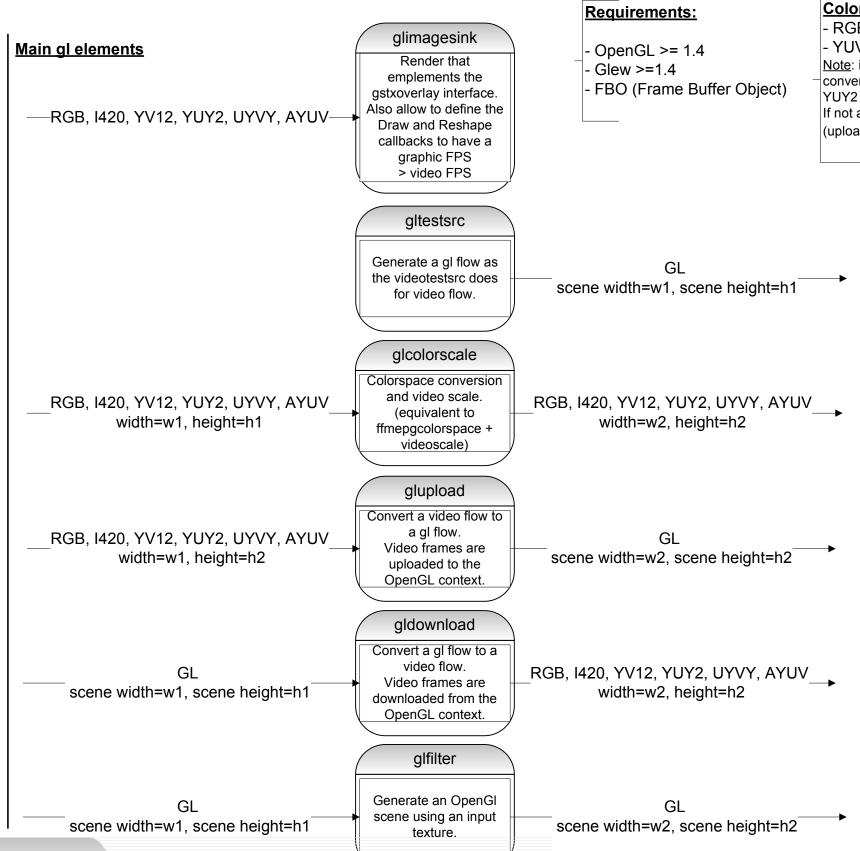
# **Gst-plugins-gl / The gl elements**

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#### **Color space conversion:**

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- RGB: no conversion needed
- YUV: GLSL (OpenGL Shading Language)

Note: if GLSL is not available on your driver or OpenGL version, color space conversion is made through the GL\_MESA\_ycbcr\_texture extension for upload YUY2 and UYVY only.

If not available too and for the other yuv formats, we plan to made the conversion (upload and download) through ColorMatrix (if ARB imaging extension available)

## Some glfilters

#### glfilterapp

Allow to define the Draw and Reshape callbacks from a Gstreamer client code. It avoids to compile a new filter. (FPS cannot be modified unlike glimagesink)

#### glfiltercube

The input texture is map on a 6 cube faces. This is a basic filter example.

## glfilteredge

Edge detection. The method can be selected trough a property (Sobel, Laplace, ...)
This filter shows how to use GLSL in the glfilters.

# **Gst-plugins-gl / Internal functioning**

