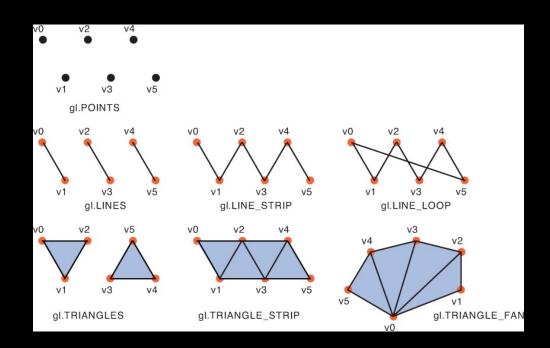
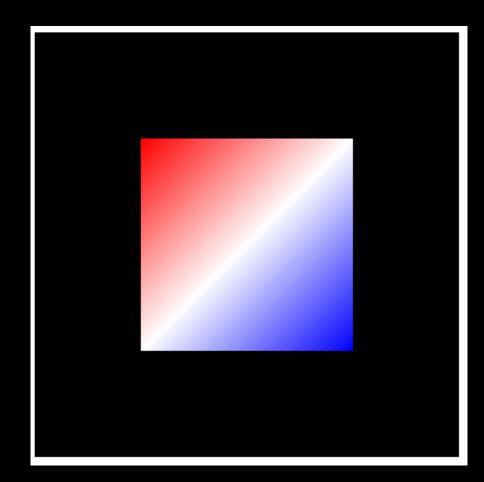


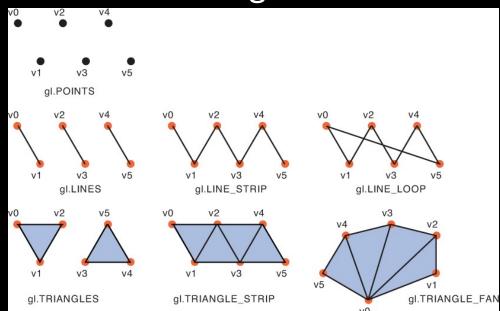
What We Want to Do

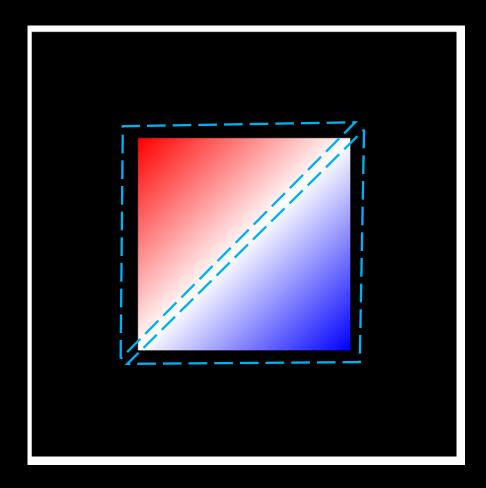
- Draw a rectangle
- Why is this hard? Any difference to draw a triangle or line?
 - Review gl.drawArrays()
 - There is no "gl.Quad" or "gl.rectangle"





- Draw a rectangle
- Why is this hard? Any difference to draw a triangle or line?
 - Review gl.drawArrays()
 - There is no "gl.Quad" or "gl.rectangle"
- We have to use multiple triangles to draw a rectangle





What You Should Do Step by Step

Check "TODOs"

- Check Line68 first
 - l use "gl.TRIANGLE_STRIP" in gl.drawArray()
- Check TODO comments
 - They are all in initVertexBuffers()

```
function initVertexBuffers(gl, program){
 var vertices = new Float32Array(
     //TODO-1: vertex and color array
 //TODO-2: how many vertices to draw?
 //var n = ???;
 //TODO-3: create a vertex buffer
 //TODO-4: bind buffer (ql.bindBuffer)
//TODO-5: bind buffer data (gl.bufferData)
//TODO-6: get reference of the attribute variable for vertex position
 //TODO-7: layout of current vertex buffer object (gl.vertexAttribPointer)
 //TODO-8: enable the attribute array
 //TODO-9 repeat TODO-6~8 for the attribute variable to store vertex color information
 return n;
```

Position: (-0.5, 0.5) Color: (1.0, 0.0, 0.0) Position: (-0.5, -0.5) Color:(1.0, 1.0,1.0)

Position: (0.5, 0.5) Color:(1.0, 1.0,1.0)

Position: (0.5, -0.5) Color:(0.0, 0.0, 1.0)

What You Should Do for "Submission"

Submission Instruction

- Create a folder
 - Put the html and js files in the folder
 - Zip the folder
 - Rename the zip file to your student ID
 - For example, if your student ID is "40312345s", rename the zip file to "40312345s.zip"
 - Submit the renamed zip file to Moodle
- Make sure
 - you put all files in the folder to zip
 - You submit the zip file with correct name
- You won't get any point if
 - the submitted file does not follow the naming rule,
 - TA cannot run your code,
 - or cannot unzip your zip file.