

Surround-VR: The CAVE

A Cave Automatic Virtual Environment (better known by the recursive acronym CAVE) is an immersive virtual reality environment where projectors are directed to between three is an immersive virtual reality or con-and six of the walls of a room-sized cube. https://en.wikipedia.org/wiki/Cave_automatic_virtual_environment



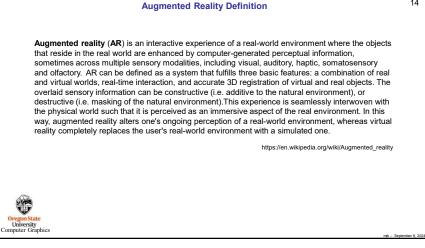




https://www.mechdyne.com

University Computer Graphics

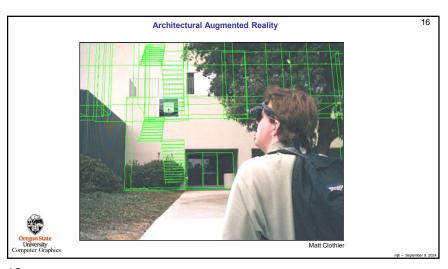
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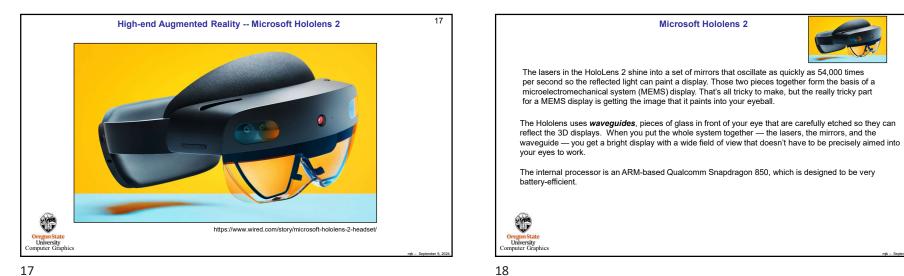


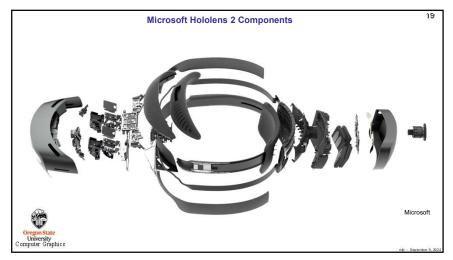
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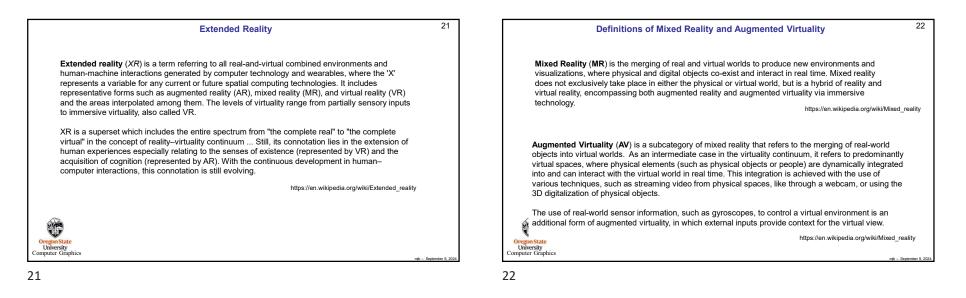








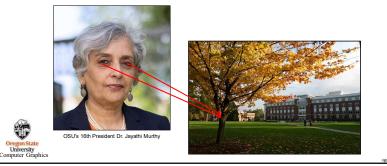


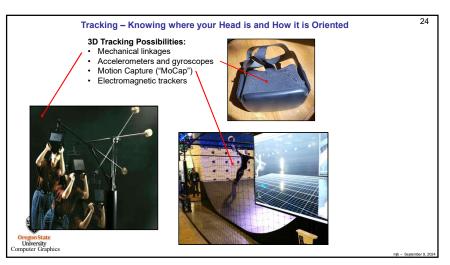


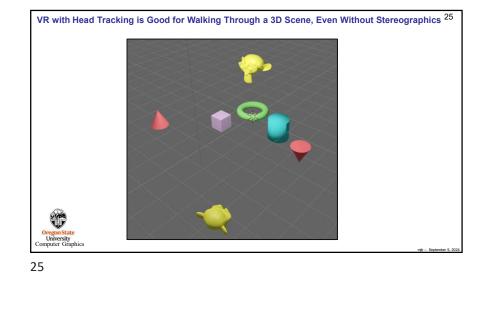


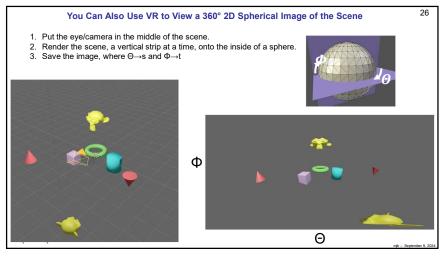
In everyday living, part of our perception of depth comes from the slight difference in how our two eyes see the world around us. This is known as *binocular vision*.

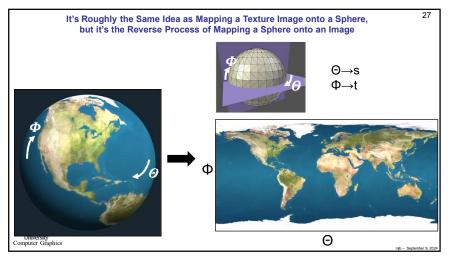
We care about this, and are discussing it, because stereo computer graphics can be a great help in decluttering a complex 3D scene. It can also enhance the feeling of being immersed in a movie.











	How to Create a 2D Spherical Image of a 3D Scene	28
[void DrawAndWriteSegments()	
	{ unsigned char array(3*PIXELS_PER_SEG*HEIGHT]; gN/export(0, 0, PIXELS_PER_SEG.HEIGHT); gN/arXMode(G_LPROJECTION); gl.coaldentity(); gl.coaldentity(); gl.Perspective(PHIDEG,ASPECT_Y_OVER_X,ZNEAR,ZFAR); int col = 0; // column in the full array for (int lookDeg = <90; lookDeg < 270; lookDeg < = PHIDEG)	
	{ glMatrixMode(GL_MODELVIEW); glLoadidentity(); float k = Sind(float)lookDeg) + EX; float k = 0.+ EY; float z = 0 EY; float z = 0 Cost(float)lookDeg) + EZ; gluLookAt(EX, EY, EZ, lx, ly, lz, 0., 1., 0.); glCalList(LidarList); glFlinit(); glFlinit();	
	gPixelStore(GL_PACK_ALIGNMENT, 1); gReadPixels(0, 0, PIXELS_PER_SEG, HEIGHT, GL_RGB, GL_UNSIGNED_BYTE, array);	
	<pre>for(int y = 0; y < HEIGHT; y++) {</pre>	
T	} ool += PIXELS_PER_SEG; }	
Oregon: Univer Computer	WriteArray((char ")"Middle.bmp", FullArray); }	b - September 9, 2024

