

More on 3D scene

- Animation
- Interaction
- Complex shape modeling
- Complex material modeling
- More on lights
- More on cameras

Animation

- Introducing time component
- Types:
 - Environment: phenomena and effects
 - Character: face and body animation
- Approaches:
 - Manual
 - Procedural
 - Phenomenological models
 - Physics simulation

Animation tools

- Particles
- Meshs: deformation of vertices
 - Blending and morphing (RTR 4.4, 4.5)
- Voxels
- Splines
- Interpolation

Manual animation

Procedural animation

- Physics:
 - Fluid simulation
 - Static body and collision
 - Rigid body and collision
 - Kinematics and inverse kinematics
 - Cloth, hair

Interaction

- HCI

Complex shape modeling

- Alternative shape representations
- Procedural approaches (noise)
- Scanning, photogrammetry, measuring

Complex material modeling

- Physically based scattering functions
- PBR textures

More on lights

- Environment: sun and sky
- Area lights and shadow
- Light distributions

More on cameras

- DOF and lenses
- Camera effects
- Motion blur
- exposure