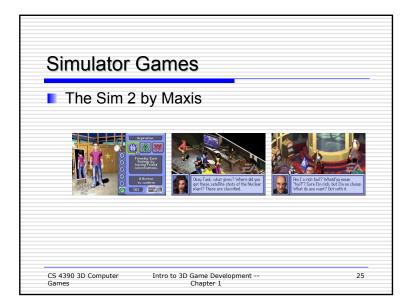
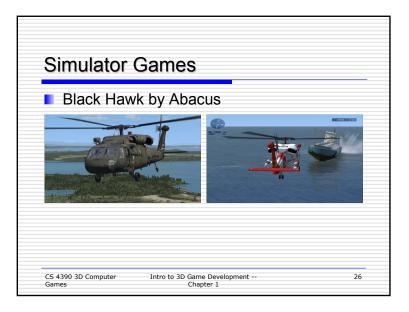
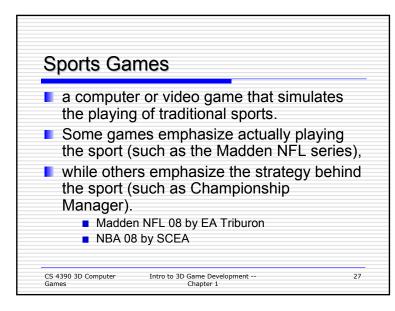
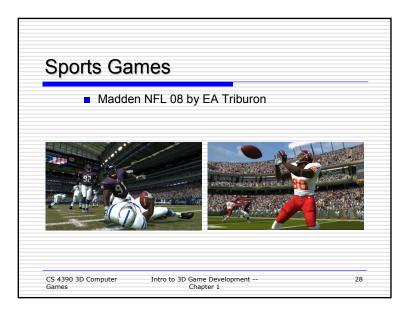


Simulato	r Games	
and strate For exam	at contains a mixture of skill, c gy to simulate an aspect of rea ole: <i>MS Flight Simulator, SimC</i> n and <i>The Sims</i> .	ality.
the real w	ulation games are intended to orld; others are intended to sin orld; still others are designed t	nulate a
	Sim 2 by Maxis	
Black	Hawk by Abacus	
CS 4390 3D Computer Games	Intro to 3D Game Development Chapter 1	24

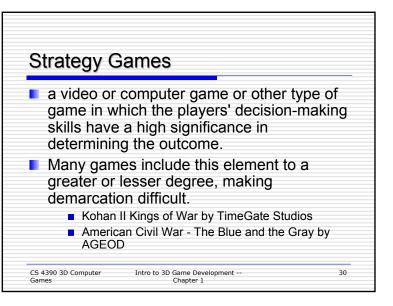




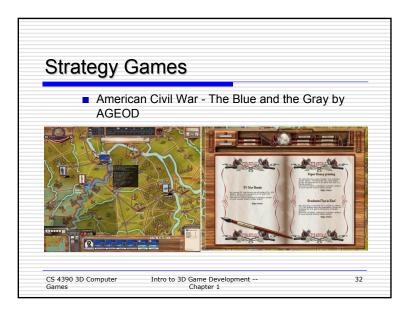


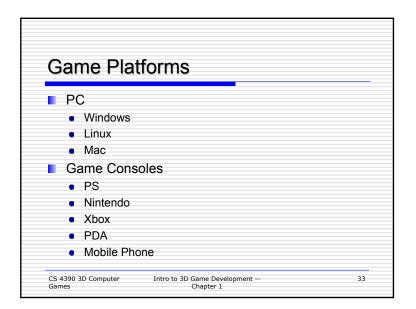


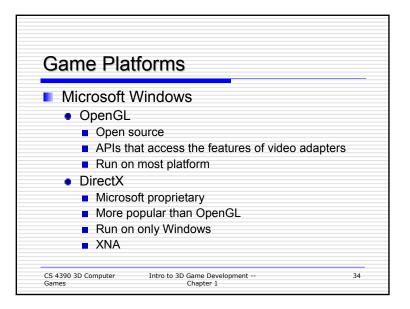




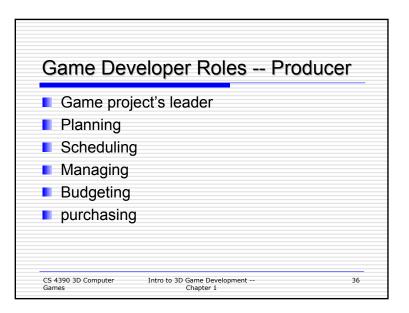


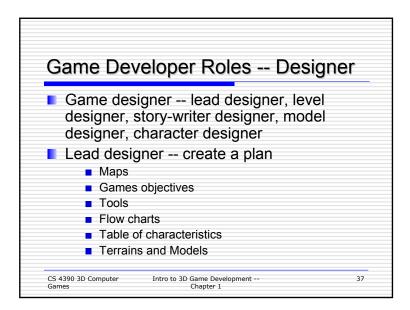


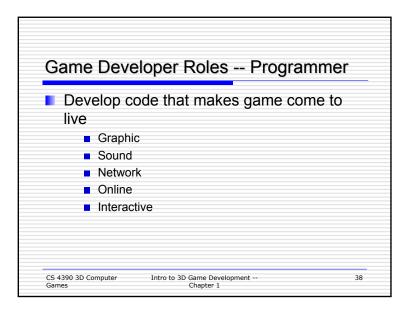


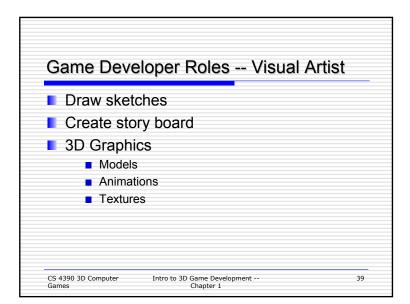


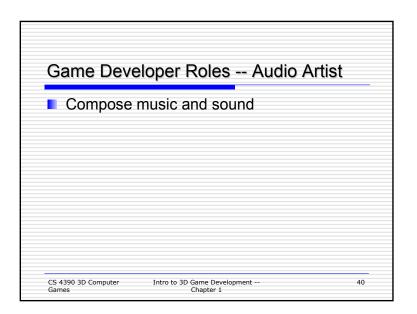


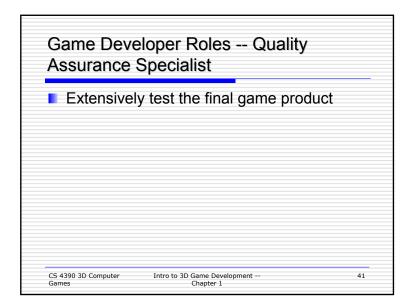


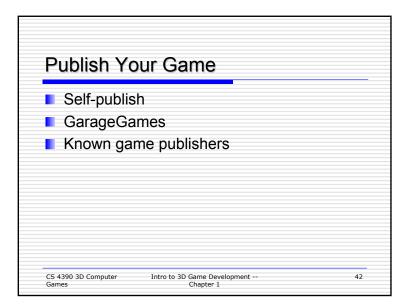


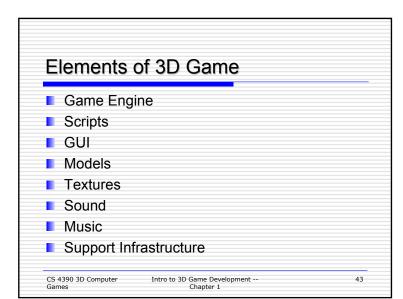


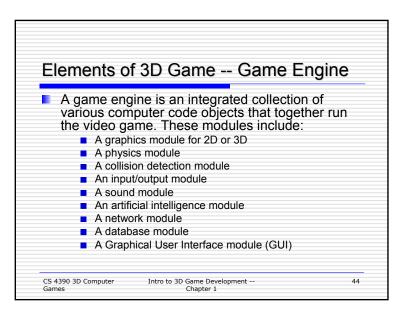


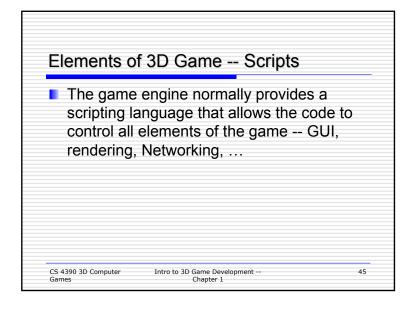


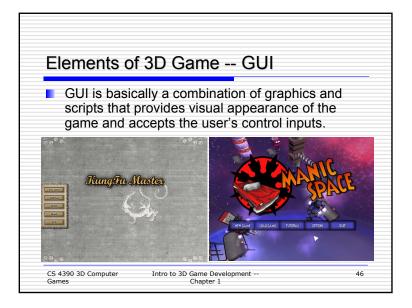


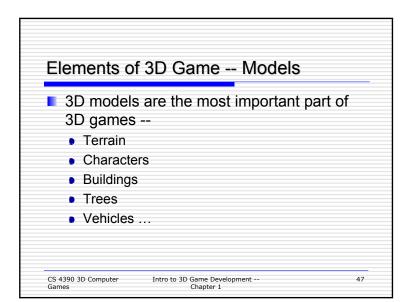


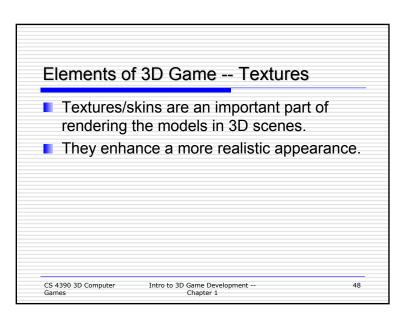


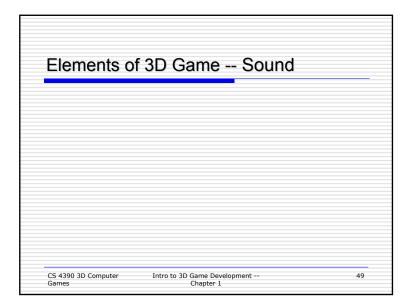


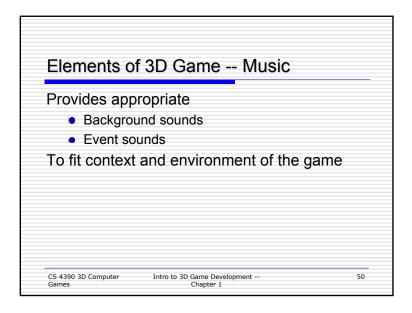


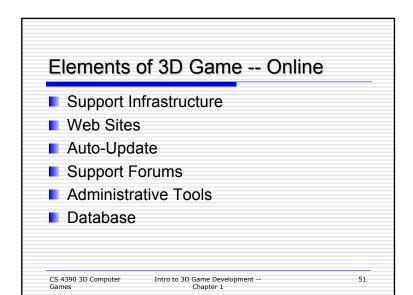


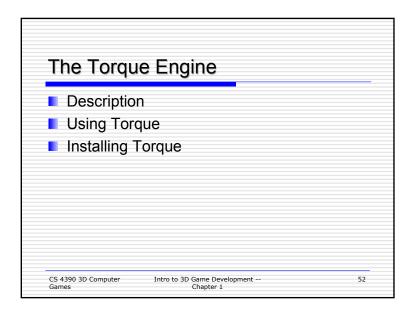


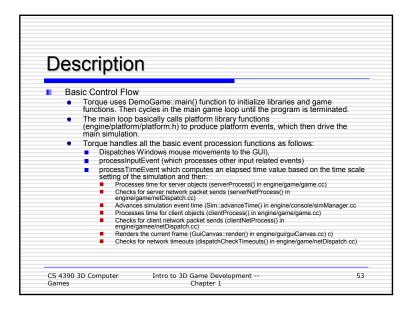


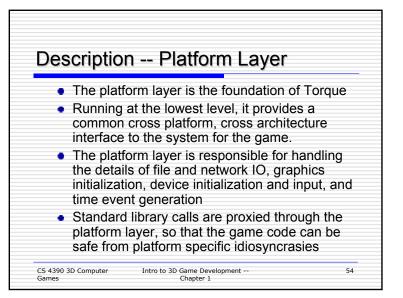


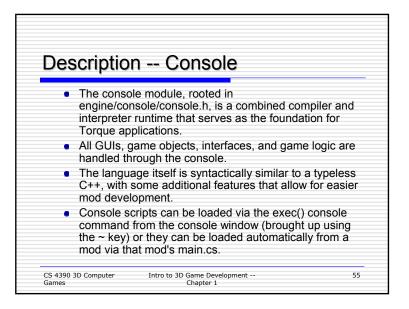


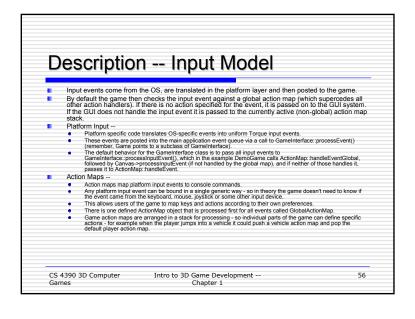


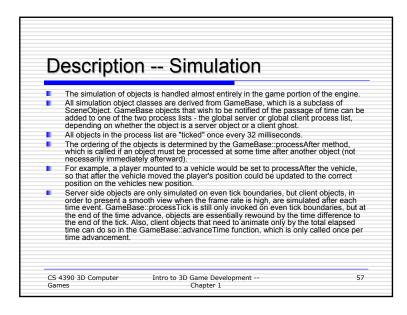


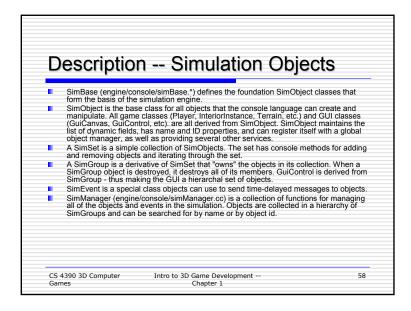


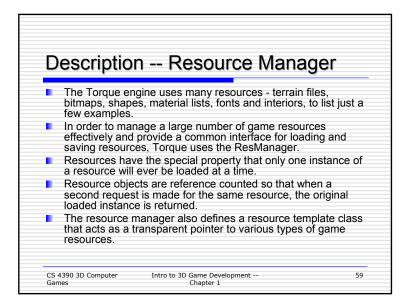




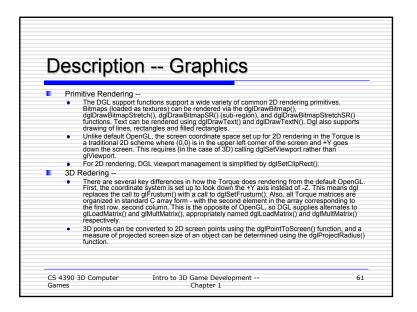


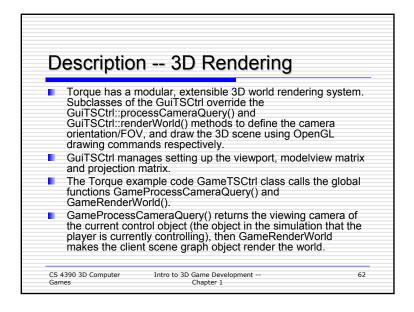


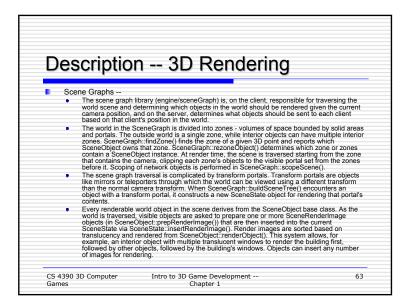




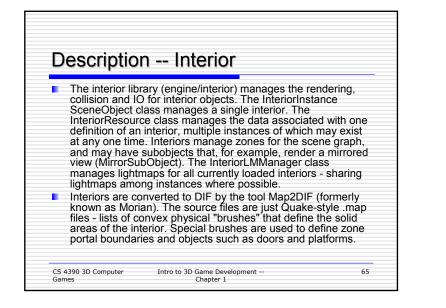
D	escription Graphics
	The Torque Engine does not implement its own graphics rasterization layer. OpenGL
	was chosen as the graphics API for the Torque to primarily for its cross-platform nature and ease-of-use. The Torque includes a utility library called DGL that extends OpenGL to support higher level primitives and resources, as well as performing texture management.
•	The platform layer is responsible for initializing the OpenGL state. For PlatformWin32 this can include loading a DLL that converts OpenGL calls to Direct3D (OpenGL2D3D.DLL).
•	DGL includes a texture manager (engine/dgl/gTexManager.*) that tracks the loading and unloading of all textures in the game. When the game requests a texture, it uses the TextureHandle class - which acts as a sort of special resource handle for textures in the game. Only one instance of a texture is ever loaded at once, and after load is handed off to OpenGL. When the game switches graphics modes or video devices, the Texture Manager can transparently reload and re-download all the game's textures.
•	Primitive Support • GFont - fonts in the Torque are alpha textures created by the platform layer from OS dependent outline fonts.
	 GBitmap - the Torque supports several bitmap file types - PNG, JPEG, GIF, BMP and the custom BMB format (an 8-bit color quantized texture format used to cut texture memory overhead).
	 MaterialList - a material list is a resource that manages a list of bitmaps. It is used for shapes and interiors that have more than one texture.

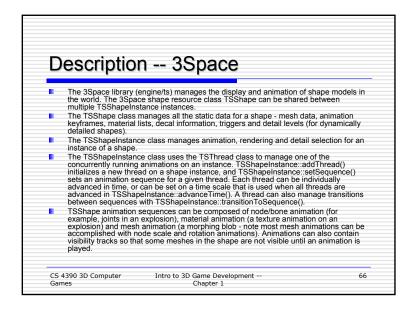


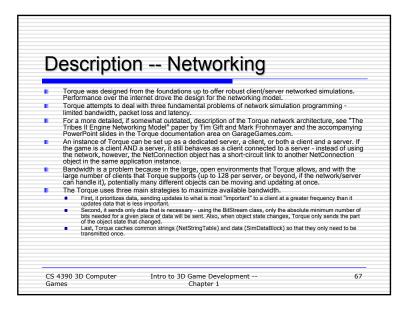


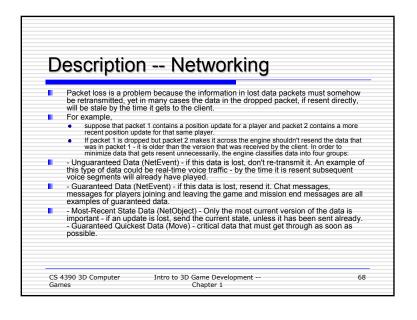


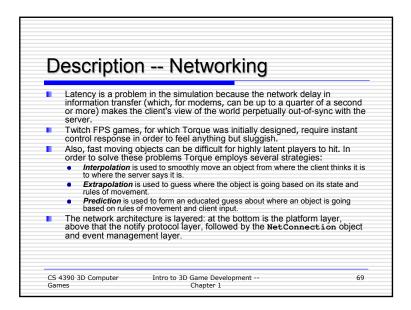
_	escription Terrain			
•	The terrain library (engine/terrain) is the home for objects that render the outside world, including instances of the Sky, TerrainBlock and WaterBlock classes.			
•	The Sky object renders the outside sky and cloud layers and maintains the visible distance and fog distance settings for the world. The sky also tracks vertical fog layers and installs them into the SceneGraph for rendering.			
:	TerrainBlock manages a single 256x256 infinitely repeating block of heightfield terrain.			
	Terrain heightfield data is stored and loaded using the TerrainFile resource class (Resource-TerrainFile-) so that a single terrain data file can be shared between server and client, when both are on the same execution instance. The TerrainRender static class is used by TerrainBlock instances for rendering. The TerrainRender::renderBlock() function renders the current repeating block of terrain.			
	The terrain is textured by software blending base material textures into new material textures and then mapping those across 16 or more terrain squares based on the distance from the square. Blender performs the blending of terrain textures and includes a MMX assembly version to speed the process (x86 architectures only).			
		The WaterBlock class manages a single block of water, which may or may not be infinitely repeating. Water is dynamically detailed based on distance, so nearby water is more highly tessellated. Though the surface of a water block is rectangular, the actual coverage of the water area can be set to seed fill from a point on the surface, allowing the water to fill a mountain crater, for example, without tesking outside the comer edges.		

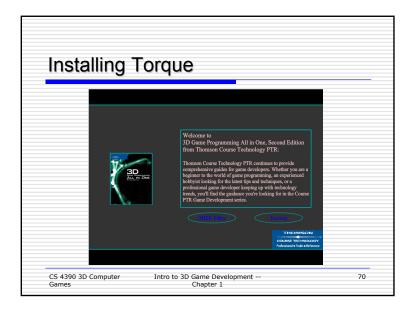




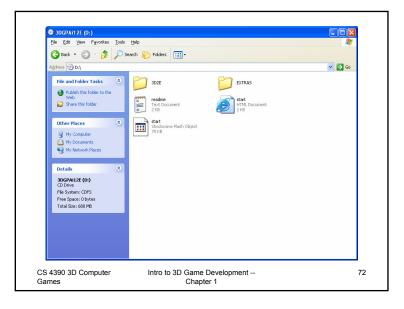




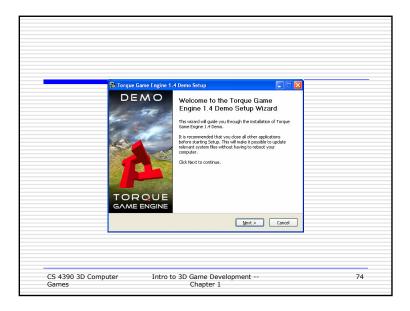


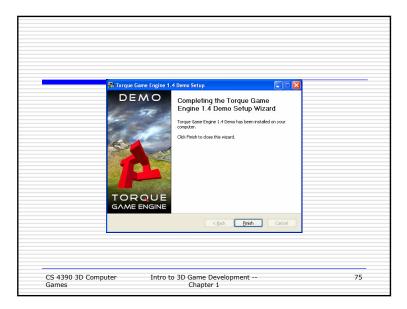












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Torque Game Engine Demo	<u>^</u>
Torque Game Engine Demo	
Welcome to the Torque Game Engine Demo Application.	
Overview	
GarageGames	
Torque Game Engine System Requirements	
o Win32	
o <u>Mar OS</u> o Linux	-
Evening the Application	
 <u>Command Line Arguments</u> 	
o Keybindage	
Overview	
This is a dense of the features available in the Torque Game Engine, an extremely affordable, full featured game engine technology from GarageGames com, Inc.	
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GarageGames	
Garage/Games com is a unique Internet publiching label for independent games and gamemakers. We are a band of professional gaming industry weterans committed to publiching truly or	rinal and spritter
titles on our own terms. Our mission? To provide the independent developer with tools, knowledge, co-compirators - whatever is needed to unleash the creative spirit and get great into	
games to market	
Torque Game Engine	
The Torque Game Engine (TGE) is the game engine that powers Three 2 developed by Dynamic: TGE is a full featured AAA title engine with the latest in scripting, grometry, particle eff testuring, as well as award winning molti-olarrer networking code. Check out the feature in for more details. For \$100 per programmer, you get the source to the engine of a major production of the source to the engine of a major production.	
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System Requirements	
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