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About Us

Digital Film Tools is an off-shoot of a Los Angeles based motion picture visual effects facility. Our work includes hundreds of feature films, commercials and television shows. The understanding of photography, film and video editing, and in particular visual effects, allows us to design productive and highly specialized software. Software that is useful as well as easy to use. Our products stand up to the rigors of production and are the culmination of many years of experience.

Our philosophy is to bring our visual effects tools and techniques to the masses. What was once found only in expensive high-end packages or existed as proprietary in-house tools, is now available to photographers, artists, designers, and non-linear editors. Did I mention affordable? Our software doesn't cost an arm and a leg and won't break the bank.

If you have suggestions, comments or need support, E-mail us at: dftsupport@digitalfilmtools.com. We will respond to you in a timely fashion. You can also visit our website at WWW.DIGITALFILMTOOLS.COM.

FILTER DESCRIPTIONS

55mm is the definitive set of digital optical filters meant to simulate popular glass camera filters, specialized lenses, optical lab processes, film grain, exacting color correction as well as natural light and photographic effects--all in a controlled digital environment with either 8 or 16 bits per channel processing. The set of plug-ins includes: Black & White, Black Mist, Bleach Bypass, Blur, Center Spot, Chromatic Aberration, Color Compensating, Color Conversion, Color Correct, Color Grad, Color Infrared, Color Spot, Cool Mist, Cross Processing, Day for Night, Defog, Defringe, Depth of Field, Diffusion, Double Fog, Dual Grad, Edge Glow, Enhancing, Faux Film, Flashing, Fluorescent, Fog, F-Stop, GamColor Gels, Gels, Glow, Gold Reflector, Grain, Halo, Infrared, Kelvin, Lens Distortion, Light, Light Balancing, Low Contrast, Mist, Mono Tint, ND Grad, Night Vision, Old Photo, Overexpose, Ozone, Pencil, Photographic Filters, Polarizer, Printer Points, Rack Focus, Radial Exposure, ReLight, Rosco Gels, Selective Color Correct, Selective Saturation, Silver Reflector, Skin Smoother, Soft Effects, Split Field, Split Tone, Star, Streaks, Strip Grad, Sunset/Twilight, Telecine, Temperature, Three Strip, Tint, Two Strip, Ultra Contrast, Vari-Star, Vignette, Warm Black Mist, Warm Mist, Warm Soft Effects and X-Ray.

Black Mist

The Black Mist filter creates atmosphere by reducing contrast, but with minimal glow around highlights.

Black and White

Black and White converts color images to black and white simulating the look of Black and White photographic filters.

Blur

It's fast, high quality and blurs outside the frame which removes the dark inward bleeding edges of most blurs. Horizontal, vertical or both, Blur uses either Gaussian or Box quality settings.

Bleach Bypass

Bleach Bypass is a film laboratory technique where, by skipping the bleach stage in the color processing sequence, silver is retained in the image along with the color dyes. The result is effectively a black and white image superimposed on a color image. Bleach Bypass images have increased contrast, reduced saturation, often giving a pastel effect.

Center Spot

Diffuses and blurs distracting backgrounds while keeping a center spot in focus. The center spot can be moved, sized and the amount of blur can be controlled.

Chromatic Aberration

Chromatic aberration is caused by a lens having a different refractive index for different wavelengths of light and is seen as fringes of color around the edges of the image. This fringing is removed by un-distorting the individual color channels.

Color Compensating

Color Compensating filters control color by attenuating specific parts of the spectrum. They can be used to make changes in color balance or compensate for deficiencies in the image's spectral quality.

Color Conversion

Color Conversion filters correct for significant differences in color temperature between your light source and recording media.

Color Correct

Color Correct manipulates red, green and blue values of the overall image and separately in user definable shadow, midtone and highlight areas. Hue, saturation, brightness, contrast and gamma controls allow for further control.

Color Grad

Color Grad colors and or darkens only a portion of the image giving you the ability to simulate any Color Grad or ND (Neutral Density) Grad filter. Presets for your favorite color grad filters are provided as well as the ability to create

custom colors. There is a graduated transition for a smooth color blend between the colored/darkened portion and the original image. Color Grad is especially good for changing and enhancing the color of the sky.

Color Infrared

Color Infrared simulates infrared filters used in conjunction with infrared sensitive film or sensors to produce very interesting false-color images with a dreamlike or sometimes lurid appearance.

Color Spot

Tints the image using presets for common photographic filters except for a center spot which retains normal color. The center spot can be moved, sized and the amount of blur can be controlled.

Cool Mist

The Cool Mist filter creates atmosphere by reducing contrast and glowing highlights in combination with a cooling filter.

Cross Processing

Cross-processing is a photographic technique where print film (C41) is processed in the set of chemicals usually used to process slide film (E6) or vice versa. The final result yields images with oddly skewed colors and increased contrast and saturation. Different film stocks produce different results, so we have created what we feel is a representative look.

Day for Night

Day for Night simulates a technique used for shooting exteriors in daylight made to look like they were photographed at night. Typically, it involves underexposing by two to two-and-a-half stops and using a filter to provide a tint, that is often a lavender-blue, as it mimics twilight and appears to emulate the mood of moonlight.

Defog

Using advanced deweathering algorithms, Defog restores clear day contrasts and colors of a scene taken in bad weather such as fog and mist. It is also successful in removing the effects of optical Fog and Diffusion filters.

Defringe

Purple or blue fringing around overexposed areas is a result of sensor overloading in video as well as digital still cameras. Defringe isolates and removes the various types of color fringing.

Depth of Field

Depth of Field can be added to a scene by isolating and blurring only a portion of the image. The amount of blurring is directly proportionate to the luminance of the selection settings, a gradient or an input clip.

Diffusion

Diffusion creates atmosphere by reducing contrast while creating a glow around highlights or shadows. It simulates diffusion and fog filters as well as glows. In addition, a pre-built texture library allows you to add realistic diffusion to scenes as if you were adding diffusion directly to your camera lens.

Double Fog

The Double Fog filter creates a soft, misty atmosphere over the image by first applying fog using a vanishing point along the direction of increasing distance in the image. Then, a second pass blooms image highlights.

Dual Grad

Dual Grad applies two photographic filters to the image which are blended together with a gradient.

Edge Glow

Edge Glow isolates lines and edges in an image and then adds glow only to these areas resulting in a stylized look.

Enhancing

The saturation of either the red, green or blue areas of the image are isolated and enhanced with minimal effect on other colors. This filter is frequently used to enhance fall foliage, but is also ideal for blue sky and green grass.

Faux Film

The Faux Film filter gives video and digital images the look of photographic film. It reduces contrast, creates a soft mist around highlights and adds film grain.

Flashing

Flashing allows you to use photographic filters to lower the contrast of your shadows or highlights. The motion picture lab can expose a small amount of light to the film at various stages of the developing and printing process. For example, Negative plus Dupe Negative flashing lifts blacks, while Print plus Master Positive flashing softens whites.

Fluorescent

The Fluorescent filter removes the greenish tone caused by photographing under fluorescent lights.

Fog

The Fog filter creates a soft, misty atmosphere over the image and glows highlights.

F-Stop

F-Stop manipulates red, green and blue values of the overall image and separately in user definable shadow, midtone and highlight areas using F-Stops as the unit of measure. In camera terminology, F-Stops measure the size of the lens opening, otherwise known as aperture. Each F-Stop is twice as bright as the next and is calculated using a logarithmic scale.

GamColor, CineFilters, Naked Cosmetics

Photographers, cinematographers and lighting designers use colored filters or gels in front of lights. Whether they want to create a romantic moonlit setting or a vicious, angry fight, they have the colors they need to achieve the effect. We have created digital equivalents of the lighting gels created by GAMPRODUCTS, INC. and these same exact colors can be applied to the entire image or inside a gradient. These three GAM filters contain digital gels from the GamColor, CineFilters and Naked Cosmetics collections. For detailed information about GAM Gels, you can visit their website at www.gamonline.com

Gels

Photographers, cinematographers and lighting designers use colored filters or gels in front of lights. Whether they want to create a romantic moonlit setting or a vicious, angry fight, they have the colors they need to achieve the effect. We have created digital equivalents of these lighting gels and these same exact colors can be applied to the entire image or inside a gradient.

Glow

The Glow filter creates glows around selected areas of the image.

Gold Reflector

One of the oldest and still most popular means of lighting an exterior set is by taking a reflective surface and redirecting sunlight or artificial light exactly where it is needed. Unfortunately, it is nearly impossible for actors to keep their eyes open when looking into a reflector resulting in a lot of squinting eyes. Our digital reflector allows you to add gold light into shadow areas without the squinting.

Grain

Grain simulates film grain with individual control of red, green, and blue grain size and intensity. In addition, a Film Response parameter controls where you will see grain in the image. Popular film stock presets are provided as a starting point to adding grain.

Halo

Halo causes dark areas to glow into bright areas and bright areas to glow into dark areas along with a bit of diffusion.

Infrared

Infrared simulates infrared filters used in conjunction with infrared sensitive film or sensors to produce very interesting black and white images with halation in highlight areas.

Kelvin

Degrees Kelvin is the standard unit of measure for color temperature and color temperature is a way to characterize the spectral properties of a light source. Low color temperature implies warmer (more yellow/red) light, while high color temperature implies a colder (more blue) light. Presets for a number of different light sources and conditions are provided in degrees Kelvin.

Lens Distortion

Lens Distortion corrects for pin-cushioning and barrel distortion of camera lenses. It is also useful for creating the look of a wide angle lens or placing the image into a television set.

Light!

Light can be added to a scene where none existed before just as if you were adding light at the time of shooting. Realistic lighting and shadow is introduced using the entire pattern/gobo library created by GAMPRODUCTS, INC. Normally used in front of lights during photography, these same exact patterns can now be applied digitally to the entire image or inside a selection. There are 567 patterns to choose from including blendables, breakups, Christmas, cityscapes and towns, clouds, fences and openings, fire and water, flags, flowers, foliage, holidays and symbols, moons, natural elements, religion, signage, sky and stars, spirals, spotlights and pinspots, stones and brick, structures and sets, themes, trees, vignettes and windows. In addition, digital equivalents of the lighting gels created by GAMPRODUCTS, INC. can now be applied to your light source. For detailed information about GAM Patterns and Gels, you can visit their website at www.gamonline.com.

Light Balancing

Light Balancing filters correct for minor differences in color temperature between your light source and recording media.

Low Contrast

Low Contrast spreads highlights into darker areas, lowers contrast and keeps bright areas bright.

Mist

The Mist filter creates atmosphere by reducing contrast while creating a glow around highlights.

Mono Tint

Mono Tint converts color images to black and white while applying a color tint.

ND Grad

The ND or Neutral Density Grad darkens only a portion of the image using a graduated transition between the darkened portion and the original image. It selectively adjusts brightness without affecting color balance. The most likely use for the ND Grad would be to balance the difference between the sky and the ground.

Night Vision

The Night Vision filter creates the effect of a Night Vision lens--that green, glowy, grainy look.

Old Photo

Images are treated to look like a variety of historical photographic processes including Cyanotype, Kallitype, Light Cyan, Palladium, Platinum, Sepia, Silver, Silver Gelatin and Van Dyck.

Overexpose

Overexpose simulates the overexposure that occurs when a film camera is stopped.

Ozone

The Ozone filter allows you to manipulate the color of an image with incredible flexibility and accuracy. Inspired by Ansel Adams' Zone System for still photography, we have created "The Digital Zone System". Just what is the Digital Zone System? The world around us contains an infinite palette of colors, tones and brightness. To reproduce this vast range of brightness, the Digital Zone System takes the spectrum of image values and divides them into 11 discrete zones, using proprietary image slicing algorithms. Each zone is twice as bright as the previous zone, proceeding from black towards white. With Ozone, the color, brightness, contrast and gamma of each zone can be

independently adjusted until you've painted a new picture. Your adjustments occur on a zone by zone basis, but you view the result of all color corrections simultaneously.

Pencil

Pencil converts your image to a pencil sketch.

Photographic Filters

The most complete line of Kodak® filters for photographic uses is available in the form of gelatin films and are known as Wratten® Gelatin Filters.

Photographic Filters are digital equivalents of the Wratten set and were created using the spectral transmission curves for each optical filter.

Polarizer

The greatest use of polarizing filters is to achieve a darkened, deep blue sky. Our digital version of the Polarizer is designed to do just that. Through the use of a selection and an adjustable gradient, the color of the sky can be adjusted.

Printer Points

Printer Points manipulate the red, green and blue values of the overall image and separately in user definable shadow, midtone and highlight areas using motion picture laboratory printer points as the unit of measure. When creating color prints for motion pictures, a contact printer performs scene-to-scene color corrections. The most popular printing method is additive printing that uses three separate colored sources - red, green, and blue which are combined to form the light source that exposes the film. The red, green, and blue light valves in the printer are adjusted in values of 1, 2, 3. . . up to 50 for each primary color and are called printer points or printer lights.

Rack Focus

Rack Focus replicates a true camera defocus by introducing lens bokeh effects. Bokeh is the Japanese term that describes the quality of out-of-focus points of light. In defocused areas, each point of light becomes a shape--either a circle or a polygon. The shape grows in size as the amount of defocusing is increased.

Radial Exposure

Lightens and/or darkens the center or edges of an image to correct lens vignetting.

ReLight

Light can be added to a scene where none existed before. A complete set of light source controls allow you to adjust the light just as you would at the time of shooting. In addition, digital equivalents of the lighting gels created by GAMPRODUCTS, INC. can be applied to your light source. For detailed information about GAM Gels, you can visit their website at

www.gamonline.com.

Rosco Calcolor, Cinegel, Cinelux and Storaro Selection

Photographers, cinematographers and lighting designers use colored filters or gels in front of lights. Whether they want to create a romantic moonlit setting or a vicious, angry fight, they have the colors they need to achieve the effect. We have created digital equivalents of the lighting gels created by Rosco and these same exact colors can be applied to the entire image or inside a gradient. These four Rosco filters contains gels from the Calcolor, Cinegels, Cinelux and Storaro Selection. For detailed information about Rosco Gels, you can visit their website at www.rosco.com

Selective Color Correct

Colors can be selectively isolated through the use of a selection and adjusted using hue, saturation, brightness, gamma, contrast, red, green, and blue controls.

Selective Saturation

The saturation of the image can be adjusted independently in the shadows, midtones and highlights.

Silver Reflector

One of the oldest and still most popular means of lighting an exterior set is by taking a reflective surface and redirecting sunlight or artificial light exactly where it is needed. Unfortunately, it is nearly impossible for actors to keep their eyes open when looking into a reflector resulting in a lot of squinting eyes. Our digital reflector allows you to add light into shadow areas without the squinting.

Skin Smoother

Skin Smoother softens wrinkles and blemishes producing smooth skin textures while retaining detail in larger features such as the eyes, nose and mouth.

Soft Effects

Soft Effects diffuses the image in such a way that minimizes facial imperfections while retaining overall clarity.

Split Field

Split Field splits the image with a line that can be positioned, rotated and blurred. On one side of the line, the image is blurred and on the other, it is in focus.

Split Tone

Shadows, midtones and highlights can be individually tinted with the Split Tone filter.

Star

Six point star patterns are generated on highlights in the image.

Streaks

The Streaks filter creates horizontal or vertical streaks around highlights in the image.

Strip Grad

Strip Grad colors and or darkens only a portion of the image in the form of a narrow strip using photographic filters. Presets for your favorite color grad filters are provided as well as the ability to create custom colors. There is a graduated

transition for a smooth color blend between the colored/darkened portion and the original image. Strip Grad is especially good for changing and enhancing a narrow portion of the sky.

Sunset/Twilight

Sunset/Twilight applies three photographic filters to the image which are blended together with a gradient.

Telecine

Telecine emulates the method of color correction done in a telecine film to tape transfer suite. Hue, saturation, brightness, contrast, gamma and pedestal values of the overall image can be adjusted as well as separately in user definable shadow, midtone and highlight areas.

Temperature

Temperature manipulates the temperature, cyan/magenta and brightness values of the overall image and separately in user definable shadow, midtone and highlight areas.

Three Strip

Known and celebrated for its ultra-realistic, saturated levels of color, the Technicolor® Three Strip process was commonly used for musicals, costume pictures and animated films. It was created by photographing three black and white strips of film each passing through red, green and blue filters on the camera lens and then recombining them in the printing process. Our Three Strip filter was created under the direction of Academy Award Winning Visual Effects Supervisor Rob Legato.

Tint

Colored tints are applied to the entire image or inside a gradient.

Two Strip

The Technicolor® Two Strip process was the first stab at producing color motion pictures and consisted of simultaneously photographing two black and white images using red and green filters. This look creates an odd but pleasing hand-painted look where faces appear normal and green takes on a blue-green

quality, while the sky and all things blue appear cyan. Our Two Strip filter was created under the direction of Academy Award Winning Visual Effects Supervisor Rob Legato.

Ultra Contrast

Ultra Contrast lowers contrast evenly throughout the image by brightening shadow areas and darkening highlights. It is useful for correcting dark foreground subjects due to strong backlighting as well as highlights that are slightly washed out.

Vari-Star

Variable multi-point star patterns are generated on highlights in the image.

Vignette

A vignette, or soft fade, is a popular photographic effect where the photo gradually fades into the background, usually in an oval or square shape. The vignette can be any color as well as thrown out of focus.

Warm Black Mist

The Warm Black Mist filter creates atmosphere by reducing contrast, but with minimal glow around highlights in combination with a warming filter.

Warm Mist

The Warm Mist filter creates atmosphere by reducing contrast and glowing highlights in combination with a warming filter.

Warm Soft Effects

Warm Soft Effects diffuses the image in such a way that minimizes facial imperfections while retaining overall clarity in combination with a warming filter.

X-Ray

Simulates the look of X-Ray images.

INSTALLATION

Adobe Photoshop

Installation

- 1 Download 55mm at WWW.DIGITALFILMTOOLS.COM
- 2 Run the installer and place the 55mm filters into your Adobe/Photoshop/Plug-Ins folder.

Note: If you are running a program other than Adobe Photoshop, you will need to select the Plug-In folder for your application.

- 3 Start Photoshop and load an image.
- 4 From the Filter pull-down menu, select one of the 55mm filters from a Digital Film Tools 55mm v7 filter group.
- 5 A registration dialog box pops up the first time that you run 55mm.
- 6 Click the Demo or Cancel buttons in the registration dialog and 55mm will operate in Demo mode.
- 7 The 55mm Preview window opens and you're ready to go.

In Demo mode, a watermark is superimposed over the image when the filter is applied.

Licensing

- 1 To convert the 55mm filters from Demo mode to full operation, you must install a Serial number.
- 2 You can obtain a Serial number by purchasing the filters at WWW.DIGITALFILMTOOLS.COM
- 3 Once you purchase the filters, a Serial number will be sent to you via email.

Apple Final Cut Pro

Installation

- 1 Download 55mm at WWW.DIGITALFILMTOOLS.COM
- 2 Run the installer and place the 55mm plug-ins into your Final Cut Pro plug-ins folder usually located at /Library/Application Support/Final Cut Pro System Support/Plugins.
- 3 Start Final Cut Pro and select a clip in the Timeline by double-clicking on it.
- 4 Apply one of the 55mm filters by selecting one from the Effects>Video Filters>DFT 55mm v7 pull-down menus.

When you apply one of the 55mm filters to a clip, you will see a watermark superimposed over the image. This means that you are in Demo mode.

Licensing

- 1 To convert the 55mm filters from Demo mode to full operation, you must install a Serial number.
- 2 You can obtain a Serial number by purchasing the filters at WWW.DIGITALFILMTOOLS.COM
- 3 Once you purchase the filters, a Serial number will be sent to you via email.

After Effects & After Effects Compatible Programs

Installation

- 1 Download 55mm at WWW.DIGITALFILMTOOLS.COM
- 2 Run the installer and place the 55mm filters in your application's plug-in folder. For After Effects, this is usually the Adobe\After Effects\Plug-ins folder.
- 3 Start After Effects or your After Effects plug-in compatible application and find the 55mm filters in the Effects pull-down menu. They will be located in the DFT 55mm v7 effect groups.

When you apply one of the 55mm filters to a clip, you will see a watermark superimposed over the image. This means that you are in Demo mode.

Licensing

- 1 To convert the 55mm filters from Demo mode to full operation, you must install a Serial number.
- 2 You can obtain a Serial number by purchasing the filters at WWW.DIGITALFILMTOOLS.COM
- 3 Once you purchase the filters, a Serial number will be sent to you via email.

Avid Editing Systems

Installation

- 1 Download 55mm at WWW.DIGITALFILMTOOLS.COM
- 2 Run the installer and place the 55mm filters into your AVX_Plug-ins folder. For Windows users, this is normally the C:\Program Files\Avid\AVX_Plug-ins folder. For Mac Users, this is usually the Media Composer\SupportingFiles\AVX_Plug-ins folder.

Note: For Mac users that have Avid editing systems other than Media Composers, the AVX_Plug-ins folder is usually located at "Your Avid System"\SupportingFiles\AVX_Plug-ins.

- 3 Start your Avid editing software and find the 55mm filters in the Effects Palette. They will be located in the DFT 55mm v7 effect groups.

When you apply one of the 55mm filters to a clip, you will see a watermark superimposed over the image. This means that you are in Demo mode.

Licensing

- 1 To convert the 55mm filters from Demo mode to full operation, you must install a Serial number.
- 2 You can obtain a Serial number by purchasing the filters at WWW.DIGITALFILMTOOLS.COM
- 3 Once you purchase the filters, a Serial number will be sent to you via email.

Avid | DS

Installation

- 1 Download 55mm at WWW.DIGITALFILMTOOLS.COM
- 2 Run the installer and place the 55mm filters in your AVX_Plug-ins folder. This is normally the C:\Program Files\Avid\AVX_Plug-ins folder.
- 3 Start Avid | DS and apply a Clip, Track or Timeline effect.
- 4 Under Image Effects, select AVX Host.
- 5 Choose one of the DFT 55mm v7 effect groups in the Group/Category and one of the 55mm filters in the Effect Category.

You will see a watermark superimposed over the image. This means that you are in Demo mode.

Licensing

- 1 To convert the 55mm filters from Demo mode to full operation, you must install a Serial number.
- 2 You can obtain a Serial number by purchasing the filters at WWW.DIGITALFILMTOOLS.COM
- 3 Once you purchase the filters, a Serial number will be sent to you via email.

GENERAL CONTROLS

There are some general controls that are common to all of the filters. For simplicity they will be listed here.

View

Chooses what to view. The choices in this menu will change depending on the filter.

Photoshop Macintosh Eyedropper

The Eyedropper that we use in the Photoshop Macintosh version of 55mm is a checkbox icon that appears to the right of color boxes. When it is activated, the cursor turns into a hand icon when moved over the image in the 55mm Preview window. Click the desired color on the image and it will become the current color.



Blur

Horizontal Blur

The image is blurred by a fast, quality blur along the X-axis.

Vertical Blur

The image is blurred by a fast, quality blur along the Y-axis.

Gang

The horizontal and vertical slider values can be ganged together. Slide the horizontal slider to affect both values.

Note: When Gang is turned on, the vertical slider doesn't physically move. However, the vertical value will follow the value of the horizontal slider when Gang is turned on.

DVE

The DVE allows you to transform your image using Position, Scale, Rotation, Corner Pin, Shear and Crop controls.

Crop

Top

Crops the image from the top down.

Bottom

Crops the image from the bottom up.

Left

Crops the image from left to right.

Right

Crops the image from right to left.

Corner Pin

The image can be corner pinned by adjusting the Corner Pin sliders as well as dragging the four points on the corners of the screen.

Note: You may need to zoom the image out a bit to see the corner points. In addition, to see and adjust the corner points in After Effects, make sure that the effect title in the Effect Controls window is highlighted.



For Final Cut Pro and Combustion, you must activate the cross hair icon next to the corner position parameters to see and adjust the corner points on the screen.



Upper-Left

Controls the X and Y position of the Upper Left Point.

Upper-Right

Controls the X and Y position of the Upper Right Point.

Lower-Right

Controls the X and Y position of the Lower Right Point.

Lower-Left

Controls the X and Y position of the Lower Left Point.

There are four points around the four corners of the image. By clicking and dragging any of the four points, the foreground can be adjusted.

Position

Position X

The horizontal position of the image.

Position Y

The vertical position of the image.

Note: In Photoshop, Position can be adjusted by clicking and dragging an on-screen control in the center of the image. For Final Cut Pro and Combustion, you must activate the cross hair icon next to the Position parameter.

Scale

Scale X

The horizontal scale of the image.

Scale Y

The vertical scale of the image.

Gang Scale

The Scale X and Scale Y slider values can be ganged together.

Note: When Gang is turned on, the Scale Y slider doesn't physically move. However, the Scale Y value will follow the value of the Scale X slider when Gang is turned on.

Rotate

In addition to the standard position and scale controls, the image can be rotated. Positive values rotate clockwise and negative values rotate counter-clockwise.

Shear

Shear X

Skews the image left and right.

Shear Y

Skews the image up and down.

Anchor

Anchor X

Defines the point on the X axis where the image will be positioned, rotated, scaled or sheared.

Anchor Y

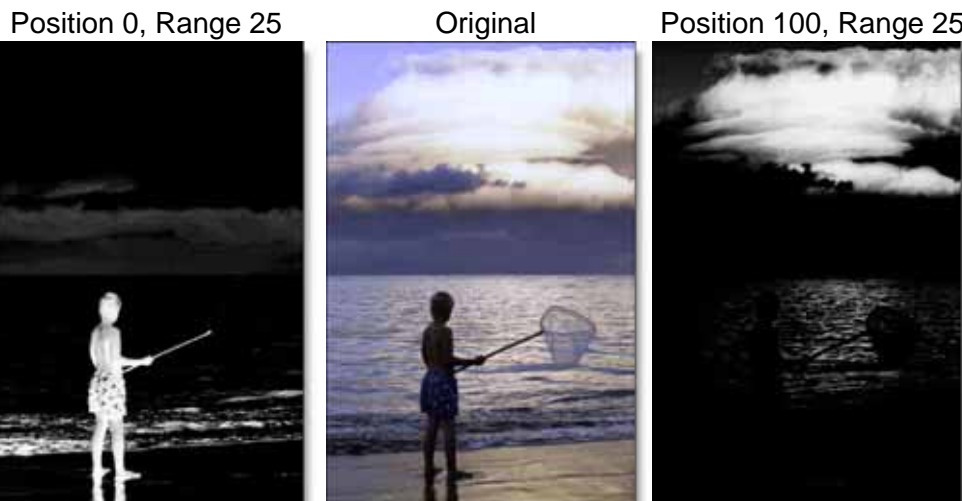
Defines the point on the Y axis where the image will be positioned, rotated, scaled or sheared.

Selection

In some of the 55mm filters, a selection is generated to create the desired effect. The Selection controls consist of Position, Range and Blur parameters, and they work the same in all of the filters. The white areas of the selection are the areas that will be affected by the filter, while the black areas remain unaffected. The selection is extracted based on luminance, in most cases, and is created using the Position and Range parameters.

Position

Selects the values to be included in the selection. A higher Position value shows more white values from the original image as white values in the selection. A lower Position value shows more black values from the original image as white values in the selection.



Photos © THINKSTOCK LLC--WWW.THINKSTOCK.COM

Range

Controls the range of values to be used for the selection. Once you've selected the "Position", you can then add or subtract the "Range" of values to be included in the selection. A higher Range value includes more white values in the selection while a lower Range value includes less values in the selection.

Position 100, Range 25 Original Position 100, Range 75



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Blur

The selection is blurred by a fast, quality blur.

RGB Rendering (On)

Turns RGB Rendering on or off.

In Apple Final Cut Pro, when your sequence is set to "Always Render in RGB", the foreground image is compressed a third of the size at the top of the screen. This is a Final Cut Pro bug. To avoid this problem, activate this parameter.

Force 16-bit Processing

Turns 16 bit processing on or off.

A Force 16-bit processing function allows you to process in 16 bit even if your source images are 8 bit. 16 bit processing take longer to render, but will remove banding artifacts associated with 8 bit processing.

GENERAL CONTROLS - ADOBE PHOTOSHOP

In addition to the General Controls previously listed, the 55mm version for Adobe Photoshop has some of it's own General Controls.

Zoom Buttons

At the bottom of the 55mm Preview window, there are buttons to zoom the image.



Fit

Fits the entire image into the Preview window. The Fit mode yields the quickest interaction when editing parameters.

- Makes the image in the Preview window smaller.

Tip: When using the + and 1:1 buttons, you are able to pan the image by clicking with the left mouse button and dragging in the image area.

+ Makes the image in the Preview window larger.

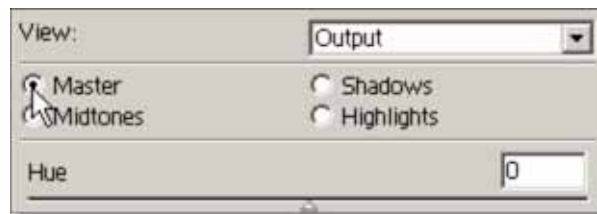
1:1

Makes the image in the Preview window a 1:1 zoom ratio and shows the actual pixels of the image. The 1:1 setting accurately represents what the filter will look like when applied to the full size image.

Warning: When using the + and 1:1 buttons in conjunction with large blur settings and large image sizes, the 55mm filters will run slower and will require more RAM.

Parameter Groups

Some of the filters have multiple parameter groups. When a parameter group is selected, the controls for that group appear and can be adjusted. The parameter groups are located at the top right of the 55mm Preview window just below the View menu.

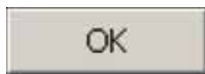


Miscellaneous Buttons

Across the bottom of the 55mm Preview window, there are a few miscellaneous buttons.

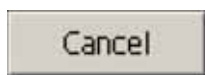
OK

Applies all 55mm adjustments to your full resolution image.



Cancel

Cancels the 55mm filter and closes the Preview window.



Reset

Resets all parameter values for the 55mm filter.



Save

Saves the settings for the 55mm filter which can be reloaded at a later time using the Load button.



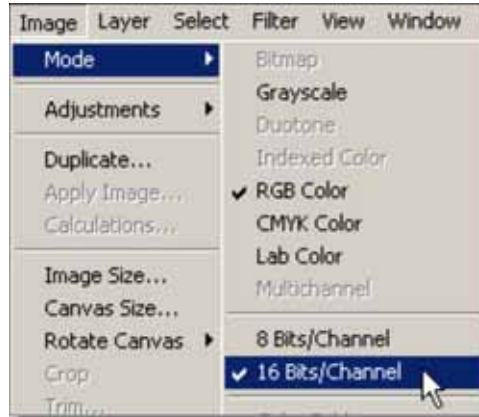
Load

Loads the settings of a previously saved 55mm filter.



16 Bits/Channel Processing

All of the 55mm filters can process in either 8 or 16 bit depending on whether 8 Bits/Channel or 16Bits/Channel are selected in the Photoshop Image>Mode menu.



BLACK AND WHITE

Category

Color Correct.

Description

Black and White converts color images to black and white simulating the look of Black and White photographic filters.

Before



After



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Go to the [Black and White - Tutorial](#) on page 33 to see how the filter works.

Filter

The Filter pop-up selects the type of black and white filter to be applied to your color image.

Normal

Converts the color image to a monochrome image.

Red

Simulates a red filter in black and white photography.

Green

Simulates a green filter in black and white photography.

Blue

Simulates a blue filter in black and white photography.

Yellow

Simulates a yellow filter in black and white photography.

Orange

Simulates an orange filter in black and white photography.

Brightness

Adjusts the brightness of the image. Positive values brighten, negative values darken.

Contrast

Adjusts the contrast of the image. Positive values increase contrast, negative values decrease contrast.

Gamma

Adjusts the gamma of the image. The gamma adjustment leaves the white and black points the same and only modifies the values in-between. Positive values darken the midtones, negative values lighten the midtones.

Black and White - Tutorial

Black and White converts color images to black and white simulating the look of Black and White photographic filters.

- 1 Apply the Black and White filter to an image.**
- 2 From the filter pop-up, select the type of black and white filter to be applied to your color image.**
Your choice of filter can dramatically change the black and white result.
- 3 Use the Brightness, Contrast and Gamma controls to further adjust the image.**

BLEACH BYPASS

Category

Film Lab.

Description

Bleach Bypass is a film laboratory technique where, by skipping the bleach stage in the color processing sequence, silver is retained in the image along with the color dyes. The result is effectively a black and white image superimposed on a color image. Bleach Bypass images have increased contrast, reduced saturation, often giving a pastel effect.



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Go to the [Bleach Bypass - Tutorial](#) on page 35 to see how the filter works.

Amount

Sets the intensity of the bleach effect.

Saturation

Adjusts the saturation of the image. Positive values saturate, negative values desaturate.

Contrast

Adjusts the contrast of the image. Positive values increase contrast, negative values decrease contrast.

Temperature

Sets the color temperature of the image. Dragging the slider to the right makes the image cooler (bluer) and dragging the slider to the left makes the image warmer (redder).

Bleach Bypass - Tutorial

Bleach Bypass is a film laboratory technique where, by skipping the bleach stage in the color processing sequence, silver is retained in the image along with the color dyes. The result is effectively a black and white image superimposed on a color image. Bleach Bypass images have increased contrast, reduced saturation, often giving a pastel effect.

- 1 Apply the Bleach Bypass filter to an image.**
- 2 Use the Amount slider to control the strength of the Bleach Bypass filter.**
- 3 Saturation, Contrast and Temperature sliders are provided for additional enhancement.**

BLUR

Category

Blurs.

Description

It's fast, high quality and blurs outside the frame which removes the dark inward bleeding edges of most blurs. Horizontal, vertical or both, Blur uses either Gaussian or Box quality settings.

Before



After



Photos © THINKSTOCK LLC--WWW.THINKSTOCK.COM

Go to the [Blur - Tutorial](#) on page 37 to see how the filter works.

Quality

Selects the quality of the blur.

Box

A fast, lower quality box blur.

Gaussian

A slower, higher quality gaussian blur.

Blur

Horizontal Blur

The image is blurred along the X-axis.

Vertical Blur

The image is blurred along the Y-axis.

Gang

The horizontal and vertical slider values can be ganged together. Slide the horizontal slider to affect both values.

Note: When Gang is turned on, the vertical slider doesn't physically move. However, the vertical value will follow the value of the horizontal slider when Gang is turned on.

Blur - Tutorial

It's fast, high quality and blurs outside the frame which removes the dark inward bleeding edges of most blurs. Horizontal, vertical or both, Blur uses either Gaussian or Box quality settings.

- 1 Apply the Blur filter to an image.**
- 2 Adjust the Horizontal Blur slider.**
Since the Gang button is activated, the Vertical Blur slider moves along with the Horizontal.
- 3 Un-click the Gang slider and now the Horizontal and Vertical slider can be moved independently.**
- 4 Change the Quality setting from Box to Gaussian.**
Gaussian is a higher quality blur, but comes with a price--it's slower.

CENTER SPOT

Category

Blurs.

Description

Diffuses and blurs distracting backgrounds while keeping a center spot in focus. The center spot can be moved, sized and the amount of blur can be controlled.

Before



After



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Go to the [Center Spot - Tutorial](#) on page 40 to see how the filter works.

Blur

Horizontal

The image is blurred by a quality blur along the X-axis except in the area of the center spot.

Vertical

The image is blurred by a quality blur along the Y-axis except in the area of the center spot.

Gang

The horizontal and vertical slider values can be ganged together. Slide the horizontal slider to affect both values.

Note: When Gang is turned on, the vertical slider doesn't physically move. However, the vertical value will follow the value of the horizontal slider when Gang is turned on.

Spot

A spot in the form of a radial gradient is used to control where blur is added to the image.

Position

Position X

The horizontal position of the center spot.

Position Y

The vertical position of the center spot.

Note: There is an on-screen control in the center of the image. By clicking and dragging the on-screen control, the position of the spot can be adjusted. To see the on-screen control in After Effects, you may need to highlight Center Spot in the Effect Controls window, and in Final Cut Pro and Combustion, you will have to click on the crosshair icon to the right of the Position parameter. On Avid Editing Systems, the Position parameters are named only X and Y.

Aspect

The aspect ratio of the spot.

Radius

The un-blurred radius of the spot.

Falloff Radius

The blurred edge radius.

Falloff

Moves the falloff towards the spot centerpoint.

Center Spot - Tutorial

Center Spot diffuses and blurs distracting backgrounds while keeping a center spot in focus. The center spot can be moved, sized and the amount of blur can be controlled

- 1 Apply the Center Spot filter to an image.**
- 2 Adjust the Spot>Position, Radius, Falloff Radius and Falloff.**
The area covered by the spot will be in focus with all other areas blurred.
- 3 If you are curious, you can see what the Spot looks like by changing your View to Spot. Change your View to Output when done.**
- 4 Adjust the Horizontal and Vertical Blur to your liking.**

CHROMATIC ABERRATION

Category

Lens.

Description

Chromatic aberration is caused by a lens having a different refractive index for different wavelengths of light and is seen as fringes of color around the edges of the image. This fringing is removed by un-distorting the individual color channels.



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Go to the [Chromatic Aberration - Tutorial](#) on page 135 to see how the filter works.

Note: The Photoshop zoom controls only work at the Fit and 1:1 settings when using Chromatic Aberration.

There are some new types of color fringes that are not chromatic aberration. These effects might be visible as purple or blue fringes and are visible around overexposed areas in most cases. If the following conditions apply, your image most likely has true chromatic aberration as opposed to color fringing caused by sensor overloading:

- **Corners should show most color fringes whereas the center should show none.**
- **Color fringes should be not only at the edges of overexposed areas but at lower contrast edges, too.**

- Color fringes should be of complementary color (red-cyan, green/magenta, and blue-yellow) on opposite sides of a dark or bright area.
- Color fringes should be in all corners the same direction and pointing out from the center.

Red/Cyan, Green/Magenta, Blue/Yellow

Use the appropriate color group to remove the chromatic aberration. For instance, if you see red/cyan fringing, use the Red/Cyan group. Start by adjusting the Distortion parameter.

Distortion

Pulls the corners of the image in or out. Negative values pull the corners of the image inward while positive values pull the corners of the image outward.

Anamorphic Squeeze

Anamorphic Squeeze corrects for the squeeze found in anamorphic motion picture lenses.

Curvature X and Y

Curvature X and Y correct for non-radial, asymmetric distortions found in anamorphic motion picture lenses.

Note: Anamorphic Squeeze and Curvature X and Y only work once the Distortion parameter has been moved.

Center X and Y

Determines the center point for the distortion.

Chromatic Aberration - Tutorial

Chromatic aberration is caused by a lens having a different refractive index for different wavelengths of light and is seen as fringes of color around the edges of the image. This fringing is removed by un-distorting the individual color channels.

- 1 Apply the Chromatic Aberration filter to an image.**
- 2 Look at the edges of the image and determine if the chromatic aberration is red/cyan, green/magenta, or blue/yellow.**
- 3 Start by adjusting the Distortion parameter for the particular color fringing that you are trying to remove. For instance, if you see red/cyan fringing, adjust the Distortion slider in the Red/Cyan group.**

If you are using anamorphic motion picture lenses or are experiencing non-radial, asymmetric fringing, you may need to adjust the Anamorphic Squeeze and Curvature X/Y parameters.

COLOR CORRECT

Category

Color Correct.

Description

Color Correct manipulates red, green and blue values of the overall image and separately in user definable shadow, midtone and highlight areas. Hue, saturation, brightness, contrast and gamma controls allow for further control.

Before



After



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Go to the [Color Correct - Tutorial](#) on page 47 to see how the filter works.

Note: The following color correction parameters are included in other applicable filters.

Master

The master settings affect the entire image.

Hue

Rotates the hue of the image.

Saturation

Adjusts the saturation of the image. Positive values saturate, negative values desaturate.

Brightness

Adjusts the brightness of the image. Positive values brighten, negative values darken.

Contrast

Adjusts the contrast of the image. Positive values increase contrast, negative values decrease contrast.

Gamma

Adjusts the gamma of the image. The gamma adjustment leaves the white and black points the same and only modifies the values in-between. Positive values darken the midtones, negative values lighten the midtones.

Red

Adds or subtracts red from the image.

Green

Adds or subtracts green from the image.

Blue

Adds or subtracts blue from the image.

Flashing

The Flash parameters mix a color into the image through the use of a standard color picker. The default color is white. What in the world is this for? It is a great way to add atmosphere to an element. Flash comes from the film term "flashing", which describes the optical process of lowering the contrast of an image by flashing it with light.

- **Flash Amount**

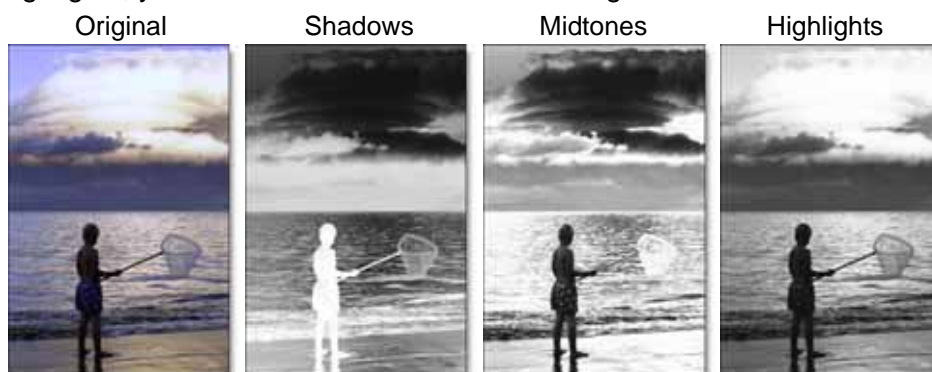
Sets the opacity of the Flash Color.

- **Flash Color**

The Flash Color can be set through the use of a standard color picker.

Shadows, Midtones, Highlights

Adjusting parameters within the shadows, midtones and highlights will only affect those specific areas. If you are unsure about what values are included in the shadows, midtones and highlights, you can use the View pop-up menu. It will allow you to view the shadows, midtones and highlights as a black and white selection. The white areas are the areas that will be adjusted by that particular group. For instance, if you see white areas while viewing the midtones, then midtone color adjustments will affect only those white areas. If you want to change the default areas defined by the shadows, midtones and highlights, you would use the Position and Range sliders.



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Go to the **Selection** section of General Controls on page 25 to see how the Position and Range controls work.

Position

The Position slider pinpoints the values to be considered as shadows, midtones, or highlights. A low Position value uses the darkest image values, while a high Position value uses the brightest.

Range

Increases or decreases the range of values considered as shadows, midtones or highlights. A low Range value indicates a narrow range of values, while a high Range value indicates a large range of values.

Red

Adds or subtracts red from the shadows, midtones or highlights.

Green

Adds or subtracts green from the shadows, midtones or highlights.

Blue

Adds or subtracts blue from the shadows, midtones or highlights.

Brightness

Adjusts the luminance of the shadows, midtones or highlights.

Contrast

Adjusts the contrast of the shadows, midtones or highlights.

Gamma

Adjusts the gamma of the shadows, midtones or highlights.

Color Correct - Tutorial

Color Correct manipulates red, green and blue values of the overall image and separately in user definable shadow, midtone and highlight areas. Hue, saturation, brightness, contrast and gamma controls allow for further control.

The F-Stop, Printer Points, Telecine, and Temperature filters all work in a similar fashion to Color Correct.

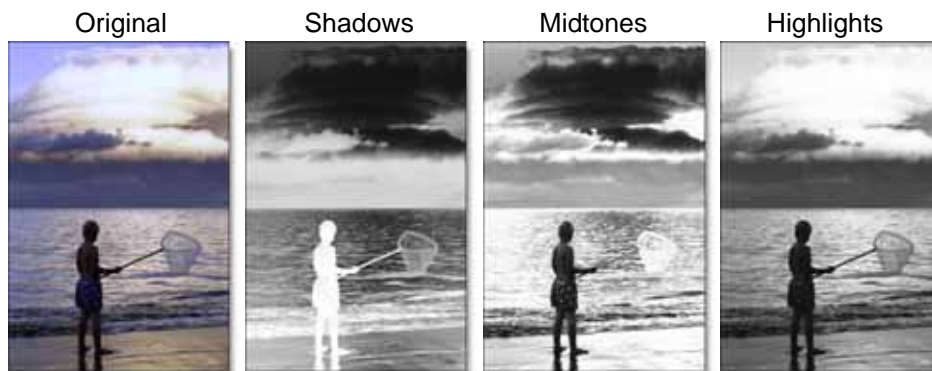
- 1 Apply the Color Correct filter to an image.**
- 2 Adjust any of the controls in the Master group.**

The master settings affect the entire image. However, Color Correct also uses selections in the shadow, midtone and highlight regions for you to adjust the color selectively in those areas.

Note: Lift, Gamma and Gain in the Telecine filter are the same as Shadows, Midtones and Highlights in the Color Correct filter.

- 3 Change your View to Shadows, Midtones or Highlights to see the selection values.**

The areas that are white in the selection are the areas that will be adjusted by the color controls. The areas defined as shadows, midtones or highlights can be adjusted by modifying the Position and Range parameters.



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- 4** Use the Shadows, Midtones or Highlights Position parameters if you want to select different values to be used for the selection.
- 5** Increase the Shadows, Midtones or Highlights Range controls to add more values to the selection. Decrease for less values.
- 6** Change your View to Output to see the image.
- 7** Adjust the color controls in the Shadows, Midtone or Highlight controls to see how it affects your image.

COLOR GRAD

Category

Grads / Tints.

Description

Color Grad colors and or darkens only a portion of the image giving you the ability to simulate any Color Grad or ND (Neutral Density) Grad filter. Presets for your favorite color grad filters are provided as well as the ability to create custom colors. There is a graduated transition for a smooth color blend between the colored/darkened portion and the original image. Color Grad is especially good for changing and enhancing the color of the sky.

Before



After



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Go to the [Color Grad - Tutorial](#) on page 53 to see how the filter works.

Filters

Presets

Select one of the filters from the pop-up list. Go to [Appendix D](#) on page 283 to see the complete list of filters.

Color

The Color parameter sets the color of the grad through the use of a standard color picker.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the Presets pop-up menu.

Opacity

Sets the opacity of the color filter.

Preserve Highlights

Preserves the white areas of the image.

Exposure Compensation

Exposure Compensation adds back the brightness loss as a result of the filter application.

Grad

Grad is the transition area that goes from the tinted image to the original image. Its direction, corners and size can be adjusted.

Enable

Turns the Grad on and off.

ND Brightness

Sets the brightness of the darkened portion of the Grad.

Direction

Controls the direction of the Grad.

Top-to-bottom

The direction of the Grad is from top to bottom.

Bottom-to-top

The direction of the Grad is from bottom to top.

Left-to-right

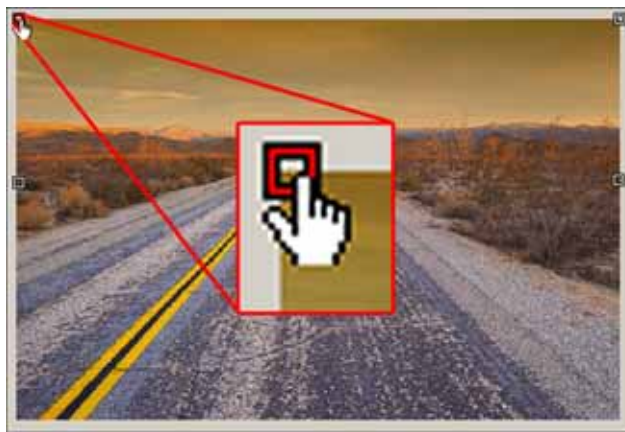
The direction of the Grad is from left to right.

Right-to-left

The direction of the Grad is from right to left.

Corner Pin

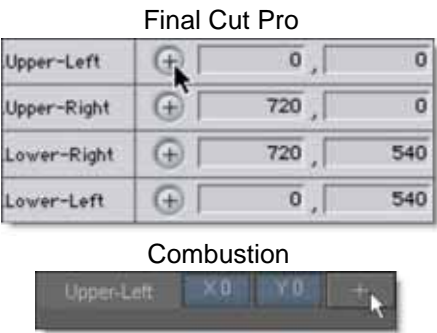
There are four points around the four corners of the image. By clicking and dragging any of the four points, the Grad can be adjusted.



Note: You may need to zoom the image out a bit to see the corner points. In addition, to see the corner points in After Effects, make sure that Color Grad in the Effect Controls window is highlighted.



For Final Cut Pro and Combustion, you must activate the cross hair icon next to the corner position parameters to see and adjust the corner points on the screen.



Upper Left

Controls the X and Y position of the Upper Left Point.

Upper Right

Controls the X and Y position of the Upper Right Point.

Lower Right

Controls the X and Y position of the Lower Right Point.

Lower Left

Controls the X and Y position of the Lower Left Point.

Size

The size of the Grad.

Color Grad - Tutorial

Color Grad colors and or darkens only a portion of the image giving you the ability to simulate any Color Grad or ND (Neutral Density) Grad filter.

1 Apply the Color Grad filter to an image.

By default, the Custom filter preset is applied to the image.

2 To apply a custom color to the image, click on the Filters>Color box and select a color.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the Presets pop-up menu.

3 To choose one of the preset filters, select a filter from the Filters>Presets list.

You can also adjust the gradient's position and size.

4 Adjust the Grad>Direction, Corner Points and Size.

Go to the **Grad** section of Color Grad on page 50 to see how the Grad controls work.

5 If you are curious, you can see what the Grad looks like by changing your View to Grad. Change your View to Output when done.

6 If you want less coloring of the image, turn down the Filters>Opacity.

7 Image highlights can be retained by adjusting the Filters>Preserve Highlights control to a value of 100.

COLOR INFRARED

Category

Effects.

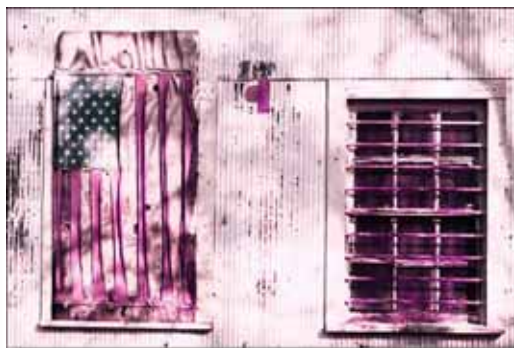
Description

Color Infrared simulates infrared filters used in conjunction with infrared sensitive film or sensors to produce very interesting false-color images with a dreamlike or sometimes lurid appearance.

Before



After



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Go to the [Color Infrared - Tutorial](#) on page 55 to see how the filter works.

Magenta

Adjusts the amount of magenta.

Blue

Adjusts the amount of blue.

Hue

Adjusts the hue in any non-blue areas.

Contrast

Adjusts the contrast of the image.

Color Infrared - Tutorial

Color Infrared simulates infrared filters used in conjunction with infrared sensitive film or sensors to produce very interesting false-color images with a dreamlike or sometimes lurid appearance.

- 1 Apply the Color Infrared filter to an image.**
- 2 Adjust the Magenta and Blue sliders to your liking.**
- 3 Changing the Hue will only adjust hue in non-blue areas.**
- 4 Color Infrared images usually have high contrast. Lower the contrast setting if it is too high for your image.**

COLOR SPOT

Category

Grads / Tints.

Description

Tints the image using presets for common photographic filters except for a center spot which retains normal color. The center spot can be moved, sized and the amount of blur can be controlled.

Before



After



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Go to the [Color Spot - Tutorial](#) on page 58 to see how the filter works.

Color

Presets

Select one of the filters from the pop-up list. Go to [Appendix D](#) on page 283 to see the complete list of filters.

Color

The Color parameter sets the color through the use of a standard color picker.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the Presets pop-up menu.

Opacity

Sets the opacity of the color filter.

Preserve Highlights

Preserves the white areas of the image.

Exposure Compensation

Exposure Compensation adds back the brightness loss as a result of the filter application.

Spot

A spot in the form of a radial gradient is used to control where color is added to the image.

Position

Position X

The horizontal position of the center spot.

Position Y

The vertical position of the center spot.

Note: There is an on-screen control in the center of the image. By clicking and dragging the on-screen control, the position of the Spot can be adjusted. To see the on-screen control in After Effects, you may need to highlight Color Spot in the Effect Controls window, and in Final Cut Pro and Combustion, you will have to click on the crosshair icon to the right of the Position parameter. On Avid Editing Systems, the Position parameters are named only X and Y.

Aspect

The aspect ratio of the spot.

Radius

The un-blurred radius of the spot.

Falloff Radius

The blurred edge radius.

Falloff

Moves the falloff towards the spot centerpoint.

Color Spot - Tutorial

Tints the image using presets for common photographic filters except for a center spot which retains normal color. The center spot can be moved, sized and the amount of blur can be controlled.

- 1 Apply the Color Spot filter to an image.**
- 2 Adjust the Spot>Position, Radius, Falloff Radius and Falloff.**
The white area of the spot will be tinted.
- 3 If you are curious, you can see what the Spot looks like by changing your View to Spot. Change your View to Output when done.**
- 4 To apply a custom color to the image, click on the Color>Color box and select a color.**
Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the Presets pop-up menu.
- 5 To choose one of the preset filters, select a filter from the Color>Presets list.**
- 6 If you want less coloring of the image, turn down the Color>Opacity.**
- 7 Image highlights can be retained by adjusting the Color>Preserve Highlights control to a value of 100.**

COOL MIST

Category

Diffusion.

Description

Cool Mist

The Cool Mist filter creates atmosphere by reducing contrast and glowing highlights in combination with a cooling filter.

Before



After



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Go to the [Cool Mist - Tutorial](#) on page 61 to see how the filter works.

Mist

Mist

Determines the method used to create the mist effect.

Spread

The mist spreads beyond the areas defined by the selection.

Subtle

The mist is constrained by the areas defined by the selection.

Blend

Determines the blend mode to be used to create the mist effect.

Add

The mist is added to your image.

Screen

The mist is combined with the image using a Screen blend mode. This looks kind of like the Add blend mode, but highlights are retained.

Brightness

Sets the intensity of the mist.

Blur

Sets the softness of the mist. Go to the [Blur](#) section of General Controls on page 21 to see how the Blur controls work.

Color

The Color parameter sets the color of the mist through the use of a standard color picker. The default color is white.

Cooling

Color

The Color parameter sets the color of the cooling through the use of a standard color picker.

Opacity

Sets the opacity of the cooling.

Preserve Highlights

Preserves the white areas of the image.

Exposure Compensation

Exposure Compensation adds back the brightness loss as a result of the cooling.

Selection

Go to the [Selection](#) section of General Controls on page 25 to see how the Selection Controls work.

Cool Mist - Tutorial

The Cool Mist filter creates atmosphere by reducing contrast and glowing highlights in combination with a cooling filter.

- 1 Apply either the Cool Mist filter to an image.**
- 2 Adjust the Mist>Brightness, Blur and Color settings to your liking.**
In some of the 55mm filters, a selection is generated to create the desired effect--in this case, mist.
- 3 Change your View to Selection to see the selection values.**
The areas that are white in the selection are the areas where mist will be introduced. The location of the mist within the scene can be adjusted by modifying the Selection>Position and Selection>Range parameters.
- 4 Change the Selection>Position parameter if you want to select different luminance values to be used for the selection.**
- 5 Increase the Selection>Range value to add more mist into the scene. Decrease for less mist.**
- 6 Increase the Selection>Blur parameter to soften the transition areas of the mist.**
- 7 Change your View to Output to see the filtered image.**
- 8 The softness of the mist can also be adjusted using the Mist>Blur setting.**

CROSS PROCESSING

Category

Film Lab.

Description

Cross-processing is a photographic technique where print film (C41) is processed in the set of chemicals usually used to process slide film (E6) or vice versa. The final result yields images with oddly skewed colors and increased contrast and saturation. Different film stocks produce different results, so we have created what we feel is a representative look.

Before



After



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Go to the [Cross Processing - Tutorial](#) on page 63 to see how the filter works.

Amount

Sets the intensity of the cross process effect.

Mode

Print to Slide

Simulates the effect of print film (C41) being processed in slide (E6) chemicals.

Slide to Print

Simulates the effect of slide film (E6) being processed in print (C41) chemicals.

Cross Processing - Tutorial

Cross-processing is a photographic technique where print film (C41) is processed in the set of chemicals usually used to process slide film (E6) or vice versa. The final result yields images with oddly skewed colors and increased contrast and saturation. Different film stocks produce different results, so we have created what we feel is a representative look.

- 1 Apply the Cross Processing filter to an image.**
- 2 Use the Amount slider to control the strength of the Cross Processing filter.**
- 3 Switch the Mode to Slide to Print.**

Both Print to Slide and Slide to Print modes are available.

DAY FOR NIGHT

Category

Effects.

Description

Day for Night simulates a technique used for shooting exteriors in daylight made to look like they were photographed at night. Typically, it involves underexposing by two to two-and-a-half stops and using a filter to provide a tint, that is often a lavender-blue, as it mimics twilight and appears to emulate the mood of moonlight.

Before



After



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Go to the [Day for Night - Tutorial](#) on page 66 to see how the filter works.

Diffusion

Horizontal Blur

The image is diffused by a fast, quality blur along the X-axis.

Vertical Blur

The image is diffused by a fast, quality blur along the Y-axis.

Gang

The horizontal and vertical slider values can be ganged together. Slide the horizontal slider to affect both values.

Note: When Gang is turned on, the vertical slider doesn't physically move. However, the vertical value will follow the value of the horizontal slider when Gang is turned on.

Opacity

Sets the amount of diffusion mixed into the original image. The higher the setting, the more the image is blurred.

Moonlight

Color

The Color parameter sets the color of the moonlight through the use of a standard color picker. The default color is blue.

Opacity

Sets the opacity of the moonlight color.

Preserve Highlights

Preserves the white areas of the image.

Color Correct

Go to the **Color Correct** filter on page 44 to see how the Color Correct controls work.

Day for Night - Tutorial

Day for Night simulates a technique used for shooting exteriors in daylight made to look like they were photographed at night.

1 Apply the Day for Night filter to an image.

Day for Night uses a type of diffusion that grows darks areas into bright areas.

2 Adjust the Diffusion>Blur and Opacity parameters to your liking.

The Day for Night effect relies on a blue tint to simulate moonlight. You can modify the color of the tint as well as its intensity using the Moonlight controls.

3 Use the Moonlight controls to adjust the tint applied to the image.

Photographically the image is underexposed by two stops or so. We duplicate the underexposure by using a combination of color correction controls. Modify the color correct presets brighter or darker depending on your image.

4 Change the Color Correct settings if necessary.

DEFOG

Category

Diffusion

Description

Using advanced deweathering algorithms, Defog restores clear day contrasts and colors of a scene taken in bad weather such as fog and mist. It is also successful in removing the effects of optical Fog and Diffusion filters.

Before



After



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Go to the [Defog - Tutorial](#) on page 69 to see how the filter works.

Defog

Color

The Color parameter sets the color of the fog to be removed through the use of a standard color picker. The default color is white.

Vanishing Point

A vanishing point along the direction of increasing distance in the image is used to remove fog. By default, the vanishing point is set to the center of the screen. Essentially, the fog is removed in a radial pattern emanating from the vanishing point. So at the default center position, fog is removed in a circular pattern with a greater amount of fog being removed from the center while falling off at the edges. For instance, if your fog moves in the direction of top right to bottom left, set your vanishing point towards the top right corner and the fog removal will be more intense at the upper right and fall off at the bottom left. However, in most cases, the vanishing point can be left in the center of the screen and you will obtain acceptable results.

X

The horizontal position of the vanishing point.

Y

The vertical position of the vanishing point.

Note: There is an on-screen control in the center of the image. By clicking and dragging the on-screen control, the position of the vanishing point can be adjusted. To see the on-screen control in After Effects, you may need to highlight Defog in the Effect Controls window, and in Final Cut Pro and Combustion, you will have to click on the crosshair icon to the right of the vanishing point parameter. On Avid Editing Systems, the Vanishing Point parameter is named only X and Y.

Defog

Sets the amount of fog to be removed from the scene.

Min Depth

Controls how much fog is removed from the darker areas of the image.

Max Depth

Controls how much fog is removed from the brighter areas of the image.

Color Correct

Go to the [Color Correct](#) filter on page 44 to see how the Color Correct controls work.

Defog - Tutorial

Using advanced deweathering algorithms, Defog restores clear day contrasts and colors of a scene taken in bad weather such as fog and mist. It is also successful in removing the effects of optical Fog and Diffusion filters.

- 1 Apply the Defog filter to an image.**
- 2 Click on the Defog>Color picker and click on an area of fog.**

This sets the color of the fog to be removed.

- 3 Adjust the Defog>Defog parameter to remove more fog or mist.**

The fog is removed in a radial pattern emanating from the vanishing point. For instance, if your fog moves in the direction of top right to bottom left, set your vanishing point towards the top right corner and the fog removal will be more intense at the upper right and fall off at the bottom left. However, in most cases, the vanishing point can be left in the center of the screen and you will obtain acceptable results.

- 4 If needed, move the Vanishing Point to a new location by clicking and dragging the on-screen control in the center of the of the screen.**

If the defogging operation causes the shadow areas to become too contrasty, adjust the Min Depth slider to a lower value. This will bring back some shadow detail.

- 5 Lower the Min Depth value if you have lost to much detail in the shadow portions of the image.**

DEFRINGE

Category

Lens.

Description

Purple or blue fringing around overexposed areas is a result of sensor overloading in video as well as digital still cameras. Defringe isolates and removes the various types of color fringing.

Before



After



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Go to the [Defringe - Tutorial](#) on page 71 to see how the filter works.

Red

Red

Adjusts the saturation of the image. Positive values saturate, negative values desaturate.

Position

A selection is generated to isolate red fringing. The areas that are white in the red selection are the areas that will be defringed. Moving the Position slider will change the hue that is used for the red selection.

Range

Increases or decreases the range of values considered as red fringing. A low Range value indicates a narrow range of values, while a high Range value indicates a large range of values.

Go to the [Selection](#) section of General Controls on page 25 to see how the Position and Range controls work.

Green, Blue, Cyan, Magenta, and Yellow

The Green, Blue, Cyan, Magenta and Yellow groups work in a similar fashion to the Red group.

Defringe - Tutorial

Purple or blue fringing around overexposed areas is a result of sensor overloading in video as well as digital still cameras. Defringe isolates and removes the various types of color fringing.

1 Apply the Defringe filter to an image.

Determine the color of the fringing that you would like to remove. Let's say that you have purple fringing in the highlight areas of your image.

2 Go to the Magenta parameter group.

3 Move the Magenta slider to the right until the purple fringing is gone.

4 If the purple fringing is not being removed when the Magenta slider is adjusted, you may need to adjust the Position slider.

5 Change your View to Magenta to see the selection values.

The areas that are white in the selection are the areas that will be defringed.

6 Change your View back to Output.

7 Move the Position slider to the right or left until you see the fringing go away.

This may be necessary if your purple fringing is not the same hue of what we consider to be magenta.

8 If there is still some magenta left, you may want to increase the value of the Range slider to include more values considered as magenta.

9 Repeat the above steps for each type of color fringe you see in the image.

DEPTH OF FIELD

Category

Blurs.

Description

Depth of Field can be added to a scene by isolating and blurring only a portion of the image. The amount of blurring is directly proportionate to the luminance of the selection settings, a gradient or an input clip.

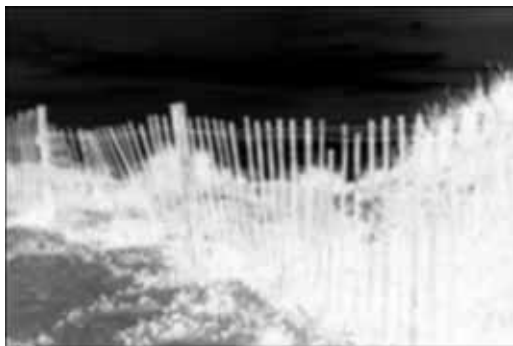
Before



After



Selection



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Go to the [Depth of Field - Tutorial](#) on page 75 to see how the filter works.

Note to Avid Users: Depth of Field is a two-layer track effect. The lower track/layer is the background and the track/layer above is the foreground, which is also used as the depth source. If you want to use only one image (as in the example above), just place the same image on two adjacent tracks/layers.

Depth

Selects the source for the depth of field effect.

Selection

Use the selection for the depth source.

Grad

Use the grad for the depth source.

Input

Load a file for use as the depth source. This is useful for 3D programs which render out depth mattes.

Note: To load a file as the depth source in Photoshop, make sure that it is a grayscale image and save it as either a JPG or PNG. It will then show up in the browser when you click on the Depth>Input>Browse button.

Blur

Horizontal Blur

The image is blurred by a quality blur along the X-axis.

Vertical Blur

The image is blurred by a quality blur along the Y-axis.

Gang

The horizontal and vertical slider values can be ganged together. Slide the horizontal slider to affect both values.

Note: When Gang is turned on, the vertical slider doesn't physically move. However, the vertical value will follow the value of the horizontal slider when Gang is turned on.

Grad

Depth of Field can optionally use a gradient that limits where the filter is adjusted. Grad is the transition area that goes from the blurred portion to the original image. Its direction, corners and size can be adjusted. Go to the [Grad](#) section of Color Grad on page 50 to see how the Grad controls work.

Selection

Go to the [Selection](#) section of General Controls on page 25 to see how the Selection controls work.

Depth of Field - Tutorial

Depth of Field can be added to a scene by isolating and blurring only a portion of the image. The amount of blurring is directly proportionate to the luminance of the depth source.

1 Apply the Depth of Field filter to an image.

Note to Avid Users: Depth of Field is a two-layer track effect. The lower track/layer is the background and the track/layer above is the foreground, which is also used as the depth source. If you want to use only one image, just place the same image on two adjacent tracks/layers.

2 Adjust the Horizontal and Vertical Blur to your liking.

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, depth of field.

3 Change your View to Depth to see the selection values.

The areas that are white in the selection are the areas where blur will be introduced. The location of the blur within the scene can be adjusted by modifying the Selection>Position and Selection>Range parameters.

4 Change the Selection>Position parameter if you want to select different luminance values to be used for the selection.

5 Increase the Selection>Range value to add more blur into the scene. Decrease for less blur.

6 Increase the Selection>Blur parameter to soften the transition areas of the added blur.

7 Change your View to Output to see the filtered image.

The Depth of Field filter can also use a grad or an image as the depth source instead of the selection.

8 Set the Depth to Grad.

9 Adjust the Grad>Direction, Corner Points and Size to change where the blur is added.

To use an image as the depth source, do one of the following:

10 In Adobe Photoshop:

- Change Depth to Input.
- Click the Browse button.
- Select a either a grayscale JPG or PNG file.

or

11 In Adobe After Effects:

- Change Depth to Input.
- Select the layer you want to use from the Depth>Input selector.

or

12 In Apple Final Cut Pro:

- Change Depth to Input.
- Drag and drop a clip onto the clip icon to the right of the Depth>Input parameter.

or

13 In Avid Editing Systems:

- Change Depth to Input.

The foreground track (the one you applied the filter to) is now used as the depth source.

DIFFUSION

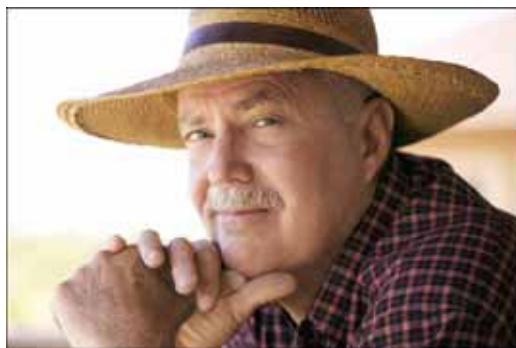
Category

Diffusion.

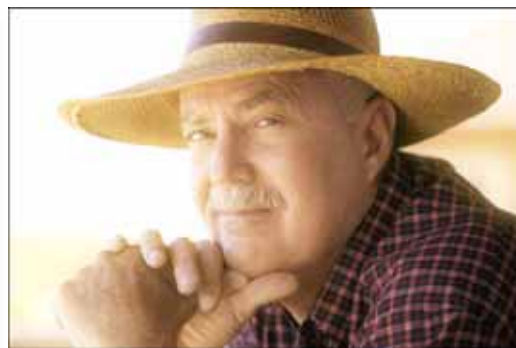
Description

Diffusion creates atmosphere by reducing contrast while creating a glow around highlights or shadows. It simulates diffusion and fog filters as well as glows. In addition, a pre-built texture library allows you to add realistic diffusion to scenes as if you were adding diffusion directly to your camera lens.

Before



After



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Go to the [Diffusion - Tutorial](#) on page 80 to see how the filter works.

Diffusion

Diffusion

Determines the method used to create the diffusion effect.

Spread

The diffusion spreads beyond the areas defined by the selection.

Subtle

The diffusion is constrained by the areas defined by the selection.

Blend

Determines the blend mode to be used to create the diffusion effect.

Add

The diffusion is added to your image.

Screen

The diffusion is combined with the image using a Screen blend mode. This looks kind of like the Add blend mode, but highlights are retained.

Brightness

Sets the intensity of the diffusion.

Blur

Sets the softness of the diffusion. Go to the [Blur](#) section of General Controls on page 21 to see how the Blur controls work.

Color

The Color parameter sets the color of the diffusion through the use of a standard color picker. The default color is white.

Texture

Texture

A pre-built texture library can be used to add diffusion to an image. Go to [Appendix A](#) on page 271 to view the textures.

Note: The Photoshop version uses a Browser to load the textures instead of a pop-up menu.

Blend

Textures can be used as the source of the diffusion as well as combined with the selection created with the Selection parameters using a variety of Blend modes. Go to [Appendix C](#) on page 280 to see visual examples of the various Blend modes.

I like the Multiply blend mode for combining textures with the selection because it only puts the texture within the areas of the generated selection.

DVE

The DVE allows you to transform your texture using Position, Scale, Rotation, Corner Pin, Shear and Crop controls.

Go to the [DVE](#) section of General Controls on page 22 to see how the DVE Controls work.

Selection

Go to the [Selection](#) section of General Controls on page 25 to see how the Selection controls work.

Diffusion - Tutorial

- 1 Apply the Diffusion filter to an image.**
- 2 Adjust the Diffusion>Brightness parameter to control the amount of diffusion added to the image.**

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, diffusion.
- 3 Change your View to Selection to see the selection values.**

The areas that are white in the selection are the areas where diffusion will be introduced. The location of the diffusion within the scene can be adjusted by modifying the Selection>Position and Selection>Range parameters.
- 4 Change the Selection>Position parameter if you want to add diffusion to different areas of the image.**
- 5 Adjust the Selection>Range slider to increase or decrease the image areas affected by the diffusion.**
- 6 For Avid, After Effects, or Final Cut Pro, if you want to use a texture as the source of the diffusion, select one from the Texture pull-down menu.**
- 7 For Photoshop users, if you want to select a texture as the source of the diffusion, choose one by clicking on the Browse button in the Texture menu. If you want to use your own texture, create a grayscale image and save it as either a JPG or PNG file in the Adobe\Photoshop\Plug-Ins\DFT 55mm v7\textures folder. It will then show up in the browser when you click on the Texture>Browse button.**

You can either use the texture by itself or combine it with the selection using one of the Texture>Blend Modes.
- 8 Change your View to Output to see the filtered image.**
- 9 Using the Texture>DVE controls, you can move the texture around.**
- 10 Adjust the Diffusion>Brightness, Blur and Color of the diffusion to your liking.**

DOUBLE FOG

Category

Diffusion.

Description

The Double Fog filter creates a soft, misty atmosphere over the image by first applying fog using a vanishing point along the direction of increasing distance in the image. Then, a second pass blooms image highlights.

Before



After



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Go to the [Double Fog - Tutorial](#) on page 84 to see how the filter works.

Fog

Color

The Color parameter sets the color of the fog to be added through the use of a standard color picker. The default color is white.

Vanishing Point

A vanishing point along the direction of increasing distance in the image is used to add fog. By default, the vanishing point is set to the center of the screen. Essentially, the fog is added in a radial pattern emanating from the vanishing point. So at the default center position, fog is added in a circular pattern with a greater amount of fog being added in the center while falling off at the edges. For instance, if you would like your fog to move in the direction of top right to bottom left, set your vanishing point towards the top right corner and the fog will be more intense at the upper right and fall off at the bottom left. However, in most cases, the vanishing point can be left in the center of the screen and you will obtain acceptable results.

X

The horizontal position of the vanishing point.

Y

The vertical position of the vanishing point.

Note: There is an on-screen control in the center of the image. By clicking and dragging the on-screen control, the position of the vanishing point can be adjusted. To see the on-screen control in After Effects, you may need to highlight Double Fog in the Effect Controls window, and in Final Cut Pro and Combustion, you will have to click on the crosshair icon to the right of the vanishing point parameter. On Avid Editing Systems, the Vanishing Point parameters are named only X and Y.

Fog

Sets the amount of fog to be added to the scene.

Min Depth

Controls how much fog is added in the darker areas of the image.

Max Depth

Controls how much fog is added in the brighter areas of the image.

Glow

The Glow controls are used to add additional atmosphere and are useful in adding glow to highlights. By default, a wide selection of highlights are glowed in the image and blended with the Screen blend mode. This works well for adding additional fog. To add glow around highlights such as light sources, it is best to set the Blend mode to Add and lower the Selection>Range parameter to limit the areas of glow to only include the light sources.

Blend

Determines the blend mode to be used to create the glow effect.

Add

The glow is added to your image.

Screen

The glow is combined with the image using a Screen blend mode. This looks kind of like the Add blend mode, but highlights are retained.

Brightness

Sets the intensity of the glow.

Blur

Sets the softness of the glow. Go to the [Blur](#) section of General Controls on page 21 to see how the Blur controls work.

Color

The Color parameter sets the color of the glow through the use of a standard color picker. The default color is white.

Selection

Go to the [Selection](#) section of General Controls on page 25 to see how the Selection controls work.

Double Fog - Tutorial

The Double Fog filter creates a soft, misty atmosphere over the image by first applying fog using a vanishing point along the direction of increasing distance in the image. Then, a second pass blooms image highlights.

- 1 Apply the Double Fog filter to an image.**
- 2 Click on the Fog>Color parameter to set the color of the fog.**

This sets the color of the fog to be added.

- 3 Adjust the Fog>Fog parameter to control how much overall fog is added to the image.**

The fog is added in a radial pattern emanating from the vanishing point. For instance, if you want your fog to move in the direction of top right to bottom left, set your vanishing point towards the top right corner and the fog will be more intense at the upper right and fall off at the bottom left. However, in most cases, the vanishing point can be left in the center of the screen and you will obtain acceptable results.

- 4 If needed, move the Vanishing Point to a new location by clicking and dragging the on-screen control in the center of the screen.**

You can limit where the fog is added to your image by using the Min/Max Depth sliders. Min Depth controls how much fog is added in the darker areas of the image, while Max Depth controls how much fog is added in the brighter areas of the image.

- 5 Change the Min/Max Depth values if you want to control how fog is added in the shadow and highlight areas of the image.**

Secondary fogging effects can be achieved using the Glow parameters. A portion of the screen is isolated with a selection, and based on this selection, additional fog and glow can be added.

- 6 Adjust the Glow>Brightness, Blur and Color settings to your liking.**

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, highlight glow.

- 7 Change your View to Selection to see the selection values.**

The areas that are white in the selection are the areas where glow will be introduced. For instance, If you want to put glow around bright lights, make sure that the light sources appear as white in the selection. The location and amount of the additional glow within the scene can be adjusted by modifying the Selection>Position and Selection>Range parameters.

- 8** Change the Selection>Position parameter if you want to select different luminance values to be used for the selection.
- 9** Increase the Selection>Range value to add more glow into the scene. Decrease for less glow.
- 10** Increase the Selection>Blur parameter to soften the transition areas of the glow. The softness of the glow can also be adjusted using the Glow>Blur setting.
- 11** Change your View to Output to see the filtered image.
- 12** To create Glow effects around highlights such as bright lights, change your Glow>Blend parameter to Add and make sure that your selection includes only the light sources.

DUAL GRAD

Category

Grads / Tints.

Description

Dual Grad applies two photographic filters to the image which are blended together with a gradient.



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Go to the [Dual Grad - Tutorial](#) on page 88 to see how the filter works.

Color 1

Sets the color for the top half of the image. Select the desired color using the color picker or choose a filter preset. The default color is blue.

Presets

Select one of the filters from the pop-up list. Go to [Appendix D](#) on page 283 to see the complete list of filters.

Color

The Color parameter sets the color of the grad through the use of a standard color picker.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the Presets pop-up menu.

Opacity

Sets the opacity of the color filter.

Color 2

The Color 2 controls are the same as the controls for Color 1 except that the default color is a sepia tone and is applied to the bottom half of the image.

Preserve Highlights

Preserves the white areas of the image.

Exposure Compensation

Exposure Compensation adds back the brightness loss as a result of the filter application.

Grad

Grad is the transition area between the two tints. Its direction, corners and size can be adjusted. Go to the **Grad** section of Color Grad on page 50 to see how the Grad controls work.

Dual Grad - Tutorial

Dual Grad applies two photographic filters to the image which are blended together with a gradient.

- 1 Apply the Dual Grad filter to an image.**
- 2 To apply custom colors to the image, click on the Color 1 or Color 2>Color box's and select a color.**

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the Presets pop-up menu.

- 3 To choose one of the preset filters, select a filter from the Color 1 or Color 2>Presets list.**
- 4 If you want less coloring of the image, turn down the Color 1 or Color 2>Opacity.**
- 5 Image highlights can be retained by adjusting the Preserve Highlights control to a value of 100.**

The color gradient can be adjusted to your specific image.

- 6 Adjust the Grad>Direction, Corner Points and Size to position and adjust the grad.**

Go to the **Grad** section of Color Grad on page 50 to see how the Grad controls work.

- 7 Change your View to Grad to see the color gradient being applied to the image.**
- 8 Change your View back to Output to see the filtered image.**

EDGE GLOW

Category

Light.

Description

Edge Glow isolates lines and edges in an image and then adds glow only to these areas resulting in a stylized look.

Before



After



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Go to the [Edge Glow - Tutorial](#) on page 91 to see how the filter works.

Glow

Glow

Determines the method used to create the edge glow effect.

Spread

The glow spreads beyond the areas defined by the selection.

Subtle

The glow is constrained by the areas defined by the selection.

Blend

Determines the blend mode to be used to create the edge glow effect.

Add

The edge glow is added to your image.

Screen

The edge glow is combined with the image using a Screen blend mode. This looks kind of like the Add blend mode, but highlights are retained.

Brightness

Sets the intensity of the edge glow.

Blur

Sets the softness of the edge glow. Go to the **Blur** section of General Controls on page 21 to see how the Blur controls work.

Color

The Color parameter sets the color of the edge glow through the use of a standard color picker. The default color is white.

Edge

An edge selection is created to produce the edge glow effect.

Brightness

Determines the brightness of the edge selection.

Blur

Blurs the edge selection.

Edge Glow - Tutorial

Edge Glow isolates lines and edges in an image and then adds glow only to these areas resulting in a stylized look.

- 1 Apply the Edge Glow filter to an image.**
- 2 Select either the Add or Screen Blend Mode. Add will burn out highlights while the Screen Mode will retain them.**
- 3 Adjust the Glow>Brightness, Blur and Color settings to your liking.**

In Edge Glow, an edge selection is generated to create the desired effect.

- 4 Change your View to Edge to see the selection values.**

The areas that are white in the edge selection are the areas where glow will be introduced.

- 5 Adjust the Edge>Brightness to make sure that you have sufficient white areas in the edge selection.**
- 6 Set the Edge>Blur to smooth out the edge selection.**
- 7 Change your View to Output to see the filtered image.**

ENHANCING

Category

Color Correct.

Description

The saturation of either the red, green or blue areas of the image are isolated and enhanced with minimal effect on other colors. This filter is frequently used to enhance fall foliage, but is also ideal for blue sky and green grass.

Before



After



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Go to the [Enhancing - Tutorial](#) on page 94 to see how the filter works.

Enhancing

Adjusts the saturation of red, green or blue hues.

Selection

In the Enhancing filter, a selection is generated to enhance colors.

Presets

Custom

Presets the Selection to Red.

Red

Presets the Selection to Red.

Green

Presets the Selection to Green.

Blue

Presets the Selection to Blue.

Hue

A selection is created based on the hue of the image. When adjusting the Hue parameter, you are selecting the hue of the image which will be enhanced. The Hue is preset to red values.

Note: The Hue Color picker allows you to select a custom selection color, but is only active when the Custom option has been selected in the Presets pop-up menu.

Range

Increases or decreases the range of values in the selection. A low Range value indicates a narrow range of values. A high Range value indicates a large range of values included in the selection

Blur

Blurs the selection.

Enhancing - Tutorial

The saturation of either the red, green or blue areas of the image are isolated and enhanced with minimal effect on other colors.

1 Apply the Enhancing filter to an image.

2 Adjust the Enhancing slider to make the red, orange and brown values pop.

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, the enhancement effect. By default, the Selection>Hue is preset to red values.

3 Change your View to Selection to see the selection values.

The areas that are white in the selection are the red, orange and brown areas of the image that will be enhanced. The enhancement effect within the scene can be adjusted by modifying the Selection>Hue and Selection>Range parameters.

4 Choose another Selection>Preset or change the Selection>Hue parameter if you want to add enhancement to different areas of the image.

5 Adjust the Selection>Range slider to increase or decrease the areas affected by the enhancement.

6 Change your View to Output to see the image.

FAUX FILM

Category

Film Lab.

Description

The Faux Film filter attempts to give video and digital images the look of photographic film. It reduces contrast, creates a soft mist around highlights and adds film grain.

Before



After



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Go to the [Faux Film - Tutorial](#) on page 97 to see how the filter works.

Mist

Mist

Determines the method used to create the mist effect.

Spread

The mist spreads beyond the areas defined by the selection.

Subtle

The mist is constrained by the areas defined by the selection.

Blend

Determines the blend mode to be used to create the mist effect.

Add

The mist is added to your image.

Screen

The mist is combined with the image using a Screen blend mode. This looks kind of like the Add blend mode, but highlights are retained.

Brightness

Sets the intensity of the mist.

Blur

Sets the softness of the mist. Go to the **Blur** section of General Controls on page 21 to see how the Blur controls work.

Color

The Color parameter sets the color of the mist through the use of a standard color picker. The default color is white.

Grain

Go to the **Grain** filter on page 120 to see how the Grain controls work.

Warning to Photoshop users: You may not see the grain size change in the Preview window unless you are set to a 1:1 zoom ratio.

Color Correct

Go to the **Color Correct** filter on page 44 to see how the Color Correct controls work.

Selection

Go to the **Selection** section of General Controls on page 25 to see how the Selection controls work.

Faux Film - Tutorial

The Faux Film filter attempts to give video and digital images the look of photographic film. It reduces contrast, creates a soft mist around highlights and adds film grain.

- 1 Apply the Faux Film filter to an image.**
- 2 Adjust the Mist>Brightness, Blur and Color settings to your liking.**
- 3 If you want, you can use the Color Correct controls to modify the color of the image.**

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, mist.

- 4 Change your View to Selection to see the selection values.**

The areas that are white in the selection are the areas where mist will be introduced. The location of the mist within the scene can be adjusted by modifying the Selection>Position and Selection>Range parameters.

- 5 Change the Selection>Position parameter if you want to select different luminance values to be used for the selection.**
- 6 Increase the Selection>Range value to add more mist into the scene. Decrease for less mist.**
- 7 Increase the Selection>Blur parameter to soften the transition areas of the mist.**
- 8 Change your View to Output to see the filtered image.**
- 9 The softness of the mist can also be adjusted using the Mist>Blur setting.**

FLASHING

Category

Film Lab.

Description

Flashing allows you to use photographic filters to lower the contrast of your shadows or highlights. The motion picture lab can expose a small amount of light to the film at various stages of the developing and printing process. For example, Negative plus Dupe Negative flashing lifts blacks, while Print plus Master Positive flashing softens whites.

Before



After



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Go to the [Flashing - Tutorial](#) on page 100 to see how the filter works.

Shadows

Brightness

Raises the brightness of the shadows using either the Shadow>Color or Shadow>Presets.

Presets

Select one of the filters from the pop-up list. Go to [Appendix D](#) on page 283 to see the complete list of filters.

Color

The Color parameter sets the color of the flashing through the use of a standard color picker.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the Presets pop-up menu.

Position

Selects the shadow values to be adjusted when using the Shadows slider.

Range

Controls the range of values to be used for the shadows. A higher Range value considers more values as shadows.

Highlights

Brightness

Lowers the brightness of the highlights using either the Highlights>Color or Highlights>Presets.

Presets

Select one of the filters from the pop-up list.

Color

The Color parameter sets the color of the flashing through the use of a standard color picker.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the Presets pop-up menu.

Position

Selects the highlight values to be adjusted when using the Highlights slider.

Range

Controls the range of values to be used for the highlights. A higher Range value considers more values as highlights.

Flashing - Tutorial

Flashing allows you to use photographic filters to lower the contrast of your shadows or highlights.

- 1 Apply the Flashing filter to an image.**
- 2 Adjust the Shadows>Brightness slider to brighten shadow areas.**
- 3 Adjust the Highlights>Brightness slider to darken highlight areas.**

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, flashing.

- 4 To flash the Shadows or Highlights with a custom color, click on the Shadows or Highlights>Color box and select a color.**

Note: The Color picker allows you to use a custom color, but is only active when the Custom option has been selected in the Presets pop-up menu.

- 5 To choose one of the preset filters, select a filter from the Shadows or Highlights>Presets list.**
- 6 Change your View to Shadows or Highlights to see the selection values.**

The areas that are white in the selection are the areas that will be adjusted by either the Shadows or Highlights sliders. The areas defined as Shadows or Highlights can be adjusted by modifying the Position and Range parameters.
- 7 Adjust the Shadows or Highlights Position and Range controls to change what is considered Shadows or Highlights.**
- 8 Change your View to Output to see the image.**

FLUORESCENT

Category

Color Correct.

Description

The fluorescent filter removes the greenish tone caused by photographing under fluorescent lights.

Before



After



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Temperature

Removes the greenish tone caused by photographing under fluorescent lights.

Fog

Category

Diffusion.

Description

Fog

The Fog filter creates a soft, misty atmosphere over the image and glows highlights.

Before



After



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Go to the [Fog - Tutorial](#) on page 104 to see how the filters work.

Fog

Fog

Determines the method used to create the fog effect.

Spread

The fog spreads beyond the areas defined by the selection.

Subtle

The fog is constrained by the areas defined by the selection.

Blend

Determines the blend mode to be used to create the fog effect.

Add

The fog is added to your image.

Screen

The fog is combined with the image using a Screen blend mode. This looks kind of like the Add blend mode, but highlights are retained.

Brightness

Sets the intensity of the fog.

Blur

Sets the softness of the fog. Go to the **Blur** section of General Controls on page 21 to see how the Blur controls work.

Color

The Color parameter sets the color of the fog through the use of a standard color picker. The default color is white.

Selection

Go to the **Selection** section of General Controls on page 25 to see how the Selection controls work.

Fog - Tutorial

The Fog filter creates a soft, misty atmosphere over the image and glows highlights.

1 Apply the Fog filter to an image.

2 Adjust the Fog>Brightness, Blur and Color settings to your liking.

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, fog.

3 Change your View to Selection to see the selection values.

The areas that are white in the selection are the areas where fog will be introduced. The location of the fog within the scene can be adjusted by modifying the Selection>Position and Selection>Range parameters.

4 Change the Selection>Position parameter if you want to select different luminance values to be used for the selection.

5 Increase the Selection>Range value to add more fog into the scene. Decrease for less fog.

6 Increase the Selection>Blur parameter to soften the transition areas of the fog. The softness of the fog can also be adjusted using the Fog>Blur setting.

7 Change your View to Output to see the filtered image.

F-STOP

Category

Color Correct.

Description

F-Stop manipulates red, green and blue values of the overall image and separately in user definable shadow, midtone and highlight areas using F-Stops as the unit of measure. In camera terminology, F-Stops measure the size of the lens opening, otherwise known as aperture. Each F-Stop is twice as bright as the next.

Before



After



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F-Stop works in a similar fashion as Color Correct even though the color adjustments are slightly different. So, go to the [Color Correct Tutorial](#) on page 47 to see how the filter works.

Master

The master settings affect the entire image.

Red Exposure

Adds or subtracts red from the image.

Green Exposure

Adds or subtracts green from the image.

Blue Exposure

Adds or subtracts blue from the image.

Gang

The Red, Blue and Green Exposure slider values can be ganged together. Slide the Red Exposure slider to affect all three values.

Shadows, Midtones, Highlights

Adjusting parameters within the shadows, midtones and highlights will only affect those specific areas. If you are unsure about what values are included in the shadows, midtones and highlights, you can use the View pop-up menu. It will allow you to view the shadows, midtones and highlights as a black and white selection. The white areas are the areas that will be adjusted by that particular group. For instance, if you see white areas while viewing the midtones, then midtone color adjustments will affect only those white areas. If you want to change the default areas defined by the shadows, midtones and highlights, you would use the Position and Range sliders.

Go to the **Selection** section of General Controls on page 25 to see how the Position and Range controls work.

Position

The Position slider pinpoints the values to be considered as shadows, midtones, or highlights. A low Position value uses the darkest image values, while a high Position value uses the brightest.

Range

Increases or decreases the range of values considered as shadows, midtones or highlights. A low Range value indicates a narrow range of values, while a high Range value indicates a large range of values.

Red Exposure

Adds or subtracts red from the entire image.

Green Exposure

Adds or subtracts green from the entire image.

Blue Exposure

Adds or subtracts blue from the entire image.

Gang

The Red, Blue and Green Exposure slider values can be ganged together.

Slide the Red Exposure slider to affect all three values.

GELS

Category

Gels.

Description

Photographers, cinematographers and lighting designers use colored filters or gels in front of lights. Whether they want to create a romantic moonlit setting or a vicious, angry fight, they have the colors they need to achieve the effect. We have created digital equivalents of these lighting gels and these same exact colors can be applied to the entire image or inside a gradient. In cooperation with GAMPRODUCTS, INC. and Rosco USA, we have created digital versions of their popular gels.



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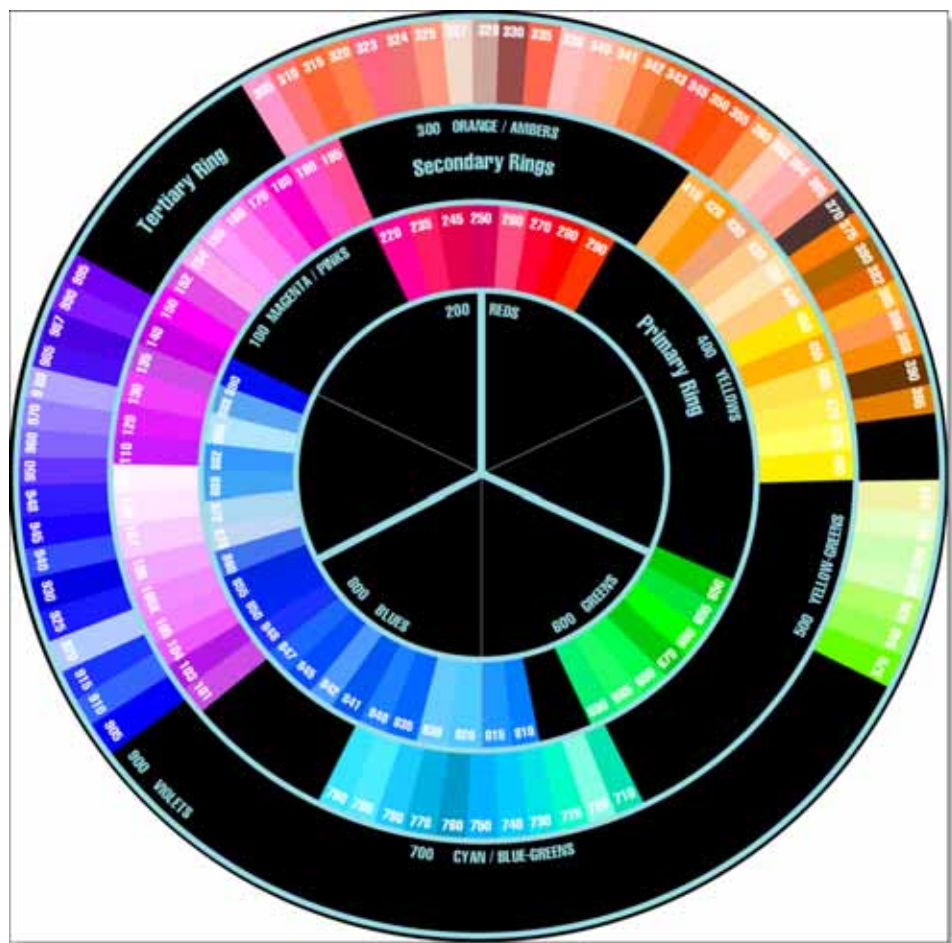
Go to the [Gels - Tutorial](#) on page 114 to see how the filters work.

GamColor Gels

Digital equivalents of the lighting gels created by GAMPRODUCTS, INC. can be applied to the entire image or inside a gradient. These three GAM filters contain digital gels from the GamColor, CineFilters, Naked Cosmetics collections. For detailed information about GAM Gels, you can visit their website at www.gamonline.com

GamColor

The GamColor system divides the visible spectrum into nine color sections convenient to the lighting designer. It is a circular classification of colors by hue, referencing the primaries, secondaries and important subdivisions. The GamColor gels are arranged according to this system, making it easy to locate any color in a logical manner.



Go to [Appendix G - Gam Color](#) on page 293 to see the complete list of gels.

GamColor CineFilters

CineFilters change the color temperature to balance your lighting situation using a variety of filters including CTO(sunlight to incandescent), CTB(incandescent to daylight), ND(light reducing), Minus Green(eliminates the peak green output of fluorescent lights) and Plus Green(incandescent to fluorescent).

GamColor Naked Cosmetics

Naked Cosmetics™ are designed to modify skin tones. Use them to blend and enhance skin tones while masking undesirable undertones. The choice of which Naked Cosmetics™ to use depends on a few variables. Skin color of the subjects, costumes, make-up, the recording medium, the desired effect, and most important, your artistic taste.

Gels

A set of generic lighting gels are provided within the Gels filter. Go to [Appendix G - Gels](#) on page 298 to see the complete list of gels.

Rosco Gels

Digital equivalents of the lighting gels created by Rosco can be applied to the entire image or inside a gradient. These four Rosco filters contain gels from the Calcolor, Cinegels, Cinelux and Storaro Selection. For detailed information about Rosco Gels, you can visit their website at www.rosco.com.

Rosco Calcolor

Calibrated color, by Rosco, is a series of color effects lighting gels designed specifically to the spectral sensitivity of color film. The series includes the primary colors Blue, Green and Red, along with the secondary colors Yellow, Magenta and Cyan followed by Pink and Lavender. Each color is designed in four densities: 15, 30, 60 and 90, corresponding to the familiar ½, 1, 2 and 3 stop calibrations. Go to [Appendix G - Rosco Calcolor](#) on page 313 to see the complete list of gels.

Rosco Cinegel

The Rosco Cinegel range includes over 75 tools for controlling light including Tungsten Conversion Filters, Daylight Conversion Filters, Sun 85 & Neutral Density Filters, Filters for Controlling Carbon ARC & HMI Lighting as well as Fluorescent Light Filters. In 1974, Cinegel won an Academy Award for technical achievement. Go to [Appendix G - Rosco Cinegel](#) on page 306 to see the complete list of gels.

Rosco Cinelux

Cinelux is a selection from the Roscolux range of color gels. Go to [Appendix G - Rosco Cinelux](#) on page 308 to see the complete list of gels.

Rosco Storaro Selection

The Storaro Selection contains ten color effects lighting gels designed to the personal specifications of eminent cinematographer Vittorio Storaro. These ten colors represent key chromatic elements of the visible spectrum, and are intended for dramatic effect and strong emotional response. Go to [Appendix G - Rosco Storaro Selection](#) on page 313 to see the complete list of gels.

Gels

Presets

Select one of the many gels from the pop-up list.

Color

The Color parameter sets the color through the use of a standard color picker.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the Presets pop-up menu.

Opacity

Sets the opacity of the color filter.

Preserve Highlights

Preserves the white areas of the image.

Exposure Compensation

Exposure Compensation adds back the brightness loss as a result of the gel application.

Grad

Gels can optionally use a gradient that limits where the image is adjusted. Grad is the transition area that goes from the colored portion to the original image. Its direction, corners and size can be adjusted. Go to the **Grad** section of Color Grad on page 50 to see how the Grad controls work.

Gels - Tutorial

Photographers, cinematographers and lighting designers use colored filters or gels in front of lights. We have created digital equivalents of the lighting gels and these same exact colors can be applied to the entire image or inside a gradient.

- 1 Apply one of the Gel filters to an image.**
- 2 Select the desired gel from the Gels>Presets pulldown menu.**

The selected gel can be applied through a gradient creating a graduated transition between the colored portion and the original image.

- 3 Click on the Grad>Enable checkbox to activate the Grad.**
- 4 Adjust the Grad>Direction, Corner Points and Size.**

Go to the **Grad** section of Color Grad on page 50 to see how the Grad controls work.

- 5 Adjust the Gels>Opacity, Preserve Highlights and Exposure Compensation sliders to your liking.**

GLOW

Category

Light.

Description

The Glow filter creates glows around selected areas of the image.

Before



After



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Go to the [Glow - Tutorial](#) on page 117 to see how the filter works.

Glow

Glow

Determines the method used to create the glow effect.

Spread

The glow spreads beyond the areas defined by the selection.

Subtle

The glow is constrained by the areas defined by the selection.

Blend

Determines the blend mode to be used to create the glow effect.

Add

The glow is added to your image.

Screen

The glow is combined with the image using a Screen blend mode. This looks kind of like the Add blend mode, but highlights are retained.

Brightness

Sets the intensity of the glow.

Blur

Sets the softness of the glow. Go to the [Blur](#) section of General Controls on page 21 to see how the Blur controls work.

Color

The Color parameter sets the color of the glow through the use of a standard color picker. The default color is white.

Selection

Go to the [Selection](#) section of General Controls on page 25 to see how the Selection controls work.

Glow - Tutorial

Glow creates glows around selected areas of the image based on a generated selection.

- 1 Apply the Glow filter to an image.**
- 2 Select either the Add or Screen Blend Mode. Add will burn out highlights while the Screen Mode will retain them.**
- 3 Adjust the Glow>Brightness, Blur and Color settings to your liking.**

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, glow.

- 4 Change your View to Selection to see the selection values.**

The areas that are white in the selection are the areas where glow will be introduced. The location of the glow within the scene can be adjusted by modifying the Selection>Position and Selection>Range parameters.

- 5 Change the Selection>Position parameter if you want to select different luminance values to be used for the selection.**
- 6 Increase the Selection>Range value to add more glow into the scene. Decrease for less glow.**
- 7 Increase the Selection>Blur parameter to soften the transition areas of the glow. The softness of the glow can also be adjusted using the Glow>Blur setting.**
- 8 Change your View to Output to see the filtered image.**

GOLD REFLECTOR, SILVER REFLECTOR

Category

Light.

Description

One of the oldest and still most popular means of lighting an exterior set is by taking a reflective surface and redirecting sunlight or artificial light exactly where it is needed. Unfortunately, it is nearly impossible for actors to keep their eyes open when looking into a reflector resulting in a lot of squinting eyes. Our digital reflector allows you to add white or gold light into shadow areas without the squinting.

Before



After



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Go to the [Reflector - Tutorial](#) on page 119 to see how the filter works.

Brightness

Sets the intensity of the reflector.

Color

The Color parameter sets the color of the reflector through the use of a standard color picker. The default color is gold for Gold Reflector and white for Silver Reflector.

Position

Selects the shadow values that will be adjusted with the Brightness slider.

Range

Controls the range of shadow values that will be adjusted with the Brightness slider.

Reflector - Tutorial

Reflector allows you to add white or gold light into shadow areas.

1 Apply either the Gold or Silver Reflector filter to an image.

2 Adjust the Brightness and Color settings to your liking.

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, light reflecting into the shadow areas.

3 Change your View to Selection to see the selection values.

The areas that are white in the selection are the areas where light will be introduced. The location of the light within the scene can be adjusted by modifying the Position and Range parameters.

4 Change the Position parameter if you want to select different luminance values to be used for the selection.

5 Increase the Range value to add more light into the scene. Decrease for less light.

6 Change your View to Output to see the filtered image.

GRAIN

Category

Film Lab.

Description

Grain simulates film grain with individual control of red, green, and blue grain size and intensity. In addition, a Film Response parameter controls where you will see grain in the image. Popular film stock presets are provided as a starting point to adding grain.



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Go to the [Grain - Tutorial](#) on page 123 to see how the filter works.

Presets

Select one of the many film grain presets from the pop-up list.

Note: On Avid Editing Systems and Apple Final Cut Pro, the Grain parameters are deactivated when a preset has been selected.

Monochrome

When checked, the grain is monochrome. In this mode, only the Red Size, Red Amount and Red Softness sliders are active. Since the grain is monochrome, only one slider is needed.

Size

The Size parameters control the size of the grain. Sometimes a film stock's grain structure varies in size from one color channel to another, so individual control has been given. The larger the Size settings, the larger the grain will be.

Warning to Photoshop users: You may not see the grain size change in the Preview window unless you are set to a 1:1 zoom ratio.

Red Size

Controls the size of the red grain.

Green Size

Controls the size of the green grain.

Blue Size

Controls the size of the blue grain.

Amount

The Amount parameters set the red, green and blue intensities of the grain. Film stocks generally have varying amounts of red, green and blue intensities with the blue intensity generally higher than the rest. If you turn the red, green and blue amount sliders to a value of 0, the grain will disappear.

Red Amount

Controls the intensity of the red grain.

Green Amount

Controls the intensity of the green grain.

Blue Amount

Controls the intensity of the blue grain.

Softness

The Softness parameters control the softness of the grain. Some film stock's grain structure varies in softness from one color channel to another, so individual control has been given. Normally, only minor softness adjustments are necessary, usually between a value of 0-1.

Red Softness

Controls the softness of the red grain.

Green Softness

Controls the softness of the green grain.

Blue Softness

Controls the softness of the blue grain.

Film Response

The Film Response parameter allows the adjustment of where you will see grain in the image. In most cases, film grain is apparent over the entire image except the brightest whites with the black areas being the most affected.

Position

The Position slider defines the portions of the image where grain will be added. A low Position value places grain in the darkest image values, while a high Position value places grain in the brightest areas.

Range

Increases or decreases the area where grain is added to the image based on the value of the Position slider. A low Range value indicates a narrow range of values, while a high Range value indicates a large range of values.

Minimum

Sets the minimum level of grain that is always added to the image.

Note: A Position value of 0 and a Range of 80 is typical of standard film, with grain applied to the entire range except the brightest whites with black being the most affected.

Grain - Tutorial

Grain simulates film grain with individual control of red, green, and blue grain size and intensity.

1 Apply the Grain filter to an image.

2 If you'd like, select one of the grain presets from the pop-up list.

Note: On Avid Editing Systems and Apple Final Cut Pro, the Grain parameters are deactivated when a preset has been selected.

3 Adjust the Red, Green and Blue Size parameters.

The Size parameters control the size of the grain. Sometimes a film stock's grain structure varies in size from one color channel to another, so individual control has been given. The larger the Size settings, the larger the grain will be.

4 Manipulate the Red, Green and Blue Amount parameters.

The Amount parameters set the red, green and blue intensities of the grain. Film stocks generally have varying amounts of red, green and blue intensities with the blue intensity generally higher than the rest. If you turn the red, green and blue amount sliders to a value of 0, the grain will disappear.

5 Change the Red, Green and Blue Softness parameters.

The Softness parameters set the red, green and blue softness of the grain. Some film stock's grain structure varies in softness from one color channel to another, so individual control has been given. Normally, only minor softness adjustments are necessary, usually between a value of 0-1.

6 Adjust the Response Position and Response Range to control where you will see grain in the image.

In most cases, film grain is apparent over the entire image except the brightest whites with the black areas being the most affected. A low Response Position value places grain in the darkest image values, while a high Response Position value places grain in the brightest areas. Response Range will increase or decrease the area where grain is added to the image based on the value of the Response Position slider.

7 If you want, use Response Minimum to set the minimum level of grain that is always added to the image.

HALO

Category

Effects.

Description

Halo causes dark areas to glow into bright areas and bright areas to glow into dark areas along with a bit of diffusion.

Before



After



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Go to the [Halo - Tutorial](#) on page 125 to see how the filter works.

Diffusion

Horizontal Blur

The image is diffused by a fast, quality blur along the X-axis.

Vertical Blur

The image is diffused by a fast, quality blur along the Y-axis.

Gang

The horizontal and vertical slider values can be ganged together. Slide the horizontal slider to affect both values.

Note: When Gang is turned on, the vertical slider doesn't physically move. However, the vertical value will follow the value of the horizontal slider when Gang is turned on.

Opacity

Sets the amount of diffusion mixed into the original image. The higher the setting, the more the image is blurred.

Color Correct

Go to the **Color Correct** filter on page 44 to see how the Color Correct controls work.

Halo - Tutorial

Halo causes dark areas to glow into bright areas and bright areas to glow into dark areas along with a bit of diffusion.

1 Apply the Halo filter to an image.

Halo uses a type of diffusion that grows darks areas into bright areas and bright areas into dark areas.

2 Adjust the Diffusion>Blur and Opacity parameters to your liking.

The Halo effect is enhanced by using a combination of color correction controls in addition to the diffusion.

3 Change the Color Correct settings if necessary.

INFRARED

Category

Effects.

Description

Infrared simulates infrared filters used in conjunction with infrared sensitive film or sensors to produce very interesting black and white images with halation in highlight areas.

Before



After



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Go to the [Infrared - Tutorial](#) on page 129 to see how the filter works.

Black and White

Selects the type of black and white filter to be applied to your color image.

Normal

Converts the color image to a monochrome image.

Red

Simulates a red filter in black and white photography.

Green

Simulates a green filter in black and white photography.

Blue

Simulates a blue filter in black and white photography.

Yellow

Simulates a yellow filter in black and white photography.

Orange

Simulates an orange filter in black and white photography.

Mist

Mist

Determines the method used to create the mist effect.

Spread

The mist spreads beyond the areas defined by the selection.

Subtle

The mist is constrained by the areas defined by the selection.

Blend

Determines the blend mode to be used to create the mist effect.

Add

The mist is added to your image.

Screen

The mist is combined with the image using a Screen blend mode. This looks kind of like the Add blend mode, but highlights are retained.

Brightness

Sets the intensity of the mist.

Blur

Sets the softness of the mist. Go to the **Blur** section of General Controls on page 21 to see how the Blur controls work.

Color Correct

Go to the [Color Correct](#) filter on page 44 to see how the Color Correct controls work.

Selection

Go to the [Selection](#) section of General Controls on page 25 to see how the Selection controls work.

Infrared - Tutorial

Infrared simulates infrared filters used in conjunction with infrared sensitive film or sensors to produce very interesting black and white images with halation in highlight areas.

- 1 Apply the Infrared filter to an image.**
- 2 Choose the type of black and white filter to be applied to your color image from the Black and White pop-up menu.**

The type of Black and White filter that you choose can dramatically change the look of your image.

- 3 Set the Mist>Brightness and Blur to your liking.**
- 4 If you want, you can use the Color Correct controls to modify the Brightness, Contrast and Gamma of the image.**

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, mist.

- 5 Change your View to Selection to see the selection values.**

The areas that are white in the selection are the areas where mist will be introduced. The location of the mist within the scene can be adjusted by modifying the Selection>Position and Selection>Range parameters.

- 6 Change the Selection>Position parameter if you want to select different luminance values to be used for the selection.**
- 7 Increase the Selection>Range value to add more mist into the scene. Decrease for less mist.**
- 8 Increase the Selection>Blur parameter to soften the transition areas of the mist. The softness of the mist can also be adjusted using the Mist>Blur setting.**
- 9 Change your View to Output to see the filtered image.**

KELVIN

Category

Color Correct.

Description

Degrees Kelvin is the standard unit of measure for color temperature and color temperature is a way to characterize the spectral properties of a light source. Low color temperature implies warmer (redder) light, while high color temperature implies a colder (bluer) light. Presets for a number of different light sources and conditions are provided in degrees Kelvin.

Before



After



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Go to the [Color Temperature - Tutorial](#) on page 132 to see how the filter works.

Color Temperature

The Color Temperature of the image is determined by the difference of the Destination and Source Kelvin parameters. For instance, if your Source Kelvin is 3200 degrees Kelvin and you adjust the Destination Kelvin to 6500 degrees,

your image would turn blue. This is the same as using tungsten indoor film meant to be used with lighting balanced for 3200 degrees Kelvin outside in daylight which is 6500 degrees Kelvin.

Presets

Select one of the temperature presets from the pop-up list. Go to [Appendix E](#) on page 286 to see the complete list of filters.

Destination Kelvin

Sets the destination color temperature of the image in degrees Kelvin.

Note: On Avid Editing Systems and Apple Final Cut Pro, the Destination Kelvin slider deactivates when a Preset has been applied.

Source Kelvin

Sets the source color temperature of the image in degrees Kelvin.

Opacity

Sets the opacity of the color Kelvin adjustment.

Preserve Highlights

Preserves the white areas of the image.

Exposure Compensation

Exposure Compensation adds back the brightness loss as a result of the Color Temperature application.

Grad

Color temperature can optionally use a gradient that limits where the filter is adjusted. Grad is the transition area that goes from the colored portion to the original image. Its direction, corners and size can be adjusted. Go to the [Grad](#) section of Color Grad on page 50 to see how the Grad controls work.

Kelvin - Tutorial

Degrees Kelvin is the standard unit of measure for color temperature and color temperature is a way to characterize the spectral properties of a light source. Low color temperature implies warmer (redder) light, while high color temperature implies a colder (bluer) light.

1 Apply the Kelvin filter to an image.

The Color Temperature of the image is determined by the difference of the Destination and Source Kelvin parameters.

2 Adjust the Destination Kelvin slider.

Presets for a number of different light sources and conditions are provided in degrees Kelvin, the standard unit of measure for color temperature.

Note: On Avid Editing Systems and Apple Final Cut Pro, the Destination Kelvin slider deactivates when a Preset has been applied.

3 From the Presets menu, select from one of the temperature presets.

The temperature adjustment can be applied through a gradient creating a graduated transition between the colored portion and the original image.

4 Click on the Grad>Enable checkbox to activate the Grad.

5 Adjust the Grad>Direction, Corner Points and Size.

Go to the **Grad** section of Color Grad on page 50 to see how the Grad controls work.

6 If you are curious, you can see what the Grad looks like by changing your View to Grad. Change your View to Output when done.

7 If you want less coloring of the image, turn down the Color Temperature>Opacity.

8 Image highlights can be retained by adjusting the Color Temperature>Preserve Highlights control to a value of 100.

LENS DISTORTION

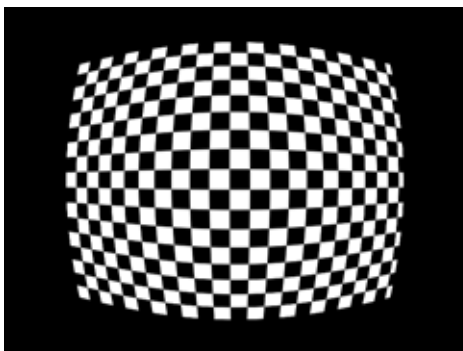
Category

Lens.

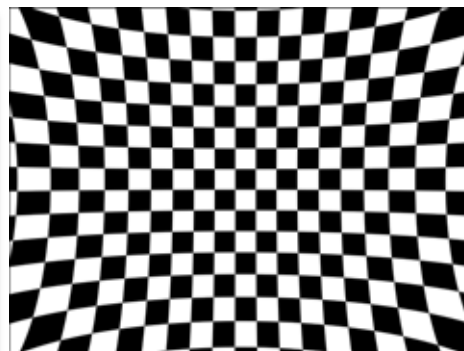
Description

Lens Distortion corrects for pin-cushioning and barrel distortion of camera lenses. It is also useful for creating the look of a wide angle lens or placing the image into a television set.

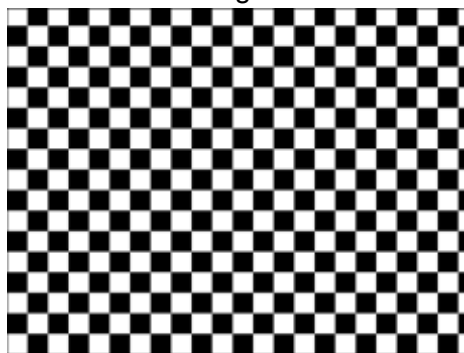
Barrel Distortion



Pin Cushion Distortion



Original



Go to the [Lens Distortion - Tutorial](#) on page 135 to see how the filter works.

Notes: The Photoshop zoom controls only work at the Fit and 1:1 settings when using Lens Distortion.

Distortion

Pulls the corners of the image in or out. Negative values pull the corners of the image outward while positive values pull the corners of the image inward.



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Anamorphic Squeeze

Anamorphic Squeeze corrects for the squeeze found in anamorphic motion picture lenses.

Curvature X and Y

Curvature X and Y correct for non-radial, asymmetric distortions found in anamorphic motion picture lenses.

Note: Anamorphic Squeeze and Curvature X and Y only work once the Distortion parameter has been moved.

Center

Determines the center point for the distortion.

Center X

The horizontal position of the distortion.

Center Y

The vertical position of the distortion.

Note: There is an on-screen control in the center of the image. By clicking and dragging the on-screen control, the Center can be adjusted. To see the on-screen control in After Effects, you may need to highlight Lens Distortion in the Effect Controls window, and in Final Cut Pro and Combustion, you will have to click on the crosshair icon to the right of the Center parameter. On Avid Editing Systems, the Center parameters are named only X and Y.

Lens Distortion - Tutorial

Lens Distortion corrects for pin-cushioning and barrel distortion of camera lenses. It is also useful for creating the look of a wide angle lens or placing the image into a television set.

1 Apply the Lens Distortion filter to an image.

To undo either Pin-cushioning or Barrel distortion, it is best if you can photograph a grid. You would then go about adjusting the various parameters to straighten out any curved lines. If you haven't photographed a grid, find a curved line that should otherwise be straight.

2 Start by adjusting the Distortion control to straighten out any curved lines that should be straight.

Note: Positive Distortion parameters correct Pin-cushioning while negative values correct Barrel distortion.

Depending on the lens that was used, you may need to also adjust the Anamorphic Squeeze and Curvature X and Y parameters.

LIGHT!

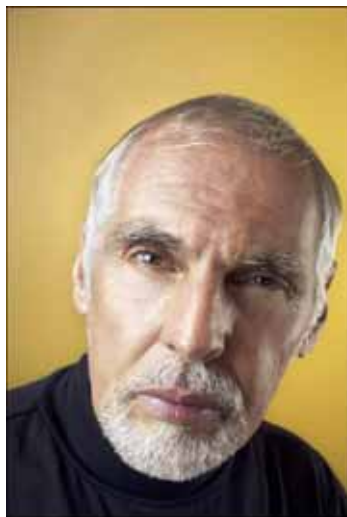
Category

Light.

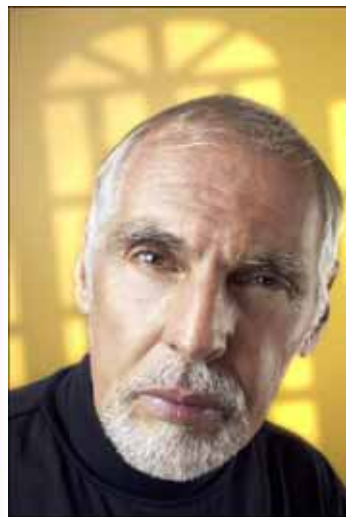
Description

Light can be added to a scene where none existed before just as if you were adding light at the time of shooting. Realistic lighting and shadow is introduced using the entire pattern/gobo library created by GAMPRODUCTS, INC.

Before



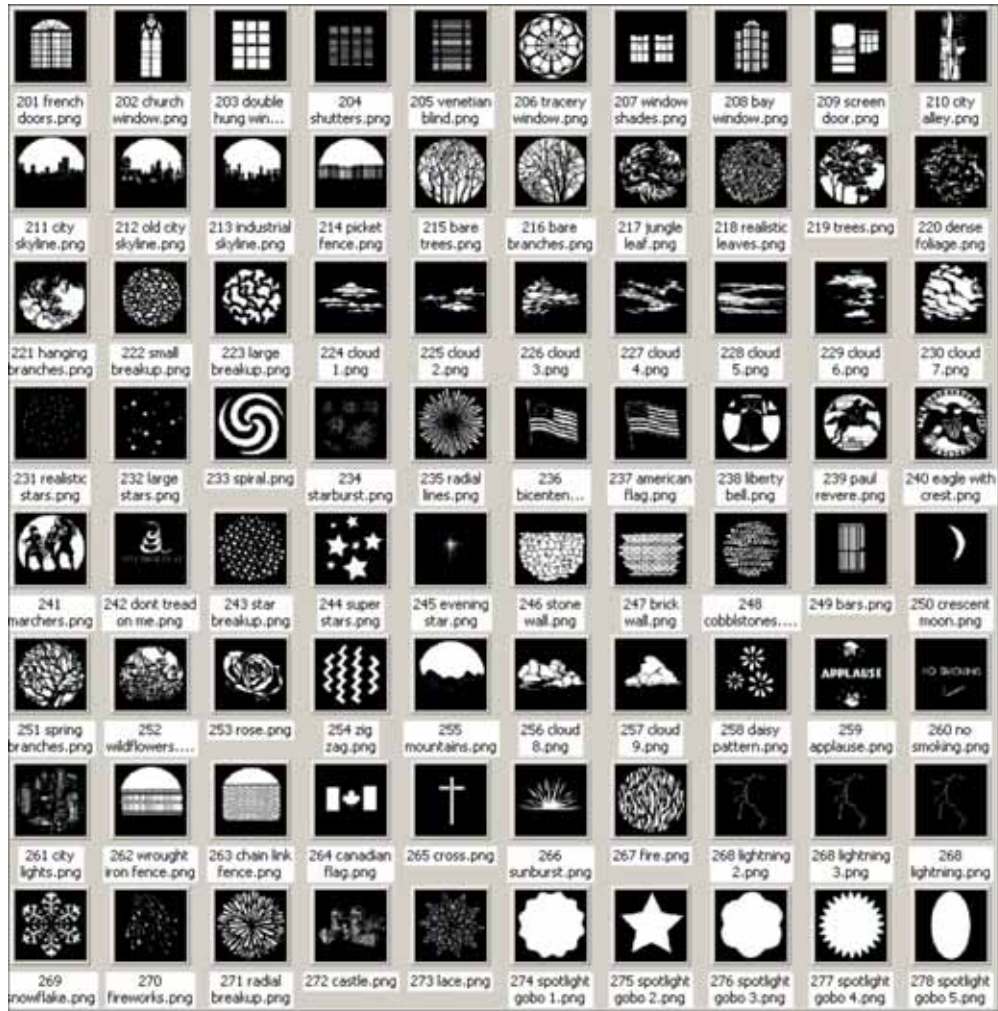
After



Photos © THINKSTOCK LLC--WWW.THINKSTOCK.COM

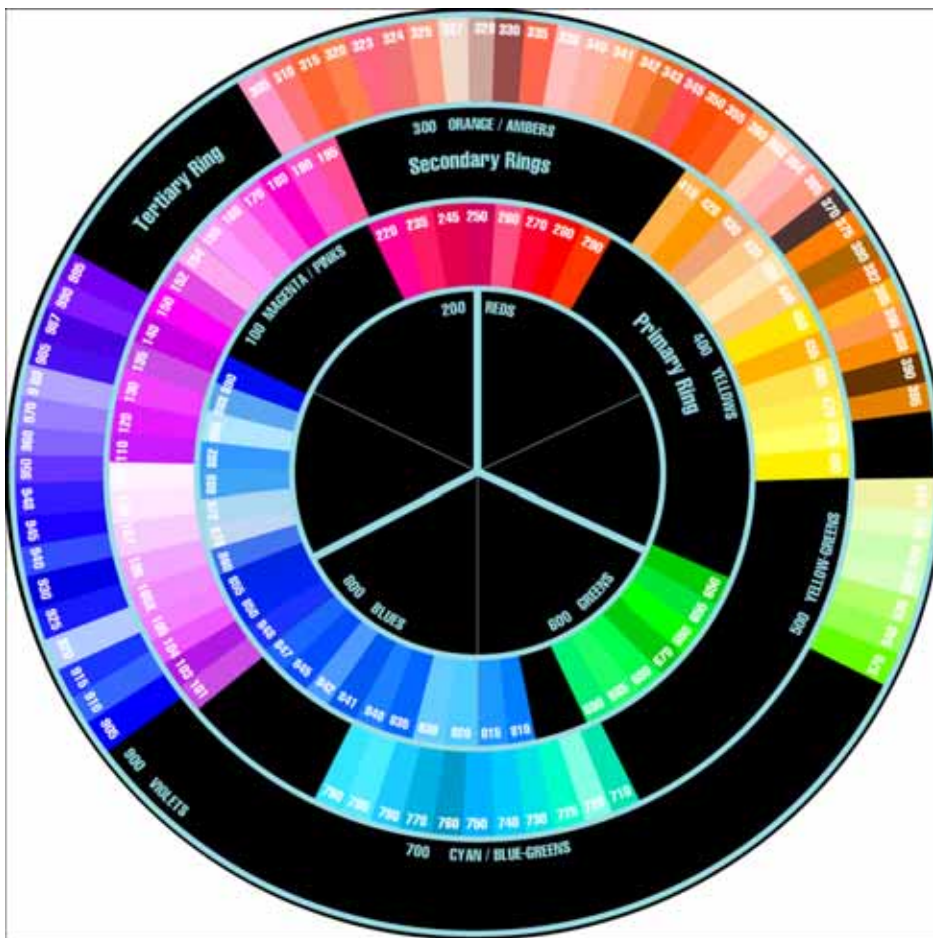
Normally used in front of lights during photography, these same exact patterns can be applied digitally to the entire image or inside a selection. There are 567 patterns to choose from including blendables, breakups, Christmas, cityscapes and towns, clouds, fences and openings, fire and water, flags, flowers, foliage,

holidays and symbols, moons, natural elements, religion, signage, sky and stars, spirals, spotlights and pinspots, stones and brick, structures and sets, themes, trees, vignettes and windows.



Photographers, cinematographers and lighting designers use colored filters or gels in front of lights. Whether they want to create a romantic moonlit setting or a vicious, angry fight, they have the colors they need to achieve the effect. Digital equivalents of the lighting gels created by GAMPRODUCTS, INC. can be applied to your light source. The GamColor system divides the visible

spectrum into nine color sections convenient to the lighting designer. It is a circular classification of colors by hue, referencing the primaries, secondaries and important subdivisions.



The GamColor gels are arranged according to this system, making it easy to locate any color in a logical manner. For detailed information about GAM Patterns and Gels, you can visit their website at www.gamonline.com.

Go to the [Light - Tutorials](#) on page 147 to see how the filter works.

Note to Avid Users: Light is a two-layer track effect. The lower track/layer is the background and the track/layer above is the foreground, which is also used as the lighting source. If you want to use one image to add light to itself, just place the same image on two adjacent tracks/layers.

Light

Blend

Determines the blend mode to be used to add the light.

Add

The light is added to your image.

Screen

The light is combined with the image using a Screen blend mode. This looks kind of like the Add blend mode, but highlights are retained.

Brightness

Sets the intensity of the light.

Displacement

Displaces the pattern by the luminance values of the image. This "fakes" the effect of light wrapping over objects in the image.

Displaced Pattern



Blur

Sets the softness of the light. Go to the **Blur** section of General Controls on page 21 to see how the Blur controls work.

GamColor Presets

Digital equivalents of the lighting gels created by GAMPRODUCTS, INC. can be applied to your light source. Select one of the GamColor presets from the pop-up list. Go to [Appendix G - Gam Color](#) on page 293 to see the complete list of gels.

Color

Sets the color of the light through the use of a standard color picker.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the GamColor Presets pop-up menu.

Shadow

Brightness

Sets the intensity of the shadows. The Brightness parameter will darken only those areas that are not being brightened by the Light settings.

Selection

A selection is used to create areas of light or constrain areas of added light patterns. Wherever there is a white in the selection is where the light will be added. When using Light, it is usually helpful to blur the selection. Go to the [Selection](#) section of General Controls on page 25 to see how the Selection controls work.

Selection



To use a selection to create light:

- 1 Shape>Blend Mode must be set to something other than Shape Only for the Selection controls to be active.
- 2 To use only the selection to create light, set the Gam Patterns to None.

To use a selection to create light in Adobe Photoshop:

- 1 Shape>Blend Mode must be set to something other than Shape Only for the Selection controls to be active.
- 2 To use only the selection to create light, set the Shape>Blend Mode to None.

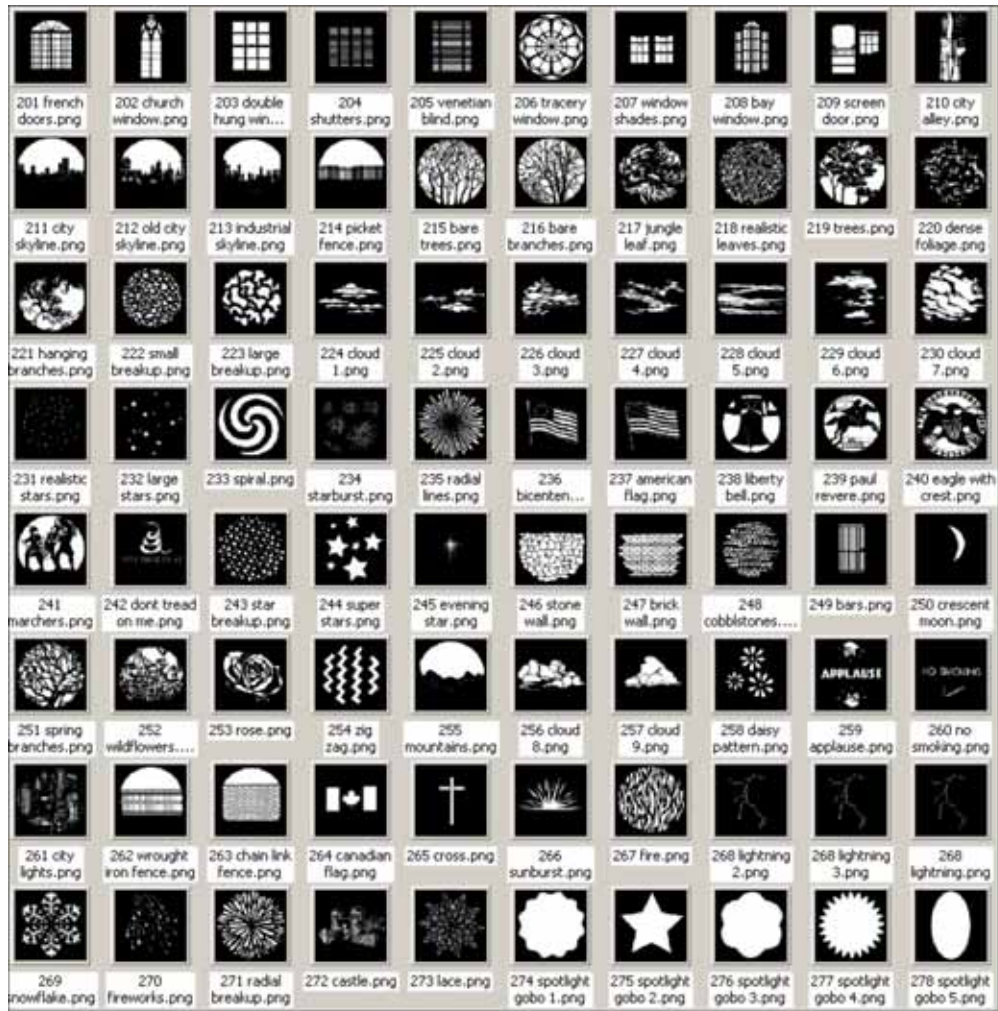
Shapes

Gam Patterns

Realistic lighting and shadow is introduced using the entire pattern/gobo library created by GAMPRODUCTS, INC. Normally used in front of lights during photography, these same exact patterns can be applied digitally to the entire image or inside a selection. There are 567 patterns to choose including blendables, breakups, Christmas, cityscapes and towns, clouds, fences and openings, fire and water, flags, flowers, foliage, holidays and symbols, moons, natural elements, religion, signage, sky and stars, spirals, spotlights and pinspots, stones and brick, structures and sets, themes, trees, vignettes and windows. For detailed information about GAM Patterns, you can visit their website at www.gamonline.com. Go to **Appendix B** on page 274 to see examples of all the patterns.

Series 200, 300, 500, 600, 700, 800

Select a pattern from one of the Gam Pattern series.



Loading a Pattern

When using Adobe After Effects, Apple Final Cut Pro, or Avid Editing Systems, first select Series 200, 300, 500, 600, 700 or 800 in the Gam Patterns pop-up menu and then choose the desired pattern within the selected series.

Loading a Pattern in Photoshop

In Photoshop, the patterns are loaded by clicking Shape>Gam Pattern>Browse button and selecting a pattern from the list. If you want to use your own pattern, create a grayscale image and save it as either a JPG or PNG file in the Adobe\Photoshop\Plug-Ins\DFT 55mm v7\gam patterns folder. It will then show up in the browser when you click on the Shape>Gam Pattern>Browse button.

Input

Input allows you to use a second image as the light source.

To use an image as a light source:

Apple Final Cut Pro

- Select Input from the Shape>Gam Patterns menu.
- Drag and drop a clip onto the clip icon to the right of the Shape>Input parameter.

Adobe After Effects

- Select Input from the Shape>Gam Patterns menu.
- Select a layer from the Shape>Input menu.

Avid Editing Systems

- Select Input from the Shape>Pattern list.

The track that you added Light to is now used as the light source and applied to the track below.

Note: If the camera is moving and you want to add a pattern, the pattern won't automatically follow the camera. You will either need to manually move the pattern to follow the camera or better, use Motion Tracking software to Match Move the pattern to the camera move. For all systems except Avid systems, the patterns can be found in the DFT 55mm v7/gam patterns folder within the plug-ins folder. On Avid systems, the patterns can be found in the DFT 55mm v7 Light/gam patterns folder. Track the motion of your source image and apply that motion to your pattern and render it. To use the newly tracked and rendered pattern as a light source, follow the previous instructions listed for loading a pattern.

Blend

Once selected, the pattern can be added to the selection using a variety of Blend modes. Go to [Appendix C](#) on page 280 to see visual examples of the various Blend modes.

I like the Multiply blend mode for combining patterns with the selection because it only puts the pattern within the areas of the selection.

Multiply



Selection



Shape



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Opacity

Sets the opacity of the pattern.

Blur

Sets the softness of the pattern. Go to the **Blur** section of General Controls on page 21 to see how the Blur controls work.

Selection with Shape Blur=20



DVE

The DVE allows you to transform your pattern using Position, Scale, Rotation, Corner Pin, Shear and Crop controls. Go to the **DVE** section of General Controls on page 22 to see how the DVE Controls work.

Light Tutorial

Light can be added to scene where none existed before just as if you were adding light at the time of shooting. Realistic lighting and shadow is introduced using the entire pattern/gobo and gel library created by GAMPRODUCTS, INC.

Adobe Photoshop - Light Tutorial

1 Apply the Light filter to an image.

2 Hit the Reset button.

The venetian blind pattern is applied to your image.

3 To select a different pattern, choose one by clicking the Shape>Gam Pattern>Browse button and take your pick.

4 If you want to use your own pattern, create a grayscale image and save it as either a JPG or PNG file in the Adobe\Photoshop\Plug-Ins\DFT 55mm v7\gam patterns folder. It will then show up in the browser when you click on the Shape>Gam Pattern>Browse button.

5 Using the Shape>Position, Scale, Rotate and Corner Pin controls, you can move the shape around.

6 In the Light menu, adjust the Brightness, Displacement, and Blur of the light.
Adding blur to the light makes the light glow.

7 To apply a custom light color to the image, click on the Light>Color box and select a color.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the GamColor Presets pop-up menu.

8 To choose one of the GamColor gels, select a gel from the Light>GamColor>Presets list.

9 Combine the pattern with a selection by changing the Shape>Blend Mode from Shape Only to Multiply.

I like the Multiply blend mode because it only adds the shape in the areas of the selection.

10 Change your View selector to Selection to see the selection values.

The default selection settings are preset to a highlight selection to create the light effect. If you are not seeing sufficient light, your selection should be adjusted. The areas that are white in the selection are the areas where light will be added into the image. The location of the light within the scene can be adjusted by changing the Selection>Position and Range parameters.

- 11** Change the Selection>Position parameter if you want to select different values to be used for the light.
- 12** Increase the Selection>Range value to add more light into the scene. Decrease for less light.
- 13** Increase the Selection>Blur parameter to soften the transition areas of the light.
- 14** Change the View selector from Selection to Output.
- 15** The softness of the light can also be adjusted using the Light>Blur setting.

Adobe After Effects - Light Tutorial

1 Apply the Light filter to a layer.

The venetian blind pattern is applied to your image.

2 To select a different pattern, first select Series 200, 300, 500, 600, 700 or 800 in the Gam Patterns pop-up menu and then choose the desired pattern within the selected series.

3 Using the Shape>DVE controls, you can move the shape around.

4 In the Light menu, adjust the Brightness, Displacement, and Blur of the light.

Adding blur to the light makes the light glow.

5 To apply a custom light color to the image, click on the Light>Color box and select a color.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the GamColor Presets pop-up menu.

6 To choose one of the GamColor gels, select a gel from the Light>GamColor>Presets list.

7 Combine the pattern with a selection by changing the Shape>Blend Mode from Shape Only to Multiply.

I like the Multiply blend mode because it only adds the shape in the areas of the selection.

8 Change your View selector to Selection to see the selection values.

The default selection settings are preset to a highlight selection to create the light effect. If you are not seeing sufficient light, your selection should be adjusted. The areas that are white in the selection are the areas where light will be added into the image. The location of the light within the scene can be adjusted by changing the Selection>Position and Range parameters.

9 Change the Selection>Position parameter if you want to select different values to be used for the light.

10 Increase the Selection>Range value to add more light into the scene. Decrease for less light.

11 Increase the Selection>Blur parameter to soften the transition areas of the light.

12 Change the View selector from Selection to Output.

13 The softness of the light can also be adjusted using the Light>Blur setting.

14 If the camera is moving and you want to add a pattern, the pattern won't automatically follow the camera. You will either need to manually move the pattern to follow the camera or better, use Motion Tracking software to Match Move the pattern to the camera move. The patterns can be found in the After Effects/Plug-ins/DFT 55mm v7/gam patterns folder.

- Track the motion of your source image, apply that motion to your pattern and render it out.
- Import the newly tracked and rendered pattern into your composition below the layer you want to add lighting to.
- To use your rendered light source, select Input from the Shape>Gam Patterns menu and then select the layer you want to use from the Shape>Input Selector.

Apple Final Cut Pro - Light Tutorial

1 Apply the Light filter to a clip in the Timeline.

The venetian blind pattern is applied to your image.

2 To select a different pattern, first select Series 200, 300, 500, 600, 700 or 800 in the Gam Patterns pop-up menu and then choose the desired pattern within the selected series.

3 Using the Shape>DVE controls, you can move the shape around.

4 In the Light menu, adjust the Brightness, Displacement, and Blur of the light.

Adding blur to the light makes the light glow.

5 To apply a custom light color to the image, click on the Light>Color box and select a color.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the GamColor Presets pop-up menu.

6 To choose one of the GamColor gels, select a gel from the Light>GamColor>Presets list.

7 Combine the pattern with a selection by changing the Shape>Blend Mode from Shape Only to Multiply.

I like the Multiply blend mode because it only adds the shape in the areas of the selection.

8 Change your View selector to Selection to see the selection values.

The default selection settings are preset to a highlight selection to create the light effect. If you are not seeing sufficient light, your selection should be adjusted. The areas that are white in the selection are the areas where light will be added into the image. The location of the light within the scene can be adjusted by changing the Selection>Position and Range parameters.

9 Change the Selection>Position parameter if you want to select different values to be used for the light.

10 Increase the Selection>Range value to add more light into the scene. Decrease for less light.

11 Increase the Selection>Blur parameter to soften the transition areas of the light.

12 Change the View selector from Selection to Output.

13 The softness of the light can also be adjusted using the Light>Blur setting.

14 If the camera is moving and you want to add a pattern, the pattern won't automatically follow the camera. You will either need to manually move the pattern to follow the camera or better, use Motion Tracking software to Match Move the pattern to the camera move. The patterns can be found in the /Library/Application Support/Final Cut Pro System Support/Plugins/DFT 55mm v7/gam patterns folder.

- Track the motion of your source image, apply that motion to your pattern and render it.
- Import the newly tracked and rendered pattern into your project.
- Select Input from the Shape>Gam Pattern menu.
- To use your rendered light source, drag and drop the rendered motion tracked pattern onto the the clip icon to the right of the Shape>Input parameter.

Avid Editing Systems - Light Tutorial

- 1** Apply the Light filter to the track above the track that you want to add light to. If you want to use one image to add light to itself, just place the same image on two adjacent tracks. If you use a different image on the foreground, this image can later be used as the lighting source.

The venetian blind pattern is applied to your image.

- 2** To select a different pattern, first select Series 200, 300, 500, 600, 700 or 800 in the Gam Patterns pop-up menu and then choose the desired pattern within the selected series.
- 3** Using the Shape>DVE controls, you can move the shape around.
- 4** In the Light menu, adjust the Brightness, Displacement, and Blur of the light.

Adding blur to the light makes the light glow.

- 5** To apply a custom light color to the image, click on the Light>Color box and select a color.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the GamColor Presets pop-up menu.

- 6** To choose one of the GamColor gels, select a gel from the Light>GamColor>Presets list.
- 7** Combine the pattern with a selection by changing the Shape>Blend Mode from Shape Only to Multiply.

I like the Multiply blend mode because it only adds the shape in the areas of the selection.

- 8** Change your View selector to Selection to see the selection values.

The default selection settings are preset to a highlight selection to create the light effect. If you are not seeing sufficient light, your selection should be adjusted. The areas that are white in the selection are the areas where light will be added into the image. The location of the light within the scene can be adjusted by changing the Selection>Position and Range parameters.

- 9** Change the Selection>Position parameter if you want to select different values to be used for the light.
- 10** Increase the Selection>Range value to add more light into the scene. Decrease for less light.
- 11** Increase the Selection>Blur parameter to soften the transition areas of the light.
- 12** Change the View selector from Selection to Output.

- 13** The softness of the light can also be adjusted using the Light>Blur setting.
- 14** If the camera is moving and you want to add a pattern, the pattern won't automatically follow the camera. You will either need to manually move the pattern to follow the camera or better, use Motion Tracking software to Match Move the pattern to the camera move. The patterns can be found in the AVX_Plugins/DFT 55mm v7 Light/gam patterns folder.
 - Track the motion of your source image, apply that motion to your pattern and render it.
 - Edit the rendered motion tracked pattern onto the layer above the image that you want to add light to.
 - Reapply the Light filter to the layer that contains the motion tracked pattern.
 - To use your own light source, select Input from the Shape>Gam Patterns menu. The foreground track (the one you applied the filter to) is now used as the light source.

LOW CONTRAST

Category

Diffusion.

Description

Low Contrast spreads highlights into darker areas, lowers contrast and keeps bright areas bright.

Before



After



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Go to the [Low Contrast - Tutorial](#) on page 156 to see how the filter works.

Contrast

Light Brightness

Sets the intensity of the light that is spread into darker areas.

Light Spread

Sets how far light is spread from bright areas to darker areas.

Shadow Brightness

Adjusts the brightness of the shadow areas.

Selection

Go to the [Selection](#) section of General Controls on page 25 to see how the Selection controls work.

Low Contrast - Tutorial

Low Contrast spreads highlights into darker areas, lowers contrast and keeps bright areas bright.

- 1 Apply the Low Contrast filter to an image.**
- 2 Adjust the Contrast>Light Brightness and Contrast>Light Spread to control the brightness and distance of the light being spread into the shadow areas.**

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, low contrast.

- 3 Change your View to Selection to see the selection values.**

The areas that are white in the selection will be the image areas used to spread light into the shadow areas. The location of the low contrast within the scene can be adjusted by modifying the Selection>Position and Selection>Range parameters.

- 4 Change the Selection>Position parameter if you want to select different luminance values to be used for the selection.**
- 5 Increase the Selection>Range value to add more low contrast into the scene. Decrease for less low contrast.**
- 6 Change your View to Spread to see the special selection used to create the low contrast effect.**

The Spread selection will change as the Contrast>Light Spread slider is adjusted.

- 7 Move the Contrast>Light Spread slider to see how it affects the Spread selection. Leave it at a value of 200 when you are done.**
- 8 Change your View to Output to see the filtered image.**
- 9 Adjust the Contrast>Shadow Brightness if your shadows are still too dark.**

MIST, BLACK MIST

Category

Diffusion.

Description

Mist

The Mist filter creates atmosphere by reducing contrast while creating a glow around highlights.

Black Mist

A more subtle version of Mist, the Black Mist filter creates atmosphere by reducing contrast, but with minimal glow around highlights.

Before



Mist After



Black Mist After



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Go to the [Mist - Tutorial](#) on page 159 to see how the filters work.

Mist

Mist

Determines the method used to create the mist effect.

Spread

The mist spreads beyond the areas defined by the selection.

Subtle

The mist is constrained by the areas defined by the selection.

Blend

Determines the blend mode to be used to create the mist effect.

Add

The mist is added to your image.

Screen

The mist is combined with the image using a Screen blend mode. This looks kind of like the Add blend mode, but highlights are retained.

Brightness

Sets the intensity of the mist.

Blur

Sets the softness of the mist. Go to the [Blur](#) section of General Controls on page 21 to see how the Blur controls work.

Color

The Color parameter sets the color of the mist through the use of a standard color picker. The default color is white.

Selection

Go to the [Selection](#) section of General Controls on page 25 to see how the Selection controls work.

Mist - Tutorial

Mist creates atmosphere by reducing contrast while creating a glow around highlights. Black Mist is a more subtle version of Mist, but creates minimal glow around highlights.

1 Apply either the Mist or Black Mist filter to an image.

2 Adjust the Mist>Brightness, Blur and Color settings to your liking.

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, mist.

3 Change your View to Selection to see the selection values.

The areas that are white in the selection are the areas where mist will be introduced. The location of the mist within the scene can be adjusted by modifying the Selection>Position and Selection>Range parameters.

4 Change the Selection>Position parameter if you want to select different luminance values to be used for the selection.

5 Increase the Selection>Range value to add more mist into the scene. Decrease for less mist.

6 Increase the Selection>Blur parameter to soften the transition areas of the mist.

7 Change your View to Output to see the filtered image.

8 The softness of the mist can also be adjusted using the Mist>Blur setting.

MONO TINT

Category

Grads / Tints.

Description

Mono Tint converts color images to black and white while applying a color tint.

Before



After



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Go to the [Mono Tint - Tutorial](#) on page 162 to see how the filter works.

Black and White

Filter

The Filter pop-up selects the type of black and white filter to be applied to your color image.

Normal

Converts the color image to a monochrome image.

Red

Simulates a red filter in black and white photography.

Green

Simulates a green filter in black and white photography.

Blue

Simulates a blue filter in black and white photography.

Yellow

Simulates a yellow filter in black and white photography.

Orange

Simulates an orange filter in black and white photography.

Brightness

Adjusts the brightness of the image. Positive values brighten, negative values darken.

Contrast

Adjusts the contrast of the image. Positive values increase contrast, negative values decrease contrast.

Gamma

Adjusts the gamma of the image. The gamma adjustment leaves the white and black points the same and only modifies the values in-between. Positive values darken the midtones, negative values lighten the midtones.

Tint

Color

The Color parameter sets the color of the tint through the use of a standard color picker.

Opacity

Sets the opacity of the tint.

Preserve Highlights

Preserves the white areas of the image.

Mono Tint - Tutorial

Mono Tint converts color images to black and white while applying a color tint.

- 1** Apply the Mono Tint filter to an image.
- 2** In the Black and White>Filter pop-up menu, select a filter to convert your image to Black and White.
- 3** Adjust the Tint>Color, Opacity and Preserve Highlights sliders to your liking.

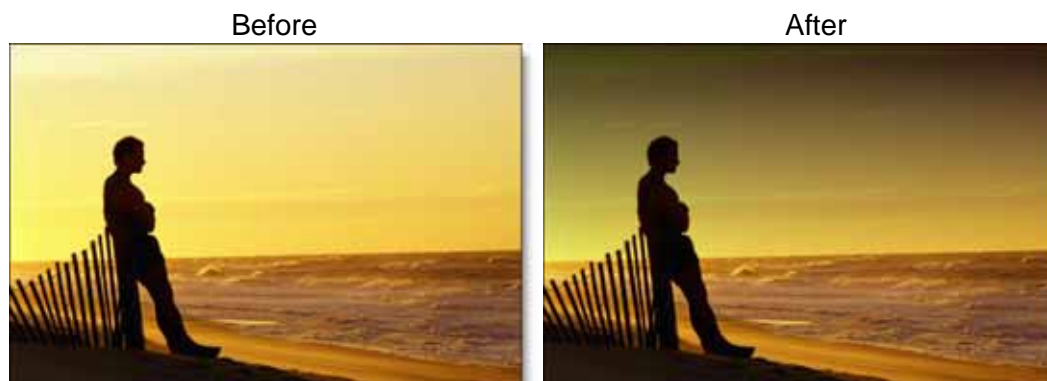
ND GRAD

Category

Grads / Tints.

Description

The ND or Neutral Density Grad darkens only a portion of the image using a graduated transition between the darkened portion and the original image. It selectively adjusts brightness without affecting color balance. The most likely use for the ND Grad would be to balance the difference between the sky and the ground. F-Stops are used as the unit of measure to darken the image. In camera terminology, F-Stops measure the size of the lens opening, otherwise known as aperture. Each F-Stop is twice as bright as the next.



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Go to the [ND Grad - Tutorial](#) on page 164 to see how the filter works.

F-Stop

Presets

Select one of the ND Grad presets from the pop-up list.

Exposure

Darkens the image using F-Stops as the unit of measure.

Note: On Avid Editing Systems and Apple Final Cut Pro, the Exposure slider deactivates when a Preset has been applied.

Preserve Highlights

Preserves the whites areas of the image.

Grad

Grad is the transition area that goes from the darkened portion to the original image. Its direction, corners and size can be adjusted. Go to the **Grad** section of Color Grad on page 50 to see how the Grad controls work.

ND Grad - Tutorial

The ND or Neutral Density Grad darkens only a portion of the image using a graduated transition.

- 1 Apply the ND Grad filter to an image.**
- 2 Adjust the Exposure slider to vary the amount of neutral density being applied to the image.**

Note: On Avid Editing Systems and Apple Final Cut Pro, the Exposure slider deactivates when a Preset has been applied.

- 3 If you'd like, select one of the presets from the pop-up list.**
- 4 Adjust the Grad>Direction, Corner Points and Size.**

Go to the **Grad** section of Color Grad on page 50 to see how the Grad controls work.

- 5 If you are curious, you can see what the Grad looks like by changing your View to Grad. Change your View to Output when done.**
- 6 If you want less darkening of the image in the area of the Grad, adjust F-Stop>Exposure.**

NIGHT VISION

Category

Effects.

Description

The Night Vision filter creates the effect of a Night Vision lens--that green, glowy, grainy look.

Before



After



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Go to the [Night Vision - Tutorial](#) on page 169 to see how the filter works.

Black and White

Selects the type of black and white filter to be applied to your color image.

Normal

Converts the color image to a monochrome image.

Red

Simulates a red filter in black and white photography.

Green

Simulates a green filter in black and white photography.

Blue

Simulates a blue filter in black and white photography.

Yellow

Simulates a yellow filter in black and white photography.

Orange

Simulates an orange filter in black and white photography.

Tint

Color

Sets the color that the image will be tinted with. The color is preset to a night vision green, but feel free change it by using the color picker.

Tint Mode

Sets the color model that will be used to calculate the tinting.

HSV

The HSV (Hue, Saturation, Value) tint mode creates a tint over the entire image.

HLS

The HLS (Hue, Luminance, Saturation) tint mode creates a tint over the image, but preserves the black and white values.

Preserve Highlights

Preserves the white areas of the image when using the HLS tint mode.

Glow

Glow

Determines the method used to create the glow effect.

Spread

The glow spreads beyond the areas defined by the selection.

Subtle

The glow is constrained by the areas defined by the selection.

Blend

Determines the blend mode to be used to create the glow effect.

Add

The glow is added to your image.

Screen

The glow is combined with the image using a Screen blend mode. This looks kind of like the Add blend mode, but highlights are retained.

Brightness

Sets the intensity of the glow.

Blur

Sets the softness of the glow. Go to the **Blur** section of General Controls on page 21 to see how the Blur controls work.

Grain

Grain Size

Controls the size of the grain.

Warning to Photoshop Users: You may not see the grain size change in the Preview window unless you are set to a 1:1 zoom ratio.

Grain Amount

Controls the intensity of the grain.

Color Correct

Go to the **Color Correct** filter on page 44 to see how the Color Correct controls work.

Selection

Go to the [Selection](#) section of General Controls on page 25 to see how the Selection controls work.

Night Vision - Tutorial

Night Vision creates the effect of a Night Vision lens by tinting the image green, blooming highlights and adding grain.

- 1 Apply the Night Vision filter to an image.**
- 2 Choose the type of black and white filter to be applied to your color image from the Black and White pop-up menu.**

The type of Black and White filter that you choose can dramatically change the look of your image.

- 3 Adjust the Glow>Brightness and Blur as well as the Grain>Size and Amount settings to your liking.**
- 4 If you want, you can use the Color Correct controls to modify the color of the image.**

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, glow.

- 5 Change your View to Selection to see the selection values.**

The areas that are white in the selection are the areas where glow will be introduced. The location of the glow within the scene can be adjusted by modifying the Selection>Position and Selection>Range parameters.

- 6 Change the Selection>Position parameter if you want to select different luminance values to be used for the selection.**
- 7 Increase the Selection>Range value to add more glow into the scene. Decrease for less glow.**
- 8 Increase the Selection>Blur parameter to soften the transition areas of the glow. The softness of the glow can also be adjusted using the Glow>Blur setting.**
- 9 Change your View to Output to see the filtered image.**

OLD PHOTO

Category

Grads / Tints.

Description

Images are treated to look like a variety of historical photographic processes including Cyanotype, Kallitype, Light Cyan, Palladium, Platinum, Sepia, Silver, Silver Gelatin and Van Dyck.

Before



After



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Go to the [Old Photo - Tutorial](#) on page 174 to see how the filter works.

Presets

The Presets set the Tint>Tint Color as well as various Color Correct settings. Select one of the filters from the pop-up list.

Note: In Apple Final Cut Pro and Avid Editing Systems, the Tint Color and the Color Correct settings can't be adjusted unless the Custom option has been selected in the Presets pop-up menu.

Cyanotype

Blue photographic prints employing light sensitive iron salts, most commonly on paper.

Kallitype

A silver-iron method for making permanent prints in gold, palladium and platinum metals.

Light Cyan

A lighter, less saturated version of Cyanotype.

Palladium

Palladium was introduced as a cheaper alternative to Platinum prints, and possesses a remarkable range of tones and surface texture.

Platinum

Platinum prints are an iron (non-silver) process for making photographic prints in which platinum is reduced from a salt to form the image.

Sepia

Sepia toning replaces silver in the black and white photographic print with silver sulphide, which is brown.

Silver

Prints made on paper coated with a solution of albumen (egg whites) and ammonia salt, which is then sensitized with silver nitrate and printed (usually using a collodion negative).

Silver Gelatin

The silver gelatin process uses gelatin as the binder and developed silver as the image material.

Van Dyck

The Vandyke print gets its name from its similarity in color to the deep brown pigment, Vandyke brown, used by the Flemish painter Van Dyck.

Black and White

Filter

The Filter pop-up selects the type of black and white filter to be applied to your color image.

Normal

Converts the color image to a monochrome image.

Red

Simulates a red filter in black and white photography.

Green

Simulates a green filter in black and white photography.

Blue

Simulates a blue filter in black and white photography.

Yellow

Simulates a yellow filter in black and white photography.

Orange

Simulates an orange filter in black and white photography.

Brightness

Adjusts the brightness of the image. Positive values brighten, negative values darken.

Contrast

Adjusts the contrast of the image. Positive values increase contrast, negative values decrease contrast.

Gamma

Adjusts the gamma of the image. The gamma adjustment leaves the white and black points the same and only modifies the values in-between. Positive values darken the midtones, negative values lighten the midtones.

Tint

Opacity

Sets the opacity of the tint.

Tint

Sets the color that the image will be tinted with. Select the desired color using the color picker. The default color is a cyan tone.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the Presets pop-up menu.

Tint Mode

Sets the color model that will be used to calculate the tinting.

HLS

The HLS (Hue, Luminance, Saturation) tint mode creates a tint over the image, but preserves the black and white values.

HSV

The HSV (Hue, Saturation, Value) tint mode creates a tint over the entire image.

Preserve Highlights

Preserves white areas of the image when using the HLS tint mode.

Color Correct

Go to the **Color Correct** filter on page 44 to see how the Color Correct controls work.

Old Photo - Tutorial

Images are treated to look like a variety of historical photographic processes including Cyanotype, Kallitype, Light Cyan, Palladium, Platinum, Sepia, Silver, Silver Gelatin and Van Dyck.

- 1 Apply the Old Photo filter to an image.**
- 2 Try out the different presets by selecting them from the Filters>Presets list.**
Note: In Apple Final Cut Pro and Avid Editing Systems, the Tint Color and the Color Correct settings can't be adjusted unless the Custom option has been selected in the Presets pop-up menu.
- 3 In the Black and White>Filter pop-up menu, select a filter to convert your image to Black and White.**
The look of the image will significantly change based on the type of black and white filter used.
- 4 Change to the Custom preset to select a custom color and adjust other settings.**
- 5 Adjust the Tint>Color, Opacity and Preserve Highlights sliders to your liking.**

OVEREXPOSE

Category

Film Lab.

Description

Overexpose simulates the overexposure that occurs when a film camera is stopped.



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Go to the [Overexpose - Tutorial](#) on page 176 to see how the filter works.

Amount

Controls the amount of overexposure.

Intensity

Sets the intensity of the overexposure.

Blur

Adjusts the softness of the overexposure. Go to the [Blur](#) section of General Controls on page 21 to see how the Blur controls work.

Overexpose - Tutorial

Overexpose simulates the overexposure that occurs when a film camera is stopped.

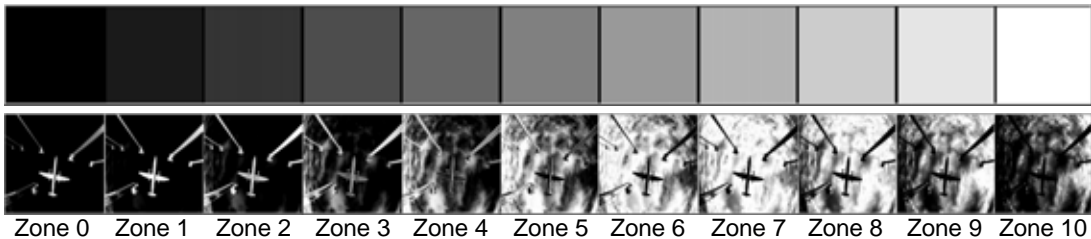
- 1 Apply the Overexpose filter to an image.**
- 2 Vary your result by adjusting both the Amount and Blur controls.**

Category

Color Correct.

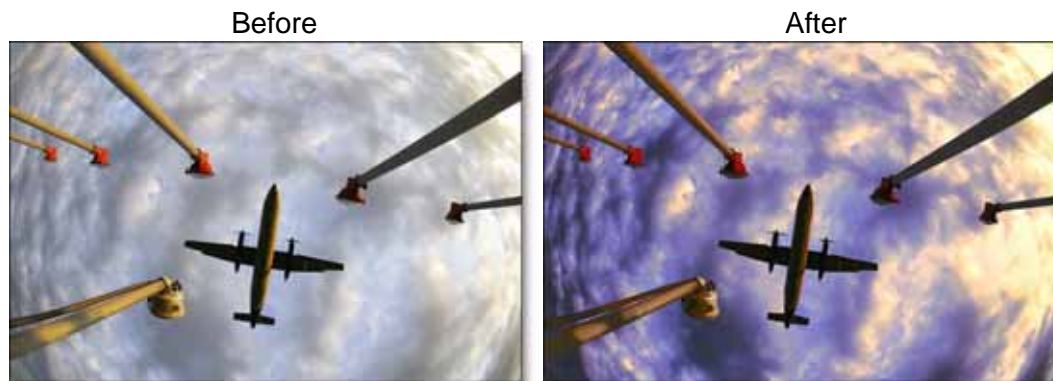
Description

The Ozone filter allows you to manipulate the color of an image with incredible flexibility and accuracy. Inspired by Ansel Adams' Zone System for still photography, we have created "The Digital Zone System". Just what is the Digital Zone System? The world around us contains an infinite palette of colors, tones and brightness. To reproduce this vast range of brightness, the Digital Zone System takes the spectrum of image values and divides them into 11 discrete zones, using proprietary image slicing algorithms. Each zone is twice as bright as the previous zone, proceeding from black towards white. Look at how the image below is divided into zones:



With Ozone, the color, brightness, contrast and gamma of each zone can be independently adjusted until you've painted a new picture. Your adjustments occur on a zone by zone basis, but you view the result of all color corrections simultaneously.

Go to the [Ozone - Tutorial](#) on page 181 to see how the filter works.



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Extract On

The Extract On pop-up menu allows you to specify the image values to be used for dividing the image into the 11 individual zones.

Luminance

Zones are created using the image's luminance values.

Hue

Zones are created using the image's hue. When adjusting the Position parameter, you are selecting different hues.

Saturation

Zones are created using the image's saturation values.

Average

Zones are created based on the average of the image's RGB values.

Red

Zones are created using the image's red values.

Green

Zones are created using the image's green values.

Blue

Zones are created using the image's blue values.

Alpha

Zones are created using the image's alpha values.

Cyan

Zones are created using the image's cyan values.

Magenta

Zones are created using the image's magenta values.

Yellow

Zones are created using the image's yellow values.

Zone 0-10

When using Luminance as the method for slicing up the image, the Position and Range sliders are preset so that each zone is twice as bright as the previous zone, proceeding from black towards white. Pure black is defined as Zone 0, Zone 5 as middle gray and pure white as Zone 10.

By using the View pop-up menu, you can look at the individual zones which is helpful in determining the portions of the image you are going to adjust. The values shown as white in the selected zone are the areas of the image that will be modified by the color adjustments. Go back to View>Output when you are ready to adjust color.

Go to the **Selection** section of General Controls on page 25 to see how the Position and Range controls work.

Position

The Position value pinpoints the color values to be used in the selected zone. This value has been preset according to the Digital Zone System, but can be changed if you choose. If the zones are created using Luminance, a high Position value shows the brightest image values as white values in the zone. A low Position value shows the darkest image values as white values in the zone.

Range

The Range value increases or decreases the range of values in the selected zone. This value has been preset according to the Digital Zone System, but can be changed if you want.

Brightness

Adjusts the brightness of the zone. Positive values brighten, negative values darken.

Contrast

Adjusts the contrast of the zone. Positive values increase contrast, negative values decrease contrast.

Gamma

Adjusts the gamma of the zone. The gamma adjustment leaves the white and black points the same and only modifies the values in-between. Positive values darken the midtones, negative values lighten the midtones.

Red

Adds or subtracts red from the zone.

Green

Adds or subtracts green from the zone.

Blue

Adds or subtracts blue from the zone.

Ozone - Tutorial

- 1 Apply the Ozone filter to an image.**
- 2 Use the View pop-up menu to look at Zones 0-10.**

The selected zone is represented as a black and white image. The values shown as white in the selected zone are the portions of the image that will be modified when using the Brightness, Contrast, Gamma, Red, Green and Blue sliders. As the values drop-off to black, so does the strength of whatever adjustments you'll make. Although the zone's Position and Range parameters are preset according to the Digital Zone system, they can be changed if you want.

The Position value pinpoints the color values to be used in the selected zone. For instance, if the zones are created using Luminance, a high Position value shows the brightest image values as white values in the zone. A low Position value shows the darkest image values as white values in the zone. The Range value increases or decreases the range of values in the selected zone.

- 3 Make sure that the View pop-up menu is set to Output.**

The preview window now shows the full color image. When viewing the full color image, you are always looking at the result of all zone color corrections.

- 4 To modify your image, adjust any combination of the Brightness, Contrast, Gamma, Red, Green and Blue sliders for each zone.**

Your adjustments occur on a zone by zone basis, but you view the result of all color corrections simultaneously.

PENCIL

Category

Effects.

Description

Pencil converts your image to a pencil sketch.

Before



After



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Amount

Sets the intensity of the pencil effect.

Color

The Color parameter sets the color of the filter through the use of a standard color picker.

PHOTOGRAPHIC FILTERS, COLOR CONVERSION, LIGHT BALANCING AND COLOR COMPENSATING

Category

Grads / Tints.

Description

The most complete line of Kodak® filters for photographic uses is available in the form of gelatin films and are known as Wratten® Gelatin Filters.

Photographic Filters are digital equivalents of the Wratten set and were created using the spectral transmission curves for each optical filter. The Color Conversion, Light Balancing and Color Compensating filters are subsets of Photographic Filters.

Before



After



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Go to the [Photographic Filters - Tutorial](#) on page 186 to see how the filter works.

Photographic Filters

Digital versions of the complete line of Kodak® Wratten® Gelatin Filters.

Color Conversion

Color Conversion filters correct for significant differences in color temperature between your light source and recording media.

Light Balancing

Light Balancing filters correct for minor differences in color temperature between your light source and recording media.

Color Compensating

Color Compensating filters control color by attenuating specific parts of the spectrum. They can be used to make changes in color balance or compensate for deficiencies in the image's spectral quality.

Filters

Presets

Select one of the filters from the pop-up list. Go to [Appendix F - Photographic Filters](#) on page 289 to see the complete list of filters.

Color

The Color parameter sets the color of the filter through the use of a standard color picker.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the Presets pop-up menu.

Opacity

Sets the opacity of the color filter.

Preserve Highlights

Preserves the white areas of the image.

Exposure Compensation

Exposure Compensation adds back the brightness loss as a result of the filter application.

Grad

These filters can optionally use a gradient that limits where the image is adjusted. Grad is the transition area that goes from the colored portion to the original image. Its direction, corners and size can be adjusted. Go to the [Grad](#) section of Color Grad on page 50 to see how the Grad controls work.

Photographic Filters - Tutorial

The most complete line of Kodak® filters for photographic uses is available in the form of gelatin films and are known as Wratten® Gelatin Filters.

Photographic Filters are digital equivalents of the Wratten set and were created using the spectral transmission curves for each optical filter. The Color Conversion, Light Balancing and Color Compensating filters are subsets of Photographic Filters.

1 Apply the Photographic Filters to an image.

By default, the 1A Pale Pink filter preset is applied to the image.

2 From the Presets pop-up menu, select another filter preset.

The selected filter can be applied through a gradient creating a graduated transition between the colored portion and the original image.

3 Click on the Grad>Enable checkbox to activate the Grad.

4 Adjust the Grad>Direction, Corner Points and Size.

Go to the **Grad** section of Color Grad on page 50 to see how the Grad controls work.

5 If you are curious, you can see what the Grad looks like by changing your View to Grad. Change your View to Output when done.

6 To apply a custom color to the image, you can do so by selecting Custom from the Presets pop-up menu and adjusting the Filters>Color parameter.

7 If you want less coloring of the image, turn down the Filters>Opacity.

8 Image highlights can be retained by adjusting the Filters>Preserve Highlights control to a value of 100.

POLARIZER

Category

Lens.

Description

The greatest use of polarizing filters is to achieve a darkened, deep blue sky. Our digital version of the Polarizer is designed to do just that. Through the use of a selection and an adjustable gradient, the color of the sky can be adjusted.

Before



After



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Go to the [Polarizer - Tutorial](#) on page 190 to see how the filter works.

Sky

Color Correct controls are provided to adjust the sky.

Hue

Rotates the hue of the sky.

Saturation

Adjusts the saturation of the sky. Positive values saturate, negative values desaturate.

Brightness

Adjusts the brightness of the sky. Positive values brighten, negative values darken.

Contrast

Adjusts the contrast of the sky. Positive values increase contrast, negative values decrease contrast.

Gamma

Adjusts the gamma of the sky. The gamma adjustment leaves the white and black points the same and only modifies the values in-between. Positive values darken the midtones, negative values lighten the midtones.

Red

Adds or subtracts red from the entire sky.

Green

Adds or subtracts green from the entire sky.

Blue

Adds or subtracts blue from the entire sky.

Temperature

Sets the color temperature of the sky. Dragging the slider to the right makes the image cooler (bluer) and dragging the slider to the left makes the image warmer (redder).

Grad

The Polarizer can optionally use a gradient that limits where the image is adjusted. For instance, if the polarization is affecting areas other than the sky, enable the Grad and adjust it to limit the areas of polarization. Go to the [Grad](#) section of Color Grad on page 50 to see how the Grad controls work.

Selection

The Polarizer isolates the sky using a selection based on blue values. Skies vary in their color of blue, so you can adjust the selection to accommodate your sky.

Hue

A selection is created based on the hue of the image. When adjusting the Hue parameter, you are selecting different hues. The Hue is preset to blue values.

Range

Increases or decreases the range of values in the selection. A low Range value indicates a narrow range of values. A high Range value indicates a large range of values included in the selection

Blur

Blurs the selection.

Polarizer - Tutorial

The Polarizer creates a darkened, deep blue sky. Through the use of a selection and a gradient, the color of the sky can be adjusted.

1 Apply the Polarizer filter to an image.

2 Change your View to Selection to see the selection values.

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, the polarization.

3 Change the Selection>Hue parameter if you want to select different blue values to be used for the sky selection.

A selection is generated based on the blue values in the sky. Skies vary in their color of blue, so you can adjust the selection to accommodate your sky. The blue that is used to create the selection can be modified by using Selection>Hue to select the exact blue value and Selection>Range to select the amount of blue values to be used for the selection.

4 Increase the Selection>Range value to add more polarization into the scene. Decrease for less polarization.

5 Increase the Selection>Blur parameter to soften the transition areas of the polarization.

Remember, the areas that are white in the selection are the areas that will be polarized.

6 Change your View to Output to see the filtered image.

7 Adjust the Sky color settings to make the sky look polarized.

8 If the polarization is affecting areas other than they sky, enable the Grad and adjust it to limit the areas of polarization.

PRINTER POINTS

Category

Color Correct.

Description

Printer Points manipulate the red, green and blue values of the overall image and separately in user definable shadow, midtone and highlight areas using motion picture laboratory printer points as the unit of measure. When creating color prints for motion pictures, a contact printer performs scene-to-scene color corrections. The most popular printing method is additive printing that uses three separate colored sources - red, green, and blue which are combined to form the light source that exposes the film. The red, green, and blue light valves in the printer are adjusted in values of 1, 2, 3. . . up to 60 for each primary color and are called printer points or printer lights.

Before



After



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Printer Points works in a similar fashion as Color Correct even though the color adjustments are slightly different. So, go to the [Color Correct Tutorial](#) on page 47 to see how the filter works.

Master

The master settings affect the entire image. The Red, Green and Blue Exposure are set to a value of 25 which represent no adjustment. Printer "lights" or points set to 25, 25, 25 are considered to be the normal or standard printer setup at most motion picture labs.

Red Exposure

Adds or subtracts red from the image. As in motion picture printing, higher values subtract and lower values add.

Green Exposure

Adds or subtracts green from the image. As in motion picture printing, higher values subtract and lower values add.

Blue Exposure

Adds or subtracts blue from the image. As in motion picture printing, higher values subtract and lower values add.

Gang

The Red, Blue and Green Exposure slider values can be ganged together. Slide the Red Exposure slider to affect all three values.

Shadows, Midtones, Highlights

Adjusting parameters within the shadows, midtones and highlights will only affect those specific areas. If you are unsure about what values are included in the shadows, midtones and highlights, you can use the View pop-up menu. It will allow you to view the shadows, midtones and highlights as a black and white selection. The white areas are the areas that will be adjusted by that particular group. For instance, if you see white areas while viewing the midtones, then midtone color adjustments will affect only those white areas. If you want to change the default areas defined by the shadows, midtones and highlights, you would use the Position and Range sliders.

Go to the **Selection** section of General Controls on page 25 to see how the Position and Range controls work.

Position

The Position slider pinpoints the values to be considered as shadows, midtones, or highlights. A low Position value uses the darkest image values, while a high Position value uses the brightest.

Range

Increases or decreases the range of values considered as shadows, midtones or highlights. A low Range value indicates a narrow range of values, while a high Range value indicates a large range of values.

Red Exposure

Adds or subtracts red from the image. As in motion picture printing, higher values subtract and lower values add.

Green Exposure

Adds or subtracts green from the image. As in motion picture printing, higher values subtract and lower values add.

Blue Exposure

Adds or subtracts blue from the image. As in motion picture printing, higher values subtract and lower values add.

Gang

The Red, Blue and Green Exposure slider values can be ganged together. Slide the Red Exposure slider to affect all three values.

RACK FOCUS

Category

Blurs.

Description

Rack Focus replicates a true camera defocus by introducing lens Bokeh effects. Bokeh is the Japanese term that describes the quality of out-of-focus points of light. In defocused areas, each point of light becomes a shape--either a circle or a polygon. The shape grows in size as the amount of defocusing is increased.

Before



After



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Go to the [Rack Focus - Tutorial](#) on page 196 to see how the filter works.

Warning: Large Position>Range and Aperture>Size settings can cause the Rack Focus plug-in to render slowly.

Blur

The image is blurred by a quality blur.

Aperture

The Aperture settings control the various qualities of the out-of-focus points of light.

Boost

Brightens the out-of-focus points of light.

Facets

Set the number of facets of out-of-focus points of light when the Curvature parameter is set to 0.

Curvature

Controls the curvature of out-of-focus points of light. When set to 100, the out-of-focus points of light are completely round. Set to a value of 0 to see a polygonal shape.

Angle

Rotates the out-of-focus points of light.

Size

Sets the size of the out-of-focus points of light.

Blur

Blurs the out-of-focus points of light.

Noise

Noise is introduced into the out-of-focus points of light resulting in a more organic bokeh effect.

Density

Controls the brightness of the noise.

Selection

Go to the **Selection** section of General Controls on page 25 to see how the Selection controls work.

Time Average

In most cases, it is necessary to use an Average function on moving images. Otherwise, the Bokeh effects tend to flicker. Averaging allows for a very smooth selection, because pixel values from future frames are averaged together.

Rack Focus - Tutorial

Rack Focus replicates a true camera defocus by introducing lens Bokeh effects. Bokeh is the Japanese term that describes the quality of out-of-focus points of light. In defocused areas, each point of light becomes a shape--either a circle or a polygon. The shape grows in size as the amount of defocusing is increased.

- 1 Apply the Rack Focus filter to an image.**
- 2 Adjust the Blur to your liking.**
- 3 Set the Aperture>Curvature to 0 if you prefer the out-of-focus points of light be polygonal in shape.**

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, Bokeh effects.

- 4 Change your View to Selection to see the selection values.**

The areas that are white in the selection are the areas where Bokeh effects will be introduced. The location of the Bokeh effects within the scene can be adjusted by modifying the Selection>Position and Selection>Range parameters.

- 5 Change the Selection>Position parameter if you want to select different luminance values to be used for the selection.**
- 6 Change you View to Aperture to see the generated Bokeh effects.**
- 7 Increase the Selection>Range value to add more Bokeh effects into the scene. Decrease for less Bokeh effects.**

The Selection>Range parameter has been purposely set to a low value. A high range setting will slow down the filter significantly.

- 8 Increase the Selection>Blur parameter to smooth out the selection.**
- 9 Change your View to Output to see the filtered image.**

RADIAL EXPOSURE

Category

Lens.

Description

Lightens and/or darkens the center or edges of an image to correct lens vignetting.

Before



After



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Go to the [Radial Exposure - Tutorial](#) on page 199 to see how the filter works.

Exposure

Edges

Lightens or darkens the edges of the image.

Center

Lightens or darkens the center of the image.

Spot

A radial gradient is used to lighten or darken the edges or center of the image.

Position

Position X

The horizontal position of the spot.

Position Y

The vertical position of the spot.

Note: There is an on-screen control in the center of the image. By clicking and dragging the on-screen control, the position of the Spot can be adjusted. To see the on-screen control in After Effects, you may need to highlight Radial Exposure in the Effect Controls window, and in Final Cut Pro and Combustion, you will have to click on the crosshair icon to the right of the Position parameter. On Avid Editing Systems, the Position parameters are named only X and Y.

Aspect

The aspect ratio of the spot.

Radius

The un-blurred radius of the spot.

Falloff Radius

The blurred edge radius.

Falloff

Moves the falloff towards the spot centerpoint.

Radial Exposure - Tutorial

Lightens and/or darkens the center or edges of an image to correct lens vignetting.

1 Apply the Radial Exposure filter to an image.

2 Adjust the Exposure>Edges or Center parameters.

The radial gradient used to lighten or darken the edges or center of the image can be adjusted to suit your image.

3 Adjust the Spot>Position, Radius, Falloff Radius and Falloff.

4 If you are curious, you can see what the Spot looks like by changing your View to Spot. Change your View to Output when done.

RELIGHT

Category

Light.

Description

Light can be added to a scene where none existed before. A complete set of light source controls allow you to adjust the light just as you would at the time of shooting.

Before



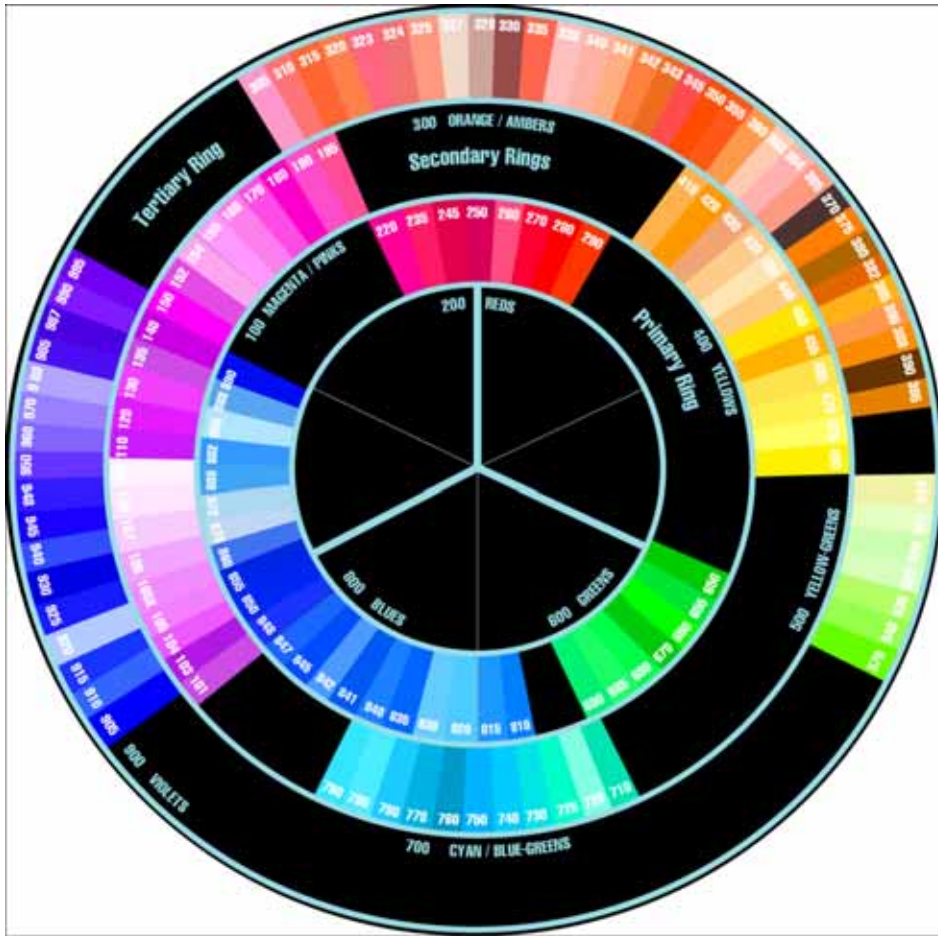
After



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Photographers, cinematographers and lighting designers use colored filters or gels in front of lights. Whether they want to create a romantic moonlit setting or a vicious, angry fight, they have the colors they need to achieve the effect. Digital equivalents of the lighting gels created by GAMPRODUCTS, INC. can be applied to your light source. The GamColor system divides the visible

spectrum into nine color sections convenient to the lighting designer. It is a circular classification of colors by hue, referencing the primaries, secondaries and important subdivisions.



The GamColor gels are arranged according to this system, making it easy to locate any color in a logical manner. For detailed information about GAM Patterns and Gels, you can visit their website at www.gamonline.com.

Go to the [ReLight - Tutorial](#) on page 204 to see how the filter works.

Light

Blend

Determines the blend mode to be used to add the light.

Add

The light is added to your image.

Screen

The light is combined with the image using a Screen blend mode. This looks kind of like the Add blend mode, but highlights are retained.

Brightness

Sets the intensity of the light.

Displacement

Displaces the light source by the luminance values of the image. This "fakes" the effect of light wrapping over objects in the image.

Blur

Sets the softness of the light. Go to the **Blur** section of General Controls on page 21 to see how the Blur controls work.

GamColor Presets

Digital equivalents of the lighting gels created by GAMPRODUCTS, INC. can be applied to your light source. Select one of the GamColor presets from the pop-up list. Go to **Appendix G - Gam Color** on page 293 to see the complete list of gels.

Color

Sets the color of the light through the use of a standard color picker.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the GamColor Presets pop-up menu.

Selection

A selection is used to constrain the area of added light. Wherever there is a white in the selection is where the light will be added. When using ReLight, it is usually helpful to blur the selection. Go to the [Selection](#) section of General Controls on page 25 to see how the Selection controls work.

Note: Light Source>Blend Mode must be set to something other than Shape Only for the selection controls to be active.

Light Source

Blend

The light source can be added to the selection using a variety of Blend modes. Go to [Appendix C](#) on page 280 to see visual examples of the various Blend modes.

I like the Multiply blend mode for combining the light source with the selection because it only puts the pattern within the areas of the selection.

Opacity

Sets the opacity of the light source.

Radius

The un-blurred radius of the light.

Falloff Radius

The blurred edge radius.

Falloff

Moves the falloff towards the light centerpoint.

DVE

The DVE allows you to transform your light source using Position, Scale, Rotation, Corner Pin, Shear and Crop controls. Go to the [DVE](#) section of General Controls on page 22 to see how the DVE Controls work.

ReLight - Tutorial

Light can be added to a scene where none existed before. A complete set of light source controls allow you to adjust the light just as you would at the time of shooting.

Adobe Photoshop

- 1 Apply the ReLight filter to an image.**
- 2 Using the Light Source>Position, Scale, Rotate and Corner Pin controls, you can move the shape around.**
- 3 In the Light menu, adjust the Brightness, Displacement, and Blur of the light.**
Adding blur to the light makes the light glow.

- 4 To apply a custom light color to the image, click on the Light>Color box and select a color.**

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the GamColor Presets pop-up menu.

- 5 To choose one of the GamColor gels, select a gel from the Light>GamColor>Presets list.**
- 6 Combine the light source with a selection by changing the Shape>Blend Mode from Shape Only to Multiply.**

I like the Multiply blend mode because it only adds the light source in the areas of the selection.

- 7 Change your View selector to Selection to see the selection values.**

The default Selection settings are preset to a highlight selection to create the light effect. If you are not seeing sufficient light, your selection should be adjusted. The areas that are white in the selection are the areas where light will be added into the image. The location of the light within the scene can be adjusted by changing the Selection>Position and Selection>Range parameters.

- 8 Change the Selection>Position parameter if you want to select different values to be used for the light.**
- 9 Increase the Selection>Range value to add more light into the scene. Decrease for less light.**
- 10 Change the View selector from Selection to Output.**
- 11 Increase the Selection>Blur parameter to soften the transition areas of the light.**

Platforms other than Photoshop

- 1** Apply the ReLight filter to an image.
- 2** Using the Shape>DVE controls, you can move the shape around.
- 3** In the Light menu, adjust the Brightness, Displacement, and Blur of the light.

Adding blur to the light makes the light glow.

- 4** To apply a custom light color to the image, click on the Light>Color box and select a color.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the GamColor Presets pop-up menu.

- 5** To choose one of the GamColor gels, select a gel from the Light>GamColor>Presets list.
- 6** Combine the light source with a selection by changing the Light Source>Blend Mode from Shape Only to Multiply.

I like the Multiply blend mode because it only adds the light source in the areas of the selection.

- 7** Change your View selector to Selection to see the selection values.

The default Selection settings are preset to a highlight selection to create the light effect. If you are not seeing sufficient light, your selection should be adjusted. The areas that are white in the selection are the areas where light will be added into the image. The location of the light within the scene can be adjusted by changing the Selection>Position and Range parameters.

- 8** Change the Selection>Position parameter if you want to select different values to be used for the light.
- 9** Increase the Selection>Range value to add more light into the scene. Decrease for less light.
- 10** Change the View selector from Selection to Output.
- 11** Increase the Selection>Blur parameter to soften the transition areas of the light.

SELECTIVE COLOR CORRECT

Category

Color Correct.

Description

Colors can be selectively isolated through the use of a selection and adjusted using hue, saturation, brightness, gamma, contrast, red, green, and blue controls.



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Go to the [Selective Color Correct - Tutorial](#) on page 214 to see how the filter works.

Color Controls

Certain parts of the image are isolated by the creation of a selection. Whatever is shown as white in the selection can be adjusted by the color controls below.

Hue

Rotates the hue of the image.

Saturation

Adjusts the saturation of the image. Positive values saturate, negative values desaturate.

Brightness

Adjusts the luminance of the entire image. Positive values brighten, negative values darken.

Contrast

Adjusts the contrast of the entire image. Positive values increase contrast, negative values decrease contrast.

Gamma

Adjusts the gamma of the entire image. The gamma adjustment leaves the white and black points the same and only modifies the values in-between. Positive values darken the midtones, negative values lighten the midtones.

Red

Adds or subtracts red from the image.

Green

Adds or subtracts green from the image.

Blue

Adds or subtracts blue from the image.

Temperature

Sets the color temperature of the image. Dragging the slider to the right makes the image cooler (bluer) and dragging the slider to the left makes the image warmer (redder).

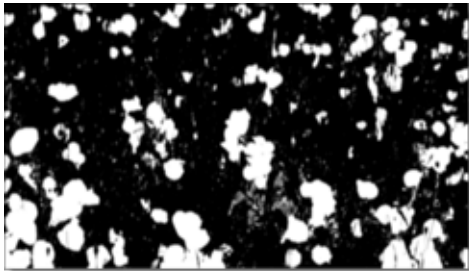
Selection

A selection is created to isolate areas to be color corrected. Using advanced image slicing algorithms, selections are created using luminance, hue, saturation, average, red, green, blue, cyan, magenta, and yellow values.

Original



Selection



Extract On

Extract On selects the type of selection. Select whichever type isolates the desired values.

Hue Selection



A selection is created based on one of the following:

Luminance

A selection is created based on the luminance of the image.

Hue

A selection is created based on the hue of the image. When adjusting the Position parameter, you are selecting different hues.

Saturation

A selection is created based on the saturation of the image.

Average

A selection is created based on the average of the image's RGB values.

Red

A selection is created based on the image's red values.

Green

A selection is created based on the image's green values.

Blue

A selection is created based on the image's blue values.

Alpha

A selection is created based on the image's alpha values.

Cyan

A selection is created based on the image's cyan values.

Magenta

A selection is created based on the image's magenta values.

Yellow

A selection is created based on the image's yellow values.

Position

The Position value pinpoints the color values to be used in the selection. For a luminance selection, a Position value of 100 would make a white selection of the highlights and a value of 0 would make a white selection of the shadows. In

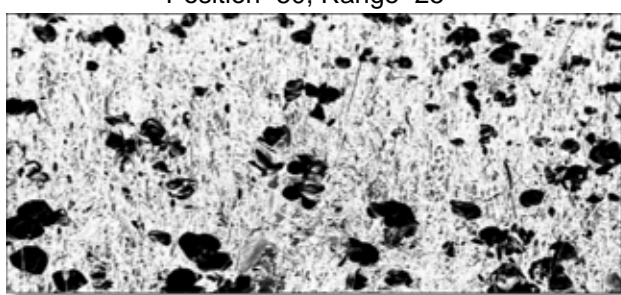
our flower image, look at how the selection varies for different Position values in a red extraction. When the Position is at a value of 100, the red flowers are shown as white in the selection.

Position=100, Range=25



When the Position is moved to 50, the red flowers turn black.

Position=50, Range=25



Range

Increases or decreases the range of values in the selection. A low Range value indicates a narrow range of values. A high Range value indicates a large range of values included in the selection.

Position=100, Range=50



Clip

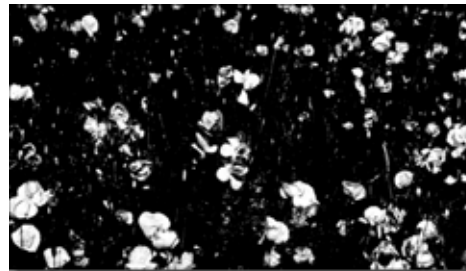
Clip Black

Blacks in the selection are made blacker by increasing the value of the slider. As the slider value increases, more values are clipped to black. This is helpful for getting rid of unwanted grey areas in what should be the black part of the selection.

Selection with No Black Clip



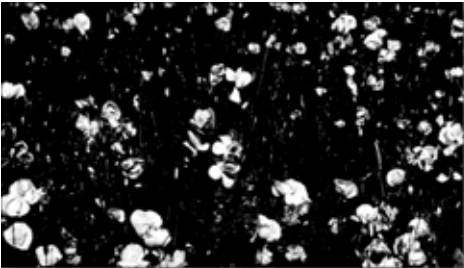
Black Clip=50



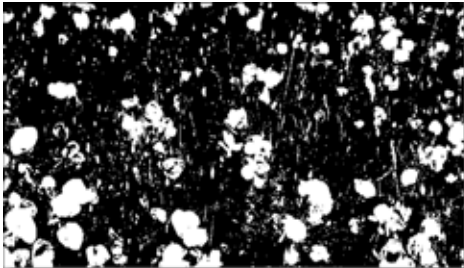
Clip White

Whites in the selection are made whiter by increasing the value of the slider. As the slider value increases, more values are clipped to white. This is helpful for getting rid of unwanted grey areas in what should be the white part of the selection.

Selection with No White Clip



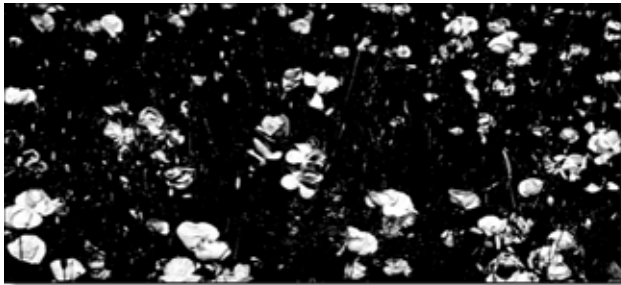
White Clip=50



Shrink/Grow

Shrinks or grows the selection. Negative values shrink and positive values grow the selection.

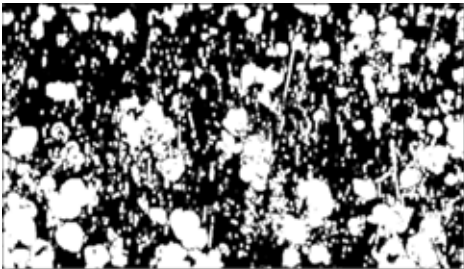
Original



Shrink=-2



Grow=1.5



Blur

Go to the **Blur** section of General Controls on page 21 to see how the Blur controls work.

No Blur



Blur=10



Invert

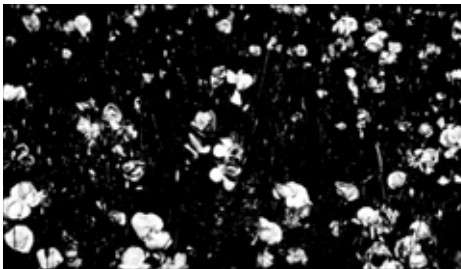
- **Off**

Does nothing to the selection.

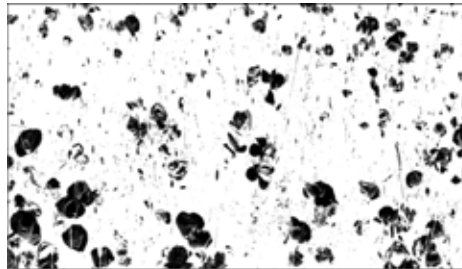
- **On**

Inverts the luminance values of the selection.

Invert Off



Invert On



Selective Color Correct - Tutorial

Colors can be selectively isolated through the use of a selection and adjusted using hue, saturation, brightness, gamma, contrast, red, green, and blue controls.

- 1 Apply the Selective Color Correct filter to an image.**
- 2 Change your View to Selection to see the selection values.**

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, selective color correction.

- 3 Adjust the selection controls so that the areas that you want to color correct are white in the selection.**

Go to the [Selection](#) parameters on page 208 to see how they work.

- 4 Change your View to Output to see the image.**
- 5 Adjust the color correct parameters to your liking.**

SELECTIVE SATURATION

Category

Color Correct.

Description

The saturation of the image can be adjusted independently in the shadows, midtones and highlights.

Before



After



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Go to the [Selective Saturation - Tutorial](#) on page 217 to see how the filter works.

Shadows

Saturation

Adjusts the saturation of the image in the shadows. Positive values saturate, negative values desaturate.

Position

Selects the shadow values to be adjusted when using the Saturation slider.

Range

Controls the range of values to be used for the shadows. A higher Range value considers more values as shadows.

Midtones

Saturation

Adjusts the saturation of the image in the midtones. Positive values saturate, negative values desaturate.

Position

Selects the midtones values to be adjusted when using the Saturation slider.

Range

Controls the range of values to be used for the midtones. A higher Range value considers more values as midtones.

Highlights

Saturation

Adjusts the saturation of the image in the highlights. Positive values saturate, negative values desaturate.

Position

Selects the highlight values to be adjusted when using the Saturation slider.

Range

Controls the range of values to be used for the highlights. A higher Range value considers more values as highlights.

Selective Saturation - Tutorial

The saturation of the image can be adjusted independently in the shadows, midtones and highlights.

1 Apply the Selective Saturation filter to an image.

2 Adjust the Saturation in the Shadows, Midtones or Highlights.

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, selective saturation. Shadow, midtone and highlight selections have been preset for you to adjust the saturation selectively in those areas.

3 Change your View to Shadows, Midtones or Highlights to see the selection values.

The areas that are white in the selection are the areas that will be adjusted by the Saturation slider. The areas defined as shadows, midtones or highlights can be adjusted by modifying the Position and Range parameters.

4 Adjust the Shadow, Midtone or Highlight Position and Range controls to change what is considered shadows, midtones or highlights.

Go to the [Selection](#) section of General Controls on page 25 to see how the Selection controls work.

5 Change your View to Output to see the image.

SKIN SMOOTHER

Category

Diffusion.

Description

Skin Smoother softens wrinkles and blemishes producing smooth skin textures while retaining detail in larger features such as the eyes, nose and mouth.

Before



After



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Go to the [Skin Smoother - Tutorial](#) on page 220 to see how the filter works.

Blur

The image is blurred only in areas of the selection.

Horizontal Blur

The image is blurred by a fast, quality blur along the X-axis.

Vertical Blur

The image is blurred by a fast, quality blur along the Y-axis.

Gang

The horizontal and vertical slider values can be ganged together. Slide the horizontal slider to affect both values.

Note: When Gang is turned on, the vertical slider doesn't physically move. However, the vertical value will follow the value of the horizontal slider when Gang is turned on.

Edge

Edge detail lost as a result of the blurring is restored through the use of an edge detect.

Brightness

Determines the brightness of the edge selection.

Blur

Blurs the edge selection.

Opacity

Determines the opacity of the edge detail added back to the image.

Selection

Go to the **Selection** section of General Controls on page 25 to see how the Selection controls work.

Skin Smoother - Tutorial

Skin Smoother softens wrinkles and blemishes producing smooth skin textures while retaining detail in larger features such as the eyes, nose and mouth. This is achieved by softening the image based on a selection with areas of detail being retained by using an edge detect. The first step is to adjust the selection.

- 1 Apply the Skin Smoother filter to an image.**
- 2 Change your View to Selection to see the selection values.**

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, skin smoothing.

The idea here is to generate a selection that isolates the face of the person whose skin needs to be smoothed. The white areas of the selection are the areas that will be smoothed. The selection has been preset to a midtone selection. This can be modified by using Selection>Position to select the luminance value and Selection>Range to select the amount of values to be used for the selection.

- 3 If needed, change the Selection>Position parameter so that the face you are trying to smooth is as white as possible in the selection.**
- 4 Adjust the Selection>Range value so that the white values of the selection are limited as much as possible to the person's face.**
- 5 Increase the Selection>Blur parameter if you want to soften the transition areas of the soft focus.**
- 6 Change your View to Edge to see the edge values.**

The areas that are white in the edge is where detail in the image is retained.

- 7 Adjust the Edge>Brightness of the edge selection to make sure that you have sufficient levels of white in areas such as the person's eyes, nose and mouth.**
- 8 Set the Edge>Blur to smooth out the edge selection.**
- 9 Change your View to Output to see the filtered image.**
- 10 Adjust the Horizontal and Vertical Blur to smooth out any blemishes or wrinkles.**
- 11 If the person is looking too soft, increase the Edge>Brightness, decrease the amount of Blur added to the scene or modify the Selection>Position and Range parameters.**

SOFT EFFECTS, WARM SOFT EFFECTS

Category

Diffusion.

Description

Soft Effects

Soft Effects diffuses the image in such a way that minimizes facial imperfections while retaining overall clarity.

Warm Soft Effects

Warm Soft Effects diffuses the image in such a way that minimizes facial imperfections while retaining overall clarity in combination with a warming filter.



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Go to the [Soft Effects / Warm Soft Effects - Tutorial](#) on page 223 to see how the filters work.

Blur

Horizontal Blur

The image is blurred by a fast, quality blur along the X-axis.

Vertical Blur

The image is blurred by a fast, quality blur along the Y-axis.

Gang

The horizontal and vertical slider values can be ganged together. Slide the horizontal slider to affect both values.

Note: When Gang is turned on, the vertical slider doesn't physically move. However, the vertical value will follow the value of the horizontal slider when Gang is turned on.

Opacity

Sets the amount of diffusion mixed into the original image. The higher the setting, the more the image is blurred.

Warming

Color

The Color parameter sets the color of the warming through the use of a standard color picker.

Opacity

Sets the opacity of the warming.

Preserve Highlights

Preserves the white areas of the image.

Exposure Compensation

Exposure Compensation adds back the brightness loss as a result of the warming.

Note: The Warming controls are only available in Warm Soft Effects.

Soft Effects - Tutorial

Soft Effects diffuses the image in such a way that minimizes facial imperfections while retaining overall clarity. Warm Soft Effects adds a warming filter.

- 1** Apply either the Soft Effects or Warm Soft Effects filter to an image.
- 2** Adjust the Blur and Opacity parameters to your liking.
- 3** If using Warm Soft Effects, adjust the Warming>Color, Opacity, Preserve Highlights and Exposure Compensation sliders to your liking.

SPLIT FIELD

Category

Blurs.

Description

Split Field splits the image with a line that can be positioned, rotated and blurred. On one side of the line, the image is blurred and on the other, it is in focus.

Before



After



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Go to the [Split Field - Tutorial](#) on page 225 to see how the filter works.

Blur

Horizontal Blur

The split portion of the image is blurred by a quality blur along the X-axis.

Vertical Blur

The split portion of the image is blurred by a quality blur along the Y-axis.

Gang

The horizontal and vertical slider values can be ganged together. Slide the horizontal slider to affect both values.

Note: When Gang is turned on, the vertical slider doesn't physically move. However, the vertical value will follow the value of the horizontal slider when Gang is turned on.

Split

The Split controls manipulate the position, rotation and blur of the split line.

Position

Position X

The horizontal position of the split line.

Position Y

The vertical position of the split line.

Note: There is an on-screen control in the center of the image. By clicking and dragging the on-screen control, the position of the split line can be adjusted. To see the on-screen control in After Effects, you may need to highlight Split Field in the Effect Controls window, and in Final Cut Pro and Combustion, you will have to click on the crosshair icon to the right of the Position parameter. On Avid Editing Systems, the Position parameters are named only X and Y.

Rotate

Rotates the split line.

Blur

Blurs the split line with a fast quality blur.

Split Field - Tutorial

Split Field splits the image with a line that can be positioned, rotated and blurred. On one side of the line, the image is blurred and on the other, it is in focus.

- 1** Apply the Split Field filter to an image.
- 2** Adjust the Blur controls.
- 3** Position, Rotate and Blur the split line using the Split controls.

SPLIT TONE

Category

Grads / Tints.

Description

Shadows, midtones and highlights can be individually tinted with the Split Tone filter.



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Go to the [Split Tone - Tutorial](#) on page 229 to see how the filter works.

Shadows

Opacity

Set the opacity of the tint color.

Tint

The Tint parameter sets the color of the shadow tint through the use of a standard color picker.

Position

Selects the shadow values to be adjusted when using the Opacity slider.

Range

Controls the range of values to be used for the shadows. A higher Range value considers more values as shadows.

Midtones

Opacity

Set the opacity of the tint color.

Tint

The Tint parameter sets the color of the midtone tint through the use of a standard color picker.

Position

Selects the shadow values to be adjusted when using the Opacity slider.

Range

Controls the range of values to be used for the midtones. A higher Range value considers more values as shadows.

Highlights

Opacity

Set the opacity of the tint color.

Tint

The Tint parameter sets the color of the highlight tint through the use of a standard color picker.

Position

Selects the highlight values to be adjusted when using the Opacity slider.

Range

Controls the range of values to be used for the highlights. A higher Range value considers more values as highlights.

Preserve Highlights

Preserves the white areas of the image.

Exposure Compensation

Exposure Compensation adds back the brightness loss as a result of the tinting.

Split Tone - Tutorial

Shadows, midtones and highlights can be individually tinted with the Split Tone filter.

- 1 Apply the Split Tone filter to an image.**
- 2 Turn up the Opacity slider in the Shadows, Midtones or Highlights.**
- 3 Change the Tint colors by clicking on the Tint color boxes.**

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, split toning.

- 4 Change your View to Shadows, Midtones or Highlights to see the selection values.**

The areas that are white in the selection are the areas that will be tinted by the selected tint color. The areas defined as Shadows, Midtones or Highlights can be adjusted by modifying the Position and Range parameters.

- 5 Adjust the Shadows, Midtones or Highlights Position and Range controls to change what is considered to be Shadows, Midtones or Highlights.**
- 6 Change your View to Output to see the image.**

STAR

Category

Light.

Description

Six point star patterns are generated on highlights in the image.

Before



After



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Go to the [Star - Tutorial](#) on page 231 to see how the filter works.

Star

Brightness

Sets the intensity of the stars.

Size

Controls the size of the stars.

Color

The Color parameter sets the color of the stars through the use of a standard color picker. The default color is white.

Note: When adding stars to images with a lot of dark values, you may need to increase the Star>Brightness value.

Selection

Go to the **Selection** section of General Controls on page 25 to see how the Selection controls work.

Star - Tutorial

Six point star patterns are generated on highlights in the image.

1 Apply the Star filter to an image.

2 Adjust the Star>Brightness, Size and Color settings to your liking.

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, a star filter.

3 Change your View to Selection to see the selection values.

The selection has been preset to a highlight selection to generate the stars. Different luminance values can be selected with the Selection>Position parameter and the range of selection values can be adjusted using Selection>Range.

4 Change the Selection>Position parameter if you want to select different luminance values to be used for the selection.

Stars will be generated wherever there are white values in the selection.

5 Change your View to Stars to see the generated stars.

6 Increase the Selection>Range value to add more stars into the scene. Decrease for less stars.

7 Change your View to Output to see the filtered image.

STREAKS

Category

Effects.

Description

The Streaks filter creates horizontal or vertical streaks around highlights in the image.

Before



After



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Go to the [Streaks - Tutorial](#) on page 234 to see how the filter works.

Streaks

Blend

Determines the blend mode to be used to create the streak effect.

Add

The streaks are added to your image.

Screen

The streaks are combined with the image using a Screen blend mode. This looks kind of like the Add blend mode, but highlights are retained.

Brightness

Sets the intensity of the streaks.

Streaks

Horizontal Streaks

Creates horizontal streaks along the X-axis.

Vertical Streaks

Creates vertical streaks along the Y-axis.

Color

The Color parameter sets the color of the streaks through the use of a standard color picker. The default color is white.

Selection

Go to the [Selection](#) section of General Controls on page 25 to see how the Selection controls work.

Streaks - Tutorial

The Streaks filter creates horizontal or vertical streaks around highlights in the image.

1 Apply the Streaks filter to an image.

2 Adjust either the Vertical or Horizontal Streaks controls.

Note: If you adjust both the Vertical and Horizontal Streak controls at the same time, the Streak effect will be lost.

3 Select either the Add or Screen Blend Mode. Add will burn out highlights while the Screen Mode will retain them.

4 Adjust the Streak>Brightness and Color settings to your liking.

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, streaks.

5 Change your View to Selection to see the selection values.

The areas that are white in the selection are the areas where streaks will be introduced. The location of the streaks within the scene can be adjusted by modifying the Selection>Position and Selection>Range parameters.

6 Change the Selection>Position parameter if you want to select different luminance values to be used for the selection.

7 Increase the Selection>Range value to add more streaks into the scene. Decrease for less streaks.

8 Change your View to Output to see the filtered image.

STRIP GRAD

Category

Grads / Tints.

Description

Strip Grad colors and or darkens only a portion of the image in the form of a narrow strip using photographic filters. Presets for your favorite color grad filters are provided as well as the ability to create custom colors. There is a graduated transition for a smooth color blend between the colored/darkened portion and the original image. Strip Grad is especially good for changing and enhancing a narrow portion of the sky.

Before



After



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Go to the [Strip Grad - Tutorial](#) on page 237 to see how the filter works.

Filters

Presets

Select one of the filters from the pop-up list. Go to [Appendix D](#) on page 283 to see the complete list of filters.

Color

The Color parameter sets the color of the grad through the use of a standard color picker.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the Presets pop-up menu.

Opacity

Sets the opacity of the color filter.

Preserve Highlights

Preserves the white areas of the image.

Exposure Compensation

Exposure Compensation adds back the brightness loss as a result of the filter application.

Grad

Grad is the transition area that goes from the tinted image to the original image. Its direction, corners and size can be adjusted. Go to the **Grad** section of Color Grad on page 50 to see how the Grad controls work.

Strip Grad - Tutorial

Strip Grad colors and or darkens only a portion of the image in the form of a narrow strip using photographic filters.

1 Apply the Strip Grad filter to an image.

By default, the Custom filter preset is applied to the image.

2 To apply a custom color to the image, click on the Filters>Color box and select a color.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the Presets pop-up menu.

3 To choose one of the preset filters, select a filter from the Filters>Presets list.

You can also adjust the gradient's position and size.

4 Adjust the Grad>Direction, Corner Points and Size.

Go to the **Grad** section of Color Grad on page 50 to see how the Grad controls work.

5 If you are curious, you can see what the Grad looks like by changing your View to Grad. Change your View to Output when done.

6 If you want less coloring of the image, turn down the Filters>Opacity.

7 Image highlights can be retained by adjusting the Filters>Preserve Highlights control to a value of 100.

SUNSET/TWILIGHT

Category

Grads / Tints.

Description

Sunset/Twilight applies three photographic filters to the image which are blended together with a gradient.

Before



After



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Go to the [Sunset/Twilight - Tutorial](#) on page 240 to see how the filter works.

Color 1

Sets the color for the top third of the image. Select the desired color using the color picker or choose a filter preset. The default color is magenta.

Presets

Select one of the filters from the pop-up list. Go to [Appendix D](#) on page 283 to see the complete list of filters.

Color

The Color parameter sets the color of the grad through the use of a standard color picker.

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the Presets pop-up menu.

Opacity

Sets the opacity of the color filter.

Color 2

The Color 2 controls are the same as the controls for Color 1 except that the default color is a orange and is applied to the middle third of the image.

Color 3

The Color 3 controls are the same as the controls for Color 1 except that the default color is yellow and is applied to the bottom third of the image.

Preserve Highlights

Preserves the white areas of the image.

Exposure Compensation

Exposure Compensation adds back the brightness loss as a result of the filter application.

Grad

Grad is the combination of the three blended tints. Its direction, corners and size can be adjusted. Go to the **Grad** section of Color Grad on page 50 to see how the Grad controls work.

Sunset/Twilight - Tutorial

Sunset/Twilight applies three photographic filters to the image which are blended together with a gradient.

- 1 Apply the Sunset/Twilight filter to an image.**
- 2 To apply custom colors to the image, click on the Color 1, Color 2 and Color 3>Color box's and select a color.**

Note: The Color picker allows you to treat the image with a custom color, but is only active when the Custom option has been selected in the Presets pop-up menu.

- 3 To choose one of the preset filters, select a filter from the Color 1, Color 2 and Color 3>Presets list.**
- 4 If you want less coloring of the image, turn down Color 1, Color 2 or Color 3>Opacity.**
- 5 Image highlights can be retained by adjusting the Preserve Highlights control to a value of 100.**

The color gradient can be adjusted to your specific image.

- 6 Adjust the Grad>Direction, Corner Points and Size to position and adjust the grad.**

Go to the **Grad** section of Color Grad on page 50 to see how the Grad controls work.

- 7 Change your View to Grad to see the color gradient being applied to the image.**
- 8 Change your View back to Output to see the filtered image.**

TELECINE

Category

Color Correct.

Description

Telecine emulates the method of color correction done in a telecine film to tape transfer suite. Hue, saturation, brightness, contrast, gamma and pedestal values of the overall image can be adjusted as well as separately in user definable shadow, midtone and highlight areas.

Before



After



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Telecine works in a similar fashion as Color Correct even though the color adjustments are slightly different. So, go to the [Color Correct Tutorial](#) on page 47 to see how the filter works.

Master

The master settings affect the entire image.

Hue

Rotates the hue of the image.

Saturation

Adjusts the saturation of the image. Positive values saturate, negative values desaturate.

Brightness

Adjusts the brightness of the image. Positive values brighten, negative values darken.

Contrast

Adjusts the contrast of the image. Positive values increase contrast, negative values decrease contrast.

Gamma

Adjusts the gamma of the image. The gamma adjustment leaves the white and black points the same and only modifies the values in-between. Positive values darken the midtones, negative values lighten the midtones.

Pedestal

Adjusts the black level of the image.

Lift, Gamma, Gain

Adjusting parameters within the Lift (shadows), Gamma (midtones) and Gain (highlights) will only affect those specific areas. If you are unsure about what values are included in Lift, Gamma and Gain, you can use the View pop-up menu. It will allow you to view the Lift, Gamma and Gain as a black and white selection. The white areas are the areas that will be adjusted by that particular group. For instance, if you see white areas while viewing the Gamma, then Gamma color adjustments will affect only those white areas. If you want to change the default areas defined by the Lift, Gamma and Gain, you would use the Position and Range sliders.

Go to the [Selection](#) section of General Controls on page 25 to see how the Position and Range controls work.

Position

The Position slider pinpoints the values to be considered as Lift, Gamma, or Gain. A low Position value uses the darkest image values, while a high Position value uses the brightest.

Range

Increases or decreases the range of values considered as Lift, Gamma or Gain. A low Range value indicates a narrow range of values, while a high Range value indicates a large range of values.

Hue

Rotates the hue of the image.

Saturation

Adjusts the saturation of the image. Positive values saturate, negative values desaturate.

Brightness

Adjusts the brightness of the image. Positive values brighten, negative values darken.

Contrast

Adjusts the contrast of the image. Positive values increase contrast, negative values decrease contrast.

Gamma

Adjusts the gamma of the image. The gamma adjustment leaves the white and black points the same and only modifies the values in-between. Positive values darken the midtones, negative values lighten the midtones.

Pedestal

Adjusts the black level of the image.

TEMPERATURE

Category

Color Correct.

Description

Temperature manipulates the temperature, cyan/magenta and brightness values of the overall image and separately in user definable shadow, midtone and highlight areas.

Before



After



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Temperature works in a similar fashion as Color Correct even though the color adjustments are slightly different. So, go to the [Color Correct Tutorial](#) on page 47 to see how the filter works.

Master

The master settings affect the entire image.

Temperature

Sets the color of the image to be either warmer or cooler. Dragging the slider to the right makes the image cooler (bluer) and dragging the slider to the left makes the image warmer (redder).

Cyan/Magenta

Adds either Cyan or Magenta to the image. Dragging the slider to the right makes the image more magenta and dragging the slider to the left makes the image more cyan.

Brightness

Adjusts the luminance of the image.

Shadows, Midtones, Highlights

Adjusting parameters within the shadows, midtones and highlights will only affect those specific areas. If you are unsure about what values are included in the shadows, midtones and highlights, you can use the View pop-up menu. It will allow you to view the shadows, midtones and highlights as a black and white selection. The white areas are the areas that will be adjusted by that particular group. For instance, if you see white areas while viewing the midtones, then midtone color adjustments will affect only those white areas. If you want to change the default areas defined by the shadows, midtones and highlights, you would use the Position and Range sliders.

Go to the **Selection** section of General Controls on page 25 to see how the Position and Range controls work.

Position

The Position slider pinpoints the values to be considered as shadows, midtones, or highlights. A low Position value uses the darkest image values, while a high Position value uses the brightest.

Range

Increases or decreases the range of values considered as shadows, midtones or highlights. A low Range value indicates a narrow range of values, while a high Range value indicates a large range of values.

Temperature

Sets the color of the image to be either warmer or cooler. Dragging the slider to the right makes the image cooler (bluer) and dragging the slider to the left makes the image warmer (redder).

Cyan/Magenta

Adds either Cyan or Magenta to the image. Dragging the slider to the right makes the image more magenta and dragging the slider to the left makes the image more cyan.

Brightness

Adjusts the luminance of the image.

THREE STRIP

Category

Film Lab.

Description

Known and celebrated for its ultra-realistic, saturated levels of color, the Technicolor® Three Strip process was commonly used for musicals, costume pictures and animated films. It was created by photographing three black and white strips of film each passing through red, green and blue filters on the camera lens and then recombining them in the printing process. Our Three Strip filter was created under the direction of Academy Award Winning Visual Effects Supervisor Rob Legato.

Before



After



Photos © THINKSTOCK LLC--WWW.THINKSTOCK.COM

Go to the [Three Strip - Tutorial](#) on page 249 to see how the filter works.

Opacity

Sets the intensity of the of the Three Strip effect.

Strips

Red Intensity

Intensifies red values in the image.

Red Smooth

Blurs the red selection that is used to isolate the red values. Use this control to smooth out any noise that may appear if the Red Intensity is turned up to a high value.

Green Intensity

Intensifies green values in the image.

Green Smooth

Blurs the green selection that is used to isolate the green values. Use this control to smooth out any noise that may appear if the Green Intensity is turned up to a high value.

Blue Intensity

Intensifies blue values in the image.

Blue Smooth

Blurs the blue selection that is used to isolate the blue values. Use this control to smooth out any noise that may appear if the Blue Intensity is turned up to a high value.

Color Correct

Go to the **Color Correct** filter on page 44 to see how the Color Correct controls work.

Three Strip - Tutorial

Known and celebrated for its ultra-realistic, saturated levels of color, the Technicolor® Three Strip process was commonly used for musicals, costume pictures and animated films. It was created by photographing three black and white strips of film each passing through red, green and blue filters on the camera lens and then recombining them in the printing process. Our Three Strip filter was created under the direction of Academy Award Winning Visual Effects Supervisor Rob Legato.

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, increasing the intensity of the red, green and blue values.

- 1 Apply the Three Strip filter to an image.**
- 2 Change your View to Red, Green or Blue to see the selection values.**

Normally, the areas that are white in the selection are the areas that will be adjusted by a particular filter or control. The Red, Green and Blue Intensities, on the other hand, make adjustments where you see black in the selection.
- 3 Adjust the Intensity of whatever color channel you are viewing and you will see that certain values become darker. These are the values that will be intensified in the color image.**
- 4 Change your View to Output to see the color image.**
- 5 Adjust the Red, Green and Blue Intensities until you have the desired levels of red, green and blue in the image.**
- 6 You may need to use the Red, Green and Blue Smooth controls to smooth out any noise that may have appeared if the Intensities were turned up to high values.**

The Smooth controls are set to a low value by default.

- 7 Set the Opacity to a lower level if the strength of the Three Strip effect looks too strong.**

Color Correct controls are also provided for additional control.

TINT

Category

Grads / Tints.

Description

Tints the entire image with a selected color.

Before



After



Photos © THINKSTOCK LLC--WWW.THINKSTOCK.COM

Go to the [Tint - Tutorial](#) on page 252 to see how the filter works.

Tint

Opacity

Sets the opacity of the tint color.

Tint

Sets the color that the image will be tinted with. Select the desired color using the color picker. The default color is a sepia tone.

Tint Mode

Sets the color model that will be used to calculate the tinting.

HLS

The HLS (Hue, Luminance, Saturation) tint mode creates a tint over the image, but preserves the black and white values.

HSV

The HSV (Hue, Saturation, Value) tint mode creates a tint over the entire image.

Replace

The Replace tint mode replaces any areas of saturation with the chosen tint color, but preserves the white levels from the original image.

Note: The Replace mode won't work on an image that is black and white.

Preserve Highlights

Preserves white areas of the image when using the HLS tint mode.

Grad

Grad is the transition area that goes from the tinted image to the original image. Its direction, corners and size can be adjusted. Go to the **Grad** section of Color Grad on page 50 to see how the Grad controls work.

Tint - Tutorial

Tints the entire image with a selected color

1 Apply the Tint filter to an image.

By default, a sepia color is applied to the image.

2 To apply a different color to the image, click on the Tint>Tint color box and select a new color.

3 Select either a HLS, HSV or Replace Tint Mode.

4 When using the HLS Tint mode, image highlights can be retained by adjusting the Tint>Preserve Highlights control to a value of 100.

5 If you want less tinting of the image, turn down the Tint>Opacity.

You can also use a gradient in combination with the Tint.

6 To use a gradient with the Tint, click on Grad>Enable.

7 Adjust the Grad>Direction, Corner Points and Size.

Go to the [Grad](#) section of Color Grad on page 50 to see how the Grad controls work.

8 If you are curious, you can see what the Grad looks like by changing your View to Grad. Change your View to Output when done.

TWO STRIP

Category

Film Lab.

Description

The Technicolor® Two Strip process was the first stab at producing color motion pictures and consisted of simultaneously photographing two black and white images using red and green filters. This look creates an odd but pleasing hand-painted look where faces appear normal and green takes on a blue-green quality, while the sky and all things blue appear cyan. Our Two Strip filter was created under the direction of Academy Award Winning Visual Effects Supervisor Rob Legato.

Before



After



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Go to the [Two Strip - Tutorial](#) on page 255 to see how the filter works.

Opacity

Sets the intensity of the of the Two Strip effect.

Strips

Red Intensity

Intensifies red values in the image.

Red Smooth

Blurs the red selection that is used to isolate the red values. Use this control to smooth out any noise that may appear if the Red Intensity is turned up to a high value.

Green Intensity

Intensifies green values in the image.

Green Smooth

Blurs the green selection that is used to isolate the green values. Use this control to smooth out any noise that may appear if the Green Intensity is turned up to a high value.

Blue Intensity

Darkens image areas that were blue in the source image.

Blue Smooth

Blurs the blue selection that is used to isolate the blue values. Use this control to smooth out any noise that may appear if the Blue Intensity is turned up to a high value.

Color Correct

Go to the [Color Correct](#) filter on page 44 to see how the Color Correct controls work.

Two Strip - Tutorial

The Technicolor® Two Strip process was the first stab at producing color motion pictures and consisted of simultaneously photographing two black and white images using red and green filters. This look creates an odd but pleasing hand-painted look where faces appear normal and green takes on a blue-green quality, while the sky and all things blue appear cyan. Our Two Strip filter was created under the direction of Academy Award Winning Visual Effects Supervisor Rob Legato.

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, increasing the intensity of the red, green and blue values.

- 1 Apply the Two Strip filter to an image.**
- 2 Change your View to Red, Green or Blue to see the selection values.**

Normally, the areas that are white in the selection are the areas that will be adjusted by a particular filter or control. The Red, Green and Blue Intensities, on the other hand, make adjustments where you see black in the selection.
- 3 Adjust the Intensity of whatever color channel you are viewing and you will see that certain values become darker. These are the values that will be intensified in the color image.**
- 4 Change your View to Output to see the color image.**
- 5 Adjust the Red and Green Intensities until you have the desired levels of red and green in the image.**
- 6 Adjust the Blue Intensity to darken image areas that were blue in the source image.**
- 7 You may need to use the Red, Green and Blue Smooth controls to smooth out any noise that may have appeared if the Intensities were turned up to high values.**

The Smooth controls are set to a low value by default.

- 8 Set the Opacity to a lower level if the strength of the Two Strip effect looks too strong.**

Color Correct controls are also provided for additional control.

ULTRA CONTRAST

Category

Color Correct.

Description

Ultra Contrast lowers contrast evenly throughout the image by brightening shadow areas and darkening highlights. It is useful for correcting dark foreground subjects due to strong backlighting as well as highlights that are slightly washed out.

Before



After



Photos © THINKSTOCK LLC--WWW.THINKSTOCK.COM

Go to the [Ultra Contrast - Tutorial](#) on page 257 to see how the filter works.

Shadows

Shadows

Raises the brightness of the shadows.

Position

Selects the shadow values to be adjusted when using the Shadows slider.

Range

Controls the range of values to be used for the shadows. A higher Range value considers more values as shadows.

Highlights

Highlights

Lowers the brightness of the highlights.

Position

Selects the highlight values to be adjusted when using the Highlights slider.

Range

Controls the range of values to be used for the highlights. A higher Range value considers more values as highlights.

Ultra Contrast - Tutorial

Ultra Contrast lowers contrast evenly throughout the image by brightening shadow areas and darkening highlights. It is useful for correcting dark foreground subjects due to strong backlighting as well as highlights that are slightly washed out.

- 1 Apply the Ultra Contrast filter to an image.**
- 2 Adjust the Shadows>Shadows slider to brighten shadow areas.**
- 3 Adjust the Highlights>Highlights slider to darken highlight areas.**

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, lowering contrast.

- 4 Change your View to Shadows or Highlights to see the selection values.**

The areas that are white in the selection are the areas that will be adjusted by either the Shadows or Highlights sliders. The areas defined as Shadows or Highlights can be adjusted by modifying the Position and Range parameters.

- 5 Adjust the Shadows or Highlights Position and Range controls to change what is considered Shadows or Highlights.**

Go to the [Selection](#) section of General Controls on page 25 to see how the Position and Range controls work.

- 6 Change your View to Output to see the image.**

VARI-STAR

Category

Light.

Description

Variable multi-point star patterns are generated on highlights in the image.

Before



After



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Go to the [Vari-Star - Tutorial](#) on page 260 to see how the filter works.

Warning: Large Position>Range and Star>Size settings can cause the Vari-Star plugin to render slowly.

Star

The Star settings control the various qualities of the generated star patterns.

Blend

Determines the blend mode to be used when adding the stars.

Add

The stars are added to your image.

Screen

The stars are combined with the image using a Screen blend mode. This looks kind of like the Add blend mode, but highlights are retained.

Brightness

Determines the brightness of the stars.

Spokes

Controls the number of star spokes.

Size

Sets the star size.

Angle

Rotates the stars.

Blur

Blurs the stars.

Noise

Noise is introduced into the star patterns resulting in a more organic star effect.

Density

Controls the brightness of the noise.

Color

Sets the star color.

Selection

Go to the **Selection** section of General Controls on page 25 to see how the Selection controls work.

Time Average

In most cases, it is necessary to use an Average function on moving images. Otherwise, the Star patterns tend to flicker. Averaging allows for a very smooth selection, because pixel values from future frames are averaged together.

Vari-Star - Tutorial

Variable multi-point patterns are generated on highlights in the image.

- 1 Apply the Vari-Star filter to an image.**
- 2 Adjust the Star>Brightness, Spokes, Size and Color settings to your liking.**
In some of the 55mm filters, a selection is generated to create the desired effect--in this case, star effects.
- 3 Change your View to Selection to see the selection values.**
The areas that are white in the selection are the areas where stars will be introduced. The location of the stars within the scene can be adjusted by modifying the Selection>Position and Selection>Range parameters.
- 4 Change the Selection>Position parameter if you want to select different luminance values to be used for the selection.**
- 5 Change your View to Stars to see the generated stars.**
- 6 Increase the Selection>Range value to add more stars into the scene. Decrease for less stars.**
The Selection>Range parameter has been purposely set to a low value. A high range setting will slow down the plug-in significantly.
- 7 Increase the Selection>Blur parameter to smooth out the star selection.**
- 8 Change your View to Output to see the filtered image.**

VIGNETTE

Category

Lens.

Description

A vignette, or soft fade, is a popular photographic effect where the photo gradually fades into the background, usually in an oval or square shape. The vignette can be any color as well as thrown out of focus.

Before



After



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Go to the [Vignette - Tutorial](#) on page 263 to see how the filter works.

Vignette

Type

Sets the type of vignette to be used.

Circular

Uses a circular vignette shape.

Square

Uses a square vignette shape.

Horizontal and Vertical Blur

When creating defocused vignettes, use these blur parameters. Go to the [Blur](#) section of General Controls on page 21 to see how the Blur controls work.

Color

The Color parameter sets the color of the vignette through the use of a standard color picker. The default color is black.

Opacity

Sets the opacity of the colored vignette. For defocused vignettes, turn down the Opacity so you can see the defocused effect.

Shape

Softness X / Y

The Softness parameters control the vignette's edge softness and operate similar to our standard blur controls. Go to the [Blur](#) section of General Controls on page 21 to see how the softness controls work.

Size X / Y

The size parameters change the size of the vignette.

Size X

The horizontal size of the vignette.

Size Y

The vertical size of the vignette.

Gang Size

The Size X and Size Y slider values can be ganged together. Drag the Size X slider to affect both values.

Note: When Gang is turned on, the Size Y slider doesn't physically move. However, the Size Y value will follow the value of the Size X slider when Gang is turned on.

Vignette - Tutorial

A vignette, or soft fade, is a popular photographic effect where the photo gradually fades into the background, usually in an oval or square shape. The vignette can be any color as well as thrown out of focus.

- 1 Apply the Vignette filter to an image.**
- 2 Select either a circular or square vignette shape.**
- 3 Adjust the Shape>Softness and Size.**

The area outside of the shape will be where the vignetting will occur.

- 4 If you are curious, you can see what the vignette looks like by changing your View to Shape. Change your View to Output when done.**
- 5 Set the Vignette>Color and Opacity.**

The vignette can be either colored or defocused or a combination of the two.
- 6 Turn down the Vignette>Opacity if you would like to see only defocusing in the vignette.**
- 7 Adjust the Vignette>Horizontal and Vertical Blur to your liking.**

WARM MIST, WARM BLACK MIST

Category

Diffusion.

Description

Warm Mist

The Warm Mist filter creates atmosphere by reducing contrast and glowing highlights in combination with a warming filter.

Warm Black Mist

The Warm Black Mist filter creates atmosphere by reducing contrast, but with minimal glow around highlights in combination with a warming filter.

Before



Warm Mist After



Warm Black Mist After



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Go to the [Warm Mist / Warm Black Mist - Tutorial](#) on page 267 to see how the filters work.

Mist

Mist

Determines the method used to create the mist effect.

Spread

The mist spreads beyond the areas defined by the selection.

Subtle

The mist is constrained by the areas defined by the selection.

Blend

Determines the blend mode to be used to create the mist effect.

Add

The mist is added to your image.

Screen

The mist is combined with the image using a Screen blend mode. This looks kind of like the Add blend mode, but highlights are retained.

Brightness

Sets the intensity of the mist.

Blur

Sets the softness of the mist. Go to the [Blur](#) section of General Controls on page 21 to see how the Blur controls work.

Color

The Color parameter sets the color of the mist through the use of a standard color picker. The default color is white.

Warming

Color

The Color parameter sets the color of the warming through the use of a standard color picker.

Opacity

Sets the opacity of the warming.

Preserve Highlights

Preserves the white areas of the image.

Exposure Compensation

Exposure Compensation adds back the brightness loss as a result of the warming.

Selection

Go to the [Selection](#) section of General Controls on page 25 to see how the Selection controls work.

Warm Mist / Warm Black Mist - Tutorial

The Warm Mist filter creates atmosphere by reducing contrast and glowing highlights in combination with a warming filter. The Warm Black Mist filter creates atmosphere by reducing contrast, but with minimal glow around highlights in combination with a warming filter.

1 Apply either the Warm Mist or Warm Black Mist filter to an image.

2 Adjust the Mist>Brightness, Blur and Color settings to your liking.

In some of the 55mm filters, a selection is generated to create the desired effect--in this case, mist.

3 Change your View to Selection to see the selection values.

The areas that are white in the selection are the areas where mist will be introduced. The location of the mist within the scene can be adjusted by modifying the Selection>Position and Selection>Range parameters.

4 Change the Selection>Position parameter if you want to select different luminance values to be used for the selection.

5 Increase the Selection>Range value to add more mist into the scene. Decrease for less mist.

6 Increase the Selection>Blur parameter to soften the transition areas of the mist.

7 Change your View to Output to see the filtered image.

8 The softness of the mist can also be adjusted using the Mist>Blur setting.

X-RAY

Category

Effects.

Description

Simulates the look of X-Ray images.

Before



After



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Go to the [X-Ray - Tutorial](#) on page 270 to see how the filters work.

Black and White

Filter

The Filter pop-up selects the type of black and white filter to be applied to your color image.

Normal

Converts the color image to a monochrome image.

Red

Simulates a red filter in black and white photography.

Green

Simulates a green filter in black and white photography.

Blue

Simulates a blue filter in black and white photography.

Yellow

Simulates a yellow filter in black and white photography.

Orange

Simulates an orange filter in black and white photography.

Brightness

Adjusts the brightness of the image. Positive values brighten, negative values darken.

Contrast

Adjusts the contrast of the image. Positive values increase contrast, negative values decrease contrast.

Gamma

Adjusts the gamma of the image. The gamma adjustment leaves the white and black points the same and only modifies the values in-between. Positive values darken the midtones, negative values lighten the midtones.

Color

Opacity

Sets the opacity of the color.

Color

The Color parameter sets the color of the x-ray through the use of a standard color picker and defaults to blue.

X-Ray - Tutorial

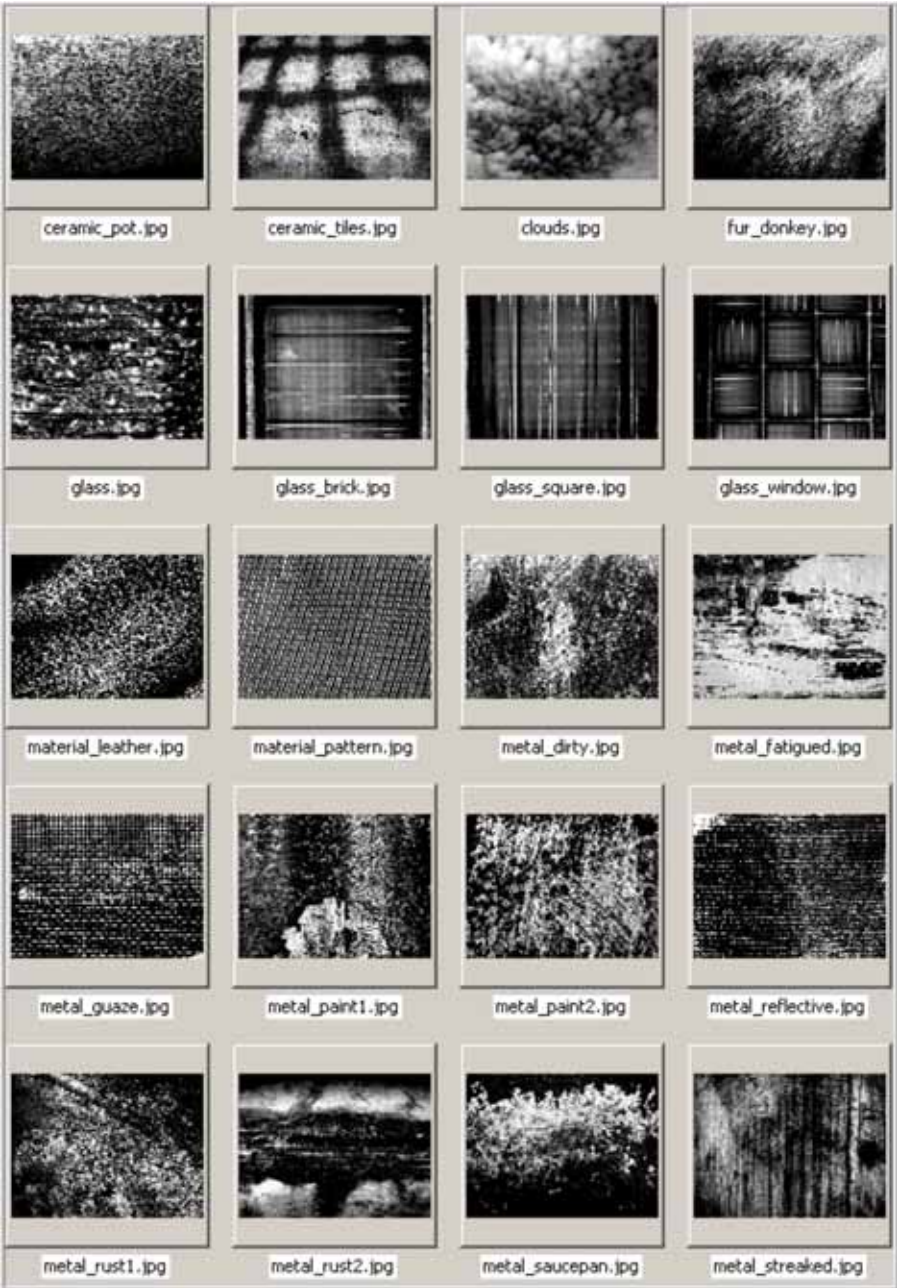
Simulates the look of X-Ray images.

- 1 Apply the X-Ray filter to an image.**
- 2 From the Filter pop-up, select the type of black and white filter to be applied to your color image.**

Your choice of filter can dramatically change the black and white result.

- 3 Use the Brightness, Contrast and Gamma controls to further adjust the image.**
- 4 Adjust the Color if you would like to tint the image to something other than blue.**

APPENDIX A - TEXTURE LIBRARY

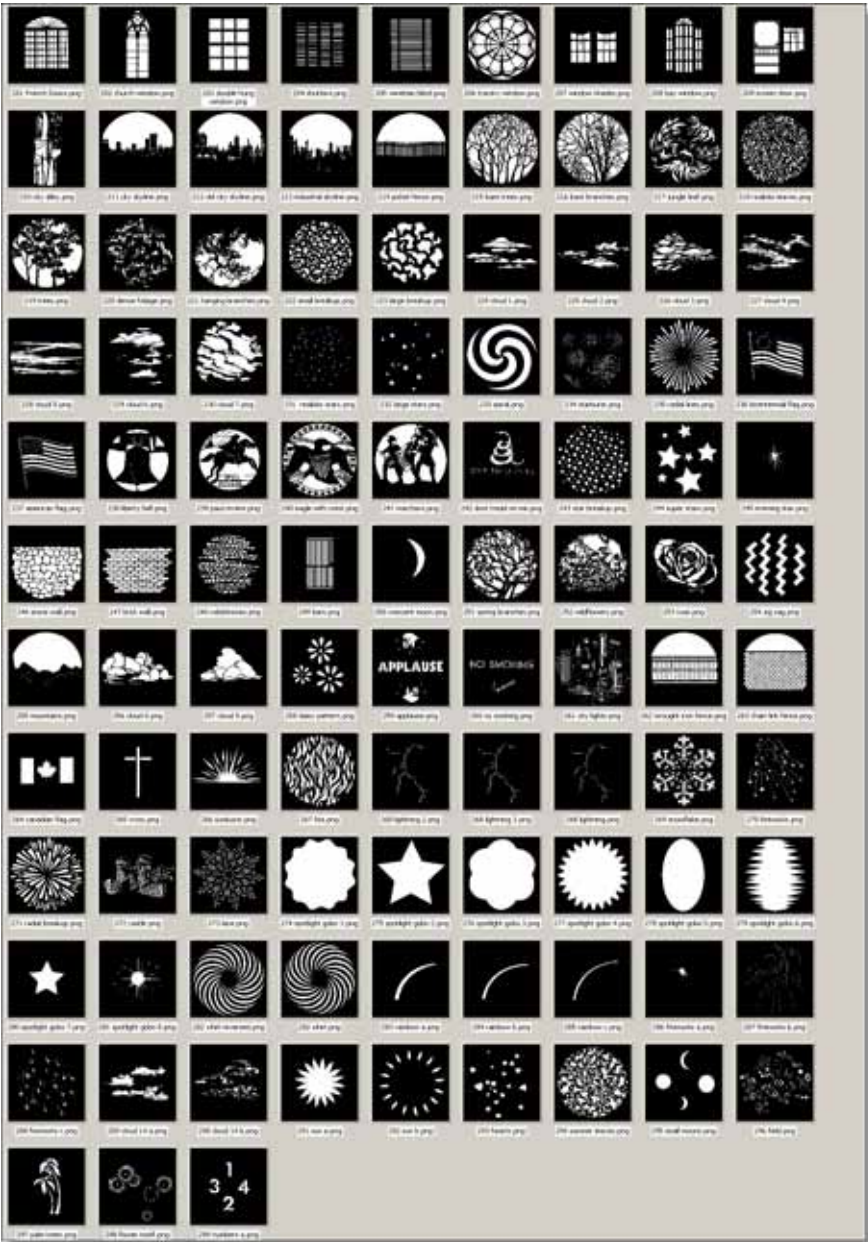




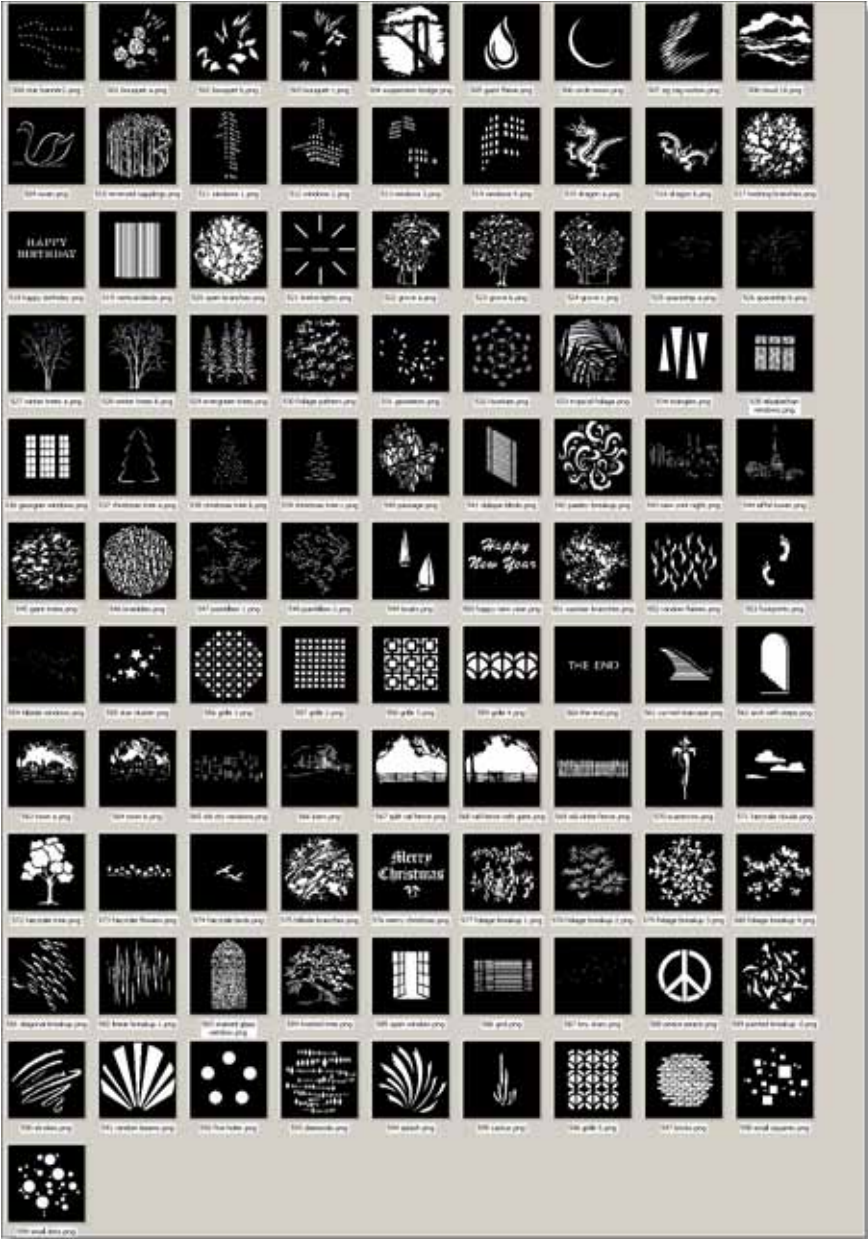


APPENDIX B - GAM PATTERN LIBRARY

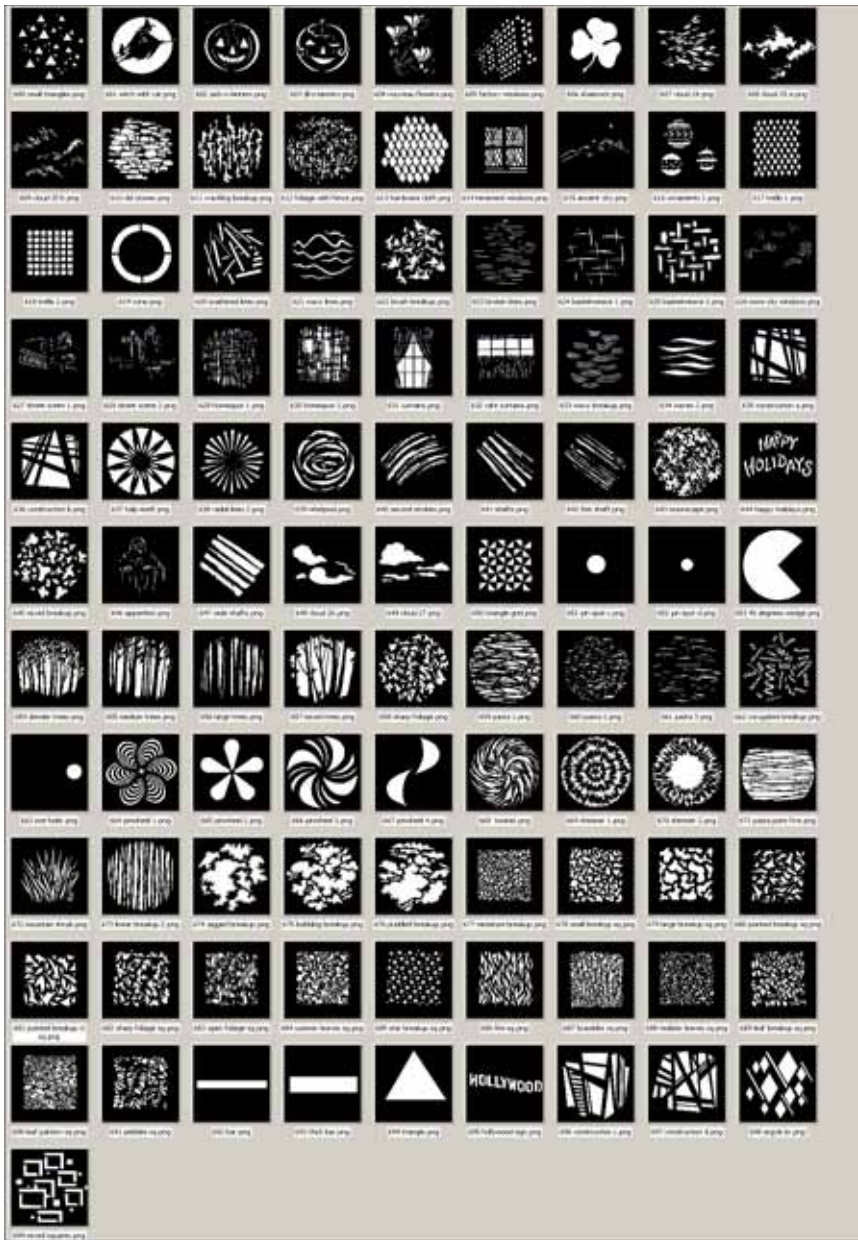
200 Series



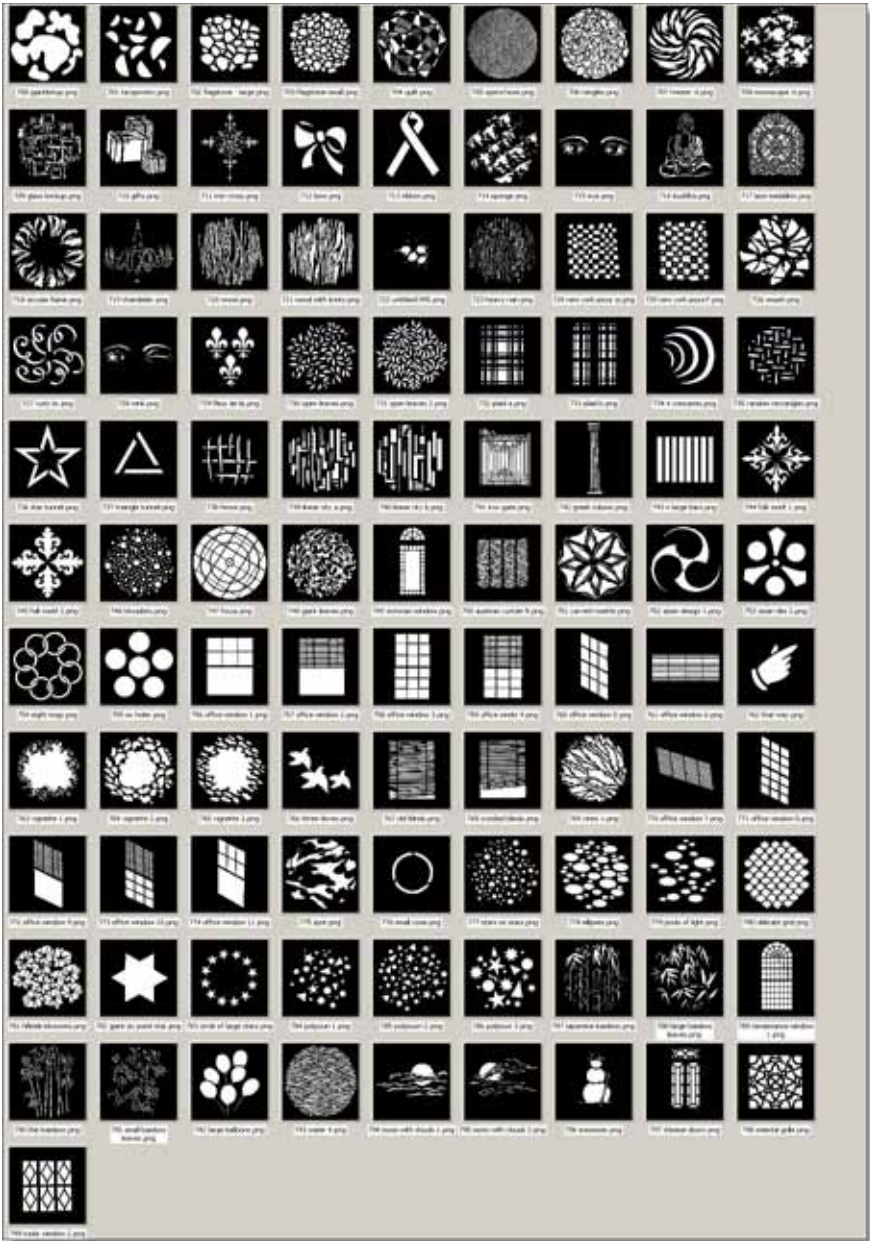
500 Series



600 Series



700 Series



-
-
-
-
-
-

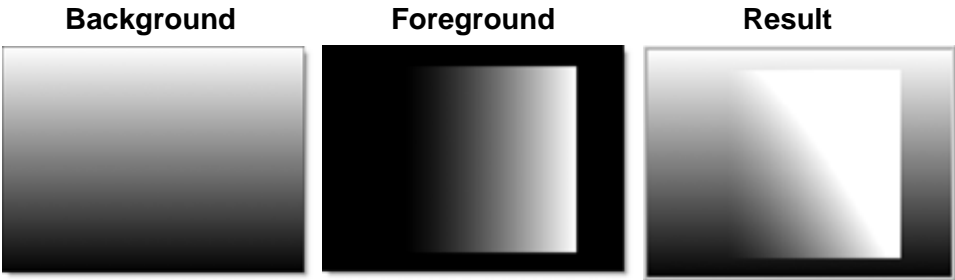


APPENDIX C - BLEND MODES

Blend modes are used to combine images in a variety of different ways.

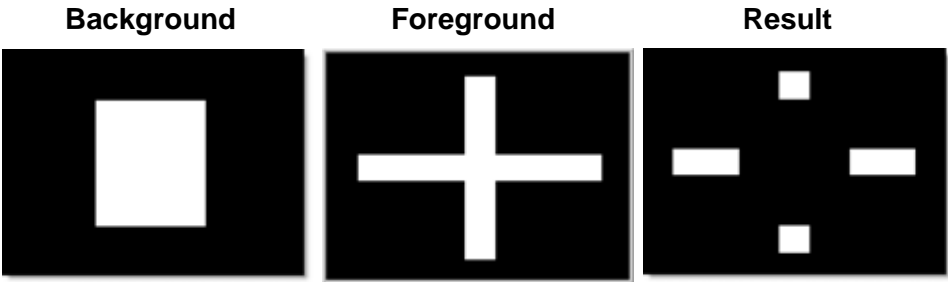
Add

The pixels of one image are added to another image.



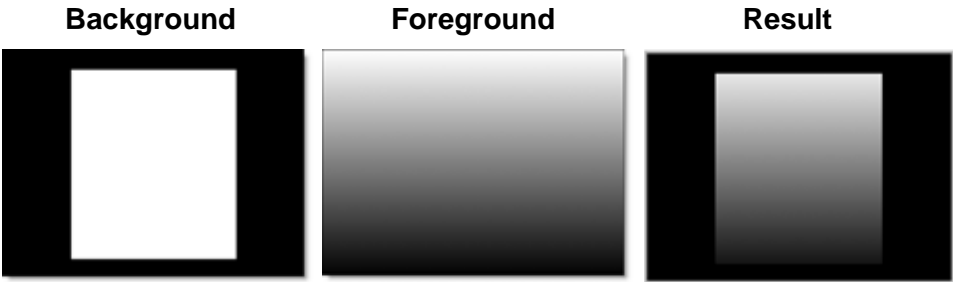
Subtract

The pixels of one image are subtracted from another image.



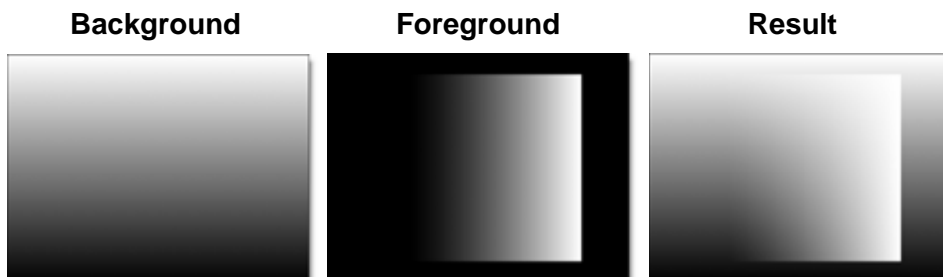
Multiply

Produces a result where there is a union of pixels from two images.



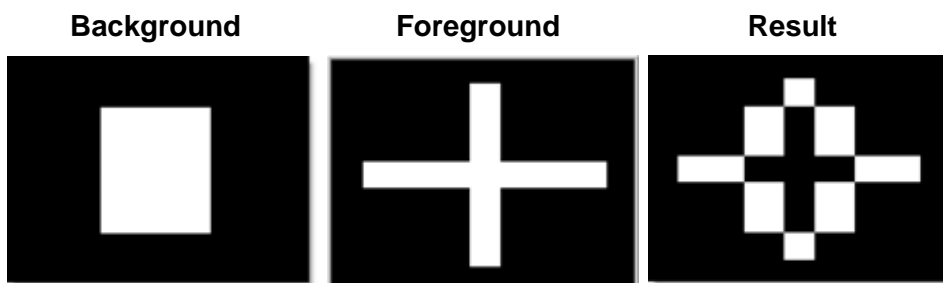
Screen

Looks at each images color information and multiplies the inverse of the two images. This looks kind of like the Add blend mode, but highlights are retained.



Difference

Produces a result where a value exists in each image, but not in both.



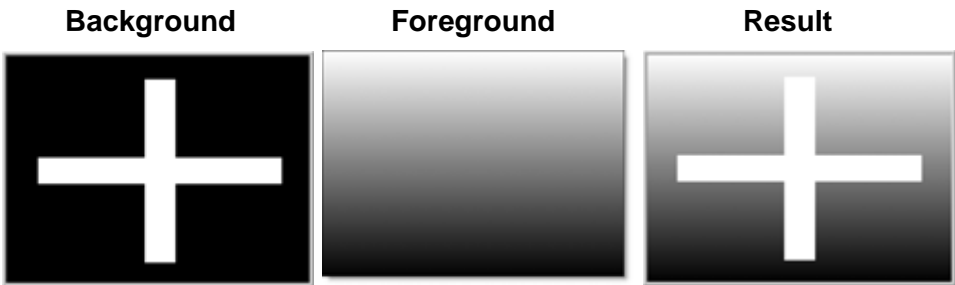
Darken

Compares two images and takes the pixels with the lower value.



Lighten

Compares two images and takes the pixels with the higher value.



APPENDIX D - COLOR GRAD FILTER PRESETS

Cranberry 1

Cranberry 2

Cranberry 3

Tangerine 1

Tangerine 2

Tangerine 3

Straw 1

Straw 2

Straw 3

Tobacco 1

Tobacco 2

Tobacco 3

Chocolate 1

Chocolate 2

Chocolate 3

Plum 1

Plum 2

Plum 3

Grape 1

Grape 2

Grape 3

Tropic Blue 1

Tropic Blue 2

Tropic Blue 3

Coral 1/8

Coral 1/4

Coral 1/2

Coral 1

Coral 2

Coral 3

Coral 4

Coral 5

Magenta 1

Magenta 2

Magenta 3

Magenta 4

Magenta 5

Pink 1

Pink 2

Pink 3

Pink 4

Pink 5

Red 1

Red 2

Red 3

Red 4

Red 5

Yellow 1

Yellow 2

Yellow 3

Yellow 4

Yellow 5

Green 1

Green 2

Green 3

Green 4

Green 5

Cyan 1

Cyan 2

Cyan 3

Cyan 4

Cyan 5

Cool Blue 1

Cool Blue 2

Cool Blue 3

Cool Blue 4

Cool Blue 5

Blue 1

Blue 2

Blue 3

Blue 4

Blue 5

APPENDIX E - COLOR TEMPERATURE PRESETS

Match Flame (1700K)

Candle Flame (1850K)

Hefner Lamp (1880K)

Harcourt Pentane Lamp (1920K)

Standard British Candle (1930K)

Sunlight-Sunrise or Sunset (2000K)

Incandescent Carbon-4 watts\candle (2080K)

High Pressure Sodium-Lucalox\Lumalux (2100K)

Incandescent Tungsten-1.25 watts\candle (2400K)

Acetylene Lamp (2415K)

40watt-general service (2650K)

Fluorescent-Incandescent (2700K)

75watt-general service (2820K)

100watt-general service (2900K)

Fluorescent-Deluxe Warm White (2950K)

Tungsten-Gas Filled Lamps:200-500W (2980K)

200watt-general service (2980K)

Tungsten-Gas Filled Lamps:1000W (2990K)

Fluorescent-Warm White (3050K)

Incandescent-Standard & Tungsten\Halogen (3200K)

CP Gas Filled (3350K)

Carbon Arc-225ABrute-Yellow Flame\YF 101 Filter (3350K)

Photoflood (3400K)

Fluorescent-White (3500K)

Mercury Vapor-Warm Deluxe (3500K)
Sunlight-One Hour After Sunrise (3500K)
Fluorescent-Natural White (3700K)
Metal Halide-Metalarc C (3800K)
Clear Aluminum Wire-Filled Flash (3800K)
Mercury Vapor-White Deluxe (4000K)
Crater of Carbon Arc (4000K)
Fluorescent-Deluxe Cool White (4100K)
Metal Halide Additive AC Arc-CSI (4200K)
Clear Zirconium Wire-Filled Flash (4200K)
Fluorescent-Cool White (4300K)
Sunlight-Early Morning\Late Afternoon (4300K)
Daylight Blue Photoflood (4800K)
Flashcube-Magicube or Flipflash (4950K)
White Flame Carbon Arc (5000K)
Carbon Arc-225ABrute-White Flame\Y-1 Filter (5100K)
Fluorescent-Design White (5200K)
Sunlight-mean noon (5400K)
Photographic Daylight (5500K)
High Intensity Carbon Arc-sun arc (5500K)
Metal Halide Additive AC Arc-HMI (5600K)
Metal Halide Additive AC Arc-CID (5600K)
Carbon Arc-225ABrute-White Flame\No Filter (5800K)
Sunlight-Midsummer (5800K)
Mercury Vapor-Clear Mercury (5900K)

Metal Halide-Multi Arc\Metal Vapor (5900K)

Xenon High Pressure DC Short Arc (6000K)

Overcast Sky (6000K)

Fluorescent-Daylight (6500K)

Average Summer Daylight (6500K)

Light Summer Shade (7100K)

Average Summer Shade (8000K)

Partly Cloudy Sky (8000K)

Summer Skylight (9500K)

Skylight (12000K)

APPENDIX F - PHOTOGRAPHIC FILTERS

PRESETS

1A Pale Pink
2A Pale Yellow
2B Pale Yellow
2E Pale Yellow
3 Light Yellow
8 Yellow
9 Deep Yellow
11 Yellowish-Green
12 Deep Yellow
15 Deep Yellow
16 Yellow-Orange
21 Orange
22 Deep Orange
23A Light Red
24 Red
25 Red Tricolor
26 Red
29 Deep Red Tricolor
32 Magenta
33 Magenta
34A Violet
38A Blue
39 Blue

44 Light Blue-Green
44A Light-Blue-Green
47 Blue Tricolor
47A Light Blue
47B Deep Blue Tricolor
58 Green Tricolor
61 Deep Green Tricolor
70 Dark Red
74 Dark Green Monochromat
80A Blue
80B Blue
80C Blue
80D Blue
81 Yellowish
81A Yellowish
81B Yellowish
81C Yellowish
81D Yellowish
81EF Yellowish
82 Bluish
82A Bluish
82B Bluish
82C Bluish
85 Amber
85B Amber

85C Amber

85N3 Amber

85N6 Amber

85N9 Amber

90 Dark Grayish Amber

92 Red

96 Neutral

98 Blue

99 Green

102 Yellow-Green

106 Amber

CC05R

CC10R

CC20R

CC30R

CC40R

CC50R

CC05B

CC10B

CC20B

CC30B

CC40B

CC50B

CC05G

CC10G

- CC20G
- CC30G
- CC40G
- CC50G
- CC05Y
- CC10Y
- CC20Y
- CC30Y
- CC40Y
- CC50Y
- CC05C
- CC10C
- CC20C
- CC30C
- CC40C
- CC50C
- CC05M
- CC10M
- CC20M
- CC30M
- CC40M
- CC50M

APPENDIX G - GEL PRESETS

Gam Color

- 101 Lavender Blue
- 103 Blue Rose
- 104 Broadway Rose
- 105 Antique Rose
- 105X 3/4 Antique Rose
- 106 1/2 Antique Rose
- 107 1/4 Antique Rose
- 108 1/8 Antique Rose
- 109 Naked Pink
- 110 Dark Rose
- 120 Bright Pink
- 130 Rose
- 135 Soft Pink
- 140 Dark Magenta
- 150 Pink Punch
- 152 Party Pink
- 154 Baby Pink
- 155 Light Pink
- 160 Chorus Pink
- 170 Dark Flesh Pink
- 180 Cherry
- 190 Cold Pink

195 Nymph Pink
220 Pink Magenta
235 Pink Red
245 Light Red
250 Medium Red XT
260 Rosey Amber
270 Red Orange
280 Fire Red
290 Fire Orange
305 French Rose
310 English Rose
315 Autumn Glory
320 Peach
323 Indian Summer
324 Dark Bastard Amber
325 Bastard Amber
327 Pale Sepia
328 Tan Tone
330 Sepia
335 Coral
338 Forever Amber
340 Light Bastard Amber
341 Cold Bastard Amber
342 Cantaloupe
343 Honey

345 Deep Amber
350 Dark Amber
355 Amber Flame
360 Amber Blush
363 Sand
364 Pale Honey
365 Warm Straw
370 Spice
375 Flame
380 Golden Tan
382 Brass
385 Light Amber
386 Apricot
388 Gold Rush
390 Walnut
395 Golden Sunset
410 Yellow Gold
420 Medium Amber
430 Warm Ivory
433 Double Ivory
435 Ivory
440 Very Light Straw
450 Saffron
455 Yellow Sun
460 Mellow Yellow

470 Pale Gold
475 Pale Yellow
480 Medium Yellow
510 No Color Straw
515 Lime Yellow
520 New Straw
525 Lime Sun
535 Lime
540 Pale Green
570 Light Green Yellow
650 Grass Green
655 Rich Green
660 Medium Green
670 Emerald Green
680 Kelly Green
685 Pistachio
690 Bluegrass
710 Blue Green
720 Light Steel Blue
725 Princess Blue
730 Azure Blue
740 Off Blue
750 Nile Blue
760 Aqua Blue
770 Christel Blue

780 Shark Blue
785 Beverly Blue
790 Electric Blue
810 Moon Blue
815 Moody Blue
820 Full Light Blue
830 North Sky Blue
835 Aztec Blue
840 Steel Blue
841 Diamond Blue
842 Whisper Blue
845 Cobalt
847 City Blue
848 Bonus Blue
850 Primary Blue
855 Blue Jazz
860 Sky Blue
870 Winter White
872 Opera White
880 Daylight Blue
882 Southern Sky
885 Blue Ice
888 Blue Bell
890 Dark Sky Blue
905 Dark Blue

- 910 Alice Blue
- 920 Twilight
- 925 Cosmic Blue
- 930 Real Congo Blue
- 940 Light Purple
- 945 Royal Purple
- 948 African Violet
- 950 Purple
- 960 Medium Lavender
- 970 Special Lavender
- 980 Surprise Pink
- 985 Ripe Plum
- 987 Wild Plum
- 990 Dark Lavender
- 995 Orchid

Gels

- L003 Lavender Tint
- L169 Lilac Tint
- L136 Pale Lavender
- L704 Lily
- L052 Light Lavender
- L170 Deep Lavender
- L345 Fuchsia Pink
- L048 Rose Purple
- L126 Mauve

L797 Deep Purple
L707 Ultimate Violet
L343 Special Medium Lavender
L180 Dark Lavender
L058 Lavender
L194 Surprise Pink
L344 Violet
L142 Pale Violet
L137 Special Lavender
L702 Special Pale Lavender
L053 Paler Lavender
L218 Eighth C.T.Blue
L203 Qtr C.T.B.
L061 Mist Blue
L202 Half C.T.Blue
L063 Pale Blue
L117 Steel Blue
L725 Old Steel Blue
L353 Lighter Blue
L140 Summer Blue
L172 Lagoon Blue
L724 Ocean Blue
L144 No Colour Blue
L118 Light Blue
L183 Moonlight Blue

L352 Glacier Blue
L174 Dark Steel Blue
L196 True Blue
L281 Three quarters C.T.B.
L201 Full C.T.B.
L161 Slate Blue
L165 Daylight Blue
L141 Bright Blue
L143 Pale Navy Blue
L366 Cornflower
L719 Colour Wash Blue
L200 Double C.T.Blue
L132 Medium Blue
L068 Sky Blue
L075 Evening Blue
L197 Alice Blue
L079 Just Blue
L721 Berry Blue
L715 Cabana Blue
L716 Mikkel Blue
L711 Cold Blue
L119 Dark Blue
L363 Special Medium Blue
L195 Zenith Blue
L120 Deep Blue

L085 Deeper Blue

L198 Palace Blue

L713 J.Winter Blue

L071 Tokyo Blue

L181 Congo Blue

L729 Scuba Blue

L116 Medium Blue-Green

L354 Special Steel Blue

L115 Peacock Blue

L131 Marine Blue

L241 Fluorescent 5700K

L728 Steel Green

L730 Liberty Green

L242 Fluorescent 4300K

L219 Fluorescent Green

L323 Jade

L322 Soft Green

L325 Mallard Green

L327 Forest Green

L735 Velvet Green

L090 Dark Yellow Green

L139 Primary Green

L089 Moss Green

L124 Dark Green

L243 Fluorescent 3600K

L122 Fern Green
L738 JAS Green
L121 Green
L088 Lime Green
L138 Pale Green
L244 Plus Green
L213 White Flame Green
L245 Half Plus Green
L246 Quarter Plus Green
L278 Eighth Plus Green
L230 Super Corr.L.C.T.Yellow
L156 Chocolate
L017 Surprise Peach
L746 Brown
L208 Full C.T.O. + .6ND
L207 Full C.T.O. + .3ND
L232 Super Correction W.F.Green to Tungsten
L285 3/4 CT Orange
L009 Pale Amber Gold
L205 Half C.T.Orange
L442 Half C.T. Straw
L013 Straw Tint
L103 Straw
L443 Qtr C.T. Straw
L206 Qtr C.T.O.

L223 Eighth C.T.O.
L444 Eighth C.T. Straw
L159 No Colour Straw
L226 U.V.
L763 Wheat
L212 L.C.T.Yellow
L007 Pale Yellow
L100 Spring Yellow
L010 Medium Yellow
L101 Yellow
L765 Yellow
L764 Sun Colour Straw
L102 Light Amber
L104 Deep Amber
L015 Deep Straw
L441 Full C.T. Straw
L204 Full C.T.Orange
L236 H.M.I. (to Tungsten)
L179 Chrome Orange
L020 Medium Amber
L776 Nectarine
L147 Apricot
L105 Orange
L779 Bastard Pink
L237 C.I.D. (to Tungsten)

L134 Golden Amber
L158 Deep Orange
L021 Gold Amber
L777 Rust
L778 Millennium Gold
L135 Deep Golden Amber
L022 Dark Amber
L025 Sunset Red
L166 Pale Red
L781 Terry Red
L019 Fire
L164 Flame Red
L024 Scarlet
L182 Light Red
L106 Primary Red
L026 Bright Red
L029 PLASA Red
L027 Medium Red
L789 Blood Red
L341 Plum
L127 Smokey Pink
L046 Dark Magenta
L113 Magenta
L148 Bright Rose
L332 Special Rose Pink

L793 Vanity Fair
L128 Bright Pink
L328 Follies Pink
L002 Rose Pink
L111 Dark Pink
L192 Flesh Pink
L036 Medium Pink
L110 Middle Rose
L039 Pink Carnation
L247 Minus Green
L035 Light Pink
L153 Pale Salmon
L248 Half Minus Green
L249 Quarter Minus Green
L279 Eighth Minus Green
L162 Bastard Amber
L152 Pale Gold
L154 Pale Rose
L151 Gold Tint
L004 Medium Bastard Amber
L108 English Rose
L790 Moroccan Pink
L176 Loving Amber
L109 Light Salmon
L107 Light Rose

L157 Pink

L193 Rosy Amber

L008 Dark Salmon

L238 C.S.I. (to Tungsten)

L298 0.15ND

L209 0.3ND

L210 0.6ND

L211 0.9ND

L299 1.2ND

Rosco

Rosco Cinegel

Rosco 3202 Full Blue CTB

Rosco 3203 3/4 Blue CTB

Rosco 3204 1/2 Blue CTB

Rosco 3206 1/3 Blue CTB

Rosco 3208 1/4 Blue CTB

Rosco 3216 1/8 Blue CTB

Rosco 3220 Double Blue CTB

Rosco 3407 Sun CTO

Rosco 3411 Sun 3/4 CTO

Rosco 3408 Sun 1/2 CTO

Rosco 3409 Sun 1/4 CTO

Rosco 3410 Sun 1/8 CTO

Rosco 3420 Double CTO

Rosco 3441 Full Straw CTS

Rosco 3442 1/2 Straw CTS

Rosco 3443 1/4 Straw CTS

Rosco 3444 1/8 Straw 1/8 CTS

Rosco 3415 N.15 (1/2 Stop)

Rosco 3402 N.3 (1 Stop)

Rosco 3403 N.6 (2 Stops)

Rosco 3404 N.9 (3 Stops)

Rosco 3401 Sun 85

Rosco 3405 Sun 85N.3

Rosco 3406 Sun 85N.6

Rosco 3304 Tough Plusgreen

Rosco 3315 Tough 1/2 Plusgreen

Rosco 3316 Tough 1/4 Plusgreen

Rosco 3317 Tough 1/8 Plusgreen

Rosco 3308 Tough Minusgreen

Rosco 3313 Tough 1/2 Minusgreen

Rosco 3314 Tough 1/4 Minusgreen

Rosco 3318 Tough 1/8 Minusgreen

Rosco 3310 Fluorofilter

Rosco 3114 Tough UV Filter

Rosco 3107 Tough Y-1

Rosco 3134 Tough MT 54

Rosco 3106 Tough MTY

Rosco 3102 Tough MT2

Rosco Cinelux

Rosco 01 Light Bastard Amber

Rosco 02 Bastard Amber

Rosco 03 Dark Bastard Amber

Rosco 04 Medium Bastard Amber

Rosco 304 Pale Apricot

Rosco 05 Rose Tint

Rosco 305 Rose Gold

Rosco 06 No Color Straw

Rosco 07 Pale Yellow

Rosco 08 Pale Gold

Rosco 09 Pale Amber Gold

Rosco 10 Medium Yellow

Rosco 11 Light Straw

Rosco 12 Straw

Rosco 312 Canary

Rosco 13 Straw Tint

Rosco 14 Medium Straw

Rosco 15 Deep Straw

Rosco 16 Light Amber

Rosco 17 Light Flame

Rosco 317 Apricot

Rosco 18 Flame

Rosco 318 Mayan Sun

Rosco 19 Fire

Rosco 20 Medium Amber
Rosco 21 Golden Amber
Rosco 321 Soft Golden Amber
Rosco 22 Deep Amber
Rosco 23 Orange
Rosco 24 Scarlet
Rosco 25 Orange Red
Rosco 26 Light Red
Rosco 27 Medium Red
Rosco 30 Light Salmon Pink
Rosco 31 Salmon Pink
Rosco 32 Medium Salmon Pink
Rosco 33 No Color Pink
Rosco 333 Blush Pink
Rosco 34 Flesh Pink
Rosco 35 Light Pink
Rosco 36 Medium Pink
Rosco 336 Billington Pink
Rosco 37 Pale Rose Pink
Rosco 337 True Pink
Rosco 38 Light Rose
Rosco 39 Exotic Sangria
Rosco 339 Broadway Pink
Rosco 40 Light Salmon
Rosco 41 Salmon

Rosco 42 Deep Salmon
Rosco 342 Rose Pink
Rosco 43 Deep Pink
Rosco 343 Neon Pink
Rosco 44 Middle Rose
Rosco 344 Follies Pink
Rosco 45 Rose
Rosco 46 Magenta
Rosco 346 Tropical Magenta
Rosco 47 Light Rose Purple
Rosco 48 Rose Purple
Rosco 49 Medium Purple
Rosco 50 Mauve
Rosco 51 Surprise Pink
Rosco 351 Lavender Mist
Rosco 52 Light Lavender
Rosco 53 Pale Lavender
Rosco 54 Special Lavender
Rosco 55 Lilac
Rosco 355 Pale Violet
Rosco 56 Gypsy Lavender
Rosco 356 Middle Lavender
Rosco 57 Lavender
Rosco 357 Royal Lavender
Rosco 58 Deep Lavender

Rosco 358 Rose Indigo
Rosco 59 Indigo
Rosco 359 Medium Light
Rosco 60 No Color Blue
Rosco 360 Clearwater
Rosco 61 Mist Blue
Rosco 62 Booster Blue
Rosco 63 Pale Blue
Rosco 363 Aquamarine
Rosco 64 Light Steel Blue
Rosco 65 Daylight Blue
Rosco 365 Tharon Delft Blue
Rosco 66 Cool Blue
Rosco 67 Light Sky Blue
Rosco 367 Slate Blue
Rosco 68 Sky Blue
Rosco 69 Brilliant Blue
Rosco 70 Nile Blue
Rosco 370 Italian Blue
Rosco 71 Sea Blue
Rosco 371 Theatre Booster 1
Rosco 72 Azure Blue
Rosco 372 Theatre Booster 2
Rosco 73 Peacock Blue
Rosco 373 Theatre Booster 3

Rosco 74 Night Blue

Rosco 76 Light Green Blue

Rosco 77 Green Blue

Rosco 78 Trudy Blue

Rosco 79 Bright Blue

Rosco 80 Primary Blue

Rosco 81 Urban Blue

Rosco 82 Surprise Blue

Rosco 382 Congo Blue

Rosco 83 Medium Blue

Rosco 383 Sapphire Blue

Rosco 84 Zephyr Blue

Rosco 85 Deep Blue

Rosco 385 Royal Blue

Rosco 86 Pea Green

Rosco 87 Pale Yellow Green

Rosco 88 Light Green

Rosco 388 Gaslight Green

Rosco 89 Moss Green

Rosco 389 Chroma Green

Rosco 90 Dark Yellow Green

Rosco 91 Primary Green

Rosco 92 Turquoise

Rosco 93 Blue Green

Rosco 94 Kelly Green

Rosco 95 Medium Blue Green

Rosco 395 Teal Green

Rosco 96 Lime

Rosco 97 Light Grey

Rosco 98 Medium Grey

Rosco 398 Neutral Grey

Rosco 99 Chocolate

Rosco Storaro Selection

Rosco 2001 VS Red

Rosco 2002 VS Orange

Rosco 2003VS Yellow

Rosco 2004 VS Green

Rosco 2005 VS Cyan

Rosco 2006 VS Azure

Rosco 2007 VS Blue

Rosco 2008 VS Indigo

Rosco 2009 VS Violet

Rosco 2010 VS Magenta

Rosco Calcolor

Rosco 4215 15 Blue

Rosco 4230 30 Blue

Rosco 4260 60 Blue

Rosco 4290 90 Blue

Rosco 4315 15 Cyan

Rosco 4330 30 Cyan

Rosco 4360 60 Cyan

Rosco 4390 90 Cyan
Rosco 4415 15 Green
Rosco 4430 30 Green
Rosco 4460 60 Green
Rosco 4490 90 Green
Rosco 4515 15 Yellow
Rosco 4530 30 Yellow
Rosco 4560 60 Yellow
Rosco 4590 90 Yellow
Rosco 4615 15 Red
Rosco 4630 30 Red
Rosco 4660 60 Red
Rosco 4690 90 Red
Rosco 4715 15 Magenta
Rosco 4730 30 Magenta
Rosco 4760 60 Magenta
Rosco 4790 90 Magenta
Rosco 4815 15 Pink
Rosco 4830 30 Pink
Rosco 4860 60 Pink
Rosco 4890 90 Pink
Rosco 4915 15 Lavender
Rosco 4930 30 Lavender
Rosco 4960 60 Lavender
Rosco 4990 90 Lavender