
Subject: Re: how to define size of image in common case

Posted by [jeanh](#) on Tue, 06 Jul 2010 11:16:07 GMT

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On 06/07/2010 12:32 AM, skymaxwell@gmail.com wrote:

> how to define size of image (in bytes) in common case ?

>

> I use the following formula

>

> $V = (\text{image_size_x} / \text{pixel_size_x}) * (\text{image_size_y} / \text{pixel_size_y}) * \text{Nb_ands} * 10E-6$

>

> image_size_x, image_size_y - dimensions of image (in meters)

> pixel_size_x, pixel_size_y - spatial resolution (in meters)

>

> Unfortunately, for some images it's wrong - it doesn't match with file size.

> Why ?

>

> Thanks

Hi,

the formula is : number of pixels * weight of each pixels.

So, if the pixels are in Byte, each pixel is 8 bits, integers -> 16

bits, floats -> 32 bits etc

Also, some images have their header embedded... other formats use some compression

Jean
