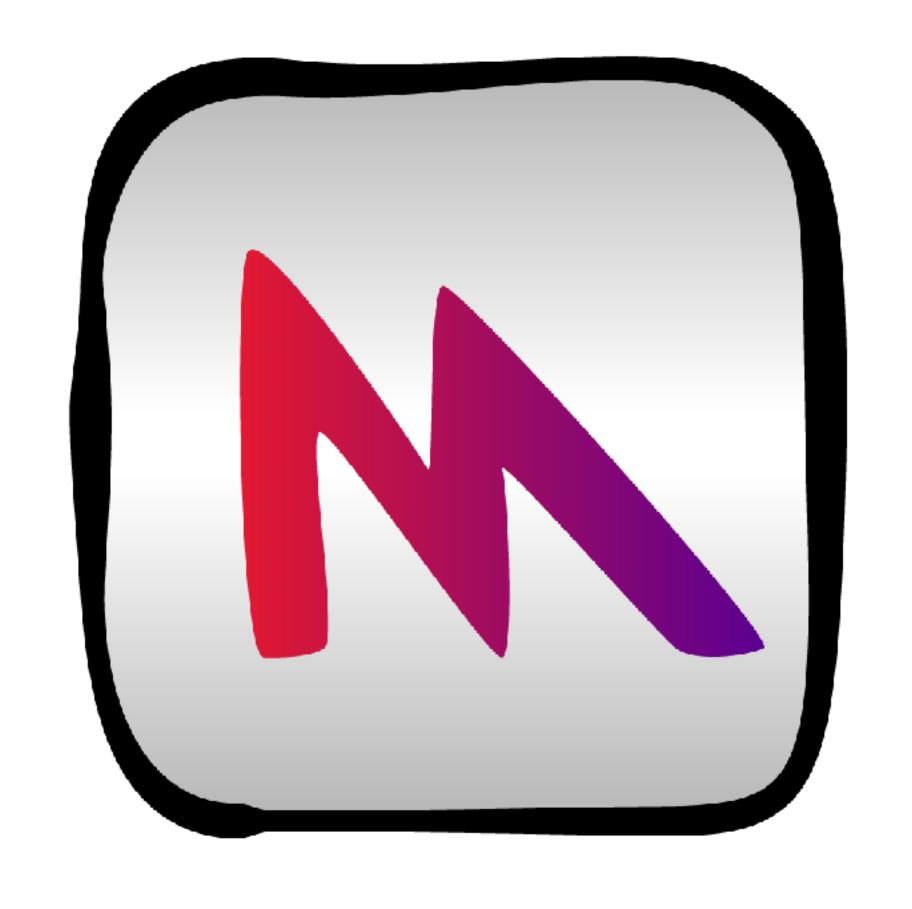
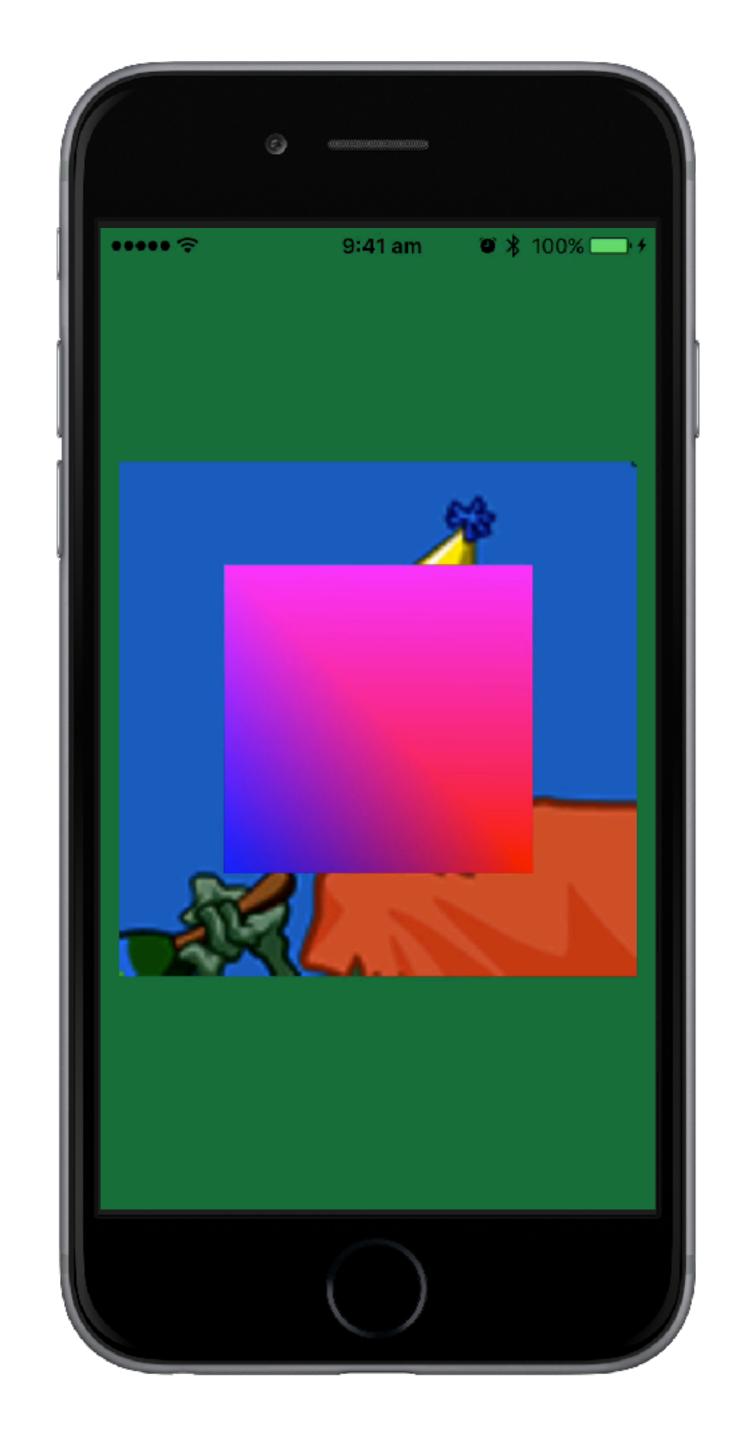
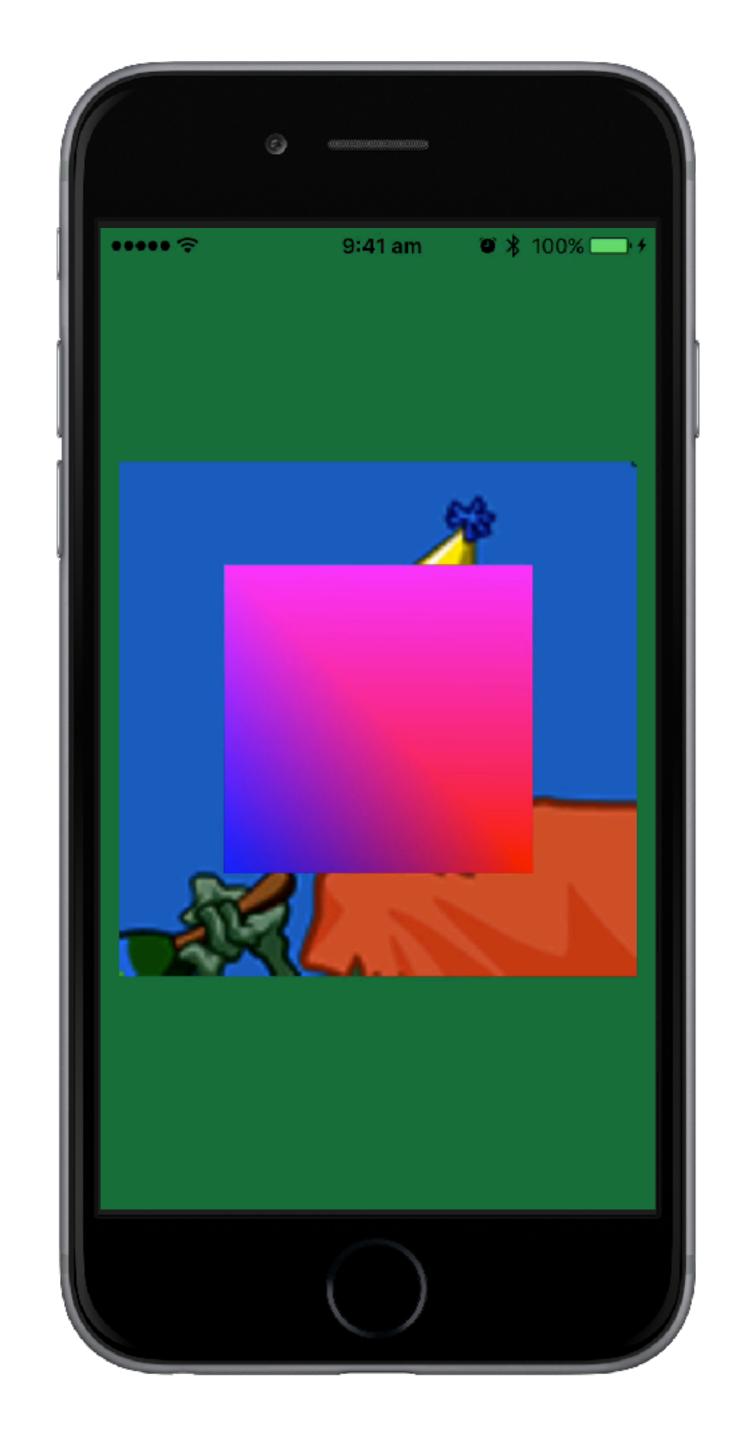
BEGINNING HEIAL



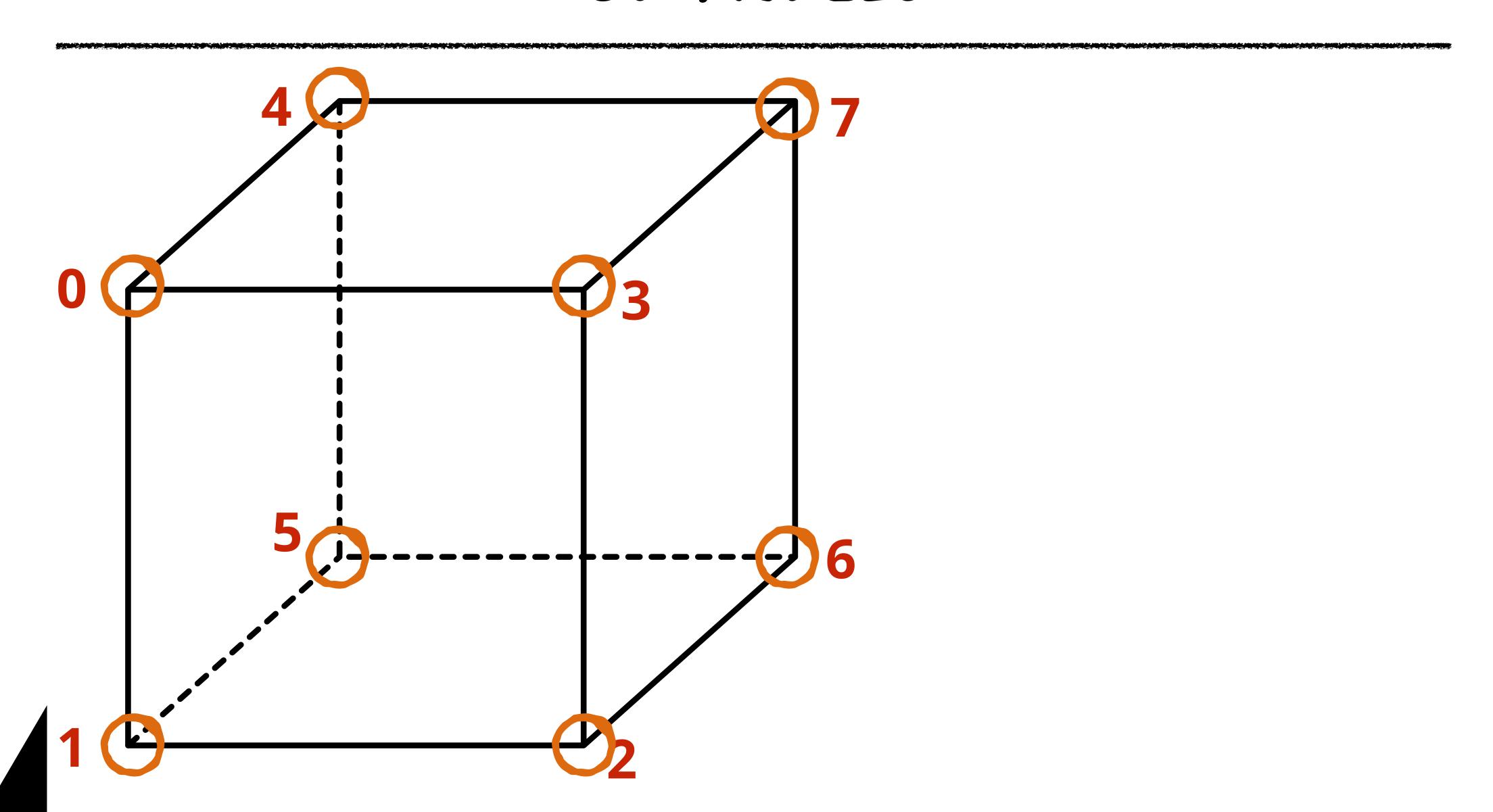
PART 8: DEPTH

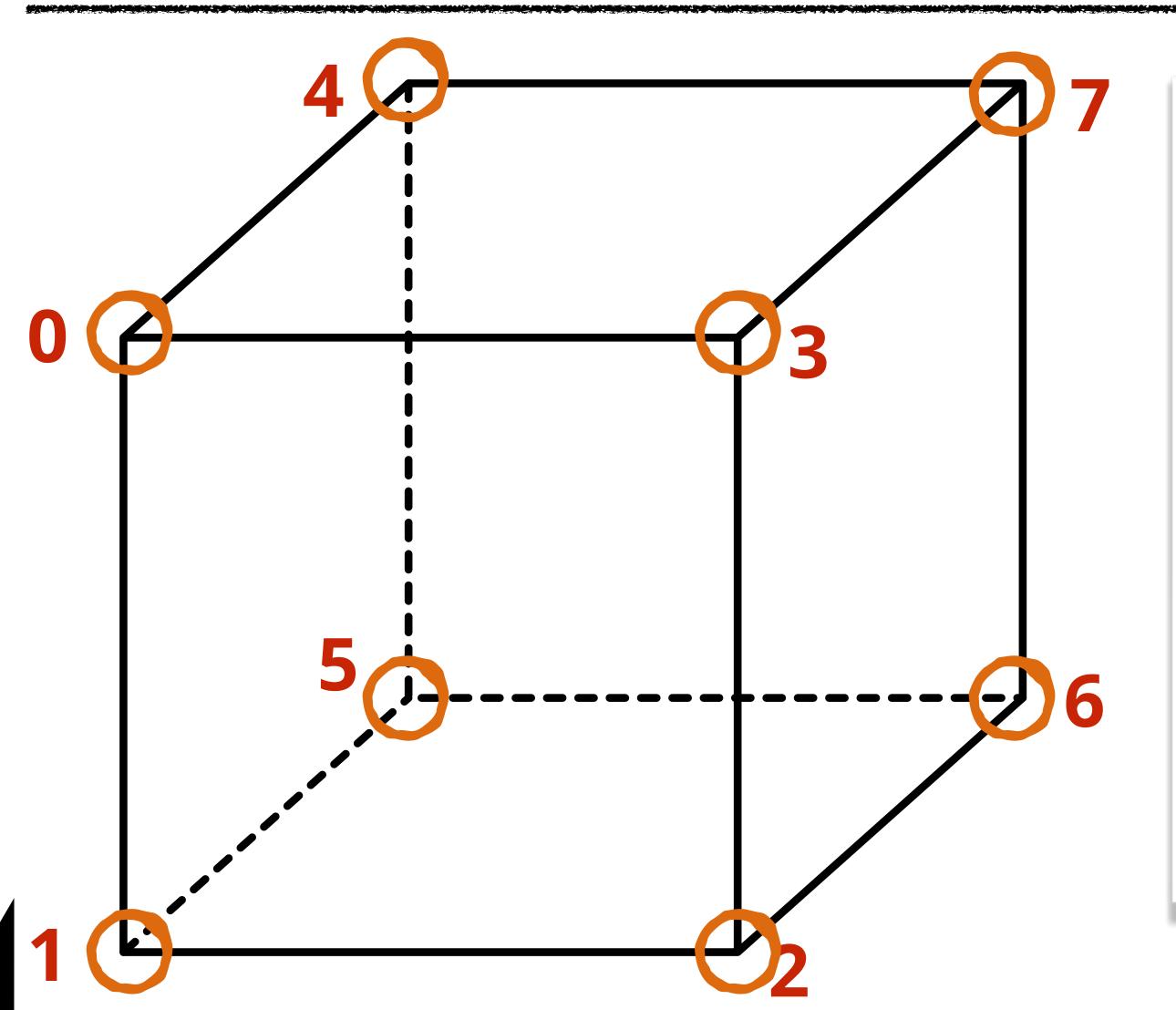




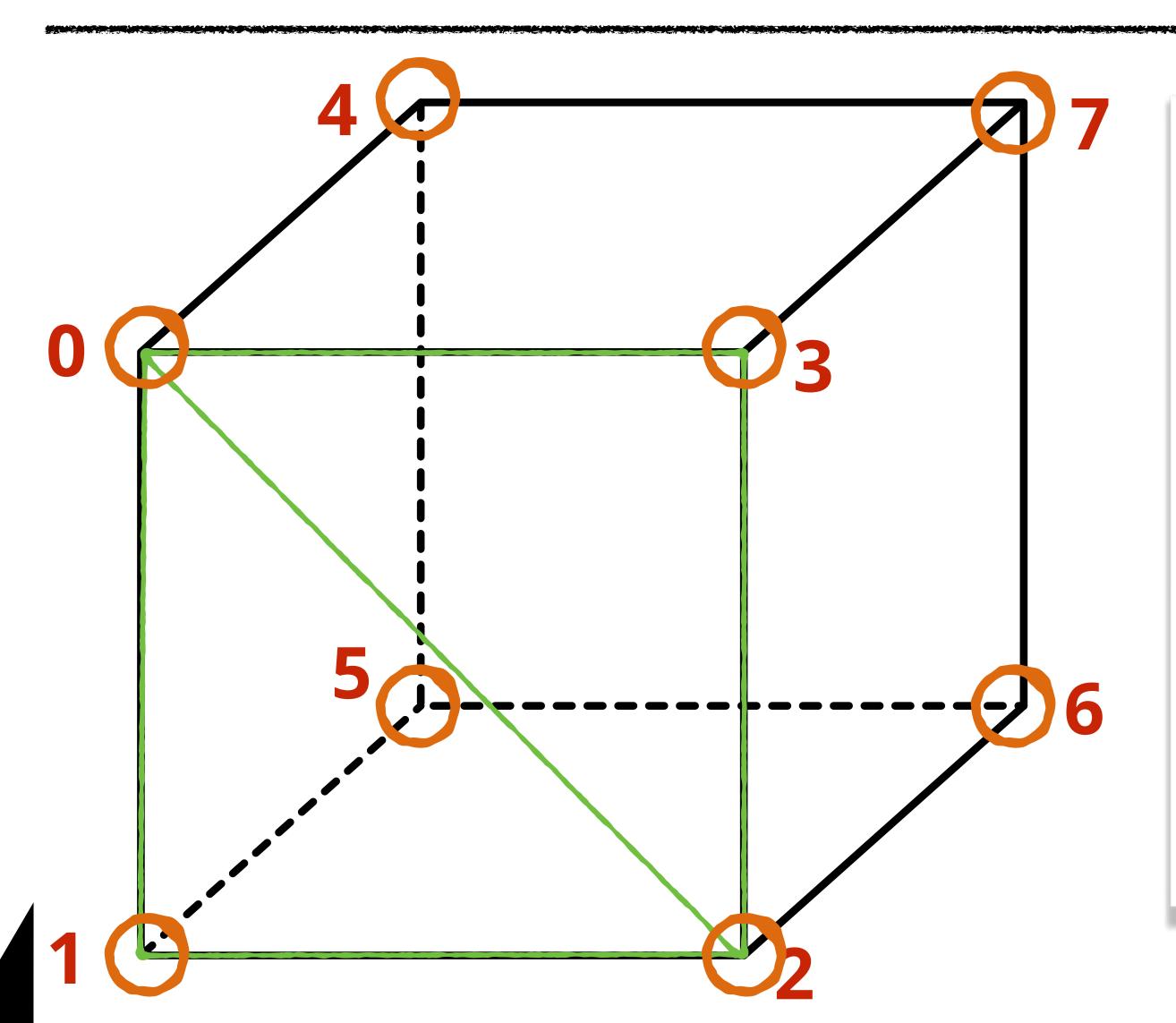




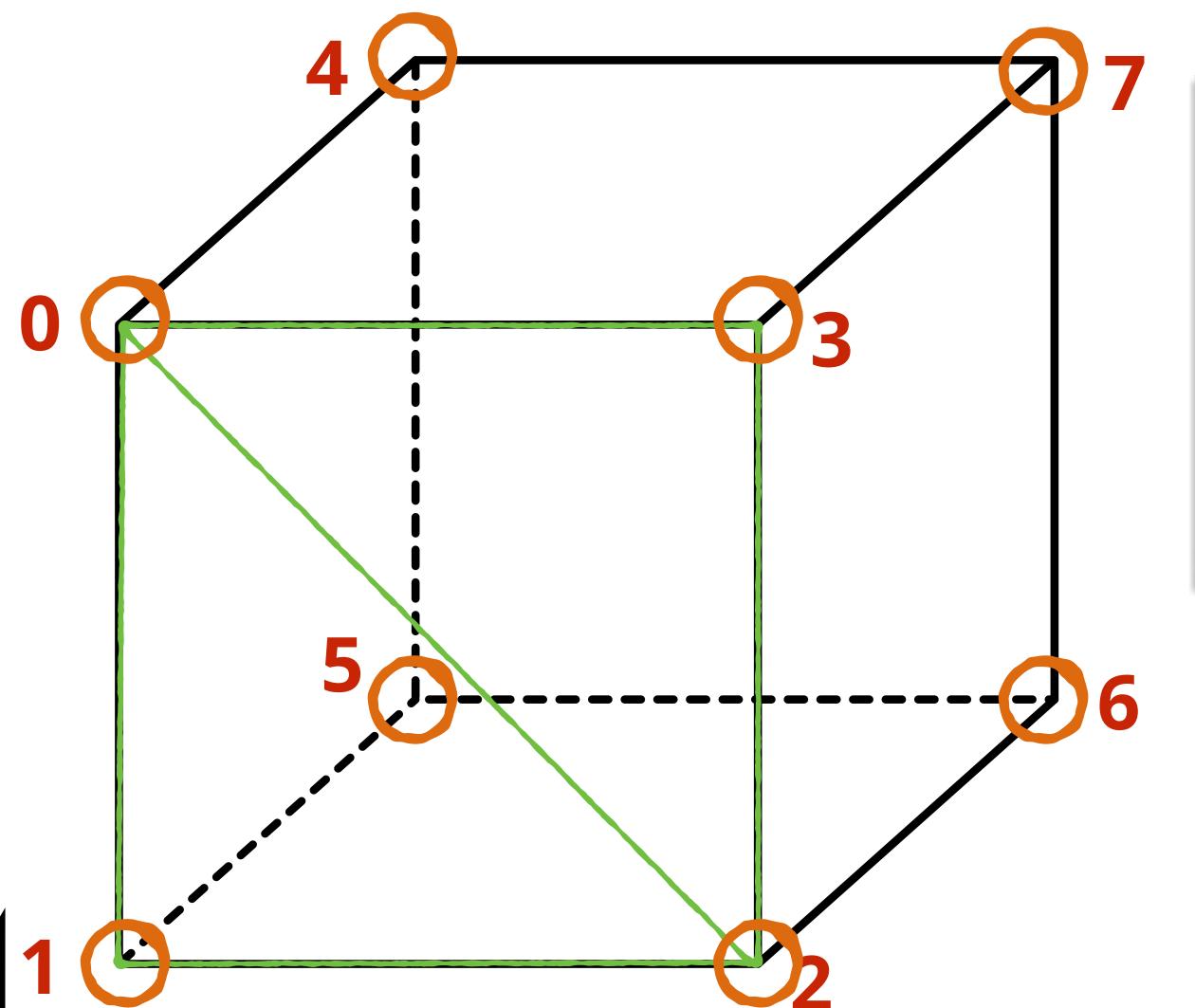


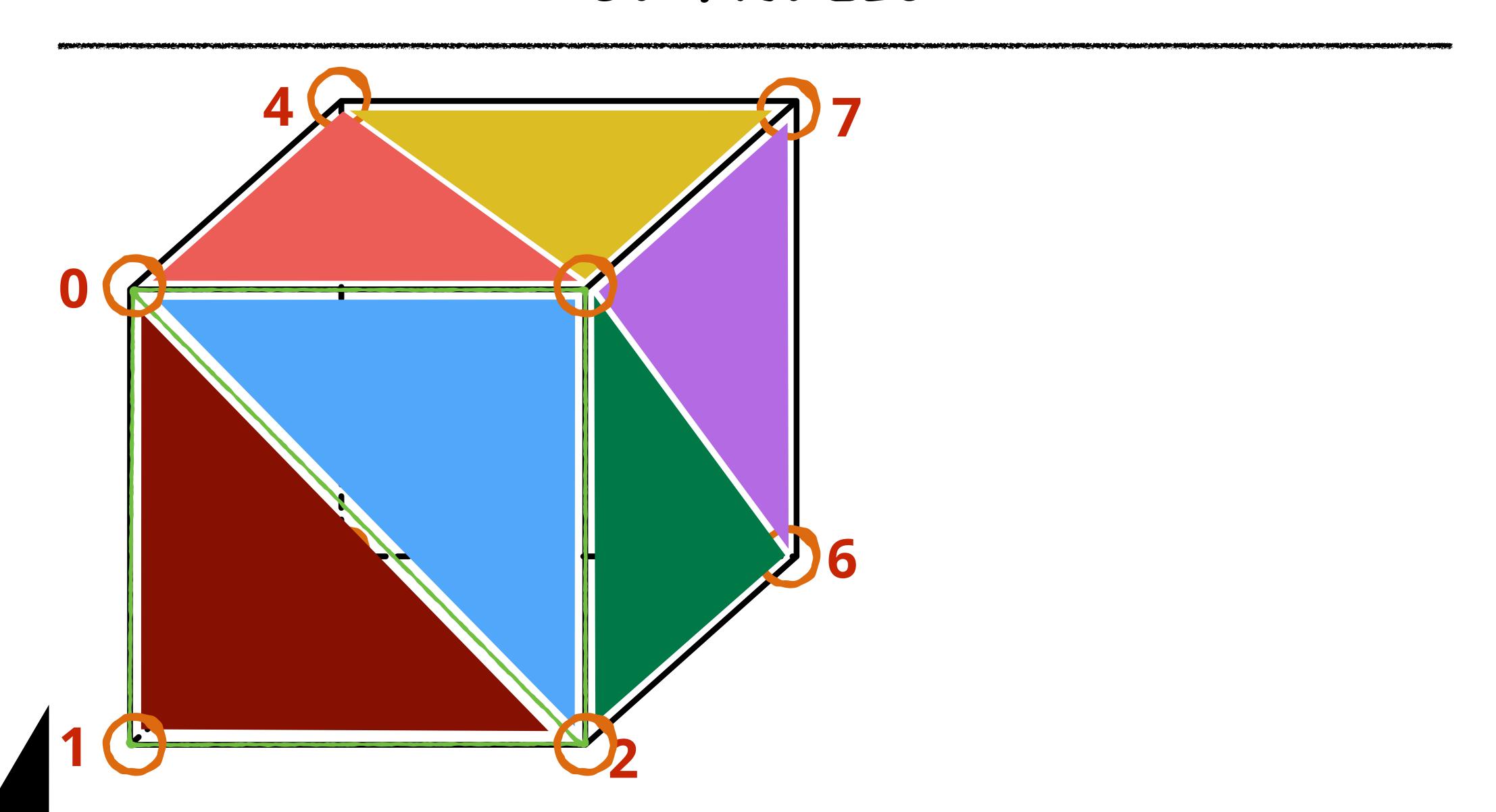


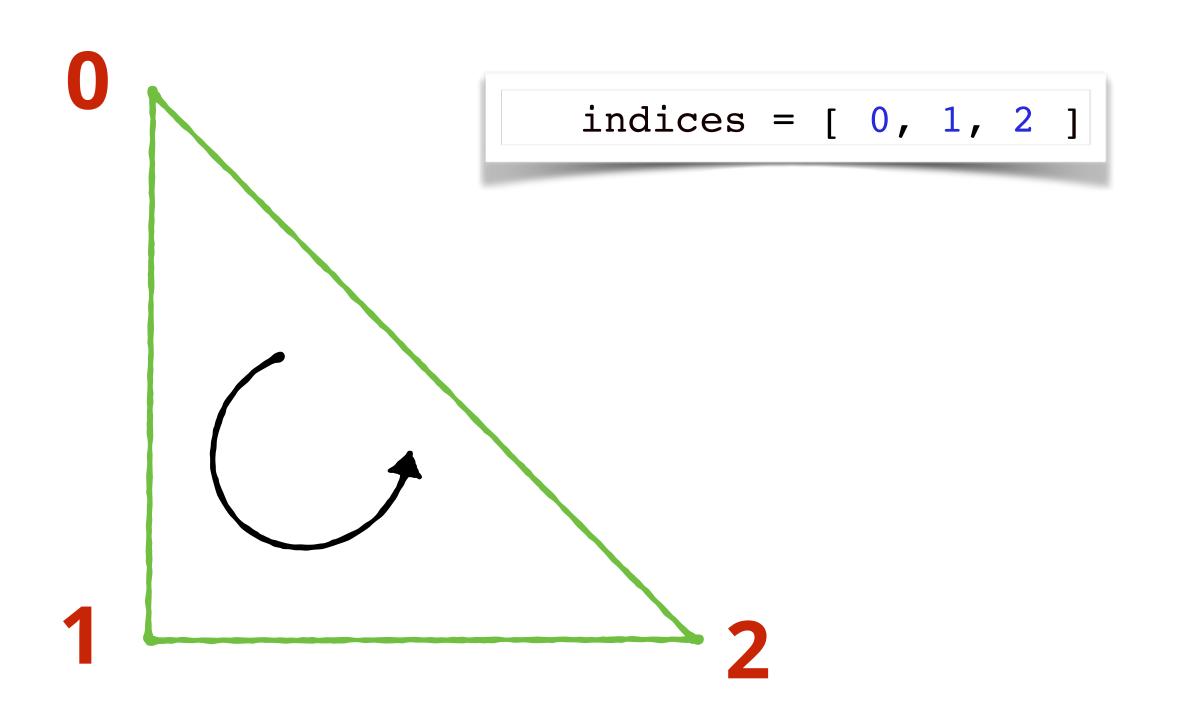
```
vertices = [
 Vertex(position: float3(-1, 1, 1), // 0 Front
                 float4(1, 0, 0, 1),
        color:
        texture: float2(0, 0)),
  Vertex(position: float3(-1, -1, 1), // 1
        color: float4(0, 1, 0, 1),
        texture: float2(0, 1)),
  Vertex(position: float3(1, -1, 1), // 2
        color: float4(0, 0, 1, 1),
        texture: float2(1, 1)),
  Vertex(position: float3(1, 1, 1),  // 3
        color: float4(1, 0, 1, 1),
        texture: float2(1, 0)),
  Vertex(position: float3(-1, 1, -1), // 4 Back
        color: float4(0, 0, 1, 1),
        texture: float2(1, 1)),
  Vertex(position: float3(-1, -1, -1), // 5
        color:
                 float4(0, 1, 0, 1),
        texture: float2(0, 1)),
  Vertex(position: float3(1, -1, -1), // 6
                 float4(1, 0, 0, 1),
        color:
        texture: float2(0, 0)),
  Vertex(position: float3(1, 1, -1), // 7
        color:
                  float4(1, 0, 1, 1),
        texture: float2(1, 0)),
```



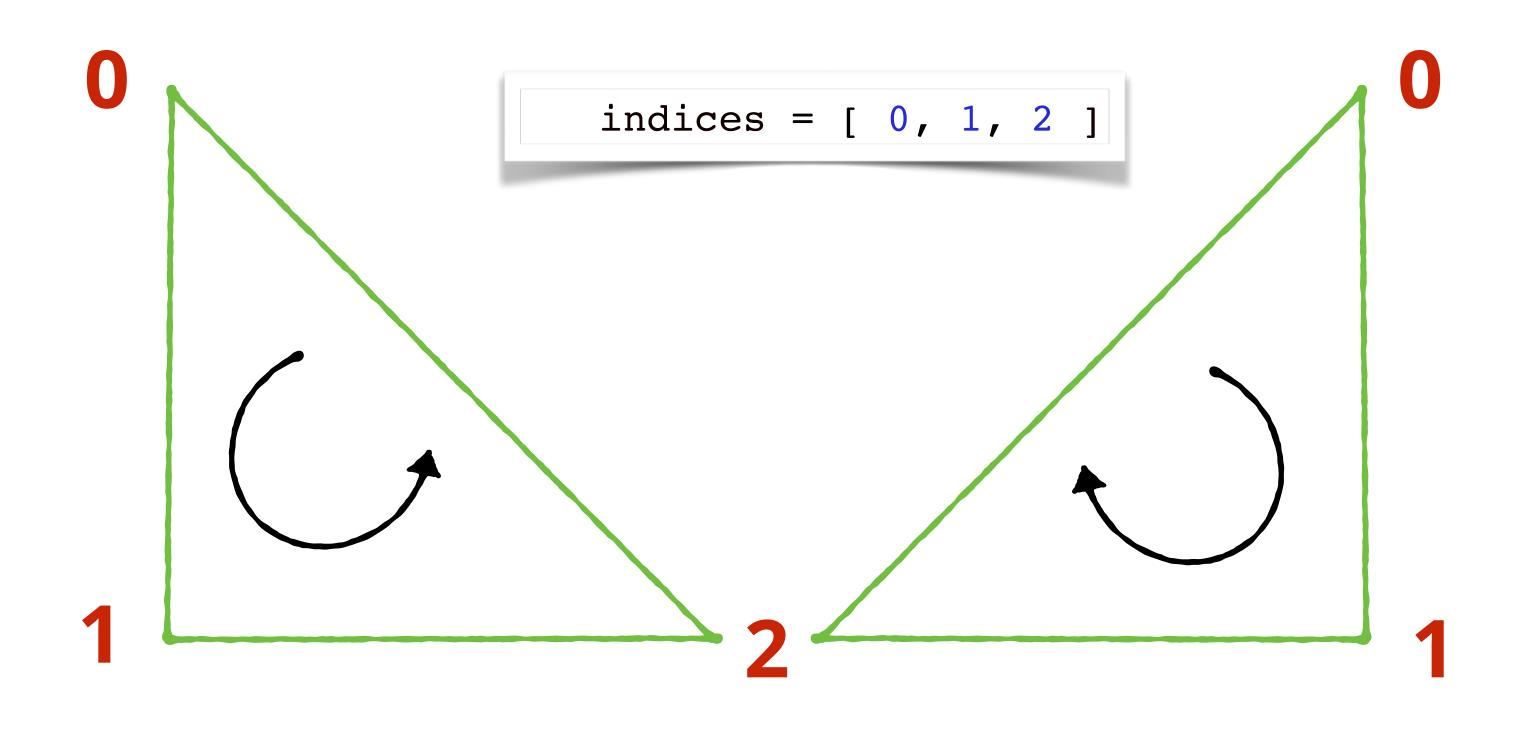
```
vertices = [
 Vertex(position: float3(-1, 1, 1), // 0 Front
                 float4(1, 0, 0, 1),
        color:
        texture: float2(0, 0)),
  Vertex(position: float3(-1, -1, 1), // 1
        color: float4(0, 1, 0, 1),
        texture: float2(0, 1)),
  Vertex(position: float3(1, -1, 1), // 2
        color: float4(0, 0, 1, 1),
        texture: float2(1, 1)),
  Vertex(position: float3(1, 1, 1),  // 3
        color: float4(1, 0, 1, 1),
        texture: float2(1, 0)),
  Vertex(position: float3(-1, 1, -1), // 4 Back
        color: float4(0, 0, 1, 1),
        texture: float2(1, 1)),
  Vertex(position: float3(-1, -1, -1), // 5
        color: float4(0, 1, 0, 1),
        texture: float2(0, 1)),
  Vertex(position: float3(1, -1, -1), // 6
        color:
                 float4(1, 0, 0, 1),
        texture: float2(0, 0)),
  Vertex(position: float3(1, 1, -1), // 7
                  float4(1, 0, 1, 1),
        color:
        texture: float2(1, 0)),
```



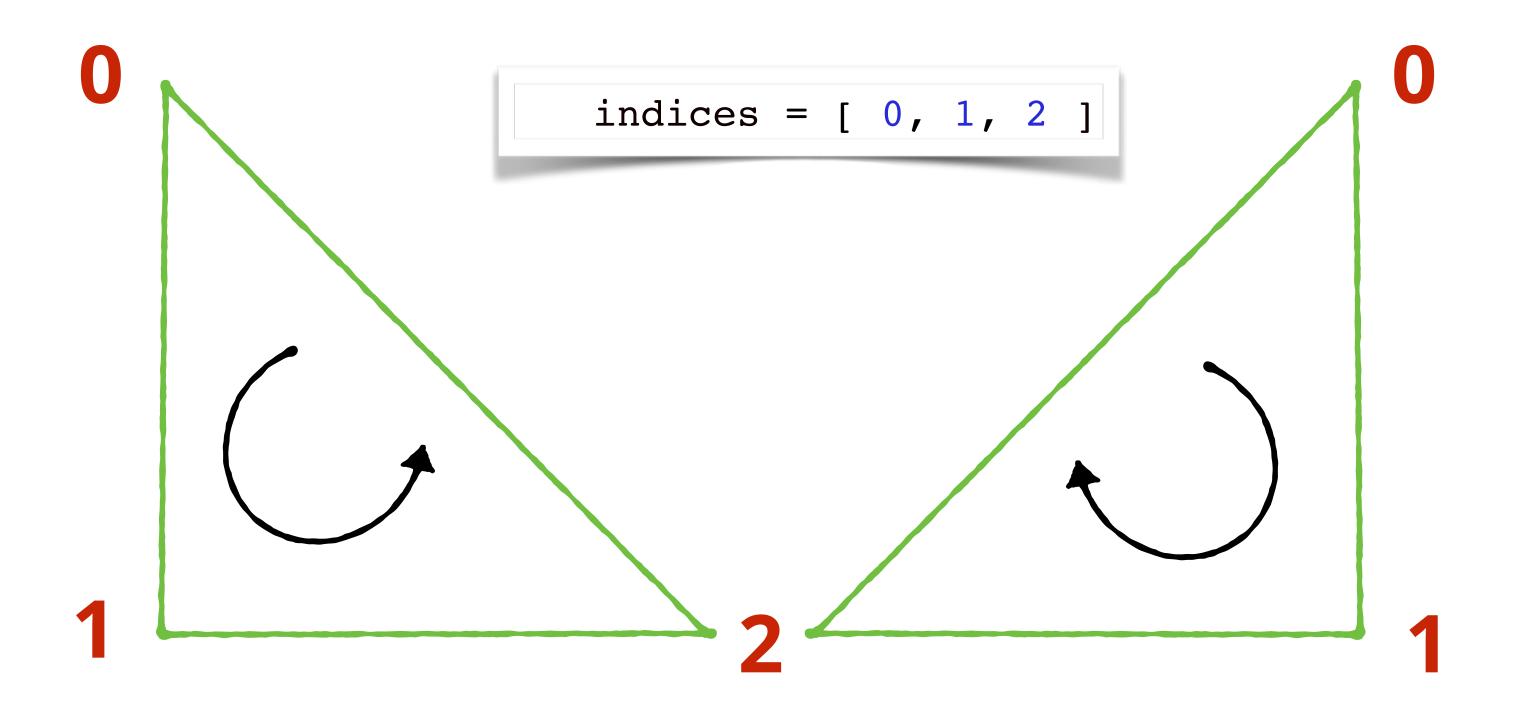




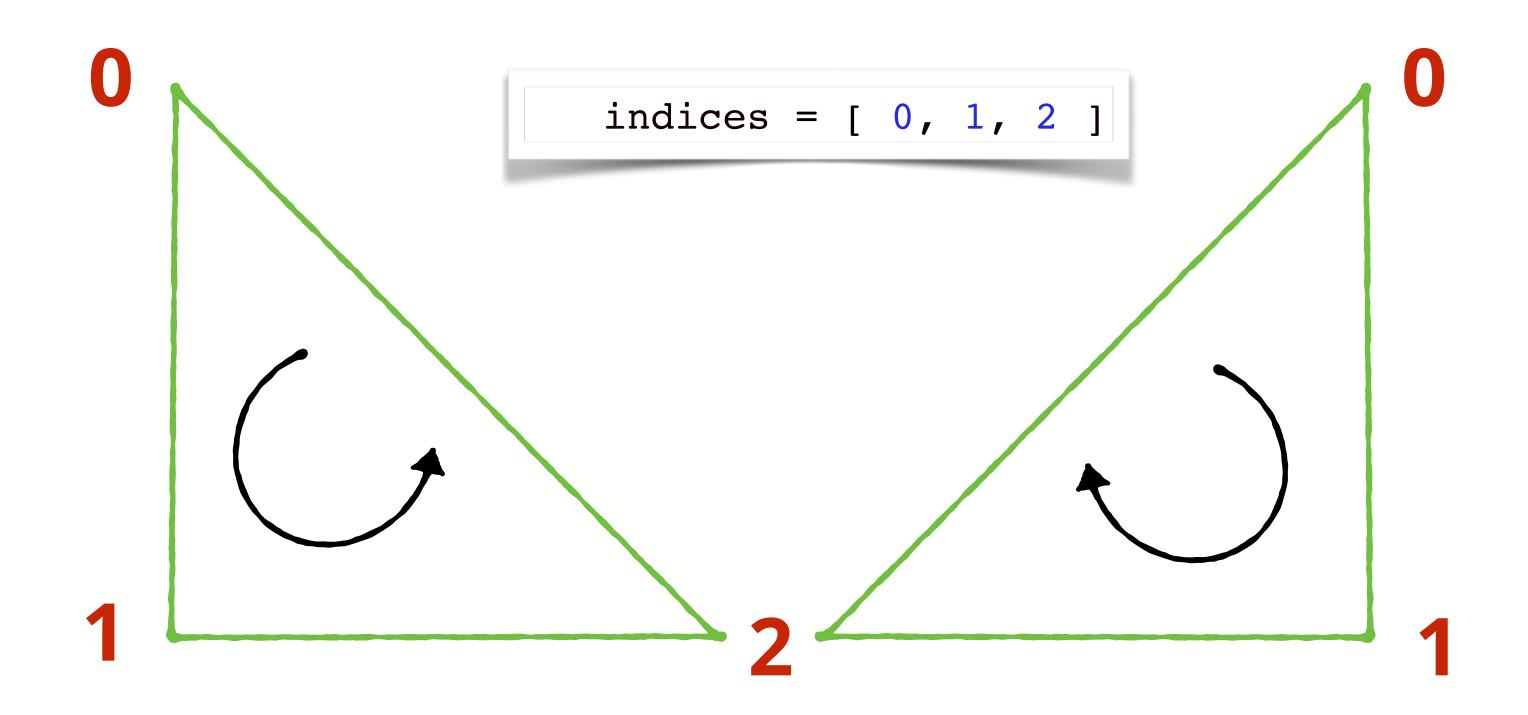








commandEncoder.setFrontFacing(.counterClockwise)



commandEncoder.setFrontFacing(.counterClockwise)
commandEncoder.setCullMode(.back)

DEPTH STENCIL STATE





DEPTH STENCIL STATE

```
let depthStencilDescriptor = MTLDepthStencilDescriptor()
depthStencilDescriptor.depthCompareFunction = .less
depthStencilDescriptor.isDepthWriteEnabled = true

depthStencilState =
    device.makeDepthStencilState(descriptor: depthStencilDescriptor)
```



DEPTH STENCIL STATE

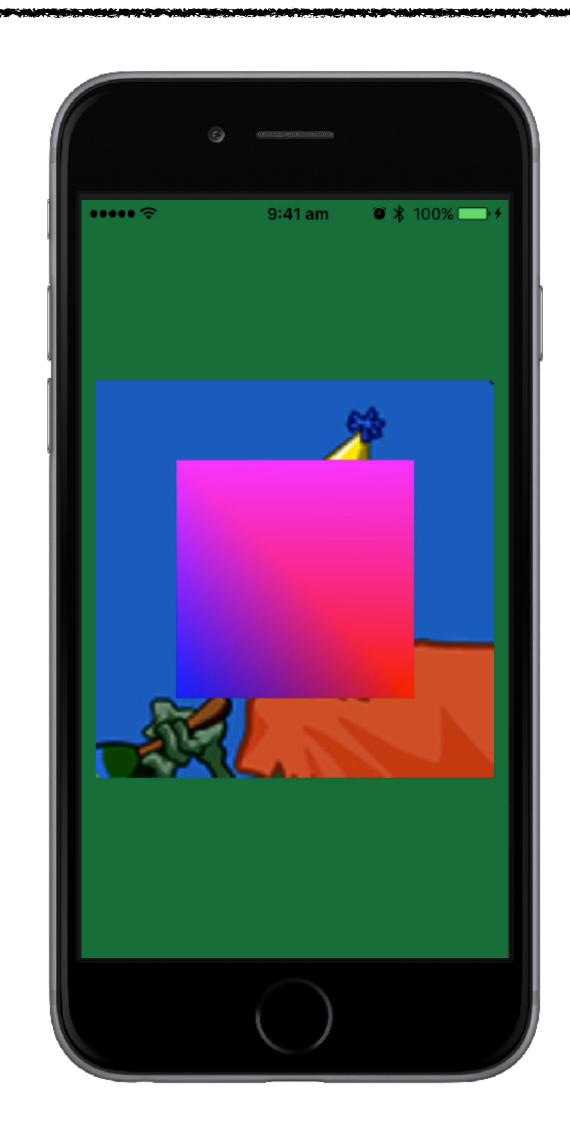
```
let depthStencilDescriptor = MTLDepthStencilDescriptor()
depthStencilDescriptor.depthCompareFunction = .less
depthStencilDescriptor.isDepthWriteEnabled = true

depthStencilState =
    device.makeDepthStencilState(descriptor: depthStencilDescriptor)
```

commandEncoder.setDepthStencilState(depthStencilState)

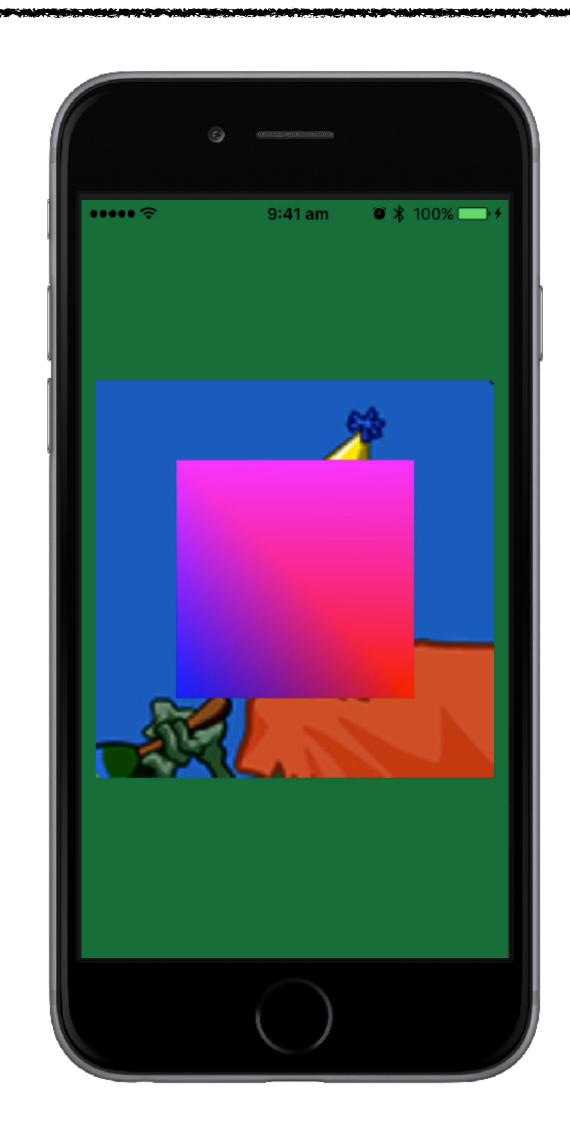


DEMO





DEMO





CHALLENGE TIME!





CHALLENGE TIME!



