
Subject: Re: RMS error

Posted by [Craig Markwardt](#) on Wed, 12 May 2004 14:13:53 GMT

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David Fanning <david@dfanning.com> writes:

> Julio writes:

>

>> I'd like to calculate Root Mean Square error using a base image and a

>> secondary image. How can I do that? Clues are welcome!

>

> rms_error = Sqrt(Total((img_1 - img2)^2)/N_Elements(img_1))

Hey David, I'll pile on too. The problem I see with the above expression is that there could be an offset between the two images, which you are including in your TOTAL expression, and hence biasing the rms value. How about the following instead?

```
rms_error = stddev(img_1 - img2)
```

Craig

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Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
