## // MinTuts/Procedural Terrain.shader

```
y = float3(1, 1, 1);
} else if (p < 0.05) {
    r = -(p - 0.1);
    g = r;

y = float3(1, 1, 1);
}
return float4(y * float3(r, g, b), 1);</pre>
```

The goal of this <u>commit</u> to <u>create</u> a small <u>shoreline</u> <u>between</u> the <u>water and grass</u>

To do that we first need to <u>make sure</u> our <u>previous</u> **if** <u>didn't match</u>

If it <u>didn't</u>, we <u>check</u> if...**p** is <u>less than</u> where we want the <u>top</u> of

If it is, we subtract 0.1 from **p** 

our shoreline to be

This will <u>result</u> in a <u>negative number</u> which grows <u>larger</u> as **p** <u>approaches 0</u>

We then <u>flip</u> the <u>sign</u> of our <u>resulting value</u>
The <u>result</u> of this <u>flip</u> is <u>larger positive numbers</u>
the <u>closer</u> **p** gets <u>to 0.01</u> - and <u>smaller positive</u>
<u>numbers</u> as **p** <u>approaches 0.05</u>

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The goal of this commit to create a small shoreline between the water and grass

To do that we first need to make sure our previous if didn't match

If it didn't, we check if...

It is less than where we want the top of

**p** is <u>less than</u> where we want the <u>top</u> of our <u>shoreline</u> to be

If it is, we subtract 0.1 from **p** 

This will <u>result</u> in a <u>negative number</u> which grows <u>larger</u> as **p** <u>approaches 0</u>

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This gives us a <u>gradient</u> that goes in the <u>opposite direction</u> from the <u>grass gradient</u>: <u>light</u> to <u>dark</u> as **p** increases