

"Mouse-Look" Mode*

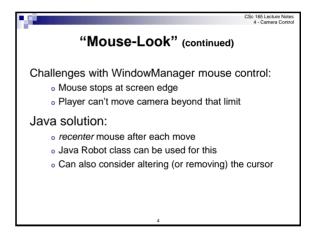
"Mouse-look" == using mouse to control camera orientation (introduced in "Quake" c. 1996)

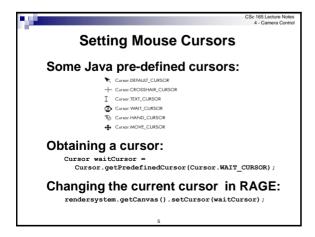
Two methods of obtaining mouse moves:

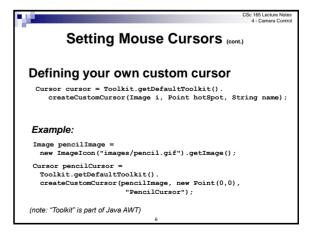
o Input Manager axis devices
o Window Manager mouse listener routines

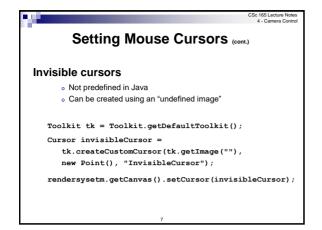
AWT MouseMoved, MouseDragged, etc.

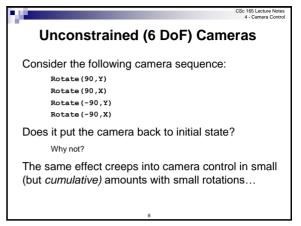
* also known as "Free-Look" mode











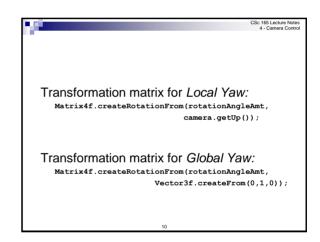
Constrained Cameras

6 DoF "flight": pitch + yaw introduces roll

• Appropriate for "flight simulators" or "spaceships"

• Not appropriate for ground-based FPS games (looking around shouldn't cause roll)

Control by using local pitch, but global yaw



The vs. 3P Cameras

First-Person (1P) Cameras:

o Located at the player's "point of view"

o Player's loc/dir changed by manipulating camera

Gaming characteristics of 1P:

o Good for "local environment" feedback sounds
Heartbeat, breathing, footsteps, weapon sounds

o Provides limited view of surroundings
Things can "sneak up" (good for building suspense)

o Easier to "aim" in shooting games

