9: The Bullet physics engine

Representing rotations

Quaternions

- Represent rotations and orientation in 3D
- ► Do not suffer from gimbal lock
- ► More compact than matrices
- Can interpolate between them
- http://www.opengl-tutorial.org/ intermediate-tutorials/ tutorial-17-quaternions/

Bullet

Bullet

We are going to:

- Download the Bullet source code from http://bulletphysics.org/
- ▶ Compile it
- ► Look at the demo application
- ► Integrate Bullet with our OpenGL application