NEW QUALIFIERS

- uniform
 - A qualifier for a global variable, which can be set from the host program using GL functions (gl.uniformX)
 - These values are used to define behaviour between shader invocation instances
 - Example: uniform float brightness;
- in/out
 - Three meanings
 - 1. Denote values that are passed from one shader stage to the next. Have to be (in general) named the same in both shader stages or explicitly numbered. These values are interpolated between vertices.
 - 2. in Names vertex attributes in the vertex shader (e.g. position, normal, texture coordinates, ...)
 - 3. out Names output values for the fragment shader (99% of the time a color value vec4)
 - Example:
 - Vertex Shader: out vec3 normal;
 - Fragment Shader: in vec3 normal;



PRE-DEFINED VARIABLES

```
    Vertex shader (In)
        gl_VertexID
        gl_InstanceID
```

Vertex shader (Out)
 gl_Position (vertex position)
 gl_PointSize

```
    Fragment shader (In)
        gl_FragCoord (fragment position)
        gl_FrontFacing
        gl_PointCoord
```

• Fragment shader (Out)
gl_FragDepth (fragment depth)
....

