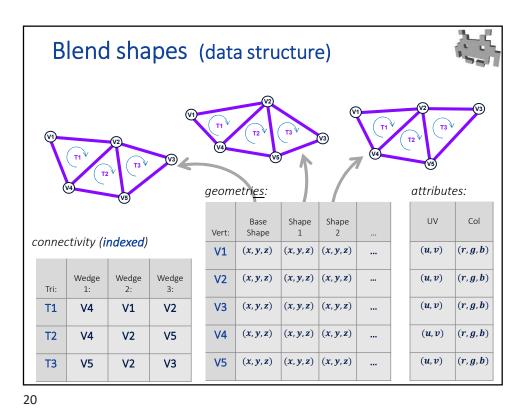
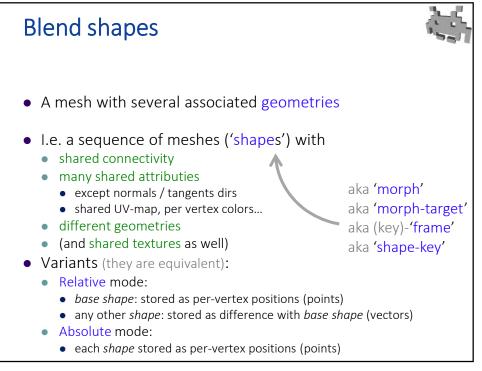
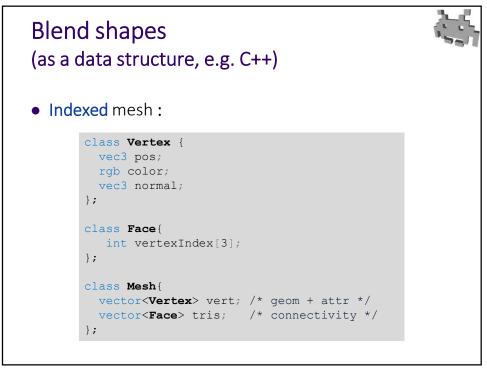


19



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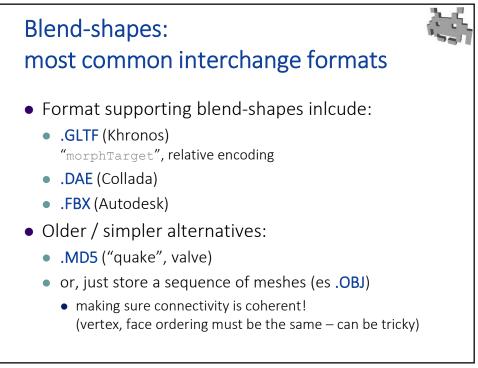


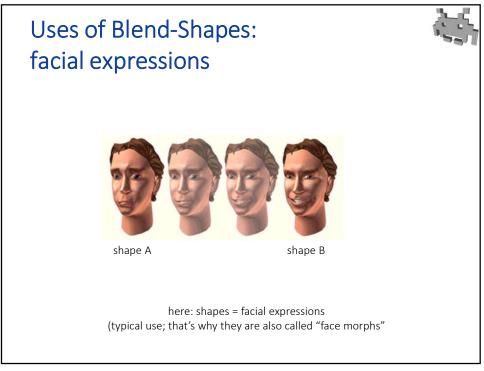
```
Blend shapes
(as a data structure, e.g. C++)

• Blend-shape:

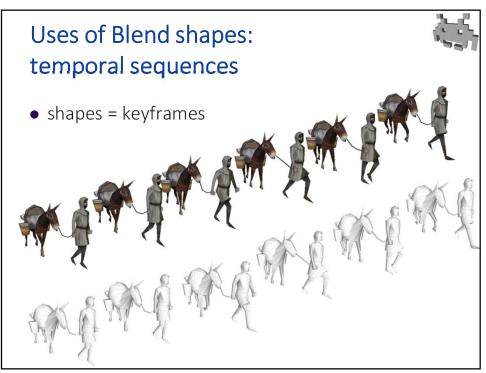
class Vertex {
    vec3 pos [ N_SHAPES ] ;
    rgb color;
    vec3 normal [ N_SHAPES ] ;
    ;;
    class Face{
        int vertexIndex[3];
    };

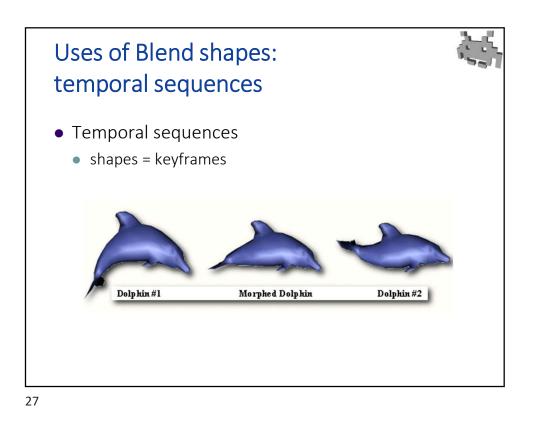
    class Mesh{
        vector<Vertex> vert; /* geom + attr */
        vector<Face> tris; /* connectivity */
    };
```

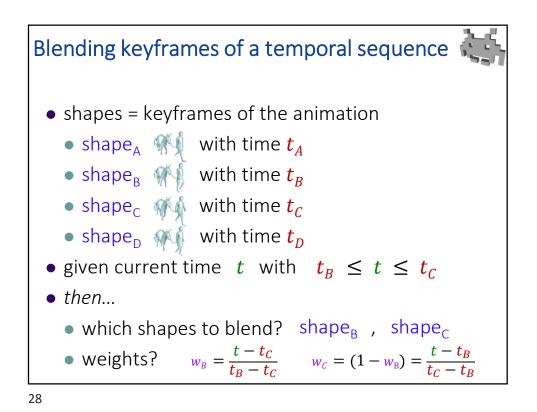


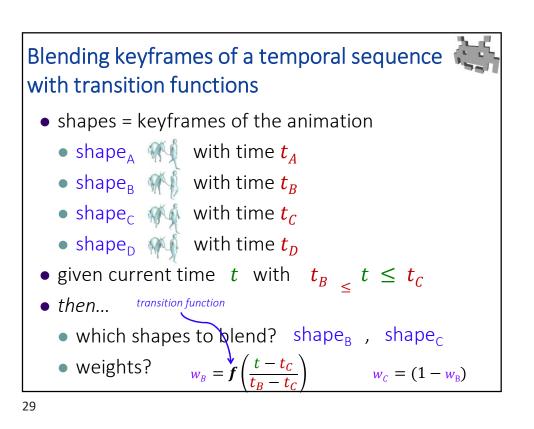


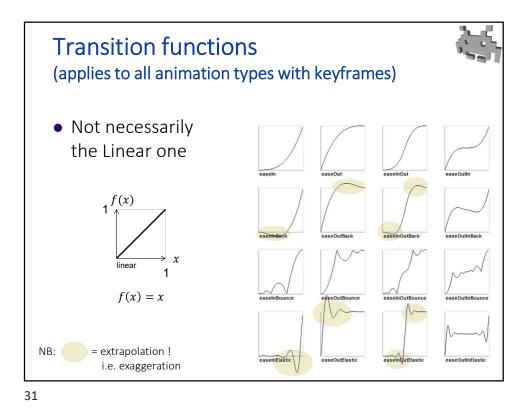
25

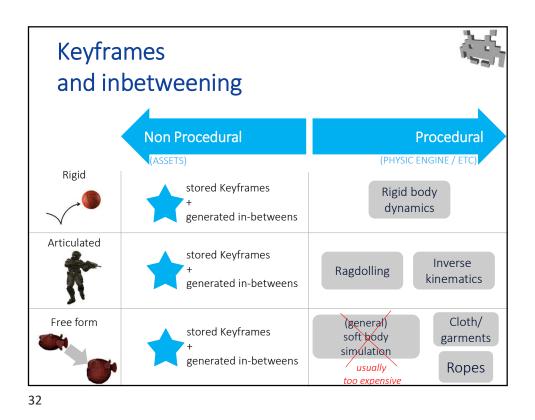


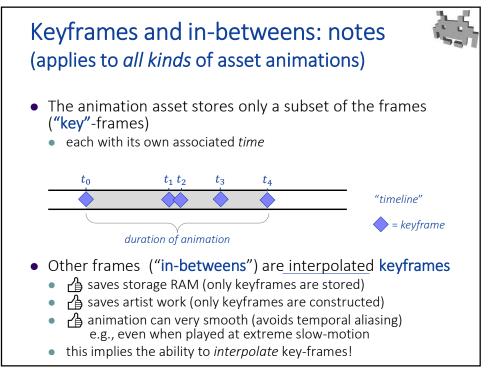


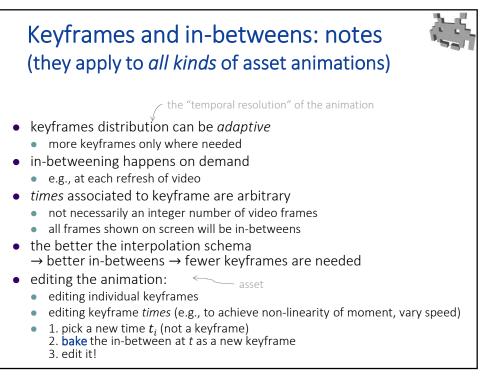


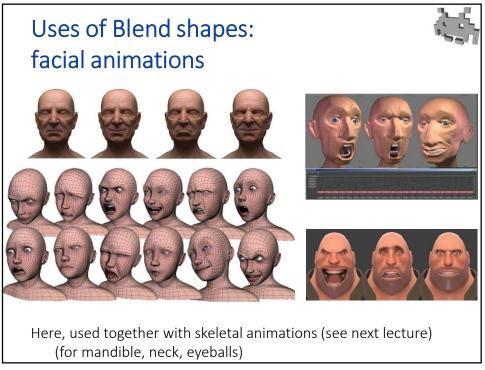


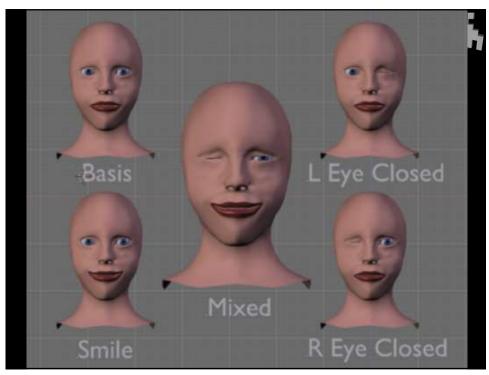




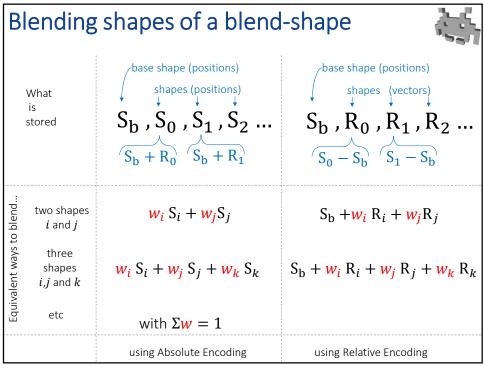


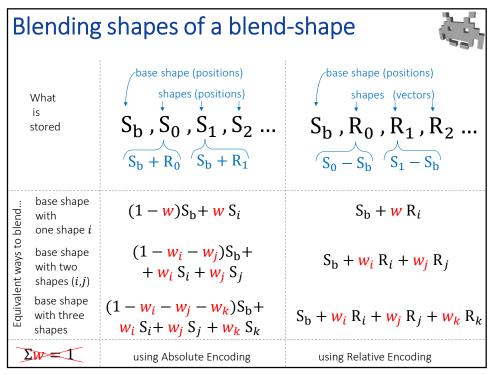


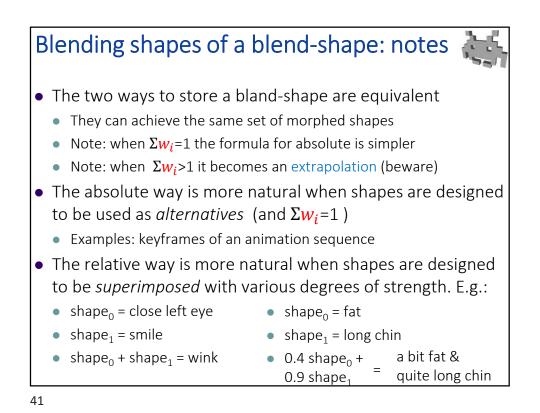




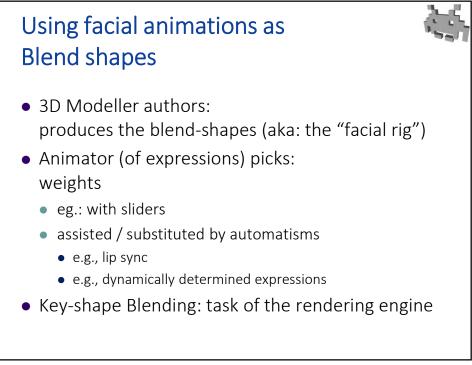
38

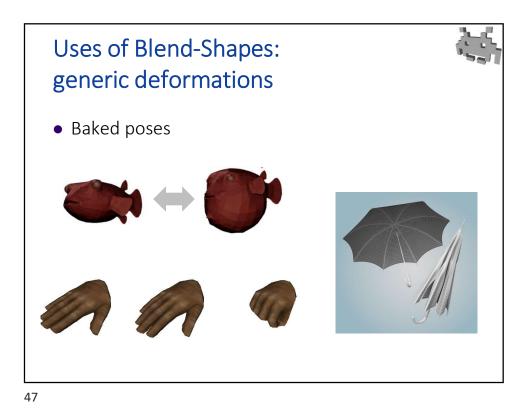






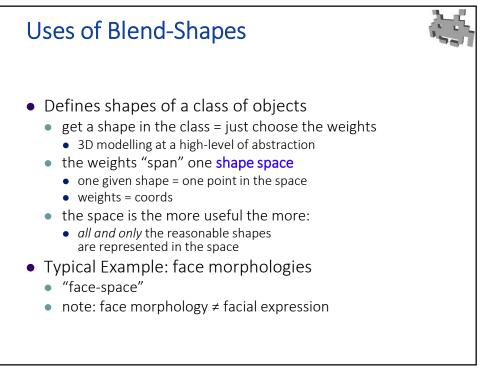


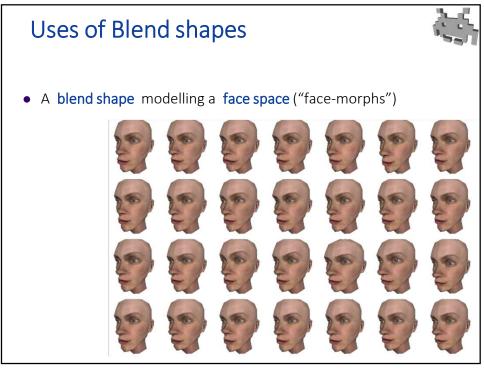




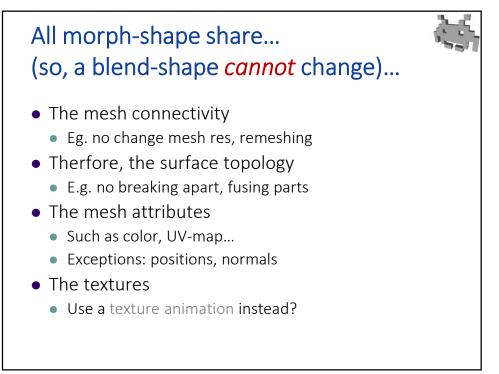
Uses of Blend-Shapes: variants of one given object • mixable!

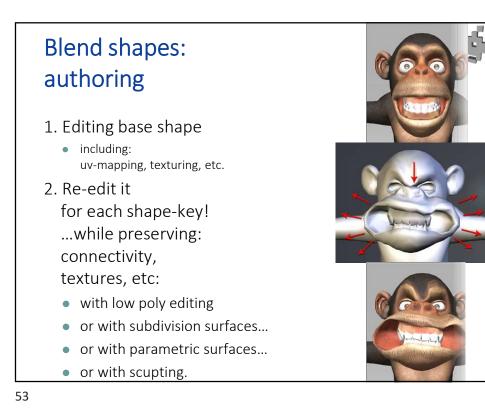






51





Blend shapes: authoring Handbook for blend-shape based STOP STARING face animation: "Stop Staring" (3d edition) Jason Osipa • Covers: style, expression... • Non technical JASON OSIPA (high level) Not about specific tools e.g. Blender, Maya

