

# Converting Colors

$Y_{xy}(100.0000, 0.3044, 0.4272)$

Have a look what the booklet for  
Yxy(100.0000, 0.3044, 0.4272)  
contains.

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# Color

**Yxy(84.8112, 0.3050, 0.4070)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B4FFBB
RGB	180, 255, 187
RGB Percent	71%, 100%, 73%
CMY	0.2939, 0.0000, 0.2668
CMYK	0.29, 0.00, 0.27, 0.00
HSL	126°, 100%, 85%
HSV	126°, 29%, 100%
XYZ	63.5563, 84.8112, 60.0138
YIQ	224.8230, -22.8720, -37.0480

# Conversions

## Conversions Part 2

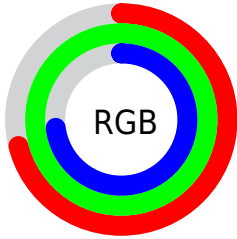
Format	Color
<a href="#">RYB</a>	<a href="#">180, 249, 255</a>
Decimal	<a href="#">11861947</a>
CIELab	<a href="#">93.80, -36.05, 25.33</a>
CIELCh	<a href="#">94, 44.063, 144.907</a>
Yxy	<a href="#">84.8112, 0.3050, 0.4070</a>
Android (android.graphics.Color)	<a href="#">4290052027 (0xFFB4FFBB)</a>
YUV	<a href="#">224.8230, -18.6467, -39.3098</a>
Hunter-Lab	<a href="#">92.0930, -37.9742, 25.8279</a>

# Details

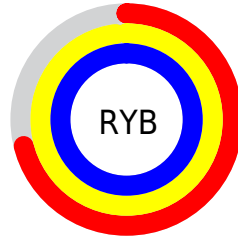
The Yxy color **84.8112, 0.3050, 0.4070** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **60.7023, 0.3214, 0.2618**, and the grayscale version is **75.3163, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.9956, 0.3085, 0.3409**, and **46.4416, 0.3024, 0.4271** is the 20% darker color. If you saturate the color by 10%, you get **81.1172, 0.3024, 0.4391**, and if you desaturate by 10%, it is **89.2351, 0.3077, 0.3775**.

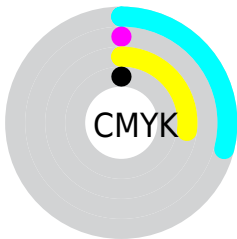
# Distribution



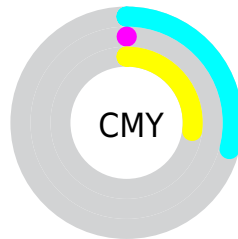
- Red (71%)
- Green (100%)
- Blue (73%)



- Red (71%)
- Yellow (98%)
- Blue (100%)



- Cyan (29%)
- Magenta (0%)
- Yellow (27%)
- Black (0%)




- Cyan (29%)
- Magenta (0%)
- Yellow (27%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 84.8112, 0.3050, 0.4070 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 84.8112, 0.3050, 0.4070 by changing the saturation by 10% instead.





 84.8112, 0.3050,  
0.4070

 84.8112, 0.3050,  
0.4070

511.0031, 0.3094,  
0.3701

 63.6854, 0.3038,  
0.4156


 140.1094, 0.3067,  
0.3941

 46.3959, 0.3022,  
0.4263


175.0505, 0.3073,  
0.3891

 32.5584, 0.2999,  
0.4399


215.3656, 0.3078,  
0.3848

 21.7883, 0.2968,  
0.4579

261.4389, 0.3082,  
0.3811

 13.7015, 0.2919,  
0.4826

313.6549, 0.3086,  
0.3778

 7.9133, 0.2838,  
0.5184


372.3981, 0.3089,


 4.0395, 0.2689,


0.3750


0.5741


438.0527, 0.3092,  
0.3724


 1.6957, 0.2523,  
0.7477


 0.4209, 0.0000,  
1.0000


 84.8112, 0.3050,  
0.4070


 84.8112, 0.3050,  
0.4070


 81.1172, 0.3024,  
0.4391

 89.2351, 0.3077,  
0.3775

 78.1038, 0.3002,  
0.4727

 94.4139, 0.3103,  
0.3510

 75.7325, 0.2984,  
0.5061

 99.9998, 0.3127,  
0.3290

 73.9565, 0.2973,  
0.5371

■ 72.7224, 0.2971,  
0.5633

■ 71.9676, 0.2976,  
0.5828

■ 71.5997, 0.2986,  
0.5947

■ 71.5839, 0.2987,  
0.5952

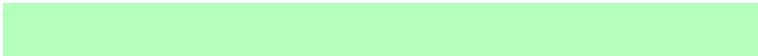
# Harmonies

## Analogous

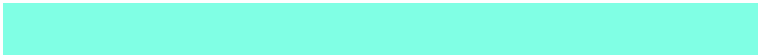
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



84.8112, 0.3546, 0.4206



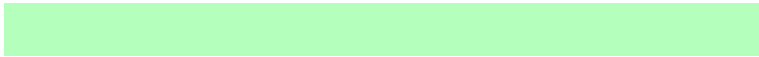
84.8112, 0.3050, 0.4070



84.8112, 0.2598, 0.3660

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



84.8112, 0.3050, 0.4070



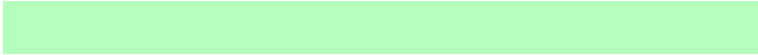
84.8112, 0.2340, 0.2524



84.8112, 0.4026, 0.3321

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



84.8112, 0.3050, 0.4070



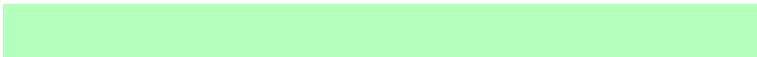
60.7023, 0.3214, 0.2618

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



84.8112, 0.3650, 0.2943



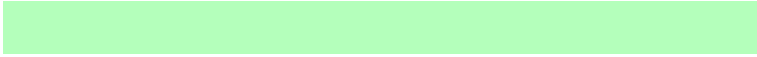
84.8112, 0.3050, 0.4070



84.8112, 0.2666, 0.2499

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



84.8112, 0.3050, 0.4070



84.8112, 0.2212, 0.2745



84.8112, 0.3141, 0.2651

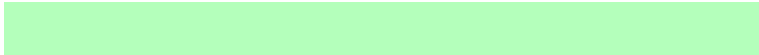


84.8112, 0.4133, 0.3719



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



84.8112, 0.3050, 0.4070



84.8112, 0.2378, 0.3319



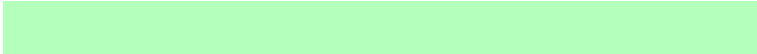
84.8112, 0.3141, 0.2651



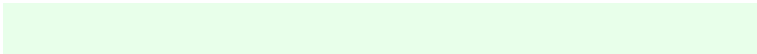
84.8112, 0.3925, 0.3189

# Sweetspot

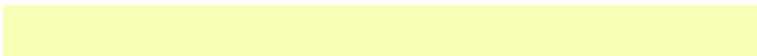
The Sweet Spot groups the original color and five complimentary colors.



84.8148, 0.3050, 0.4070



94.6344, 0.3104, 0.3500



94.9113, 0.3530, 0.4038



20.0830, 0.3100, 0.3536



0.0000, 0.0000, 0.0000

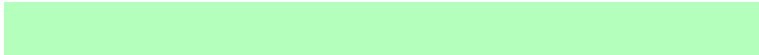


21.4041, 0.3127, 0.3290

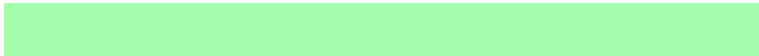


# Same Dimension

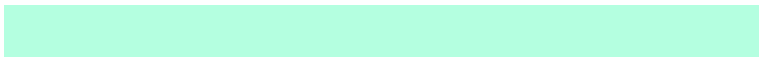
The Same Dimension uses a secret algorithm to generate beautiful new colors.



84.8148, 0.3050, 0.4070



82.6557, 0.3035, 0.4247



86.5976, 0.2857, 0.3637



20.1954, 0.3103, 0.3513



37.4133, 0.2983, 0.5939



3.6516, 0.2949, 0.5815



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



60.7023, 0.3214, 0.2618



55.1421, 0.3233, 0.2491



58.6372, 0.3513, 0.2969



18.2697, 0.3152, 0.3077



14.1488, 0.3457, 0.1678

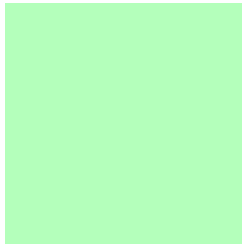


1.3857, 0.3425, 0.1660



# Previews

## White Background



This preview shows how the Yxy color 84.8112, 0.3050, 0.4070 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 84.8112, 0.3050, 0.4070 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

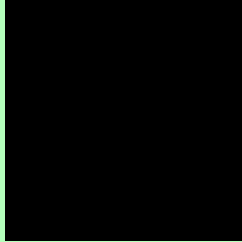
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

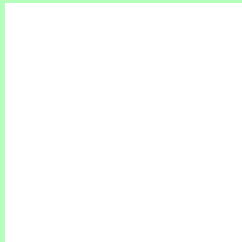
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 84.8112, 0.3050, 0.4070**

## **Background**



This preview shows how black text looks on a background with the Yxy color 84.8112, 0.3050, 0.4070.

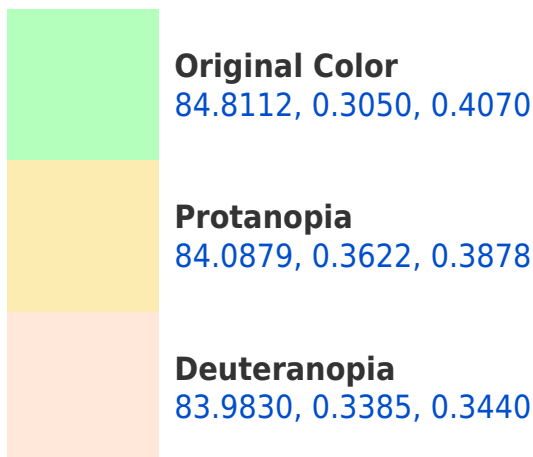


This preview shows how white text looks on a background with the Yxy color 84.8112, 0.3050, 0.4070.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy





## Tritanopia

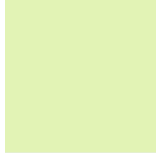
84.4259, 0.2853, 0.3154

# Trichromacy



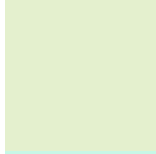
## Original Color

84.8112, 0.3050, 0.4070



## Protanomaly

83.6061, 0.3394, 0.3954



## Deuteranomaly

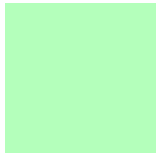
83.2704, 0.3257, 0.3650



## Tritanomaly

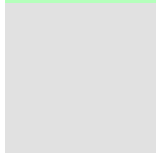
84.3768, 0.2927, 0.3474

# Monochromacy



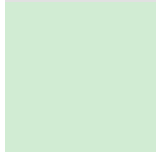
## Original Color

84.8112, 0.3050, 0.4070



## Achromatopsia

75.2942, 0.3127, 0.3290



## Achromatomaly

78.2494, 0.3101, 0.3566

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 84.8112, 0.3050, 0.4070 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(180, 255, 187)` looks like.

```
.text, #text, p{  
    color:rgb(180, 255, 187)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(180, 255, 187) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 255, 187) }
```

## Border

The CSS property to change the border of an element to Yxy 84.8112, 0.3050, 0.4070 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(180, 255, 187) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(180, 255, 187) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(180, 255, 187)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 255, 187); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 255, 187);  
box-shadow:4px 4px 4px 4px rgb(180, 255,  
187) }
```



# Background

The CSS property to change the background color of an element to Yxy 84.8112, 0.3050, 0.4070 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 255, 187) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(180,  
255, 187) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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