## // 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
```

We use this **float3** as the first 3 arguments... to the **float4** constructor

## // 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
```

We use this **float3** as the first 3 arguments... to the **float4** constructor

The 4th argument we hard code to 1; the 4th channel is the <u>opacity/transparency</u> channel