

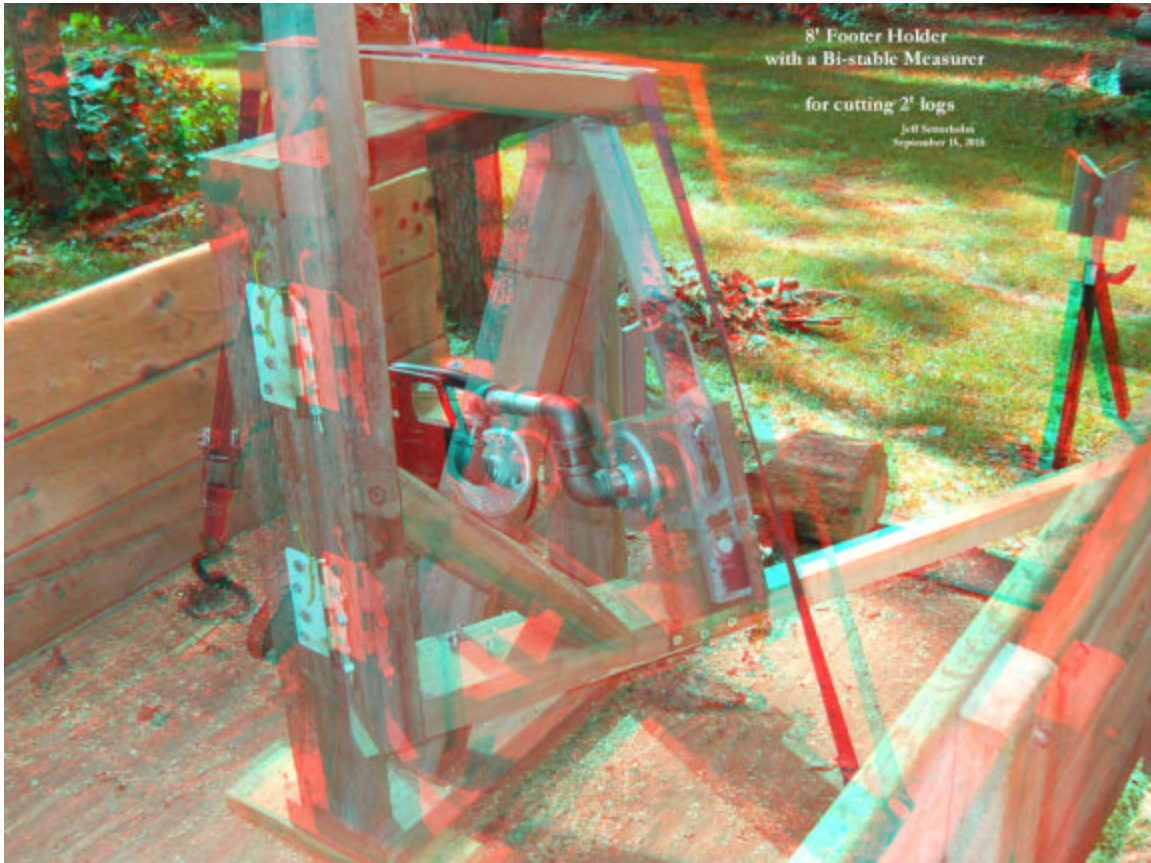
(Red) : (Green+Blue) 3D

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The image above is a 3D stereo anaglyph created by merging **two** full-color images into **one** full-color image using:

- A. The **red** pixels of the left image –and–
- B. The **green** and **blue** pixels of the right image.

(I recommend viewing such images with Red/Cyan 3D glasses such as American Paper Optics LLC's item: AGRCHHV.)

I came up with *and implemented* this idea on my own a few days ago.

To the extent of my rights therein:

I hereby place (Red) : (Green+Blue) 3D images in the public domain.

While this notice remains posted on my website: www.setterholm.com/Images/Red-GreenBlue3D.pdf
... no one has proven to me that the idea doesn't rightfully belong in the public domain.

Sun 2015.09.27 ...a 57 megabyte image down-converted to a 28 megabyte RedGB3D in 5 seconds.

For experimental conversion software see: www.setterholm.com/Fortran/RedGB3D/

My runtime screen when converting a large, full-color qVP stereo pair:

```
2015.09.27.1203.11 L
RedGB3D.exe version 0.5 2015.09.27 Jeff Setterholm
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On the web: http://ftp.setterholm.com/Fortran/RedGB3D/RedGB3D.exe
change to: ^ .exe to run
Initialization file: /Fortran/RedGB3D/RedGB3D.ini
Source code : /Fortran/RedGB3D/RedGB3D.f95

Your text file named 'RedGB3D.ini' initializes this program by providing
three pieces of information:

1. Your input .bmp image file name - a side-by-side stereo pair
which can be either 24-bit color or 8-bit grayscale.

2. a flag = -1 for a Right/Left (< = crossed-eye) input image
= +1 for a Left/Right (e.g. stereoscope) input image

3. The name for the resulting '-REDGB3d.bmp' image'

4. Convergence shift = screen depth adjustment, in pixels (if any)
>0 moves screen depth to a point presently -farther- than the screen
<0 -nearer-
The R & GB halves can even be completely separated in the output.

For example:
"qUP.bmp"C <- Your input .bmp image filename
-1 <- -1 for Right/Left ; +1 for Left/Right
"qUP-RedGB3D.bmp"C <- Your name for the output -RedGB3d.bmp image
0 <- Convergence adjustment, if any.

This software is experimental & has NO warranties.
In particular, input error checking is minimal.
You're welcome to improve the source code yourself.

Use the program ONLY at your own risk.

Press 0 to exit now -or- Press 1 to proceed:1
2015.09.27.1203.14 L
Searching for StPaul-LookingDown-Qvp.bmp
...found. Opening...
Bitmap Header (BH) values:
BM=BM nSizeTot= 57749814 nReserv1= 0 nReserv2= 0
nOffBit = 54 nSizeH = 40 nWidth = 4320 nHeight = 4456
nPlanes = 1 nBitsPP = 24 nCompres= 0 nSizeC = 0
XPpM = 0.00 YPpM = 0.00 nClrUsed= 0 nClrImpo= 0

I1.PixelsPerRow = 4320
I1.PixelsConvAdj = 0
I1.BytesPerPix = 3
I1.BytesPerRow = 12960
I1.PadBytes = 0
I1.BytesPerRowPadded= 12960

Output image:
Bitmap Header (BH) values:
BM=BM nSizeTot= 28874934 nReserv1= 0 nReserv2= 0
nOffBit = 54 nSizeH = 40 nWidth = 2160 nHeight = 4456
nPlanes = 1 nBitsPP = 24 nCompres= 0 nSizeC = 0
XPpM = 0.00 YPpM = 0.00 nClrUsed= 0 nClrImpo= 0

I2.PixelsPerRow = 2160
I2.PixelsConvAdj = 0
I2.BytesPerPix = 3
I2.BytesPerRow = 6480
I2.PadBytes = 0
I2.BytesPerRowPadded= 6480
2015.09.27.1203.18 L
Program RedGB3d.exe:
is about to write output file:StPaul-LookingDown-Qvp-RedGB3D
which is 2160 pixels by 4456 pixels.

Press 0 to exit now -or- Press 1 to proceed:1
2015.09.27.1203.18 L
2015.09.27.1203.19 L
RedGB3D.exe image processing completed. Press enter.
```