Bernhard

Does this help: <http://tinyurl.com/yz6hdx3>

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