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## **3D Effects**

Qt Design Studio provides a set of 3D effects, which are visible in the 2D view. To apply a visual effect to a scene, drag-and-drop an effect from **Components** > **Qt Quick 3D** > **Qt Quick 3D** Effects to a **View3D** component in Navigator.

You can use the Effect component available in **Components** > **Qt Quick 3D** > **Qt Quick 3D** as the base component for creating custom post-processing effects. For more information, see Custom Effects and Materials and Custom Shaders.

Note: In Qt 5, the Effect component is located in Qt Quick 3D Effects > Qt Quick 3D Custom Shader Utilities.

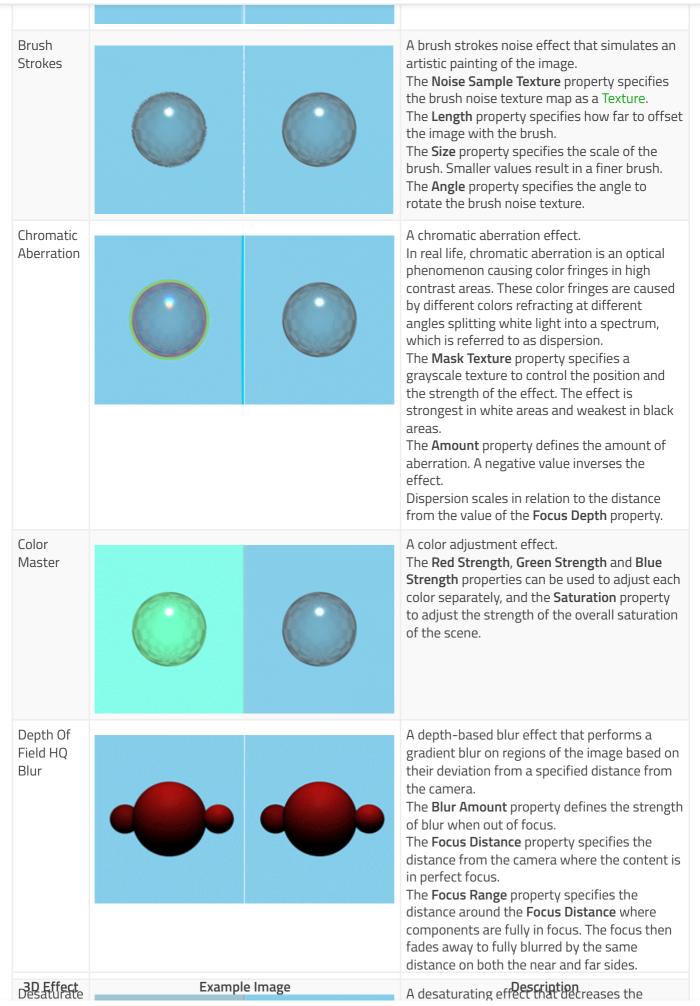
You can apply multiple effects to a scene. Select the **Scene Environment** component in **Navigator** to view the applied effects in Properties > **Scene Environment** > **Effect**.

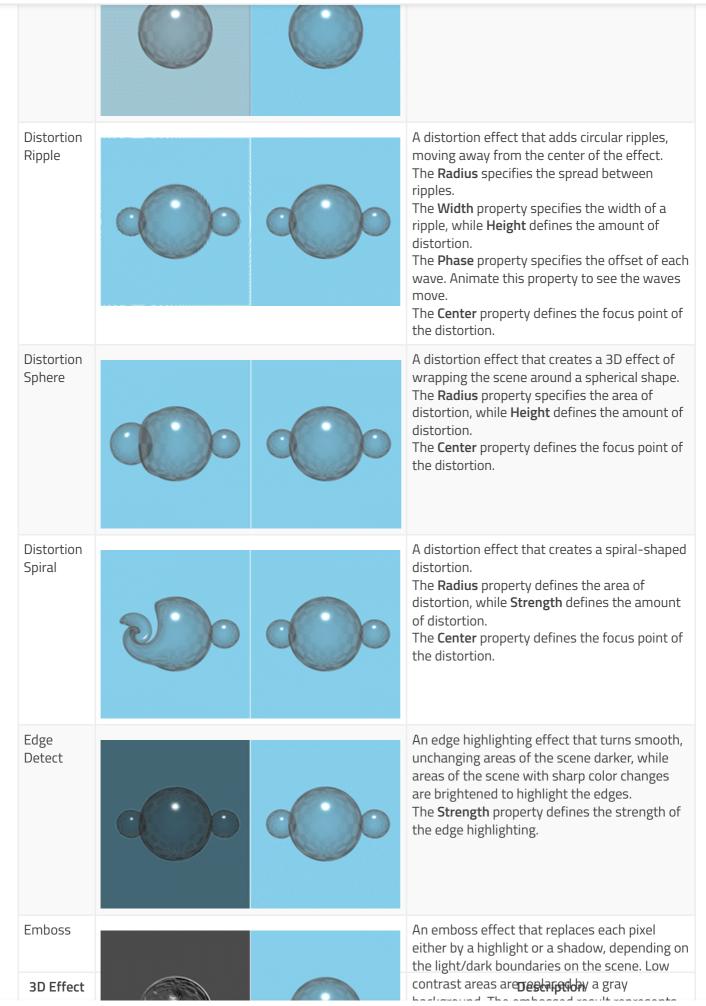
If the effects are not displayed in Components, you should add the **QtQuick3D.Effects** module to your project, as described in Adding and Removing Modules.

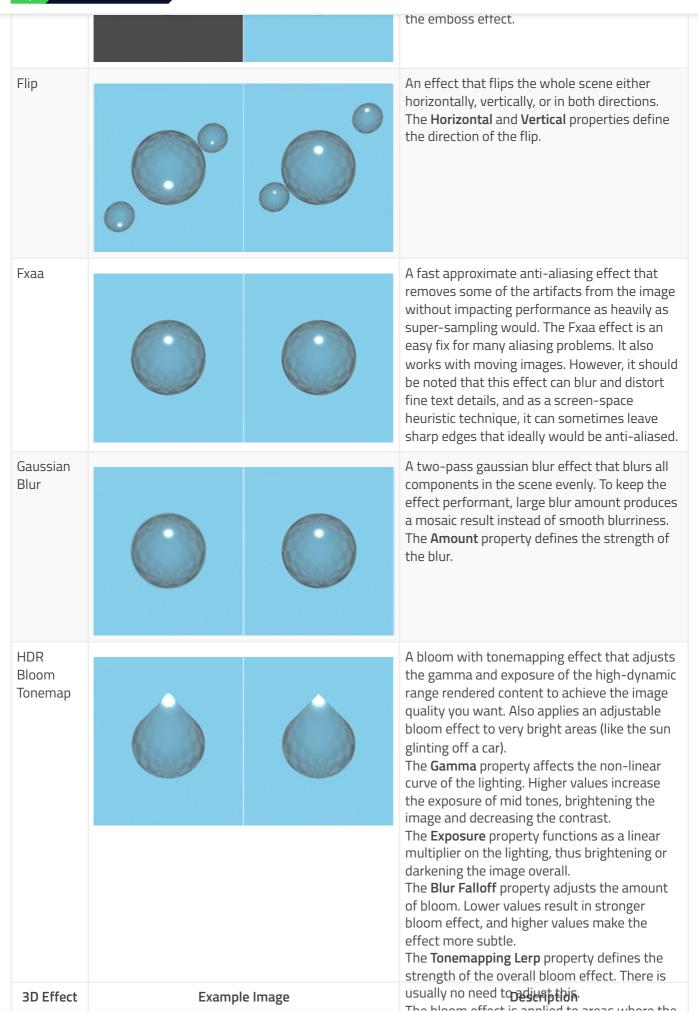
See the following table for available effects and example images.

#### **Available Effects**

3D Effect	Example Image		Description
Additive Color Gradient			A gradient with additive color effect that adds a vertical gradient to the whole scene and then additively blends it with all other components in a 3D view. Additive blending adds the pixel values of the gradient and the 3D view, making the result lighter. White areas do not change, and black areas are the same color as the gradient.  The <b>Top Color</b> and <b>Bottom Color</b> properties specify the colors used for the gradient at the top and bottom parts of the screen.
Blur			A simple one-pass blur. The <b>Amount</b> property specifies the strength of the blur.
3D Effect			Description

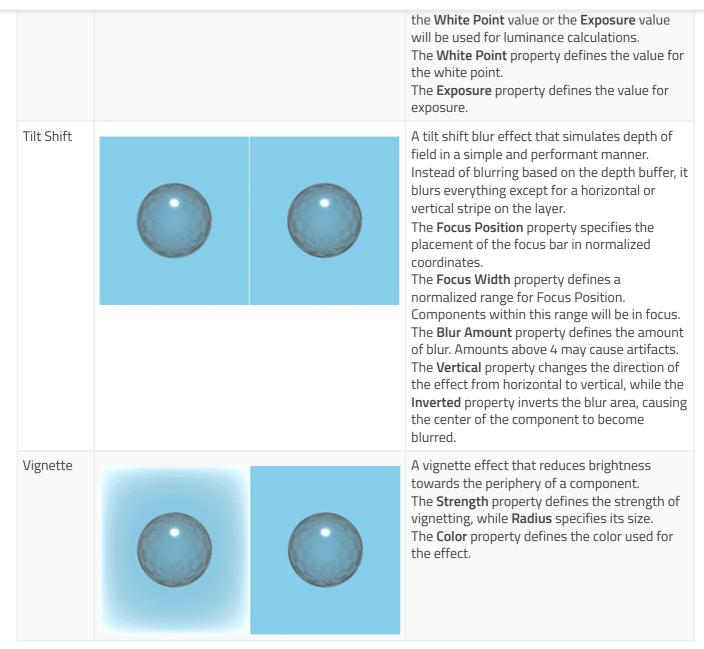




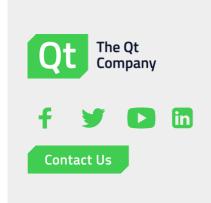


the original renuer result. Lowering this value causes more areas of the rendered scene to bloom. The **Channel Threshold** defines the white point for the image. There is usually no need to adjust this. Motion A motion blur effect that creates an apparent Blur streaking for rapidly moving components in the scene. **Note:** Only has a visible effect if the background of the scene is set to be transparent in the **Background Mode** field of the **Scene Environment** component. Otherwise, the clear color of the background hides the blur. For more information, see Scene Environment. The **Fade Amount** property defines the fade speed of the trail. The **Quality** property can be adjusted to specify the quality of the blur. Increasing quality will have impact on performance. Scatter A noise effect that scatters the pixels in a scene to create a blurry or smeared appearance. Without changing the color of each individual pixel, the effect redistributes the pixels randomly but in the same general area as their original positions. The **Noise Sample Texture** functions as the scatter noise texture map. The **Amount** property defines how much to scatter, while **Direction** sets the direction in which to scatter the pixels. Set to 0 for both horizontal and vertical, 1 for horizontal, and 2 for vertical. The **Randomize** property specifies whether scattering changes at each frame or not. S-Curve A tonemapping effect that maps the colors in Tonemap the scene to others to approximate the appearance of high-dynamic-range result. The **Shoulder Slope** property defines where highlights lose contrast. The **Shoulder Emphasis** property defines the amount of emphasis of the shoulder. The **Toe Slope** property defines where shadows lose contrast. The **Toe Emphasis** property defines the amount of emphasis of the toe. The **Contrast Boost** property enhances or reduces the overall contrast of the tonemap. The Saturation Level defines the overall 3D Effect Example Image saturation level of PASCFOPTEP Pap.





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