1 LOS - Intro to Modern Oren CAL vertex | Prinitive Simp Fragment Shader Brending & Rasterization Shuder were not Programmable in old GIV Pireline & ing 4 (ras "fixed function") A(from model view) Vertex Shuder Restonsion for transforming vertices into the Composition view Volume -each vertex shader execution was I vertex at a time, but 3 executions take flace at once GLSL to Process a whose triangle # version 330 core laract (location = 0) in rec3 Pos; at once cy uniform mat 4 mrp: Void main () { 3/ Position = MUP * recy (Pos 1); GALSL tragment Shuder desermines he later for each es. # version 330 core luxout (locution = 0) out rec4 color; fragment/Pixel of the void main () { triunste 60/01 = (1,0,0,1); 11 res Russen'zution - generates fixels/ fragments of each triangle -> Rasterization Algs

+ the clu complises the shades a runtime (using openent) so that the sheeters are oftherized for our farticular hardware Compile Shusers (Cose @ 37:13 > Vertex Buffer Object -> Vertex Shuder VBO (vertex buffer object) GL-POINTS CPC -> Slow flout positions[] = { f, f, f, f, f, f, --- exc } Columna buffer; 91 Gen Buffers (1, Abuffer) OI BIRD BUFFER (GL_ARRAY_BUFFER, buffer) -) after this, all of will ase 91 Buffer Data (GL_ARRAY_BVFFER, buffer Size Of (Positions), Posi Frons, GIL-STATIC_DRAW); Ly how to tell Openbol how to interprete me data in buffer for draving? Ly how to acquelly send to vertex shader?

will get the location of "Pos" from vertex shuder Lyme set this to zero Column Pos = 91 Cres Attribute Location (Program, "pos") gi Enable Vertex Attrib Array (Pos); - indicate that Pos 91 Vertex Attib Pointer (Pos, -) start at Pos is when he data to draw is. -> each stem has 3 flouts GL-FLOAT uses 'buffer' since we binded it previously 0, (4(vor3*)0): Rendering 9/ Clear 31 Vse Program (program); 91 Draw Arrays (Gol-POINTS, -> draw Points -> Starting at 0 num-Vertres) -> # Points 91 Swar Buffers (); Vertex Array Object - Stores Connection between Vertex Buffer Objects (V130;) vertex attributes (mon @ 1:04;03) Lyw/ Code (