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Subject: Re: weighted Gaussian distribution mean  
Posted by [James Kuyper](#) on Tue, 14 Feb 2006 14:48:18 GMT  
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maffie wrote:

> Hi all,  
>  
> I have really don't succeed in doing the following:  
>  
> I have an 24x29 array, where fromm I would like to calculate a  
> weighted, Gaussian distribution mean with the central point of this  
> 24x29 array as the centre of the Gauss-distribution. Any help is  
> welcome, because I can't see a solution....

```
cols = 24
rows = 29
x = replicate(1.0, cols)#indgen(rows)
y = indgen(cols)#replicate(1.0,rows)
weight = exp( -((x - 0.5*rows)^2 + (y - 0.5*cols)^2)/sigma^2 )
average = total(data*weight)/total(weight)
```

You have to provide "data", and you have to choose a value for sigma.

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