// ProceduralTerrain

```
Strong amplitude
float height11 = 0f;
                      1f
float amplitude = 1f;
float frequency = 1f;
for (int i = Octaves; i > 0; i--) {
 float octave_x0 = x / Scale * frequency;
 float octave_z0 = z / Scale * frequency;
 float octave_x1 = (x + 1f) / Scale * frequency;
 float octave_z1 = (z + 1f) / Scale * frequency;
 height00 += Mathf.PerlinNoise(octave_x0, octave_z0) * amplitude;
 height01 += Mathf.PerlinNoise(octave_x0, octave_z1) * amplitude;
 height10 += Mathf.PerlinNoise(octave_x1, octave_z0) * amplitude;
 height11 += Mathf.PerlinNoise(octave_x1, octave_z1) * amplitude;
 amplitude *= Persistance;
 frequency *= Lacunarity;
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