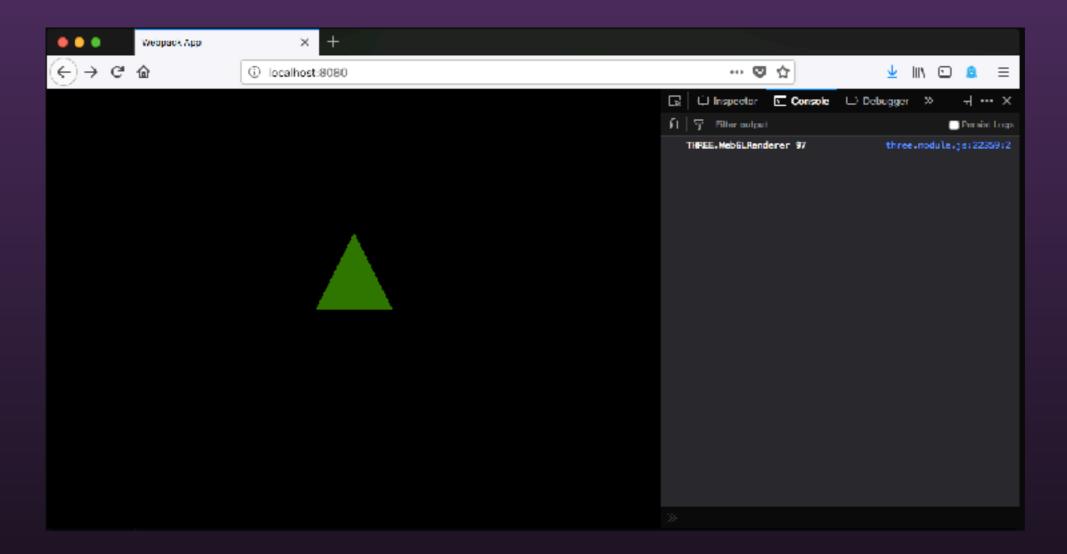
Computer Generated Landscapes November Update

Tom Arnold

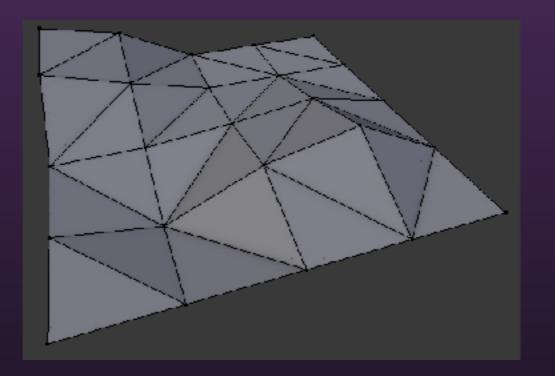
Project

- Basic skeleton with Webpack / ThreeJS
- https://bitbucket.org/Tom9729/csci716-project



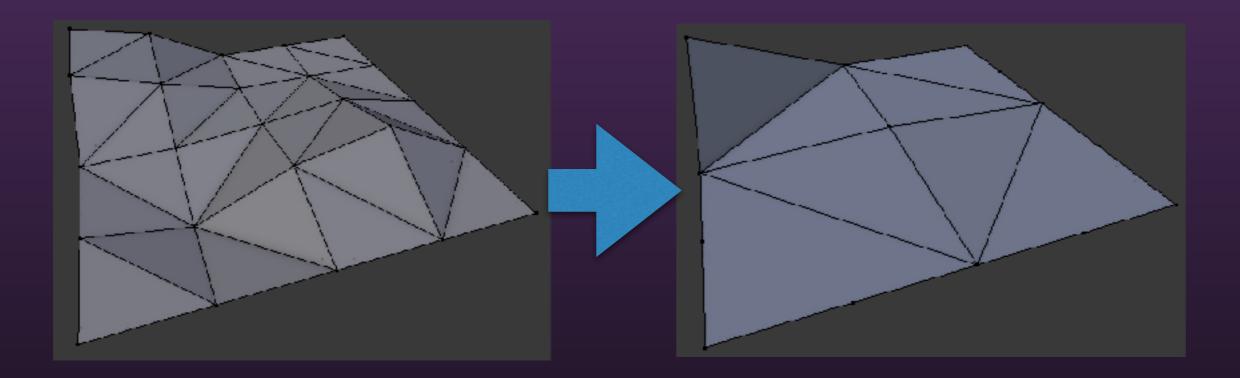
Level of Detail Algorithms

- Render parts of scene at lower quality to save resources
- Focusing on triangulated height maps



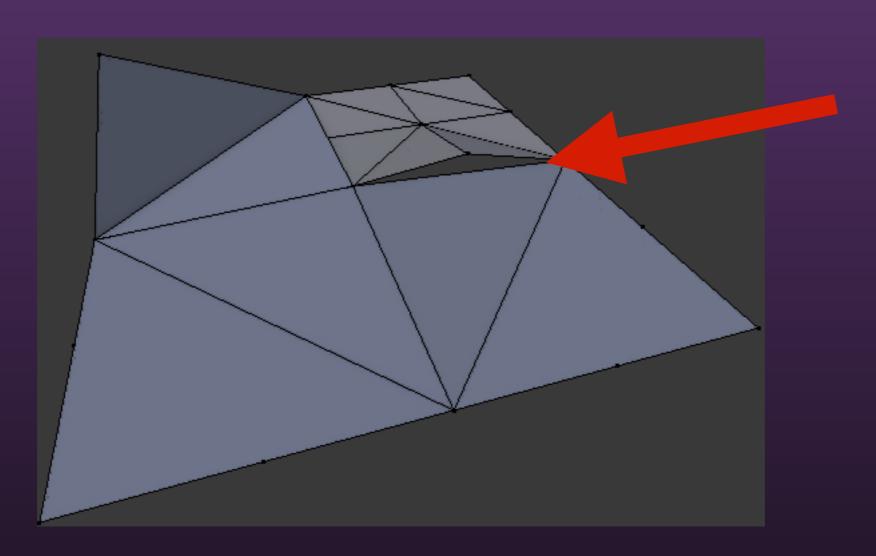
Approach

- Work backwards from full resolution
 - Full resolution = 8 triangles
 - Low resolution = 2 triangles



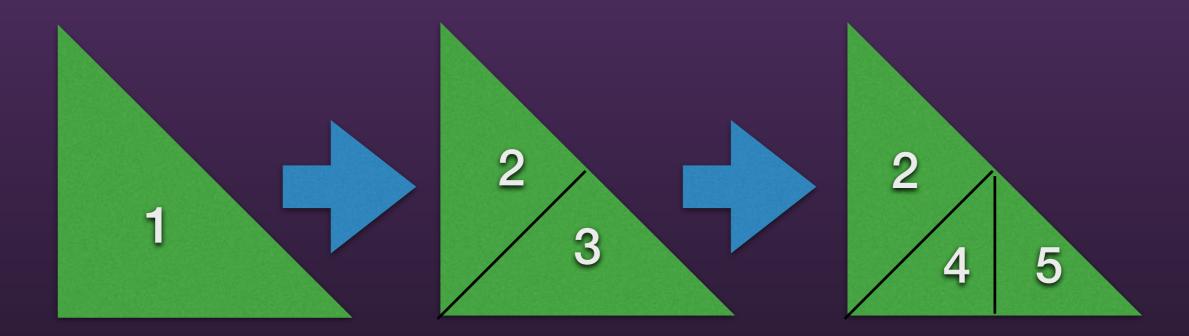
Problem

Connecting different resolutions leaves gaps



Triangle Binary Trees

- Kind of like quad-tree / binary tree hybrid
- Recursively split triangles



What's Next

• Implement binary triangle trees