



vertex position in local space

$\text{viewM} * \text{modelM} * \text{vec4}(\text{local\_space\_pos}, 1.0)$

vertex position in view space

$\text{projectionM} * \text{view\_space\_pos}$

vertex position in clip (homogeneous) space

clip space is intermediate space before NDC, since it sets up positions to undergo clipping and perspective division

Primitives outside the clip volume, which was specified by the projection matrix, are discarded

X, Y, Z components of the clip space position are divided by the W component to produce that perspective feel and convert to NDC space

Now that coordinates are converted to [-1, 1] range, they are mapped to screen coordinates (screen space) according to the size of the window

OpenGL interpolates between the given primitive's vertices output data (pos, normal, UVs, ...) to produce the correct values to be then used as input for a given fragment in the fragment shader