Creating & Processing 3D Geometry Marie-Paule Cani

1. Representations

- Discrete models: points, meshes, voxels
- Smooth boundary: Parametric & Subdivision surfaces
- Smooth volume: Implicit surfaces
- 2. Geometry processing
 - Smoothing, simplification, parameterization
- 3. Creating geometry
 - Reconstruction
 - Interactive modeling, sculpting, sketching





















































































- Interactive techniques
 - Sculpting versus sketching metaphors
 - Interactive deformations, constant volume
- General method for real-time rendering?
- · Levels of details
 - Extend subdivision to multi-resolution
 - Adaptive topology for the skeleton ?
- Texture mapping?