

Solid Modeling Representations

- · Voxels
- Quadtrees & Octrees
- Binary space partitions
- · Constructive solid geometry

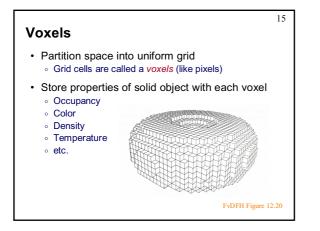
Solid Modeling Representations

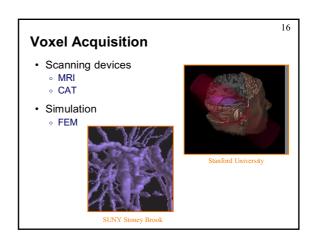
14

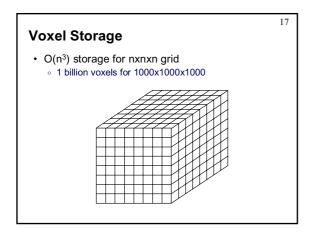
Voxels

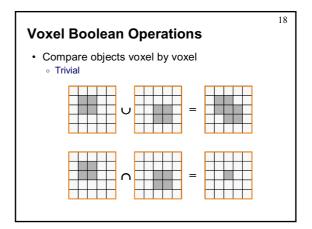
13

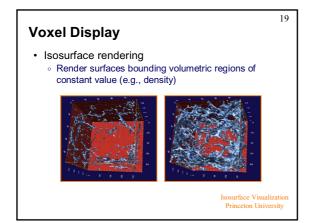
- Quadtrees & Octrees
- · Binary space partitions
- · Constructive solid geometry

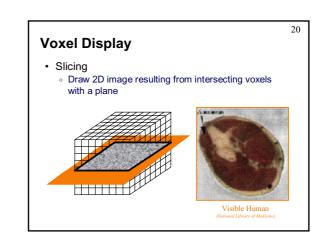


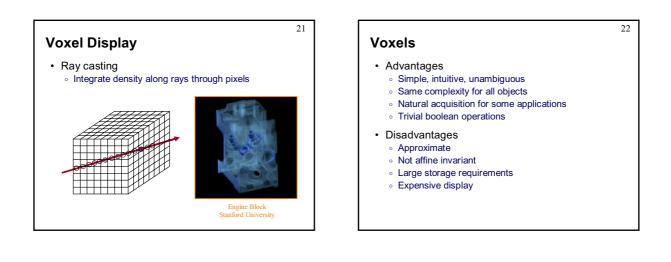


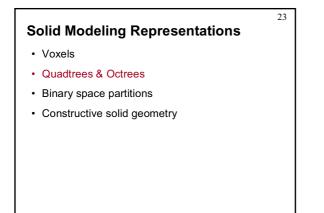


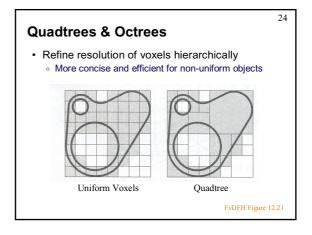


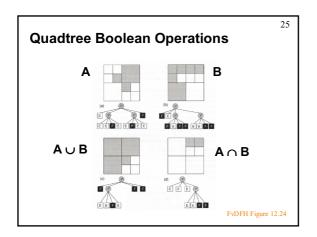


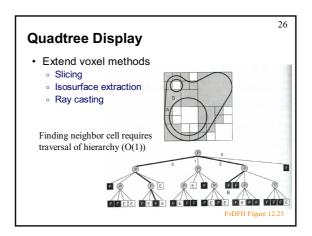








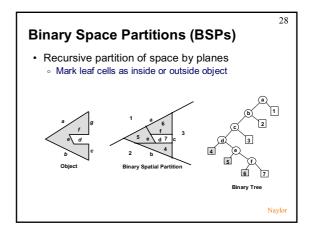


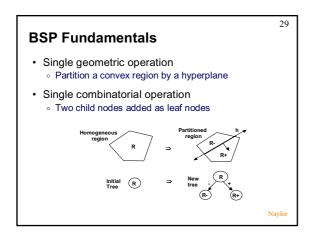


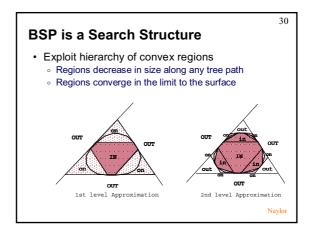
Solid Modeling Representations

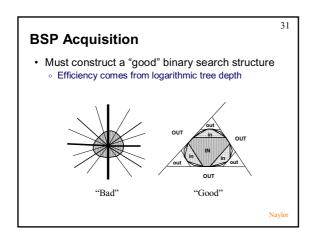
27

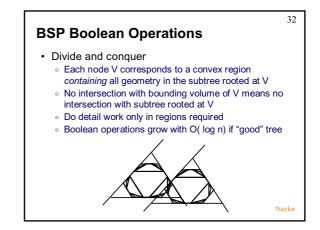
- · Voxels
- Quadtrees & Octrees
- · Binary space partitions
- · Constructive solid geometry

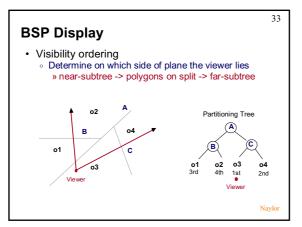


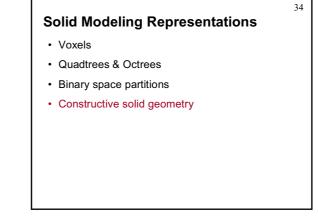


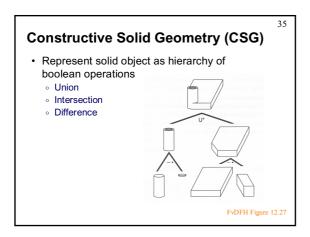


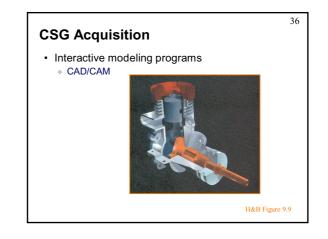


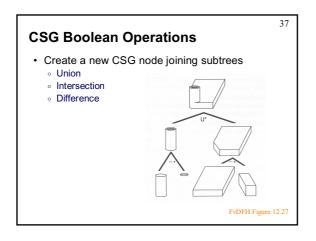


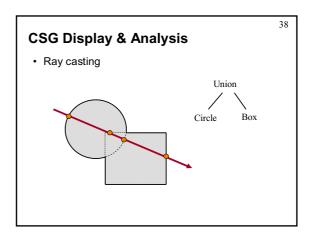












Summary				39
	Voxels	Octree	BSP	CSG
Accurate	No	No	Some	Some
Concise	No	No	No	Yes
Affine invariant	No	No	Yes	Yes
Easy acquisition	Some	Some	No	Some
Guaranteed validity	Yes	Yes	Yes	No
Efficient boolean operations	Yes	Yes	Yes	Yes
Efficient display	No	No	Yes	No

