
Subject: Image overlapping

Posted by [Wox](#) on Fri, 07 Sep 2007 08:54:40 GMT

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Suppose several images represent the distributions of different chemical compounds. I want to show this in one image with overlapping distributions. For now I do it like this (pseudocode, see below):

<http://users.telenet.be/wox/files/Overlap>

```
distribution1.bmp  
distribution2.bmp  
distribution3.bmp  
--> overlap.bmp
```

However, this doesn't look very nice. I was actually looking at something like alpha blending, but then for more than two images. Any ideas? Remark: the distributions are just 2D arrays (i.e. no RGB)

PseudoCode:

```
1. binImage1=Image1 gt threshold1  
   binImage2=Image2 gt threshold2  
   ...  
  
2. binImage=BinImage1 or BinImage2 or ...  
   multImage=BinImage1+BinImage2+...  
  
3. R=BinImage1*R1+BinImage2*R2+...  
   G=BinImage1*G1+BinImage2*G2+...  
   B=BinImage1*B1+BinImage2*B2+...  
  
4. R/=binImage*multImage  
   G/=binImage*multImage  
   B/=binImage*multImage  
  
5. Plot RGB image:  
   tvscl,[[[R]],[[G]],[[B]]],true=3
```
