



## Power Grades and DCTL Tools

Watermark Grid  
in Demo Version

Set the Timeline Resolution to  
your delivery Resolution as the effects  
can look different at lower resolutions.



Thank you for trying out the Demo Version of artgrade.  
This download contains a full featured working DCTLs and PowerGrades with a Watermark Grid like in above image.

We hope you'll love using the artgrade toolkit for DaVinci Resolve to bring your creative visions to life!



Nx ArtGrade is a collection of powerful DCTL tools and PowerGrades, to transform images and videos into stunning works of art. The DCTL tools are fully adaptable, allowing you to integrate them seamlessly into your own creative workflows for any purpose.

Create realistic watercolor paintings, intricate pencil sketches, dynamic hatched art, or bold charcoal drawings, artgrade has the tools you need.

The Nx Artgrade Toolkit is designed to work in the REC709 color space.

For RAW or LOG footage, a Color Space Transform (CST) should be applied prior to using these tools to convert the image into REC709, ensuring optimal results and color accuracy across all workflows.

Some of the effects change depending on the set resolution, the results from the DCTL tools would differ and needs to tweaked depending on the resolution.

### System Requirements (Ver. 2.0)

Works on macOS and Windows  
(Metal and CUDA Compatible)

Requires DaVinci Resolve Studio 19 and Above.



[nxcolor.com](https://nxcolor.com)



Power Grades and DCTL Tools



#### DCTL Tools Included:

Nx EdgeProcessor  
Nx FlexiMist (Aura)  
Nx Hatching  
Nx Halftone  
Nx CMYK Halftone  
Nx Stippler  
Nx Scatter  
Nx Clarity  
Nx Kuwahara  
Nx AnisotropicDiffusion  
Nx Sharpen  
Nx ColorWarp  
Nx Saturation  
Nx Luma  
Nx Density

#### PowerGrades Included:

Sketch  
Charcoal  
Master Canvas  
Clean Paint  
Anime Style  
Texture+  
Water Color  
Retro Print



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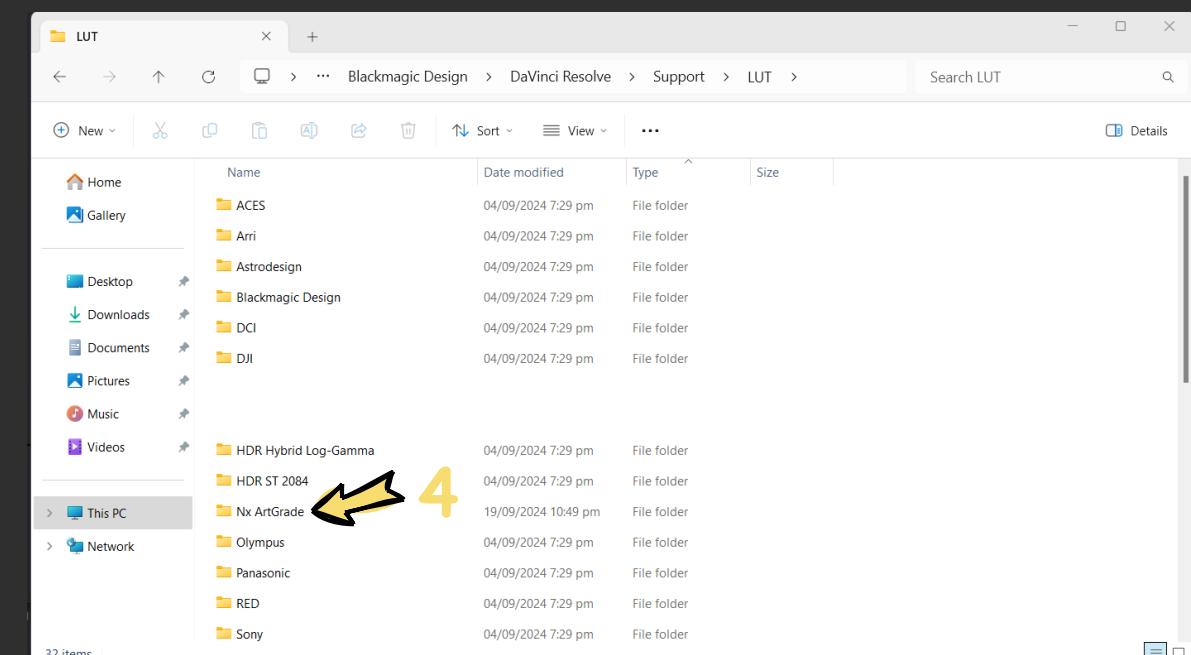
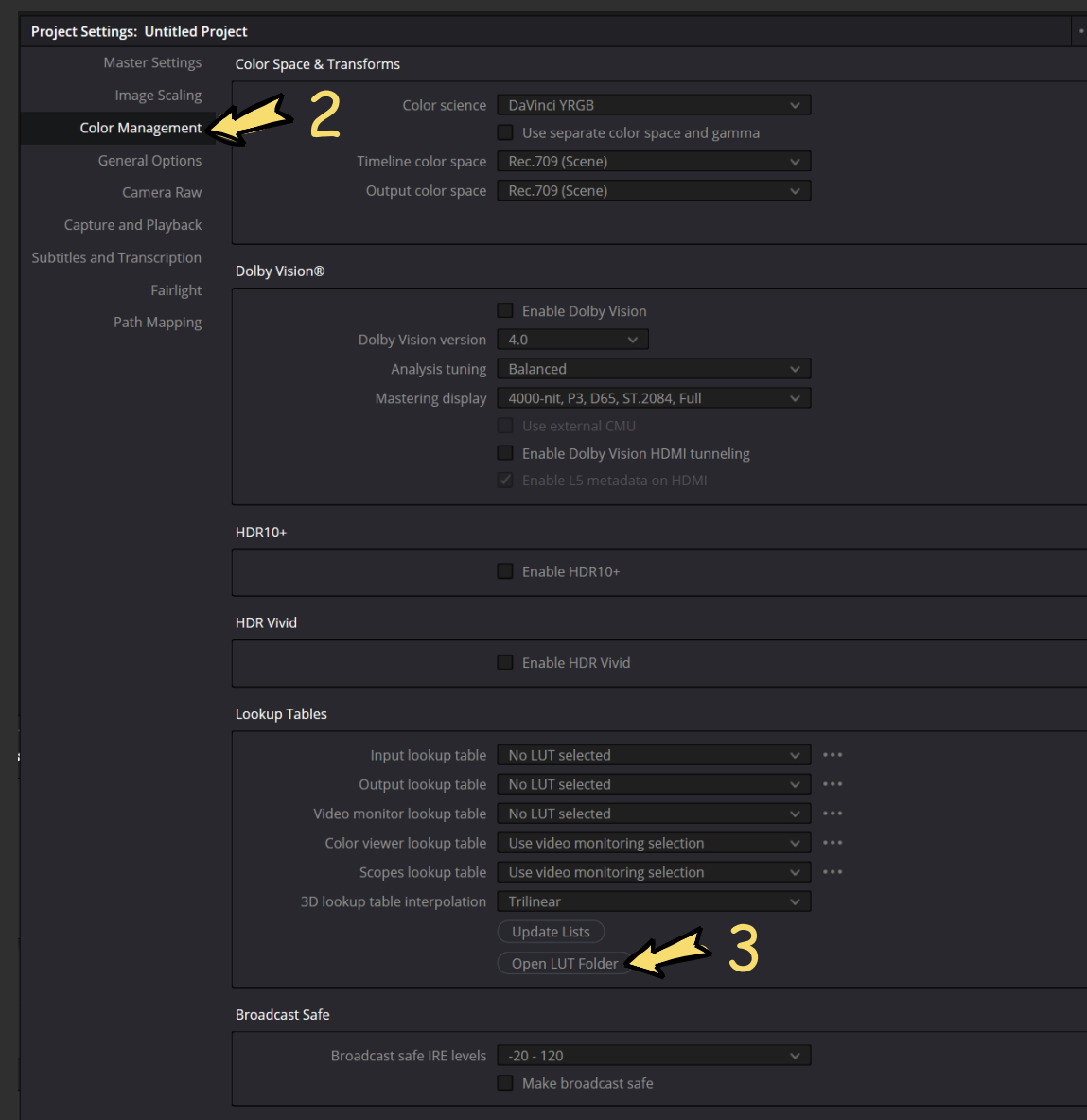
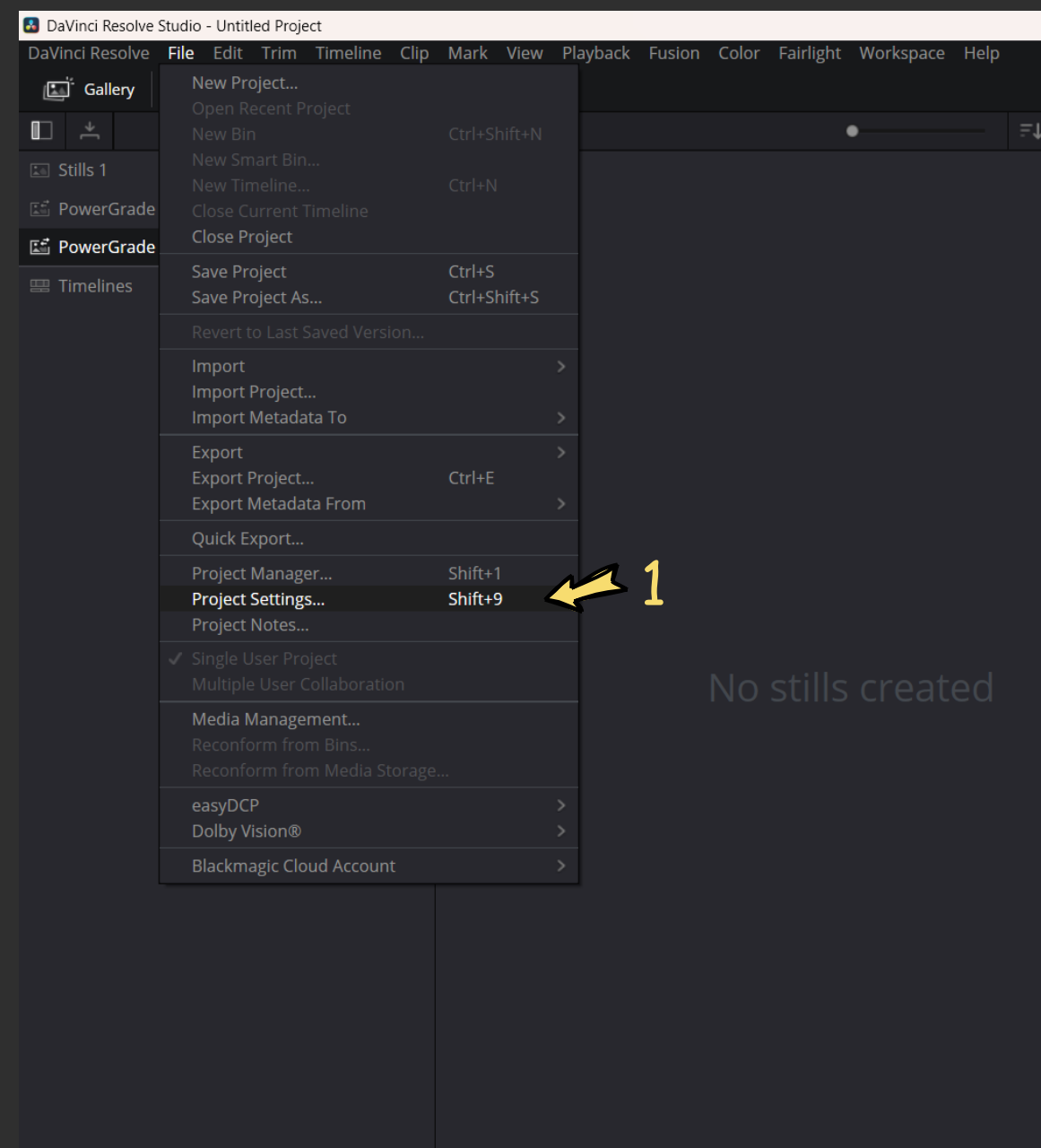


Power Grades and DCTL Tools

# DCTL Tools

## Installation

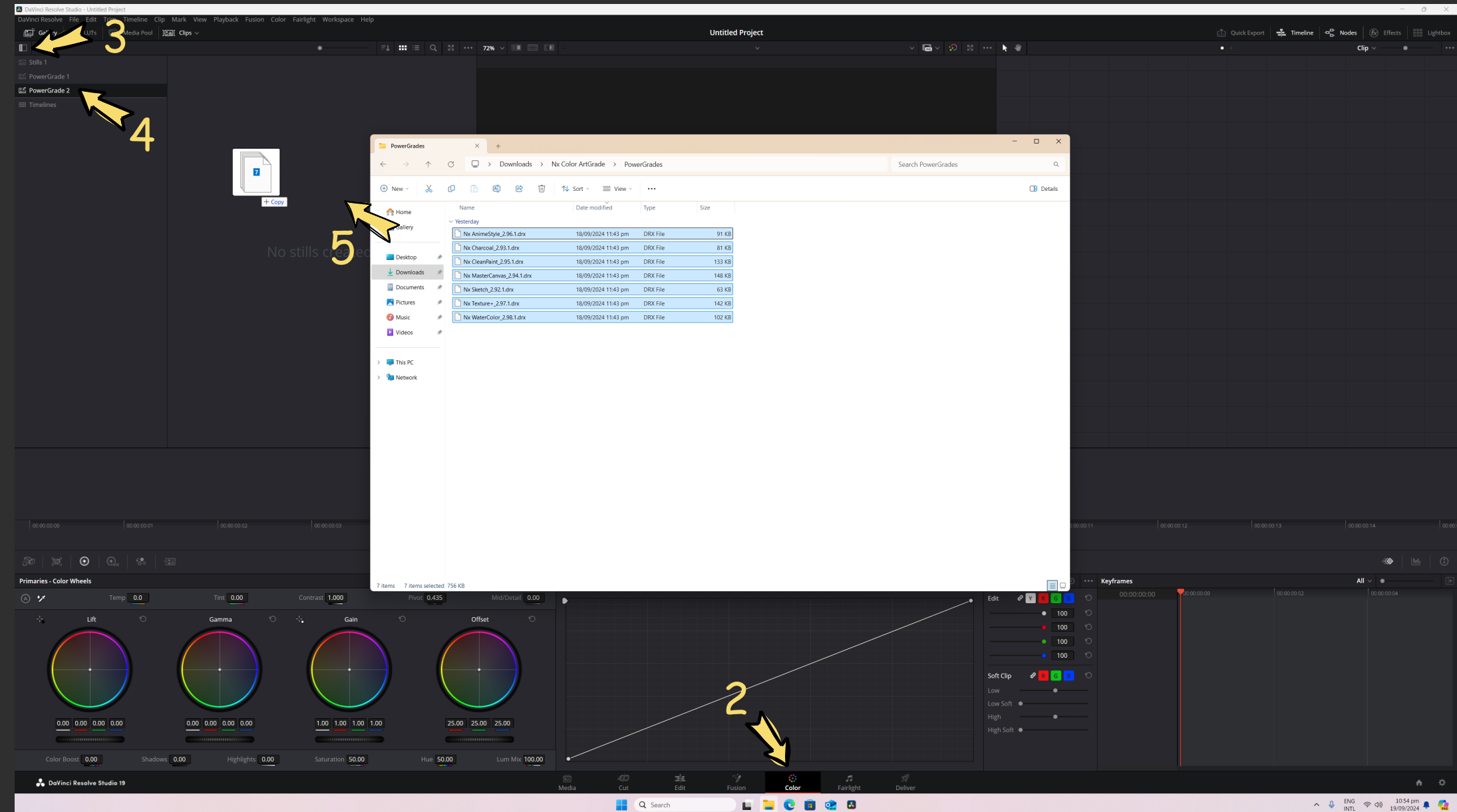
1. Go to the (Menu) File -> Project Settings
2. Navigate to “Color Management” then “Lookup Tables”.
3. Click “Open LUT Folder” to open the LUT folder within Explorer
4. Drag & drop the “Nx ArtGrade” Folder within the DaVinci Resolve LUT Folder we just opened.  
(DCTLs must reside inside the 'Nx ArtGrade' Folder in the LUT Folder for PowerGrades to work.)
5. Restart Resolve



# PowerGrades

## Installation

1. Launch DaVinci Resolve
2. Navigate to the “Color” page.
3. Open the Still \ PowerGrade Albums.
4. Right-click and select "Add PowerGrade Album"
5. Drag & drop .drx files into the Album.





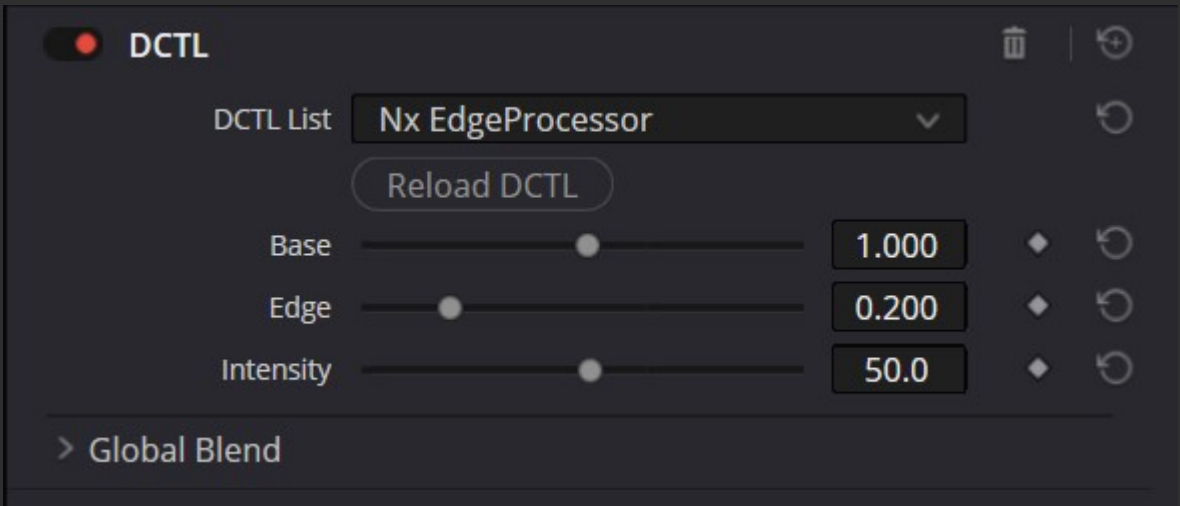
## Nx EdgeProcessor

Designed with precision and versatility in mind, this tool delivers stunning, professional-grade results.

The Nx EdgeProcessor excels at identifying and enhancing the edges in your images, ensuring that every detail is captured with remarkable clarity.

Nx EdgeProcessor DCTL can be used to create a vast array of effects from minimalist sketches to more complex, textured line art.

Engineered for professional use, this tool is perfect for filmmakers, colorists, and visual artists.



Base: Controls the initial blur applied to the image..  
EdgeEnhance: Adjusts the strength of edge enhancement relative to the base blur.  
Intensity: Scales the final effect intensity to brighten or darken the output.



Nx FlexiMist (Aura)

Emulates the physical optical diffusion filters like ProMist / CineBloom!

You can create a soft hazy glow around light sources and illuminated subjects, adding a distinctive cinematic flair. Aura also diffuses light, gently blurring hard edges and also imparts softness to skin tones minimizing the appearance of wrinkles, resulting in a naturally smooth and visually appealing aesthetic.

Experience the power of optical diffusion filters in the post.

DCTL

DCTL List

Nx FlexiMist

Reload DCTL

Diffusion

0.00

Diffusion Glow

0.000

Diffusion Falloff

0.500

Diffusion Limiter

1.000

> Global Blend



Diffusion: Controls the amount of overall diffusion effect.  
Diffusion Glow: Adjusts the strength of the glow effect added to the image.  
Diffusion Falloff: Modifies how the diffusion effect fades out with distance.  
Diffusion Limiter: Sets the extent to which the shadow mask limits the diffusion effect.



Nx Hatching

This Cross-Hatching tool provides a creative way to add artistic, hand-drawn effects to images by simulating various line patterns based on tonal values. The tool is highly customizable with sliders that control the appearance and behavior of the hatching lines.

Nx Hatching is ideal for creating artistic effects, including cross-hatching, pencil-like sketches, or stippling based on image luminance, giving users a powerful way to stylize their visuals with custom hatching patterns.



DCTL

DCTL List

Nx Hatching

Reload DCTL

Line Thickness

2.00

Hatch Resolution

6.00

Hatch Density

2.000

Jitter

0.200

Highlight Threshold

0.850

Midtone Threshold

0.650

Shadow Threshold

0.250

Hatch Angle

0.0

> Global Blend

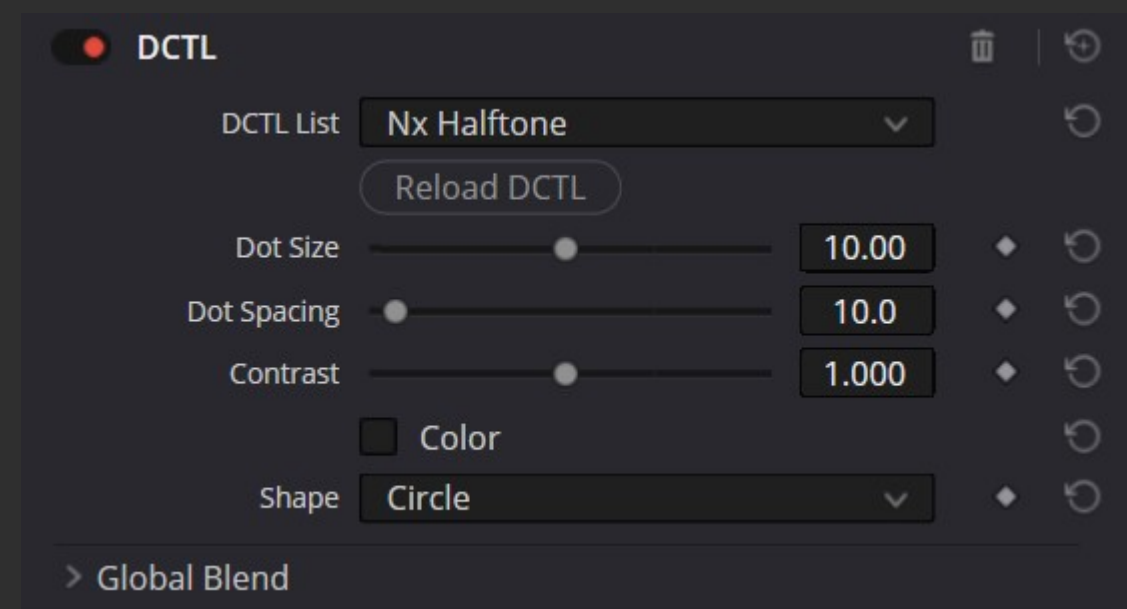
- Line Thickness: Controls the thickness of each hatching line.
- Hatch Resolution: Sets the resolution, determining the spacing between hatching lines.
- Hatch Density: Adjusts the density of hatching lines, controlling how tightly packed they appear.
- Jitter: Introduces randomness to the hatching lines for a hand-drawn look.
- Highlight Threshold: Defines the intensity level where highlights are excluded from hatching.
- Midtone Threshold: Sets the intensity threshold for hatching in midtones.
- Shadow Threshold: Controls the intensity level for hatching in shadow areas.
- Hatch Angle: Rotates the hatching lines to a specified angle for different directional effects.



## Nx Halftone

Halftone is a printing technique developed in the 20th century that utilizes dot patterns to form images. In an era when printing methods were constrained, halftone provided a means to achieve the illusion of colors and shades.

This reprographic method simulates continuous-tone imagery by employing dots that vary in size or spacing, creating a gradient-like effect.



Dot Size: Controls the size of the dots in the halftone effect.

Dot Spacing: Adjusts the distance between dots, affecting the pattern's density.

Contrast: Modifies the contrast of the halftone dots relative to the image tones.

Color: Toggles between a colored or grayscale halftone effect.

Shape: Selects the shape of the halftone dots (circle, square, or diamond).



Nx CMYK Halftone

Nx CMYK Halftone helps create the look of different colors and shades by using small dots. Today, simulating halftone effects lets us play with retro styles.

In traditional printing with cyan, magenta, yellow, and black (CMYK), halftone was used to make colors look solid. Instead of using one solid color, printers placed tiny dots close together. Each dot was a single, unchanging color: all cyan dots were the same shade, and all magenta dots were identical. But by combining these three colors with black, printers created a wider range of shades.

When you look at these dots from a distance, they seem to mix together and form new colors. By changing the spacing, pattern, and size of the dots, printers could create many different shades using just these four colors.

DCTL

DCTL List

Nx CMYK Halftone

Reload DCTL

Dot Size

5.00

Dot Spacing

5.0

Contrast

1.000

Cyan Angle

105.0

Magenta Angle

75.0

Yellow Angle

90.0

Black Angle

45.0

☒ Show Cyan

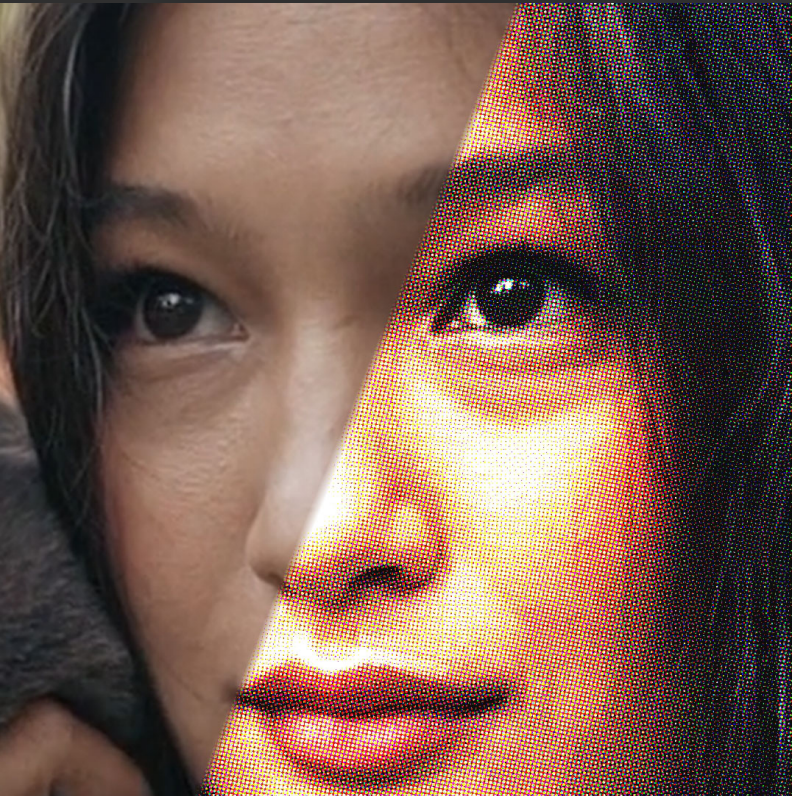
☒ Show Magenta

☒ Show Yellow

☐ Show Black

> Global Blend

- Dot Size: Adjusts the size of the halftone dots.
- Dot Spacing: Controls the distance between halftone dots.
- Contrast: Modifies the contrast between light and dark areas in the halftone pattern.
- Cyan Angle: Sets the angle for the cyan channel dots.
- Magenta Angle: Sets the angle for the magenta channel dots.
- Yellow Angle: Sets the angle for the yellow channel dots.
- Black Angle: Sets the angle for the black channel dots.
- Show Cyan: Toggles the visibility of the cyan channel.
- Show Magenta: Toggles the visibility of the magenta channel.
- Show Yellow: Toggles the visibility of the yellow channel.
- Show Black: Toggles the visibility of the black (key) channel.





Nx Stippler

Stippling is an artistic technique used to create texture and shading in drawings or other visual mediums by applying small dots or marks.

These dots vary in density to suggest different levels of darkness or lightness, giving the impression of depth, texture, and form. The closer and more numerous the dots, the darker the area appears, while sparse dots create lighter areas.

Stippling is often used to create smooth gradients or textures in black-and-white drawings. The technique allows artists to control the intensity and texture of a shaded area without the use of traditional hatching or cross-hatching techniques.

DCTL

DCTL List

Nx Stippler

Reload DCTL

Edge Threshold

0.500

Stipple Density

1.00

Stipple Resolution

1.00

Randomness

0.500

> Global Blend

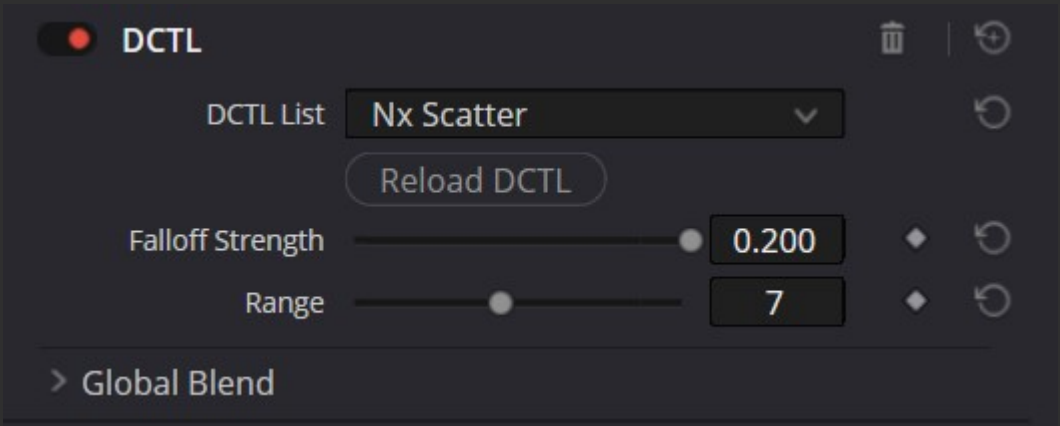


Edge Threshold: Controls how sensitive the edge detection is, determining which edges are detected.  
Stipple Density: Adjusts the density of the stippling effect applied to the image.  
Stipple Resolution: Sets the resolution of the stippling pattern, affecting how detailed the stippling effect appears.  
Randomness: Adds variability to the stippling effect, creating more irregularities in the stippling pattern.



## Nx Scatter

Nx Scatter DCTL creates a scatter effect with a customizable range and falloff strength, allowing for randomized pixel displacements that mimic a scattering pattern.

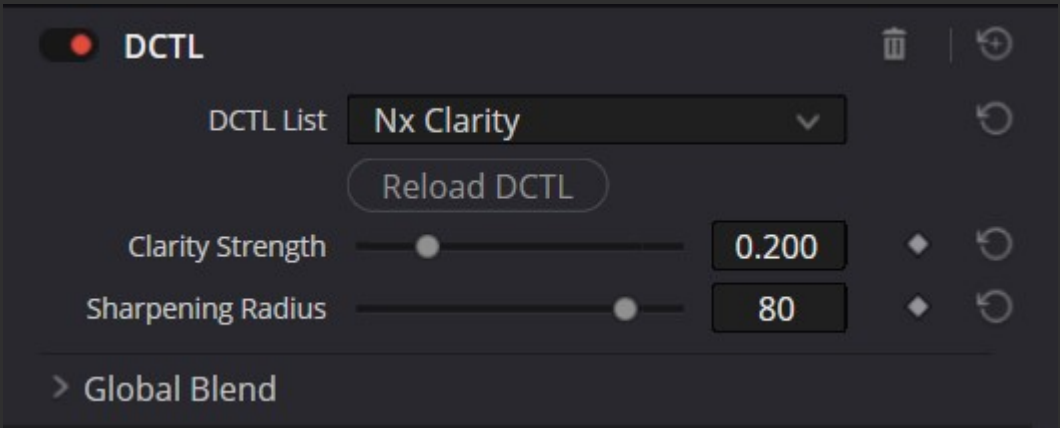


Falloff Strength: Controls the strength of the falloff effect applied to the scattered colors. A higher value results in a stronger reduction of scattered color intensity based on distance from the original pixel, creating a smoother transition.

Scatter Range (Range): Adjusts the range of pixel scatter for the effect. Higher values result in more pronounced scatter, affecting a larger area around the original pixel.

## Nx Clarity

Nx Clarity is a Local Contrast Enhancement DCTL that sharpens the image by enhancing the contrast of fine details without introducing unwanted halos or artifacts typically associated with traditional sharpening techniques



Clarity Strength: Controls the intensity of the clarity or sharpening effect. Higher values increase the strength of contrast enhancement and edge definition, making the image appear sharper.

Sharpening Radius: Defines the radius of the box blur used for sharpening. A larger radius increases the area considered for blurring, affecting the level of detail and contrast enhancement in the image.

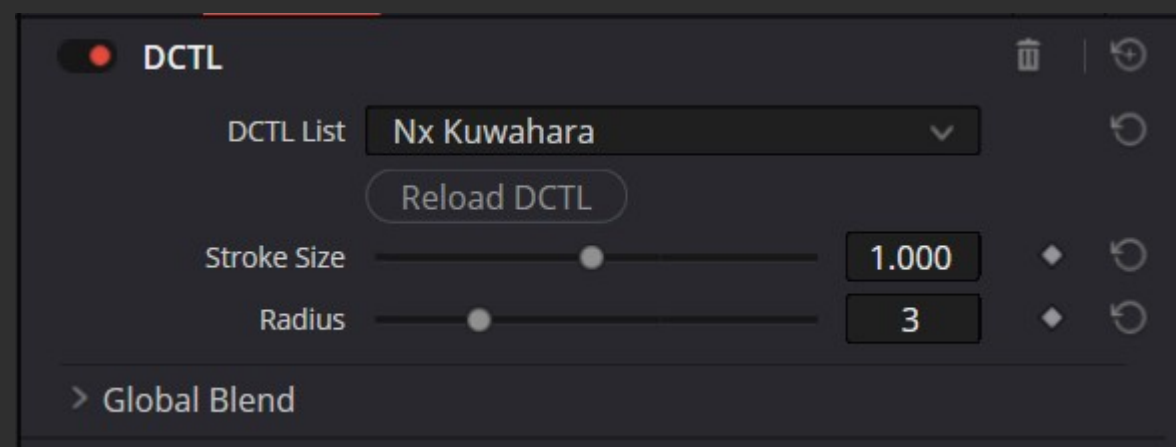


## Nx Kuwahara

The Kuwahara filter is a non-linear smoothing filter used in image processing to reduce noise and enhance details while preserving edges.

The Kuwahara filter works by dividing an image into non-overlapping squares and then computing the mean and variance of pixel values within each square. Based on these statistics, the filter replaces the pixel values within each square with the mean value, resulting in a smoothed image.

The Kuwahara filter is unique because it adapts its smoothing effect based on the local variance of pixel values, resulting in different levels of smoothing for regions with varying texture and detail. This makes it particularly effective for reducing noise while preserving edges and fine details in textured regions of an image.



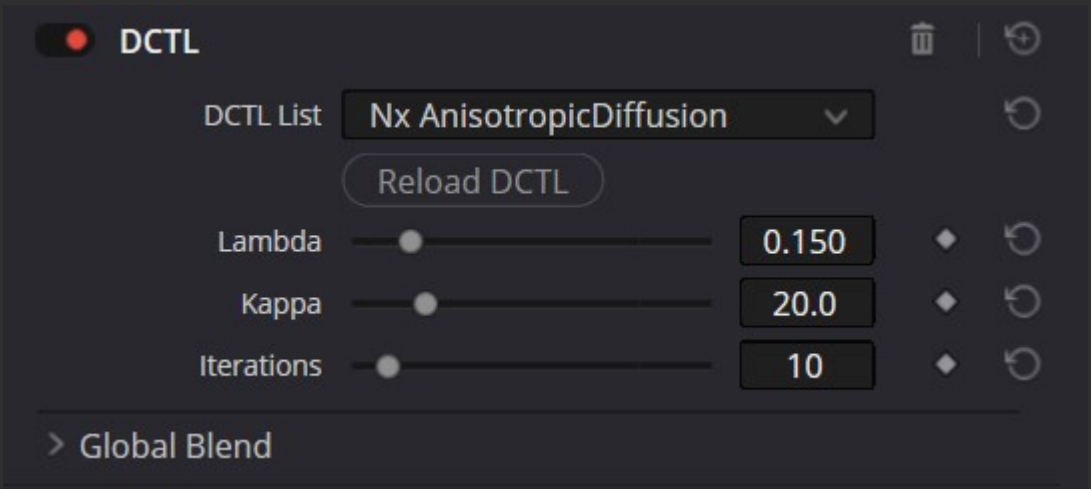
Stroke Size: Controls the size of the brush strokes.

Radius: Radius of the Kuwahara filter used to compute the brush stroke effect.



## Nx AnisotropicDiffusion

Anisotropic Diffusion, also called Perona–Malik diffusion, is a technique aiming at reducing image noise without removing significant parts of the image content, typically edges, lines or other details that are important for the interpretation of the image.



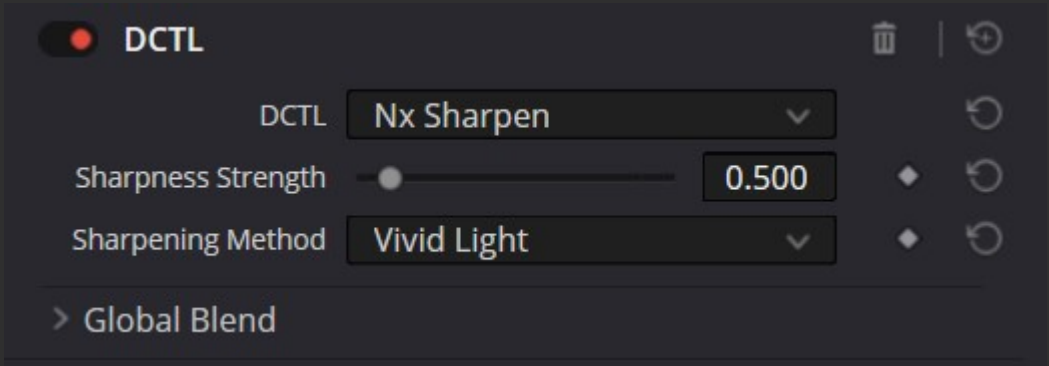
DiffusionRate (Lambda): Controls the rate of diffusion. A lower value results in less diffusion, preserving more of the image details, while a higher value increases diffusion.

EdgeThreshold (Kappa): Sets the threshold for edge detection. Higher values focus the diffusion on stronger edges, reducing diffusion across less pronounced edges.

Iterations: Determines the number of iterations for the anisotropic diffusion process. More iterations can lead to a smoother result but increase processing time.

## Nx Sharpen

The Nx Sharpen DCTL enhances the details in your video with precision and versatility. It provides two sharpening methods—High Pass for subtle and natural edge enhancement, and Vivid Light for bold and striking details. You can customize the sharpening intensity to suit your creative vision.



Sharpness Strength: Easily control the intensity of the sharpening effect using a slider.

Sharpening Methods:

- High Pass: Enhances edges for a clean, professional look.
- Vivid Light: Adds dramatic detail and vibrancy for a striking finish.

This tool is perfect for refining footage, whether you're aiming for a natural enhancement or a bold, cinematic effect.

# DCTL Tools



Make precise adjustments to Hue, Saturation, Luminance and Density in your Images.

## Nx ColorWarp

DCTL

DCTL List

Nx ColorWarp

Reload DCTL

Red Hue Warp

0.000

Green Hue Warp

0.000

Blue Hue Warp

0.000

Cyan Hue Warp

0.000

Magenta Hue Warp

0.000

Yellow Hue Warp

0.000

Red Mag Sector

0.000

Red Yellow Sector

0.000

Grn Yellow Sector

0.000

Grn Cyan Sector

0.000

Blue Cyan Sector

0.000

Blue Mag Sector

0.000

Hue Rotate

0.000

&gt; Global Blend



## Nx Saturation

DCTL

DCTL List

Nx Saturation

Reload DCTL

Red Saturation

0.000

Green Saturation

0.000

Blue Saturation

0.000

Cyan Saturation

0.000

Magenta Saturation

0.000

Yellow Saturation

0.000

Red Mag Sector

0.000

Red Yellow Sector

0.000

Grn Yellow Sector

0.000

Grn Cyan Sector

0.000

Blue Cyan Sector

0.000

Blue Mag Sector

0.000

Global Saturation

0.000

&gt; Global Blend

## Nx Luma

DCTL

DCTL List

Nx Luma

Reload DCTL

Red Luma

0.000

Green Luma

0.000

Blue Luma

0.000

Cyan Luma

0.000

Magenta Luma

0.000

Yellow Luma

0.000

Global Luma

0.000

&gt; Global Blend

## Nx Density

DCTL

DCTL List

Nx Density

Reload DCTL

Red Density

0.000

Green Density

0.000

Blue Density

0.000

Cyan Density

0.000

Magenta Density

0.000

Yellow Density

0.000

Global Saturation

0.000

&gt; Global Blend



## PowerGrades

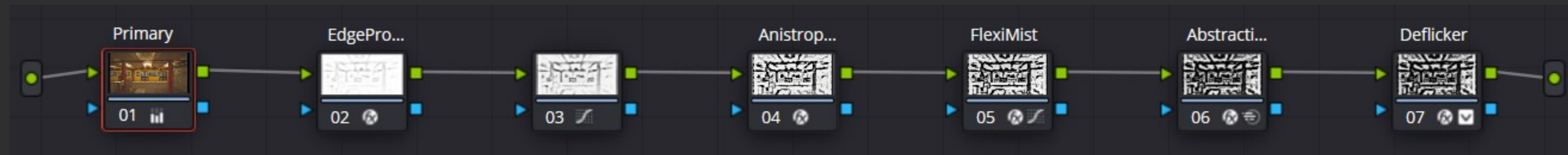
### Sketch





## PowerGrades

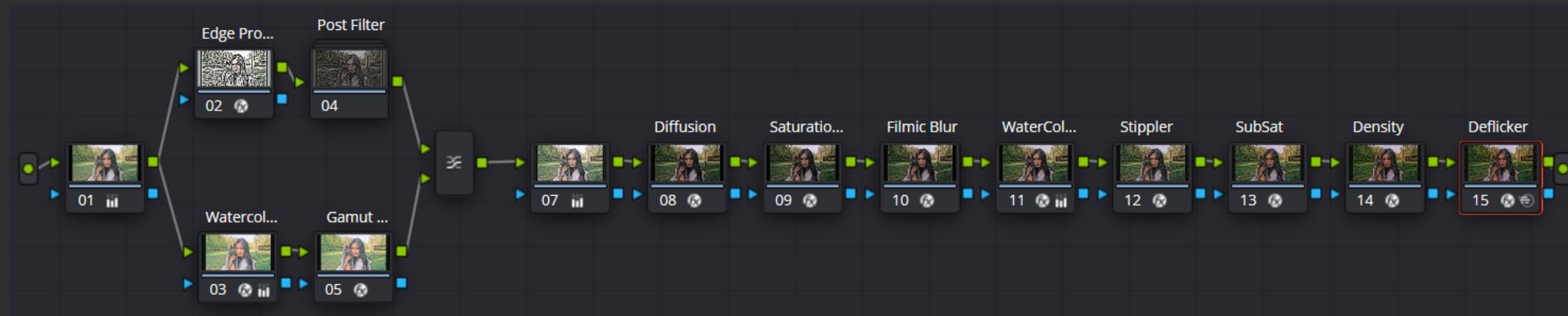
### Charcoal





# PowerGrades

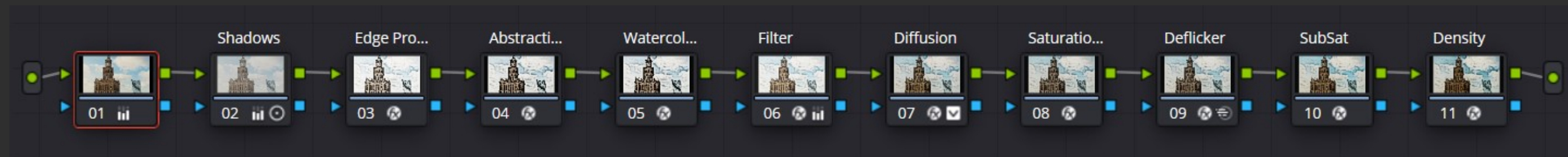
## Master Canvas





# PowerGrades

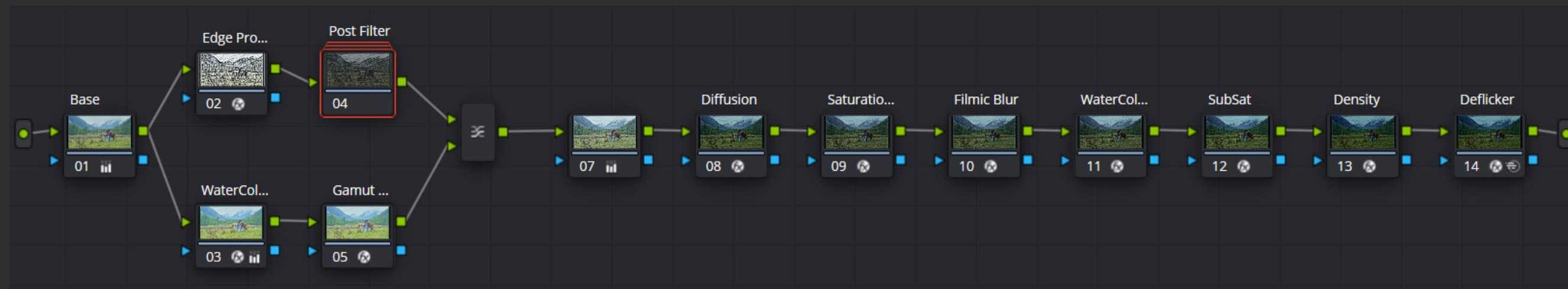
## Anime Style





# PowerGrades

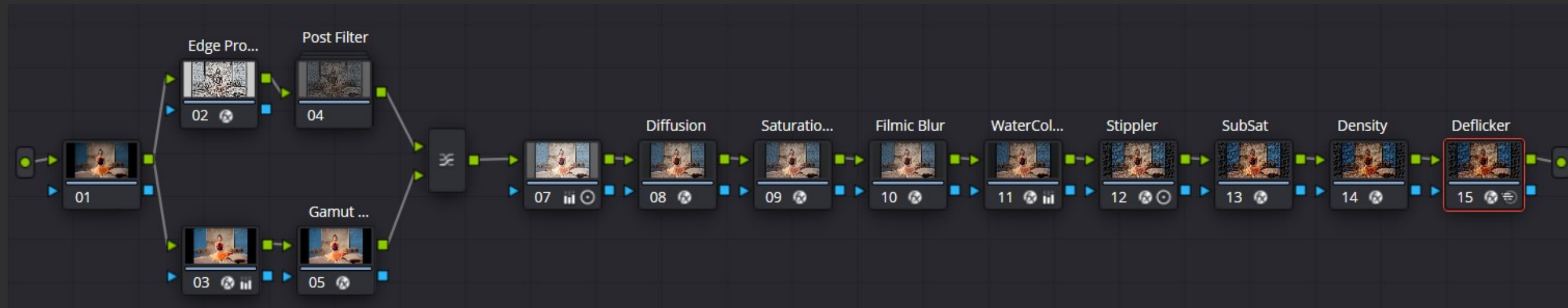
## Clean Paint





# PowerGrades

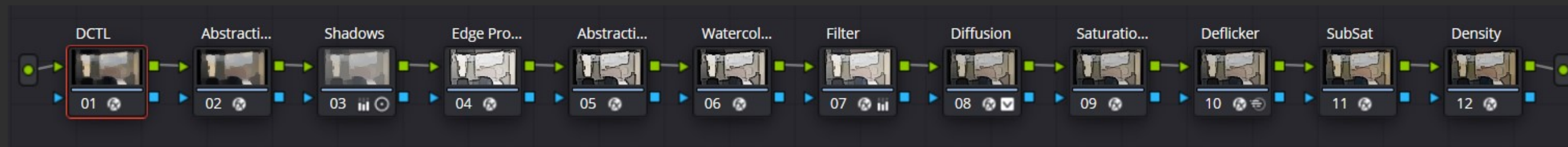
## Texture+





# PowerGrades

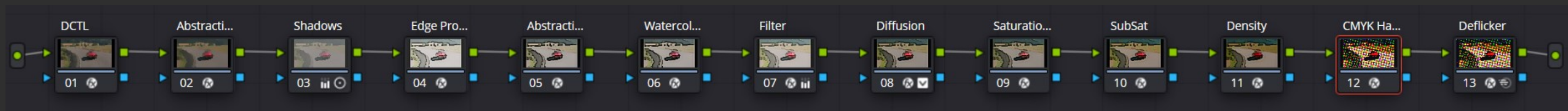
## Water Color





# PowerGrades

## Retro Print

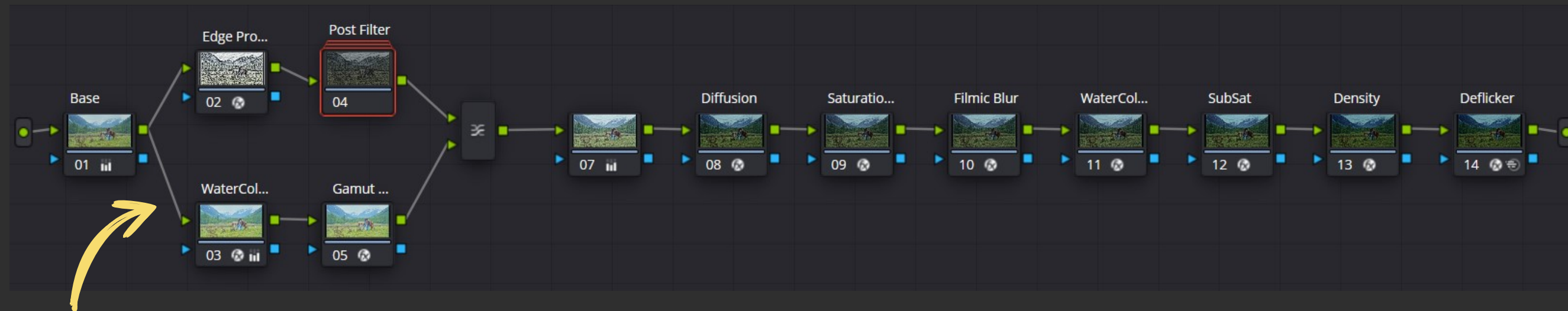






## For Master Canvas & Clean Paint

If you would like to reduce the details in the image, just as in realistic painting where very fine details are not present...



Add a Nx Kuwahara Node Here....  
Increasing the radius removes details!

Also the Nx Clarity and Nx Sharpen nodes can be added but has not been used in any powergrade. It can be added at the end of the node tree for contrast and sharpening...  
-- Note: Both Nx Clarity and Nx Sharpen are quite resource intensive.



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Power Grades and DCTL Tools



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[hello@nxcolor.com](mailto:hello@nxcolor.com)

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