COMP280: Specialisms in Creative Computing





## Learning outcomes

- ▶ Implement a basic procedural mesh
- ► **Implement** some basic primitives
- ► Manipulate geometry in shaders

## Exercise 1 - Geometry

- 1. Download one of the following projects
  - ▶ Unity https://github.com/Falmouth-Games-Academy/ COMP280-Unity-Mesh-Example
  - ► UE4 https://github.com/Falmouth-Games-Academy/
    COMP280-UE4-Mesh-Example
- 2. Instead of the triangle, implement the following primitives
  - 2.1 Plane
  - 2.2 Pyramid
  - 2.3 Sphere
  - 2.4 Cylinder

## Exercise 2 - Manipulation

- Manipulate the vertices over time, perhaps using a sine wave
- 2. Use one of the other vertex element to dampen or expand the effect
- 3. Use one of the other vertex elements to implement vertex animation