
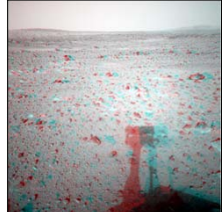





# Red-Cyan Stereographics




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1

# Red-Cyan Glasses





No, they are not *red-blue* glasses!  
No, they are not *red-green* glasses!

The universal convention is:

- Red goes over the left eye
- Cyan goes over the right eye

If you want your own red-cyan glasses, one of the many places you can go is:  
<https://www.3dglasesonline.com/products/anaglyphic/>

2

# anaglyph.glib

```



##OpenGL GLIB
Ortho -5.5, -5.5,
LookAt 0 0 1 0 0 0 0 1 0

Texture2D 5 mars_left.bmp
Texture2D 6 mars_right.bmp

Vertex  anaglyph.vert
Fragment anaglyph.frag
Program Anaglyph

    uOffsetS <- .25 0.0000 .25> \
    uOffsetT <- .25 0.0000 .25> \
    uRed <0, 1, 5> \
    uGreen <0, 1, 5> \
    uBlue <0, 1, 5> \
    uLeftUnit 5 uRightUnit 6

QuadXY .25.
    
```

3



# anaglyph.vert

```

#version 330 compatibility


out vec2 vST;

void
main( )
{
    vST = gl_MultiTexCoord0.st;
    gl_Position = gl_ModelViewProjectionMatrix * gl_Vertex;
}
    
```

4

# anaglyph.frag



```

#version 330 compatibility

uniform sampler2D uLeftUnit, uRightUnit;
uniform float uOffsetS, uOffsetT;
uniform float uRed, uGreen, uBlue;



in vec2 vST;

void
main()
{
    vec4 left = texture( uLeftUnit, vST );
    vec4 right = texture( uRightUnit, vST+vec2(uOffsetS,uOffsetT) );

    vec3 color = vec3( left.r, right.gb );
    color *= vec3( uRed, uGreen, uBlue );
    color = clamp( color, 0., 1. );



    gl_FragColor = vec4( color, 1. );
}
        
```

Note: .gb is cyan






5

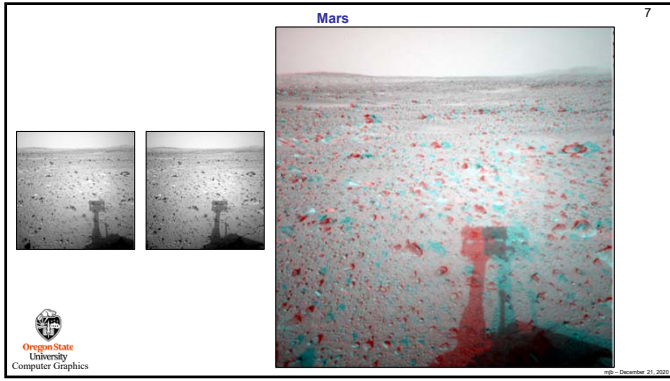
# Mars

Left
Right

6



7



8



9