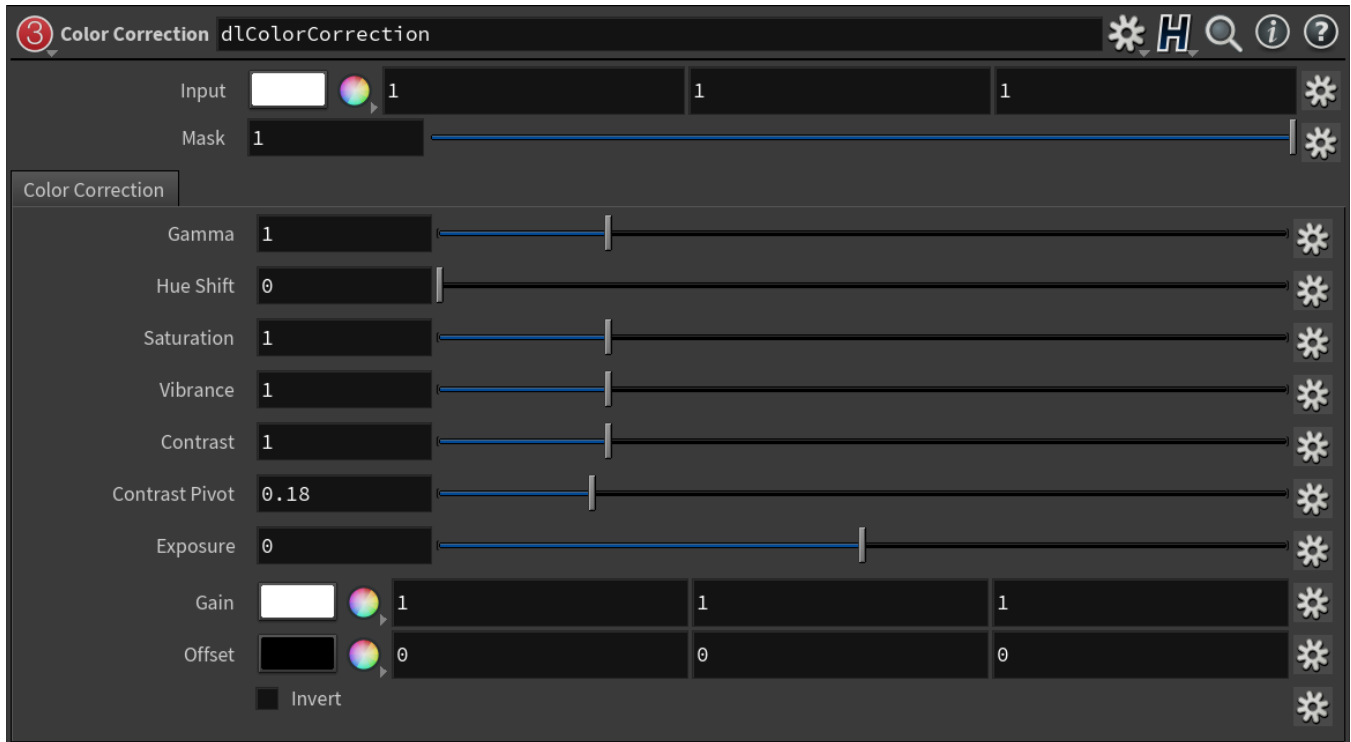# Color Correction

The Color Correction utility node

This utility node allows color correction operations on an input color. Gamma correction, hue shift, saturation modification and contrasting are supported.

Gamma

Apply a gamma correction to the input color, if Gamma different that 1.

Result = pow(*Input,* 1/**Gamma**)

Hue Shift

Rotate the hue by the given amount. Default is 0.

Result Hue = Input Hue + **Hue Shift**

Note that a value of 1 means full rotation and gives the same result a 0 (in other words, 1 is a 360 degrees rotation).

0.0

0.33

0.66

Saturation

Multiplies colour's saturation by the given value. Default is 1.

*Result Saturation = Input Saturation * **Saturation***

0.2

1.0

1.4

Vibrance

Vibrance performs a more pleasant modification of color's saturation. Leaving already saturated areas unchanged and having effect on unsaturated colors. Default is 1.

| 0.0 | 1.0 | 2.0 |

Contrast

Perform a contrasting operation on the color. The value is scaled around the provided pivot.

Result = (Corrected - **Contrast Pivot***) ** **Contrast** *+* **Contrast Pivot**

| 0.5 | 1.0 | 1.5 |

Contrast Pivot

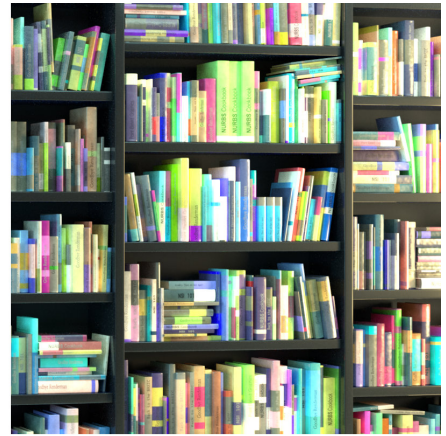| 0.18 | 0.5 | 0.7 |

Exposure

Multiplies the corrected color by 2^**Exposure**. Default is 0.

| -2.0 | 0.0 | 2.0 |

Offset

Adds this color to the corrected color. Default is 0.

*Result = Corrected + **Offset***

Invert

Invert the output color. Default is OFF.

Result = 1 - clamp(*Corrected,* 0, 1)

| On | Off |