

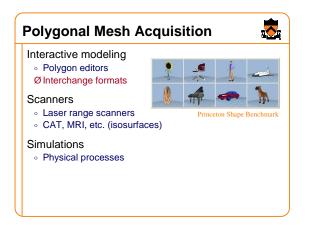
## Outline

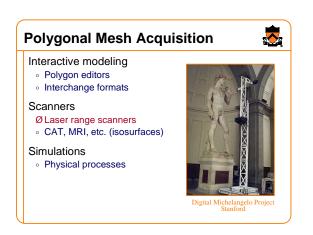
Acquisition Processing

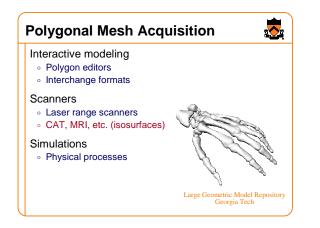
Representation

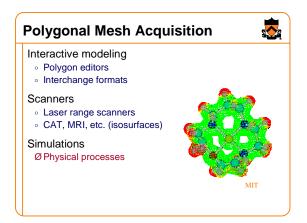
## Outline

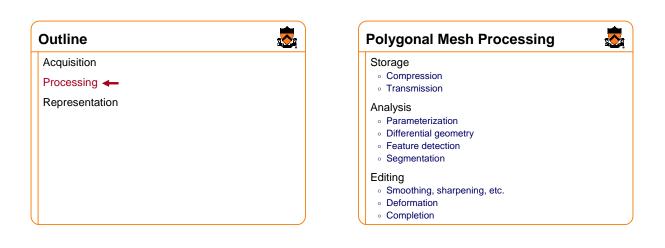
## 2 **Polygonal Mesh Acquisition Polygonal Mesh Acquisition** Interactive modeling Interactive modeling • Polygon editors Ø Polygon editors Interchange formats Interchange formats Scanners Scanners • Laser range scanners • Laser range scanners · CAT, MRI, etc. (isosurfaces) • CAT, MRI, etc. (isosurfaces) Simulations Simulations • Physical processes Physical processes

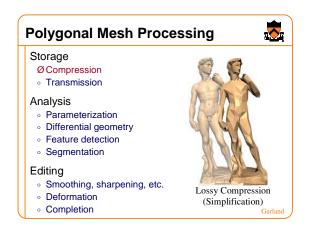


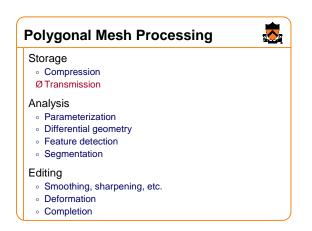


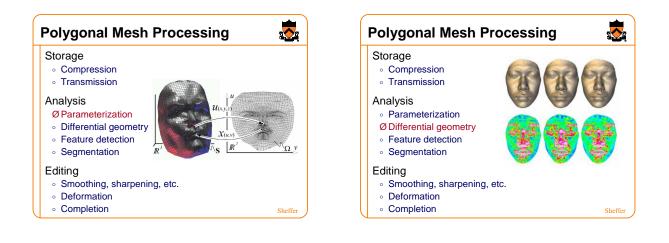


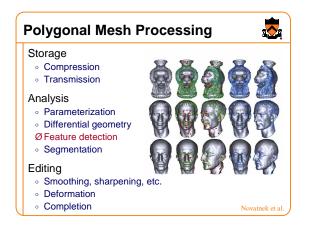


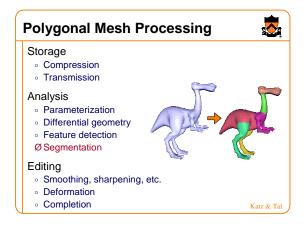


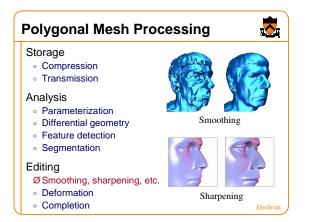


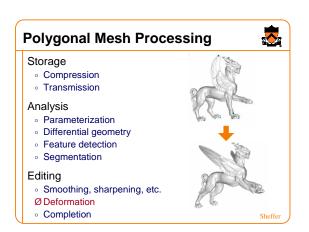


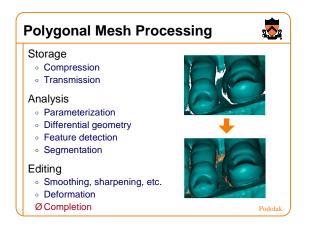


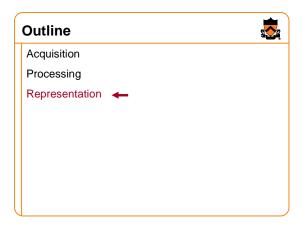


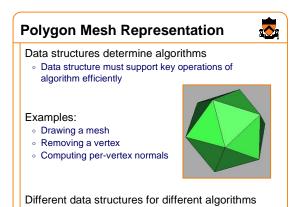


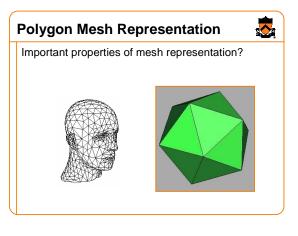


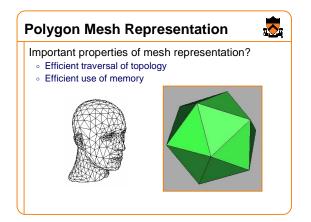


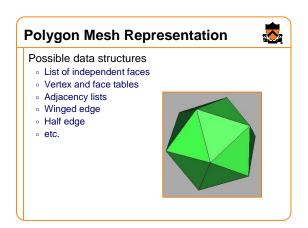


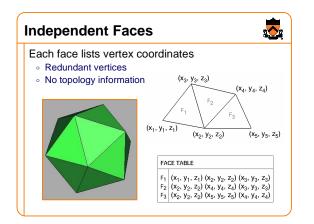


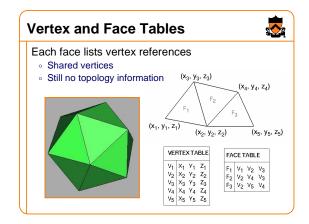


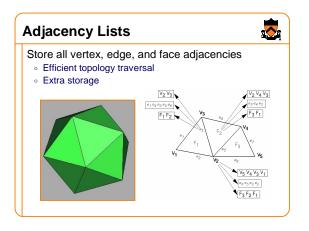


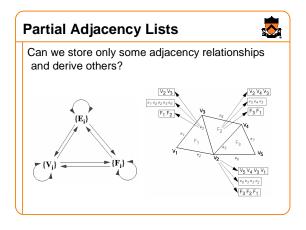


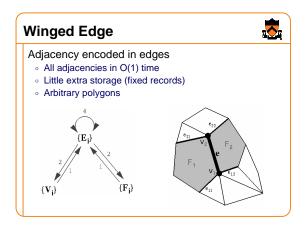


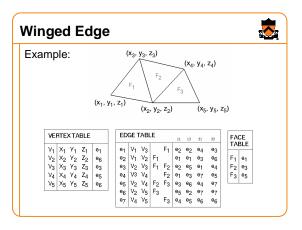










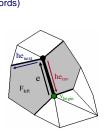


## Half Edge

Adjacency encoded in edges • All adjacencies in O(1) time

- Little extra storage (fixed records)
- Arbitrary polygons

Similar to winged-edge, except adjacency encoded in half-edges



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