

Tutorial 1

TRIANGLES

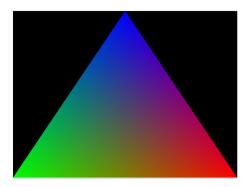
CS4052 COMPUTER GRAPHICS

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1 Making a Coloured Triangle

I called the buffer by the color preset variable name which coloured the triangle with the preset color gradient

```
// Fragment Shader
// Note: no input in this shader, it just outputs the colour of all fragments, in this case set to
    red (format: R, G, B, A).
static const char* pFS = "
                                                                n
#version 330
                                                                n
/*since FeagColor5 is an out vector, its name does not need to corespond to anything \n\
this is onl required for the possible out vecttor FragColor */ \n
out vec4 FragColor5;
/*for future reference make sure mapping and shading names are the same*/ \n\
in vec4 color;
void main()
                                                                  n
                                                                   n
FragColor5 = vec4(color); }";
```



2 Making the triangle twice as small

Since I wasnt allowed to alter the vertices array I divided everything by 2



3 Making a red and yello square

I drew another triangle and extended the original one by adding extravertices.

I also added new color coordinates for the new vertices

I looked up the color for red and yellow so as to map the points appropriatelly. I changed the number of vertices in the display and mapping functions.

GLuint numVertices = 6;

