
Subject: Creating a new image from an image input in IDL

Posted by [bcubeb3](#) on Wed, 05 May 2010 06:45:20 GMT

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After typing this line of code:

```
IMAGE=READ_TIFF(FILEPATH('/bin/butterfly.tiff'))  
help, IMAGE
```

I get the output

```
IMAGE BYTE = Array[3, 4800, 6000]
```

Now I want to write a computer program to systematically loop through each of the $n \times n$ pixels of the image and to use a coordinate system in pixel units to compute new coordinates based on the formula $\theta_s = \theta - (\text{size parameter of your choosing in units of pixels}) * \theta_{\text{hat}}$.

The vector θ_s tells me where to look in the original image to extract intensity information which will then store in my image array. I will use a bilinear scheme when assigning new intensity values that will be stored for my newly created image array θ . Now I have no idea how to even begin. I was looking for stuff online and I was looking at help manuals but all efforts proved futile. Let me know of your suggestions and I greatly appreciate your help on this.

-Barry
