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Subject: Re: Running this MATLAB code in IDL  
Posted by [mikejohnryan08](#) on Tue, 29 Apr 2014 02:04:09 GMT  
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On Sunday, April 27, 2014 9:20:16 PM UTC-4, Mike Galloy wrote:

> On 4/27/14, 7:00 pm, mikejohnryan08@gmail.com wrote:  
>  
>> Thanks for the responses! I agree that it would not be a good idea  
>  
>> to attempt using the MATLAB code in any way towards thesis research,  
>  
>> and that it would be better to write my own simple IDL function to do  
>  
>> this.  
>  
>>  
>  
>> Mike, thanks for pointing me towards your code library. The  
>  
>> "combinelImages" method from your anaglyph class seems to be EXACTLY  
>  
>> what I am trying to implement in IDL, and seems like it would be a  
>  
>> very basic function; since as you said, I already have the left and  
>  
>> right images. But since I am completely new to IDL, I can't even  
>  
>> begin to think about how that method could be turned into a  
>  
>> standalone function. It should be very basic, right?  
>  
>  
>  
> Methods have access to the instance variables of the object and can call  
>  
> other methods of the object using the "self" variable, so watch out for  
>  
> them. In the \_combinelImages example, there was only the self.color  
>  
> variable, so how about something like:  
>  
>  
>  
> function mg\_create\_anaglyph, leftImage, rightImage, color=color  
>  
> compile\_opt strictarr  
>  
>

```
>
> ; define combined_image to the correct size
>
> combinedImage = leftImage * 0B
>
> dims = size(leftImage, /dimensions)
>
>
>
> if (keyword_set(color)) then begin
>
>   combinedImage[0, *, *] = leftImage[0, *, *]
>
>   combinedImage[1, *, *] = rightImage[1, *, *]
>
>   combinedImage[2, *, *] = rightImage[2, *, *]
>
> endif else begin
>
>   _leftImage = byte(total(fix(leftImage), 1) / 3)
>
>   _rightRight = byte(total(fix(rightImage), 1) / 3)
>
>
>
>   combinedImage[0, 0, 0] = Reform(_leftImage, 1, dims[1], dims[2])
>
>   combinedImage[1, 0, 0] = Reform(_rightRight, 1, dims[1], dims[2])
>
>   combinedImage[2, 0, 0] = Reform(_rightRight, 1, dims[1], dims[2])
>
> endelse
>
>
>
> return, combinedImage
>
> end
>
>
> Mike
>
> --
>
> Michael Galloy
>
> www.michaelgalloy.com
```

- >
- > Modern IDL: A Guide to IDL Programming (<http://modernidl.idldev.com>)
- >
- > Research Mathematician
- >
- > Tech-X Corporation

Thanks, that makes much more sense now. I was confused about where the self.color was coming from but now I understand. This is very helpful advice for kickstarting my research project, I certainly appreciate it.

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