Create object vertex attributes data
☐ If data is interleaved ☐ Create array of all vertex attributes ☐ If data is non-interleaved ☐ Create array of vertex positions ☐ [Optional] Create array of vertex normal ☐ [Optional] Create array of vertex texture coordinates ☐ [Optional] Create array(s) of additional vertex attributes ☐ [Optional] Create array of indices to connect vertices in order
Setup the Vertex Array Object (VAO)
☐ Generate VAO descriptor using glGenVertexArrays() ☐ Bind vaod to be active using glBindVertexArray()
Setup the Vertex Buffer Object (VBO)
 □ Generate VBO descriptor using glGenBuffers() □ Bind vbod to GL_ARRAY_BUFFER using glBindBuffer() □ If vertex data is interleaved □ Send data to GPU using glBufferData() □ If vertex data is non-interleaved □ Allocate space to GPU using glBufferData() but do not send any data □ Send each individual array to the GPU using glBufferSubData() - set offset and size appropriately
[Optional] Setup the Index Buffer Object (IBO)
 □ Generate IBO descriptor using glGenBuffers() □ Bind ibod to GL_ELEMENT_ARRAY_BUFFER using glBindBuffer() □ Send index array to GPU using glBufferData()
When rendering the object
 □ Bind vaod using glBindVertexArray() □ If object is dynamic and animated □ Bind vbod using glBindBuffer() □ Send updated data to GPU using glBufferSubData() according to interleaved or non interleaved data □ If using an IBO □ Render object using glDrawElements() □ If not using an IBO

☐ Render object using glDrawArrays()

- Vertex Array Objects	(VAO), Ve	rtex Buffer	Objects	(VBO)	, Index Buffer	Objects	(IBO)	Checklist
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When cleaning up memory

Delete the VAO using glDeleteVertexArrays()
Delete the VBO using glDeleteBuffers()
If using an IBO
☐ Delete the IBO using glDeleteBuffers()