cisc3660 game programming fall 2012 lecture # II.1

topics:

• event handling

references:

- https://sites.google.com/site/blendergameprojects/,
 by Prof Tim Hickey, Brandeis University (http://www.cs.brandeis.edu/~tim)
- Blender Game Engine Overview, User Manual version 2.6 http://wiki.blender.org/index.php/Doc:2.6/Manual/Game_Engine

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rom http:	//wiki.blender.org/index.php/Doc:2.6/Manual/Game_Engine/Logic/Sensors)		
Actuator	Detects when a particular actuator receives an activation pulse		
Always	Gives a continuous output signal at regular intervals		
Collision	Detects collisions between objects or materials		
Delay	Delays output by a specified number of logic ticks		
Joystick	Detects movement of specified joystick controls		
Keyboard	Detects keyboard input		
Message	Detects either text messages or property values		
Mouse	Detects mouse events		
Near	Detects objects that move to within a specific distance of themselves		
Property	Detects changes in the properties of its owner object		
Radar	Detects objects that move to within a specific distance of themselves,		
	within an angle from an axis		
Random	Generates random pulses		
Ray	Shoots a ray in the direction of an axis and detects hits		
Touch	Detects when the object is in contact with another object		

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- advanced sensor options:
 - "true" level trigger causes the sensor to fire "true" pulses, to the attached controller(s)
 - "false" level trigger causes the sensor to fire "false" pulses, to the attached controller(s)
 - repeating trigger repeats pulse, based on defined frequency, in units of 60 Hz (every 60th of a second)

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 sample keyboard sensor 	r -
	👻 Keyboard 🗘 Keyboard 🔊 🔀
	Image: Street 0 Image: Street 0 Image: Street 0 Image: Street 0
	Key: All Keys
	First Modifier:
	Log Toggle
	Target •
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٠	types	of	actions:

(from http://wiki.blender.org/index.php/Doc:2.6/Manual/Game_Engine/Logic/Actuators)

Action	Handles armature actions.	
Camera	Has options to follow objects smoothly, primarily for camera objects.	
Constraint	Constraints are used to limit objects locations, distance, or rotation.	
Edit Object	Edits the objects mesh, adds objects, or destroys them.	
Filter 2D	Filters for special effects like sepia colors or blur.	
Game	Handles the entire game and can do things as restart, quit, load, and save	
Message	Sends messages, which can be received by other objects to activate them.	
Motion	Sets object into motion and/or rotation.	
Parent	Can set a parent to the object, or unparent it.	
Property	Manipulates the objects properties, like assigning, adding, or copying.	
Random	Creates random values which can be stored in properties.	
Scene	Manage the scenes in your .blend file. These can be used as levels.	
Sound	Used to play sounds in the game.	
State	Changes states of the object.	
Steering	Provides pathfinding options for the object.	
Visibility	Changes visibility of the object.	





