
Subject: Re: Color image

Posted by [pa64](#) on Wed, 12 Jul 1995 07:00:00 GMT

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In article <3tp657\$e32@apakabar.cc.columbia.edu>, jun@parsifal.phys.columbia.edu (Jun Xu) writes:

|> Hi, more questions.

|>

|> We have several images of sky, each in different band

|> of wavelength. Now we want to construct a color image

|> from these images. Does anyone have good ideas of how to

|> do this in IDL?

|>

|> Thanks.

|>

|> Jim

|>

try the following - with three images (red green blue):

```
pro tvci,red,green,blue,shiftr=shiftr,shiftg=shiftg,shiftb=shiftb,si=si
```

```
if not keyword_set(shiftr) then shiftr = [0,0]
```

```
if not keyword_set(shiftg) then shiftg = [0,0]
```

```
if not keyword_set(shiftb) then shiftb = [0,0]
```

```
if not keyword_set(si) then si=[512,512]
```

```
shiftmx = shiftr > shiftg > shiftb
```

```
shiftmn = shiftr < shiftg < shiftb
```

```
; show colorimage from separate channels:
```

```
sr=size(red)
```

```
if sr(0) eq 2 then si = sr(1:2) > si
```

```
sg=size(green)
```

```
if sg(0) eq 2 then si = sg(1:2) > si
```

```
sb=size(blue)
```

```
if sb(0) eq 2 then si = sb(1:2) > si
```

```
si=si + shiftmx - shiftmn
```

```
sx=si(0)
```

```
sy=si(1)
```

```
ci = bytarr(sx,sy,3)
```

```
if sr(0) eq 2 then begin
```

```
shx = (shiftr-shiftmn)(0)
```

```
shy = (shiftr-shiftmn)(1)
```

```
if sr(3) eq 1 then ci(shx,shy,0) = red $
```

```
else ci(shx,shy,0) = bytscl(red)
```

```

endif else ci(*,*,0) = byte(red)

if sg(0) eq 2 then begin
  shx = (shiftg-shiftmn)(0)
  shy = (shiftg-shiftmn)(1)

  if sg(3) eq 1 then ci(shx,shy,1) = green $
  else ci(shx,shy,1) = bytscl(green)
endif else ci(*,*,1) = byte(green)

if sb(0) eq 2 then begin
  shx = (shiftb-shiftmn)(0)
  shy = (shiftb-shiftmn)(1)
  if sb(3) eq 1 then ci(shx,shy,2) = blue $
  else ci(shx,shy,2) = bytscl(blue)
endif else ci(*,*,2) = byte(blue)

tv,color_quan(ci,3,r,g,b) & tvlct,r,g,b
end

```

Regards,
Hermann Mannstein

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