

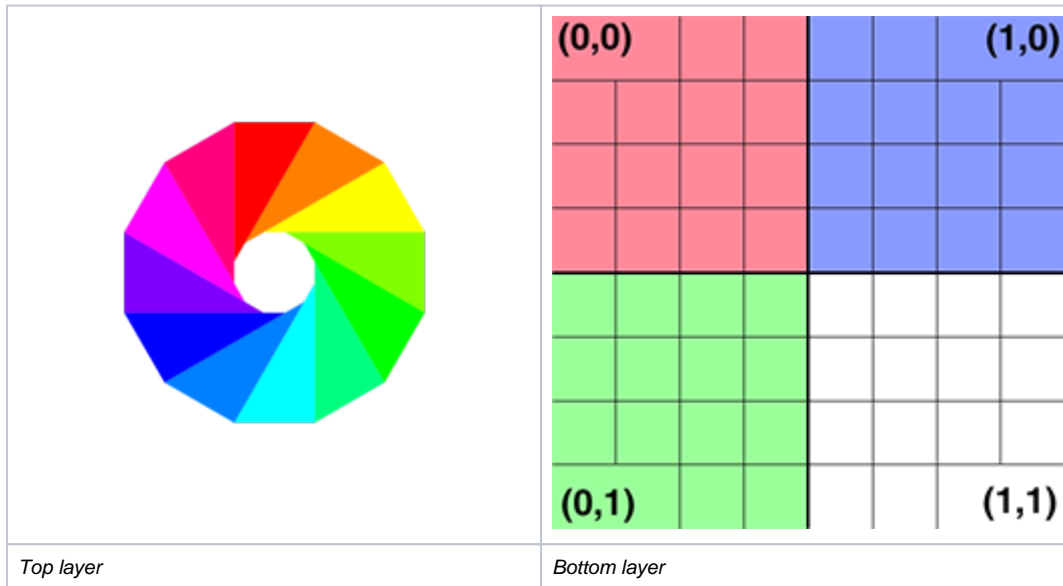
PxrBlend

Produces a color that is the result of blending a top image layer over a bottom image, using one of the standard Photoshop blend modes.

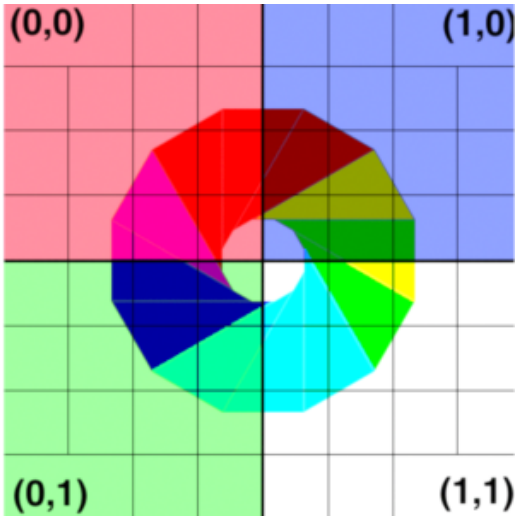
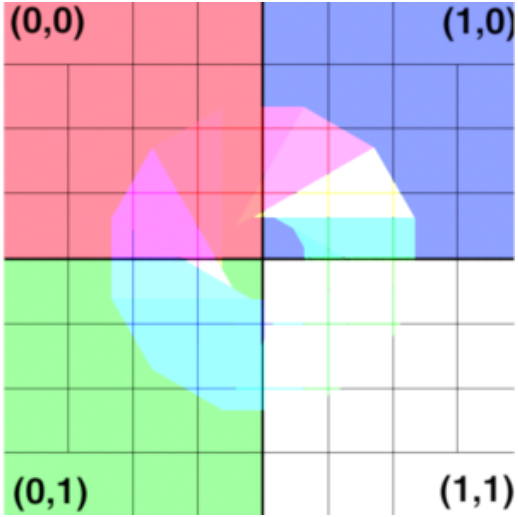
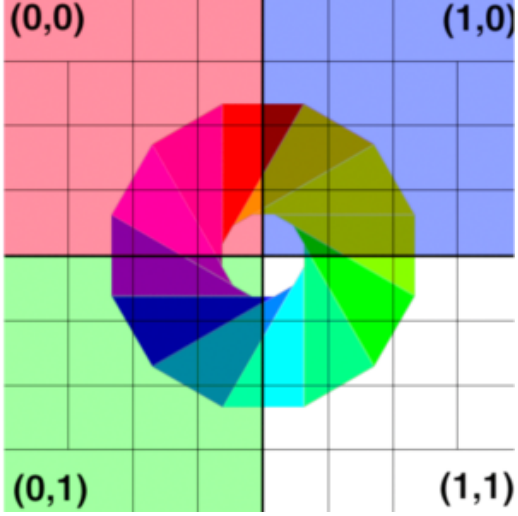
Input Parameters

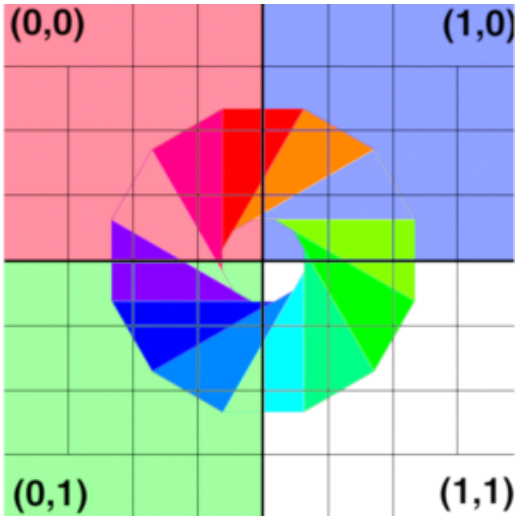
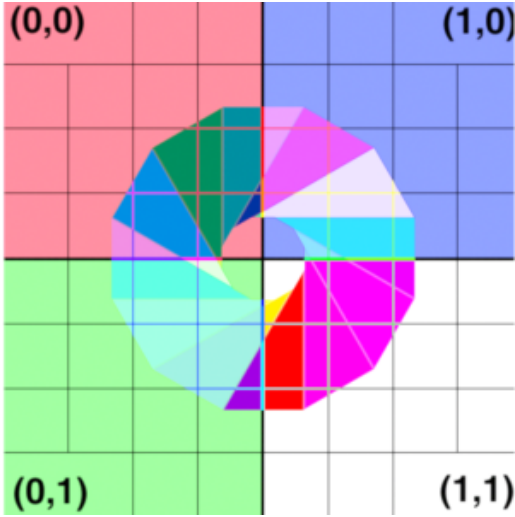
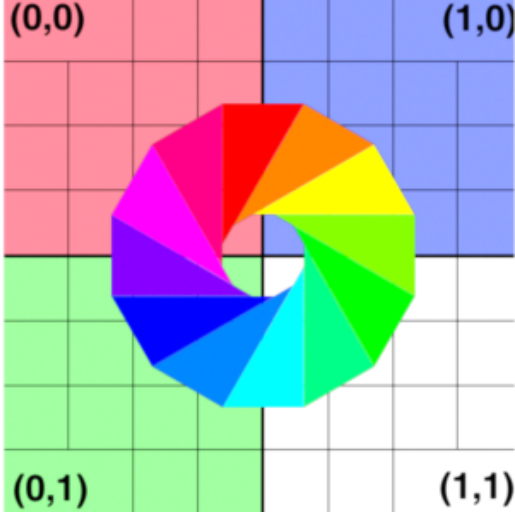
Operation

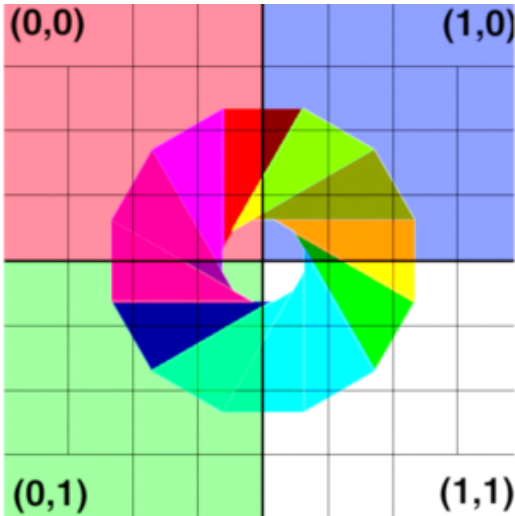
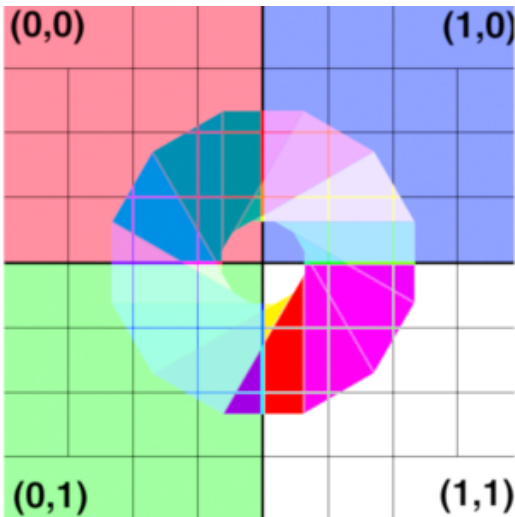
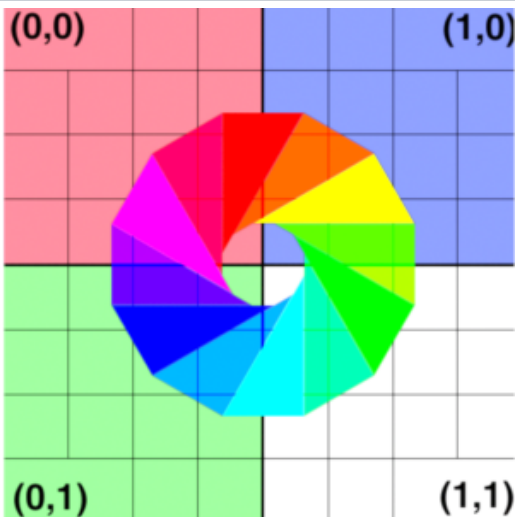
The blend mode used to blend the top and bottom layers. The following table describes each blend mode, and the example images in the table were created using the following top and bottom layers.



Value	Name	Description	Example
0	Color	Creates a result color with the luminance of the base color and the hue and saturation of the blend color. This preserves the gray levels in the image and is useful for coloring monochrome images and for tinting color images.	

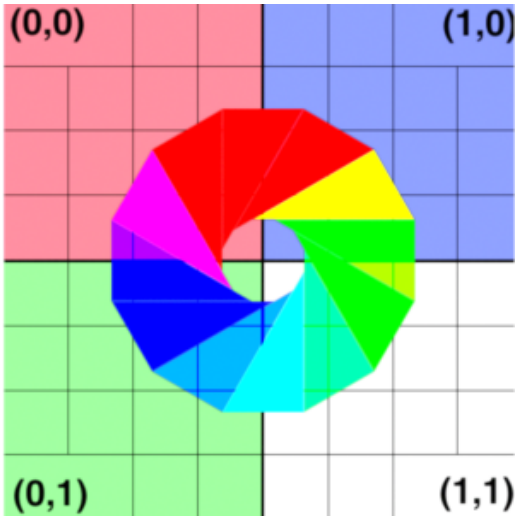
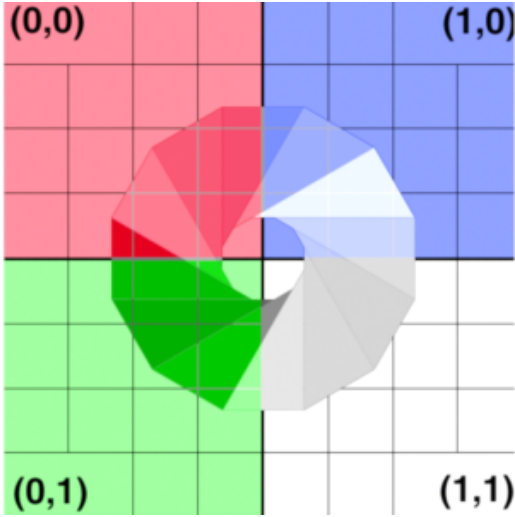
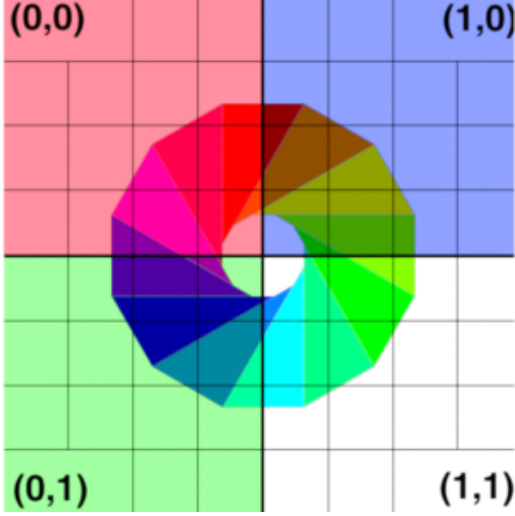
1	Color Burn	Looks at the color information in each channel and darkens the base color to reflect the blend color by increasing the contrast between the two. Blending with white produces no change.	
2	Color Dodge	Looks at the color information in each channel and brightens the base color to reflect the blend color by decreasing contrast between the two. Blending with black produces no change.	
3	Darken	Looks at the color information in each channel and selects the base or blend color—whichever is darker—as the result color. Pixels lighter than the blend color are replaced, and pixels darker than the blend color do not change.	

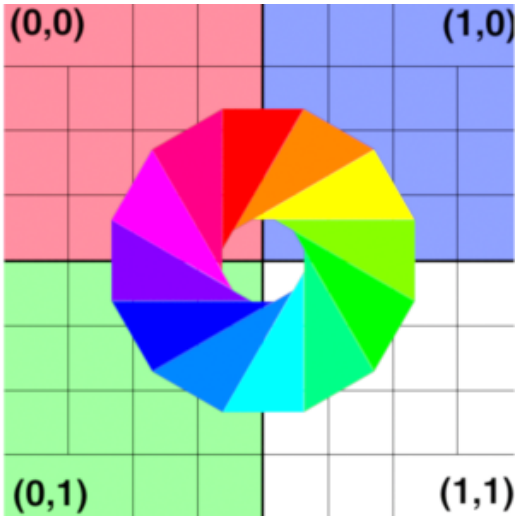
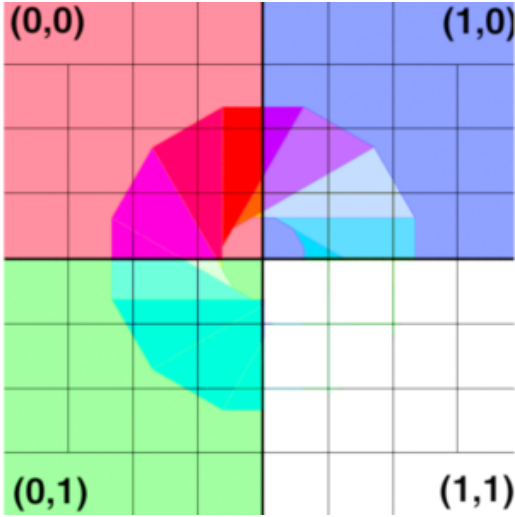
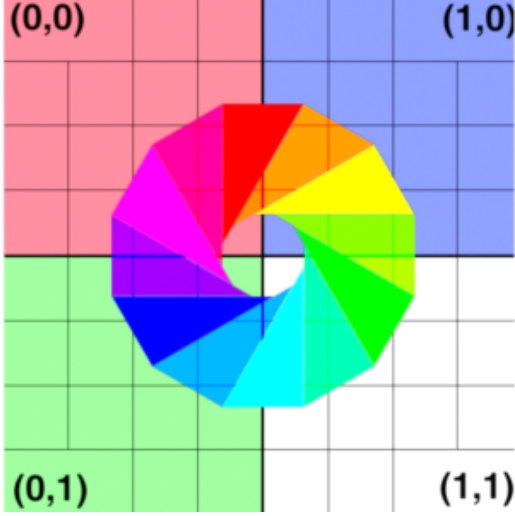
4	Darker Color	Compares the total of all channel values for the blend and base color and displays the lower value color. Darker Color does not produce a third color, which can result from the Darken blend, because it chooses the lowest channel values from both the base and the blend color to create the result color.	
5	Difference	Looks at the color information in each channel and subtracts either the blend color from the base color or the base color from the blend color, depending on which has the greater brightness value. Blending with white inverts the base color values; blending with black produces no change.	
6	Dissolve	The result color is a random replacement of the pixels with the base color or the blend color, depending on the opacity at any pixel location.	

7	Divide	Looks at the color information in each channel and divides the blend color from the base color.	
8	Exclusion	Creates an effect similar to but lower in contrast than the Difference mode. Blending with white inverts the base color values. Blending with black produces no change.	
9	Hard Light	Multiplies or screens the colors, depending on the blend color. The effect is similar to shining a harsh spotlight on the image. If the blend color (light source) is lighter than 50% gray, the image is lightened, as if it were screened. This is useful for adding highlights to an image. If the blend color is darker than 50% gray, the image is darkened, as if it were multiplied. This is useful for adding shadows to an image. Painting with pure black or white results in pure black or white.	

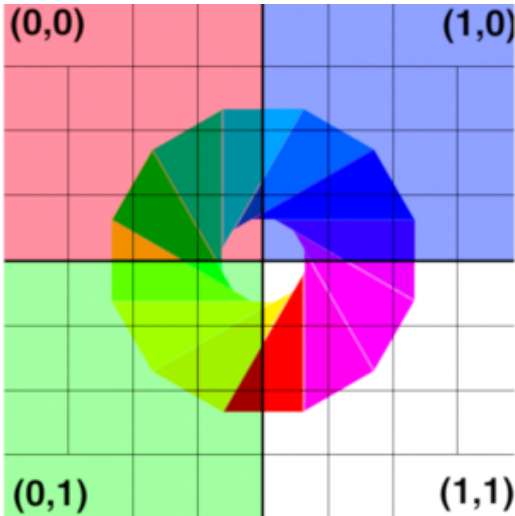
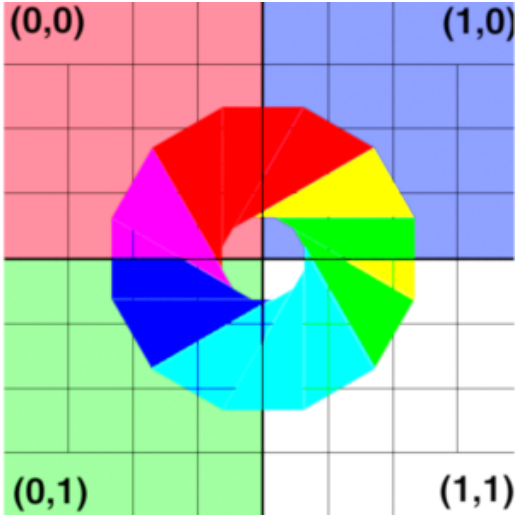
10	Hard Mix	Adds the red, green and blue channel values of the blend color to the RGB values of the base color. If the resulting sum for a channel is 1 or greater, it receives a value of 1; if less than 1, a value of 0. Therefore, all blended pixels have red, green, and blue channel values of either 0 or 1. This changes all pixels to primary additive colors (red, green, or blue), white, or black.	
11	Hue	Creates a result color with the luminance and saturation of the base color and the hue of the blend color.	
12	Lighten	Looks at the color information in each channel and selects the base or blend color—whichever is lighter—as the result color. Pixels darker than the blend color are replaced, and pixels lighter than the blend color do not change.	

13	Lighter Color	Compares the total of all channel values for the blend and base color and displays the higher value color. Lighter Color does not produce a third color, which can result from the Lighten blend, because it chooses the highest channel values from both the base and blend color to create the result color.	
14	Linear Burn	Looks at the color information in each channel and darkens the base color to reflect the blend color by decreasing the brightness. Blending with white produces no change.	
15	Linear Dodge	Looks at the color information in each channel and brightens the base color to reflect the blend color by increasing the brightness. Blending with black produces no change.	

16	Linear Light	Burns or dodges the colors by decreasing or increasing the brightness, depending on the blend color. If the blend color (light source) is lighter than 50% gray, the image is lightened by increasing the brightness. If the blend color is darker than 50% gray, the image is darkened by decreasing the brightness.	
17	Luminosity	Creates a result color with the hue and saturation of the base color and the luminance of the blend color. This mode creates the inverse effect of Color mode.	
18	Multiply	Looks at the color information in each channel and multiplies the base color by the blend color. The result color is always a darker color. Multiplying any color with black produces black. Multiplying any color with white leaves the color unchanged.	

19	Normal	Alpha compositing of the top layer over the bottom layer.	 <p>The diagram shows a 4x4 grid divided into four quadrants by a horizontal and vertical line. The quadrants are labeled: (0,0) top-left (red), (1,0) top-right (blue), (0,1) bottom-left (green), and (1,1) bottom-right (white). A circular color wheel with 12 segments is centered on the grid. The colors transition from red at the top, through orange, yellow, green, cyan, blue, and magenta, back to red. The wheel is positioned such that its center is at the intersection of the grid lines.</p>
20	Overlay	Multiplies or screens the colors, depending on the base color. Patterns or colors overlay the existing pixels while preserving the highlights and shadows of the base color. The base color is not replaced, but mixed with the blend color to reflect the lightness or darkness of the original color.	 <p>The diagram shows the same 4x4 grid and color wheel as in the Normal blend mode. However, the colors are blended with the background. In the red (0,0) and blue (1,0) quadrants, the colors are darker, appearing as dark red and dark blue. In the green (0,1) and white (1,1) quadrants, the colors are lighter, appearing as light green and light blue. The color wheel's segments are also blended, showing a more muted, darker palette.</p>
21	Pin Light	Replaces the colors, depending on the blend color. If the blend color (light source) is lighter than 50% gray, pixels darker than the blend color are replaced, and pixels lighter than the blend color do not change. If the blend color is darker than 50% gray, pixels lighter than the blend color are replaced, and pixels darker than the blend color do not change. This is useful for adding special effects to an image.	 <p>The diagram shows the same 4x4 grid and color wheel as in the Normal blend mode. The colors are replaced based on the blend color. In the red (0,0) and blue (1,0) quadrants, the colors are darker, appearing as dark red and dark blue. In the green (0,1) and white (1,1) quadrants, the colors are lighter, appearing as light green and light blue. The color wheel's segments are also replaced, showing a more muted, darker palette.</p>

22	Saturation	Creates a result color with the luminance and hue of the base color and the saturation of the blend color. Painting with this mode in an area with no (0) saturation (gray) causes no change.	
23	Screen	Looks at each channel's color information and multiplies the inverse of the blend and base colors. The result color is always a lighter color. Screening with black leaves the color unchanged. Screening with white produces white.	
24	Soft Light	Darkens or lightens the colors, depending on the blend color. The effect is similar to shining a diffused spotlight on the image. If the blend color (light source) is lighter than 50% gray, the image is lightened as if it were dodged. If the blend color is darker than 50% gray, the image is darkened as if it were burned in. Painting with pure black or white produces a distinctly darker or lighter area, but does not result in pure black or white.	

25	Subtract	Looks at the color information in each channel and subtracts the blend color from the base color.	 A color wheel diagram for the Subtract blend mode. The wheel is divided into 24 segments, each representing a different color. The segments are arranged in a circular pattern, with colors transitioning from red at the top to blue at the bottom. The wheel is overlaid on a 4x4 grid. The top-left quadrant is labeled (0,0) and is pink. The top-right quadrant is labeled (1,0) and is blue. The bottom-left quadrant is labeled (0,1) and is green. The bottom-right quadrant is labeled (1,1) and is white.
26	Vivid Light	Burns or dodges the colors by increasing or decreasing the contrast, depending on the blend color. If the blend color (light source) is lighter than 50% gray, the image is lightened by decreasing the contrast. If the blend color is darker than 50% gray, the image is darkened by increasing the contrast.	 A color wheel diagram for the Vivid Light blend mode. The wheel is divided into 24 segments, each representing a different color. The segments are arranged in a circular pattern, with colors transitioning from red at the top to blue at the bottom. The wheel is overlaid on a 4x4 grid. The top-left quadrant is labeled (0,0) and is pink. The top-right quadrant is labeled (1,0) and is blue. The bottom-left quadrant is labeled (0,1) and is green. The bottom-right quadrant is labeled (1,1) and is white.

Top Color

The RGB input for the top image layer.

Top Alpha

The alpha channel of the top image layer.

Bottom Color

The RGB input for the bottom image layer.

Bottom Alpha

The alpha channel of the bottom image layer.

Output Parameters

resultRGB

The color resulting from blending the top image layer over the bottom image.

resultR

The R channel from the resultRGB output.

resultG

The G channel from the resultRGB output.

resultB

The B channel from the resultRGB output.