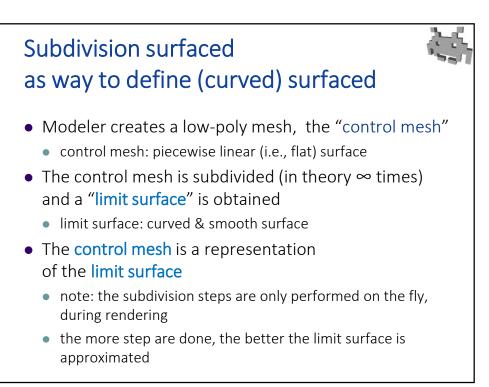


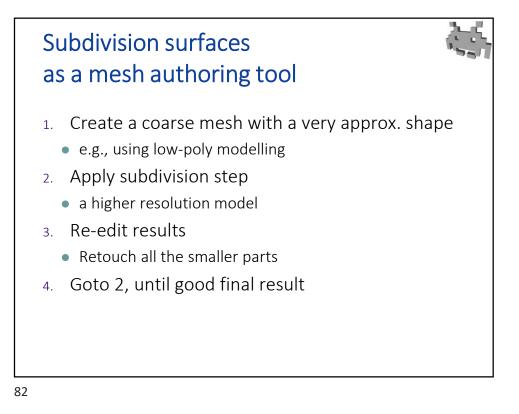
Subdivision surfaces as a tool...
...to encode smooth surfaces
Idea: we encode the control mesh to represent the limit surface
use in games: rendering (now, rare – but popular around 2015)

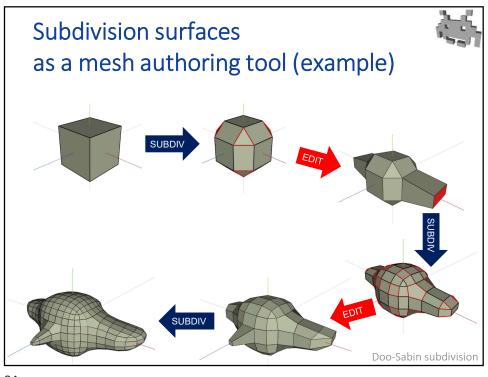
keep control mesh in GPU ram
let 1-3 subdivision steps happen during rendering

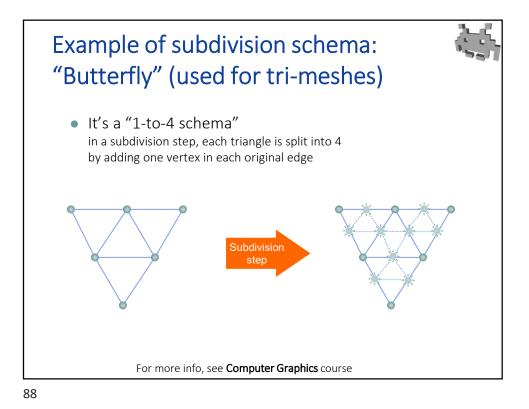
...to author 3D meshes

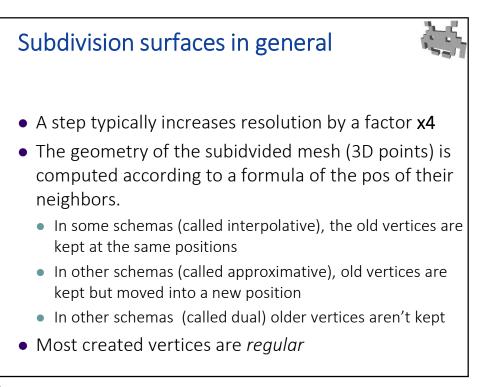
idea: alternate (low-poly) editing and subdivisions steps
at first steps: edit global shape
at last steps: edit minute details
use in games: during asset creation, by artists

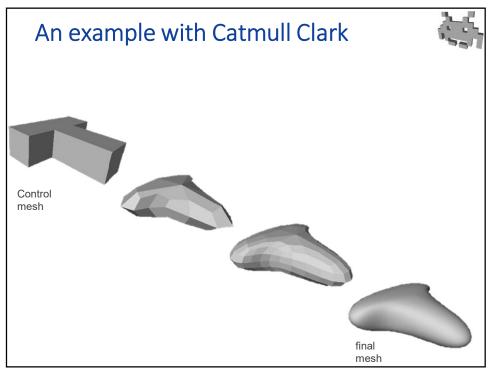


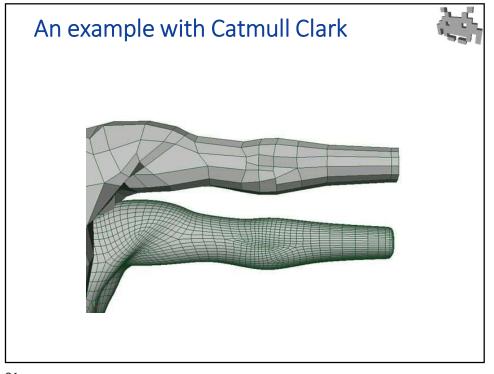


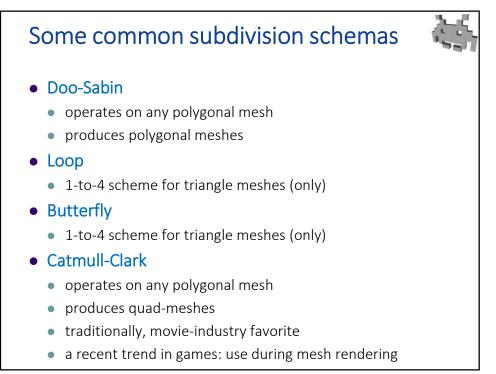


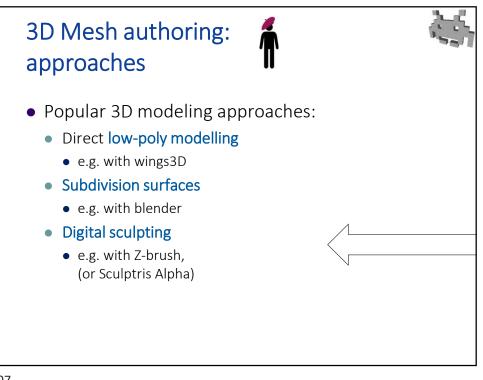






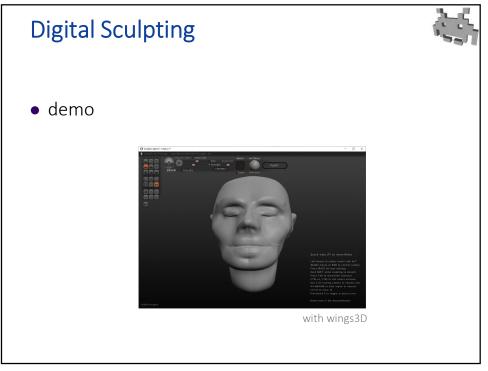


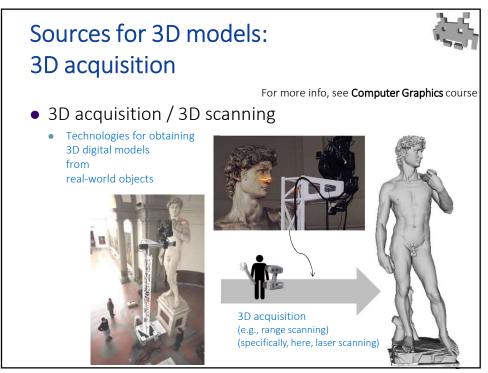


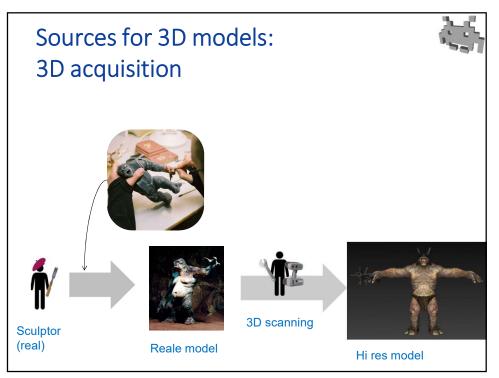


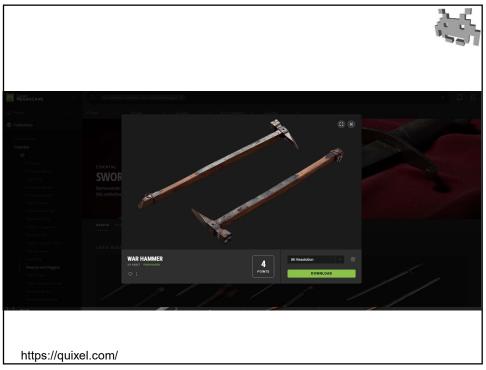
97



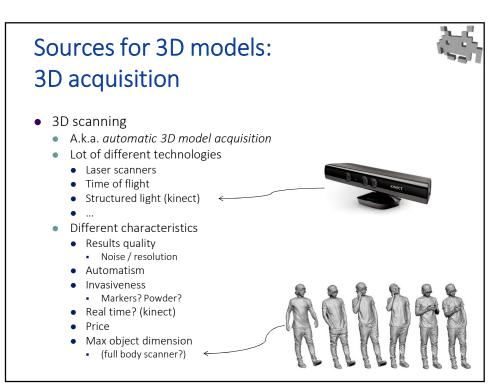


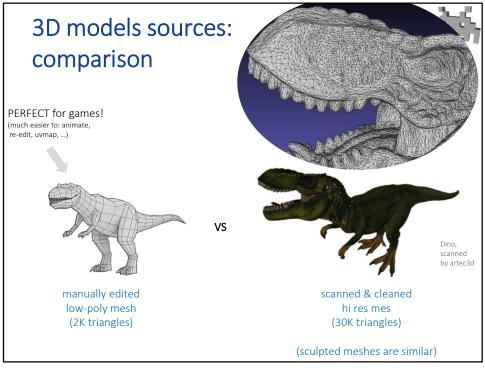


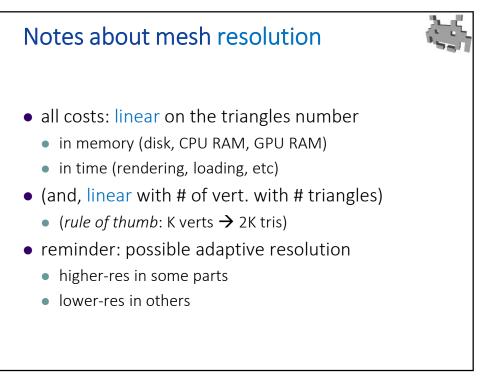


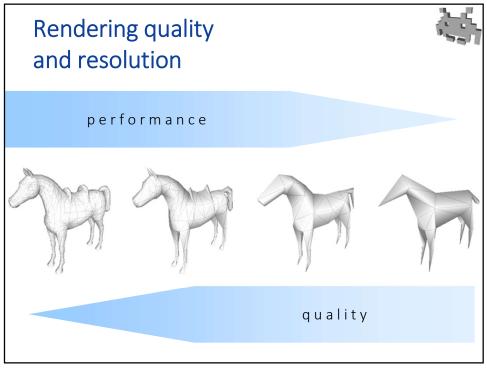


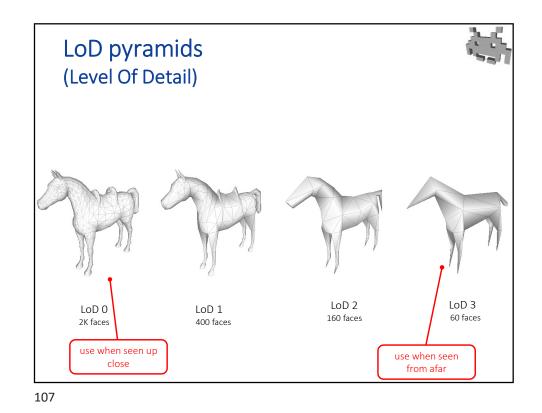




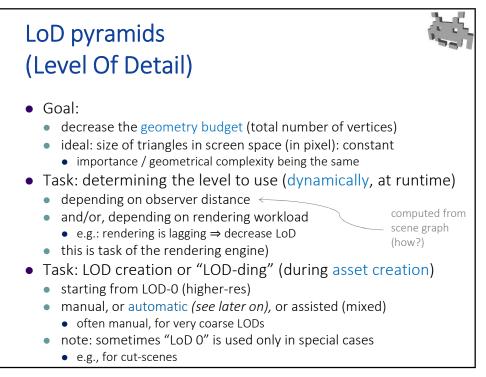


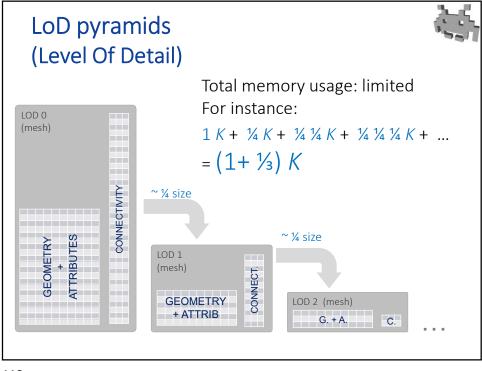




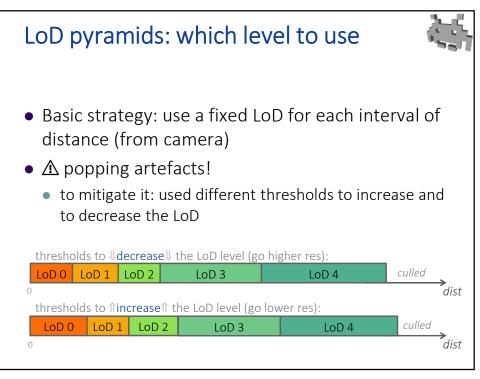


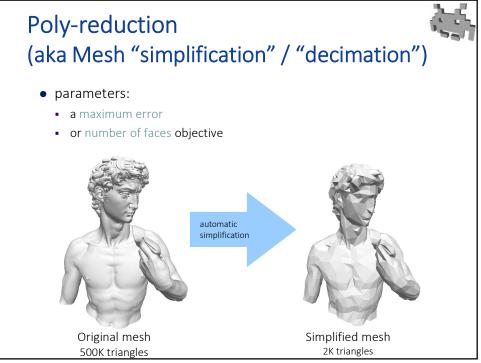
LoD pyramids (Level Of Detail)

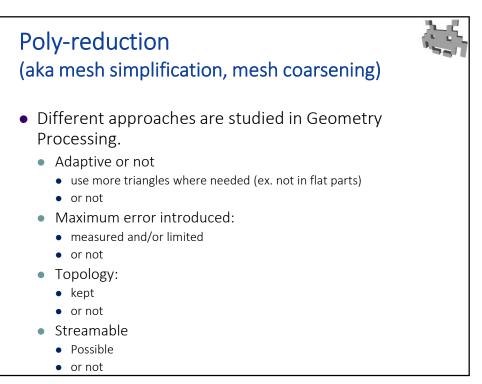


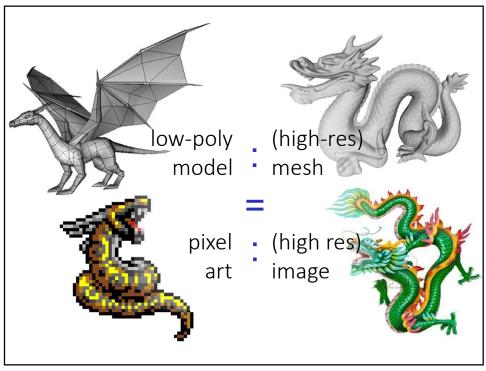


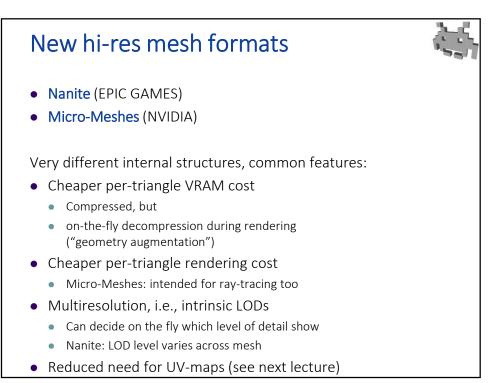




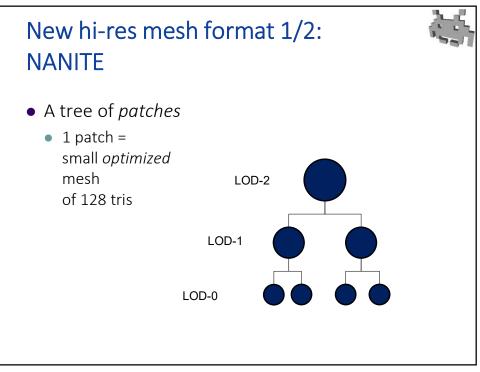


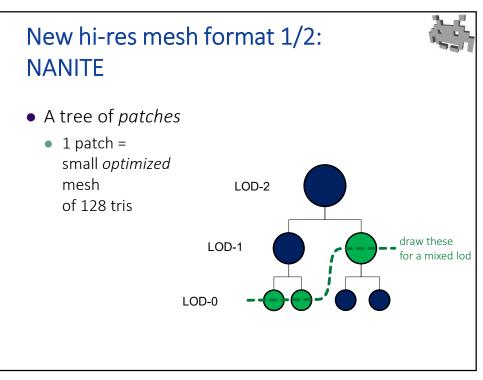


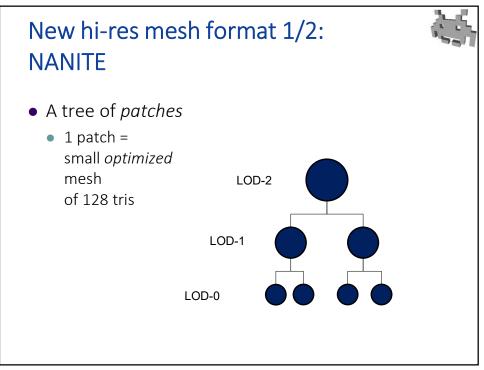


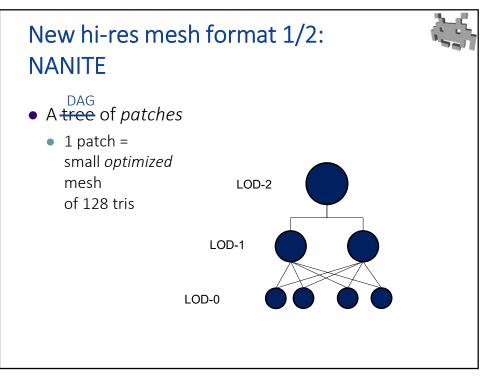


116









120

