

```
// ProceduralTerrain
```

Each quad
is composed
of two triangles

Each triangle
is composed
of three vertices

```
int z_segments = TerrainSize / CellSize;
```

```
int vertex_count = 6 * x_segments * z_segments;
```

```
List<Vector3> vertices = new List<Vector3>(new Vector3[vertex_count]);
```

```
List<int> triangles = new List<int>(new int[vertex_count]);
```

```
for (int x = 0; x < x_segments; x++) {
```

```
// ProceduralTerrain
```

```
for (int x = 0; x < x_segments; x++) {  
    for (int z = 0; z < z_segments; z++) {
```

```
...
```

```
var vertex11 = new Vector3(  
    (float) x1, height11 * (float) TerrainHeight, (float) z1  
);
```

```
int index0 = 6 * (x + z * x_segments);
```

```
int index1 = index0 + 1;
```

```
int index2 = index0 + 2;
```

```
int index3 = index0 + 3;
```

```
int index4 = index0 + 4;
```

```
int index5 = index0 + 5;
```

```
...
```