// 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);
        }

      ENDCG
    }
  }
}
```

First things first: create our output data structure

Then we populate **v2f**'s **pos** and **wpos** properties

This function is available because… we **include**d Unity's **Cg** helper functions

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We pass the **vertex** input property to this function