

// MinTuts/Procedural Terrain.shader

```
Shader "MinTuts/Procedural Terrain" {
    SubShader {
        Pass {
            CGPROGRAM

            #pragma vertex    vert
            #pragma fragment  frag

            #include "UnityCG.cginc"

            struct v2f {
                float4 pos    : SV_POSITION;
                float3 wpos   : POSITION1;
            };

            v2f vert(float4 vertex : POSITION) {
                v2f o;

                o.pos    = UnityObjectToClipPos(vertex);
                o.wpos   = mul(unity_ObjectToWorld, vertex);

                return o;
            }

            float4 frag(v2f i) : COLOR {
                float  p = i.wpos.y * 0.015;
                float3 y = float3(p, p, p);

                return float4(y, 1);
            }
        }
    }
}
```

CGPROGRAM/ENDCG specify *where* the **Cg** code **Unity** needs to compile is

Everything between **CGPROGRAM/ENDCG** is **NVIDIA's Cg** (aka *C for graphics*)

You can mix **HLSL** (*High-Level Shader Language* or *High-Level Shading Language*; aka **Microsoft's DirectX**) and **Cg**

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            float4 frag(v2f i) : COLOR {
                float p = i.wpos.y * 0.015;
                float3 y = float3(p, p, p);

                return float4(y, 1);
            }

            ENDCG
        }
    }
}
```

These are compilation directives

“**#pragma** gives the compiler special instructions for the compilation of the file in which it appears. The instructions must be supported by the compiler.”
—Microsoft docs