Reconstruction of Voxels from Sensor Data

Geometric Modeling COS 598d Fall 2000



- Voxels = uniform, orthogonal grid
 - Binary (empty/full)
 - $\begin{array}{l} Float: density / color / distance to surface, etc. \\ O^{th} \ (nearest) \ vs. \ 1^{st} \ order \ (tri-linear) \ interpolation \end{array}$
 - Can be RLE'd
- Octrees = hierarchical space subdivision cube nodes: black/ white/ gray (split 1-to-8)





















