

# Converting Colors

$Y_{xy}(100.0000, 0.3002, 0.4013)$

Have a look what the booklet for  
Yxy(100.0000, 0.3002, 0.4013)  
contains.

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# Color

**Yxy(86.9721, 0.3001, 0.3824)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BEFFCF
RGB	190, 255, 207
RGB Percent	75%, 100%, 81%
CMY	0.2549, 0.0000, 0.1883
CMYK	0.25, 0.00, 0.19, 0.00
HSL	136°, 100%, 87%
HSV	136°, 25%, 100%
XYZ	68.2540, 86.9721, 72.2114
YIQ	230.0930, -23.3320, -28.7080

# Conversions

## Conversions Part 2

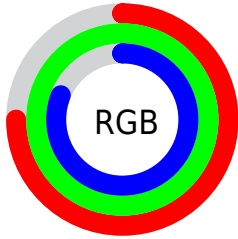
<b>Format</b>	<b>Color</b>
<b>RYB</b>	190, 242, 255
Decimal	12517327
CIELab	94.73, -29.52, 16.49
CIELCh	95, 33.817, 150.806
Yxy	86.9721, 0.3001, 0.3824
Android (android.graphics.Color)	4290707407 (0xFFBEFFCF)
YUV	230.0930, -11.3848, -35.1616
Hunter-Lab	93.2588, -32.5629, 19.3722

# Details

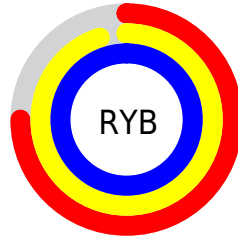
The Yxy color **86.9721, 0.3001, 0.3824** is a light color, and the websafe version is hex **CCFFCC**. A complement of this color would be **64.2559, 0.3283, 0.2810**, and the grayscale version is **79.2976, 0.3127, 0.3290**.

A 20% lighter version of the original color is **98.5142, 0.3078, 0.3290**, and **47.8390, 0.2964, 0.3945** is the 20% darker color. If you saturate the color by 10%, you get **83.1022, 0.2956, 0.4076**, and if you desaturate by 10%, it is **91.5225, 0.3050, 0.3595**.

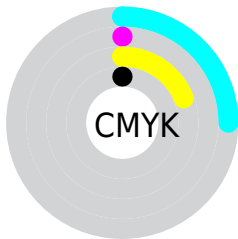
# Distribution



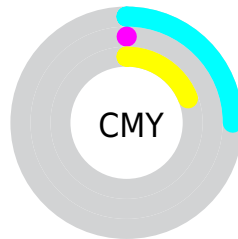
- Red (75%)
- Green (100%)
- Blue (81%)



- Red (75%)
- Yellow (95%)
- Blue (100%)



- Cyan (25%)
- Magenta (0%)
- Yellow (19%)
- Black (0%)




- Cyan (25%)
- Magenta (0%)
- Yellow (19%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 86.9721, 0.3001, 0.3824 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 86.9721, 0.3001, 0.3824 by changing the saturation by 10% instead.




 86.9721, 0.3001,  
0.3824

 86.9721, 0.3001,  
0.3824


518.1312, 0.3062,  
0.3575

 65.4721, 0.2986,  
0.3881


 143.1253, 0.3023,  
0.3737

 47.8440, 0.2968,  
0.3952


178.5472, 0.3031,  
0.3704

 33.7034, 0.2944,  
0.4042


219.3786, 0.3038,  
0.3675

 22.6658, 0.2912,  
0.4159

266.0039, 0.3044,  
0.3650

 14.3469, 0.2868,  
0.4320

318.8074, 0.3050,  
0.3628

 8.3624, 0.2800,  
0.4552

378.1735, 0.3054,

 4.3277, 0.2689,

0.3608

0.4915

444.4866, 0.3058,  
0.3591

■ 1.8585, 0.2505,  
0.5616

■ 0.5232, 0.0000,  
1.0000

■ 86.9721, 0.3001,  
0.3824

■ 86.9721, 0.3001,  
0.3824

■ 83.1022, 0.2956,  
0.4076

■ 91.5225, 0.3050,  
0.3595

■ 79.8847, 0.2917,  
0.4347

■ 96.7904, 0.3100,  
0.3392

■ 77.2810, 0.2887,  
0.4630

■ 100.0000, 0.3127,  
0.3290

■ 75.2507, 0.2869,  
0.4915

■ 73.7483, 0.2866,  
0.5188

■ 72.7211, 0.2879,  
0.5433

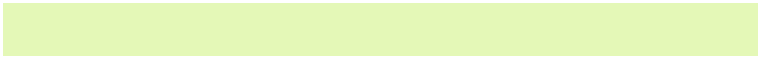
■ 72.1047, 0.2906,  
0.5636

■ 71.9213, 0.2920,  
0.5713

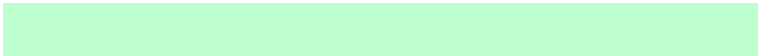
# Harmonies

## Analogous

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



86.9721, 0.3383, 0.3977



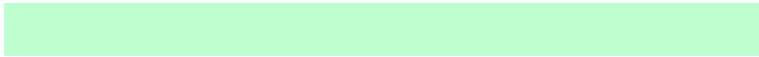
86.9721, 0.3001, 0.3824



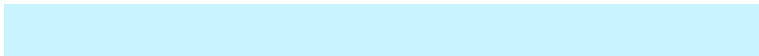
86.9721, 0.2666, 0.3497

# Triad

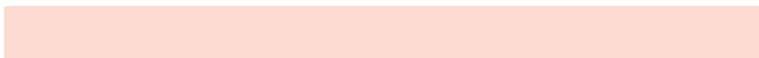
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



86.9721, 0.3001, 0.3824



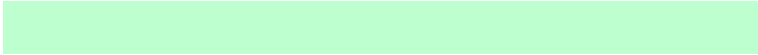
86.9721, 0.2556, 0.2682



86.9721, 0.3842, 0.3386

# Complementary

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



86.9721, 0.3001, 0.3824



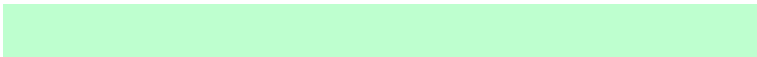
64.2559, 0.3283, 0.2810

# 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.



86.9721, 0.3594, 0.3079



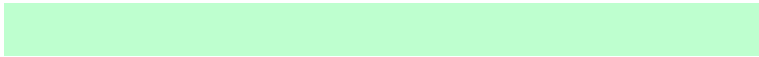
86.9721, 0.3001, 0.3824



86.9721, 0.2841, 0.2686

# Square

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



86.9721, 0.3001, 0.3824



86.9721, 0.2422, 0.2832



86.9721, 0.3220, 0.2830

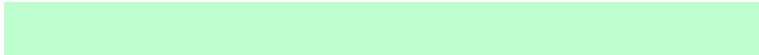


86.9721, 0.3883, 0.3690



# Rectangle

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



86.9721, 0.3001, 0.3824



86.9721, 0.2511, 0.3245



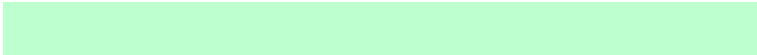
86.9721, 0.3220, 0.2830



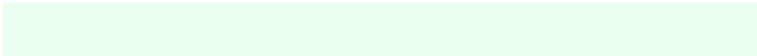
86.9721, 0.3780, 0.3281

# Sweetspot

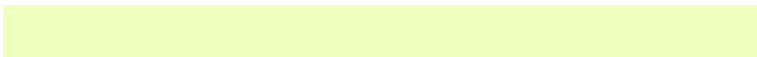
The Sweet Spot groups the original color and five complimentary colors.



86.9702, 0.3001, 0.3824



95.4015, 0.3087, 0.3440



93.5441, 0.3405, 0.3953



20.2461, 0.3080, 0.3470



0.0000, 0.0000, 0.0000

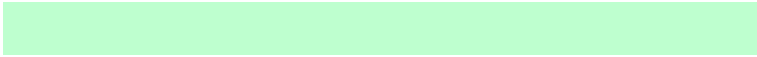


21.4041, 0.3127, 0.3290

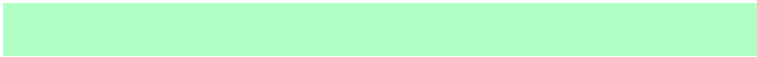


# Same Dimension

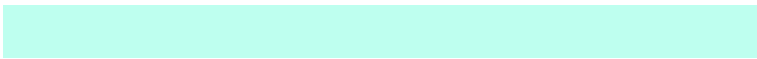
The Same Dimension uses a secret algorithm to generate beautiful new colors.



86.9702, 0.3001, 0.3824



84.7580, 0.2975, 0.3960



88.6830, 0.2834, 0.3464



20.2461, 0.3080, 0.3470



37.6010, 0.2913, 0.5687



3.6781, 0.2853, 0.5472



# Inverse Universe

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



64.2559, 0.3283, 0.2810



58.2507, 0.3326, 0.2703



62.5507, 0.3536, 0.3123



18.2145, 0.3178, 0.3116



13.0393, 0.4006, 0.1981

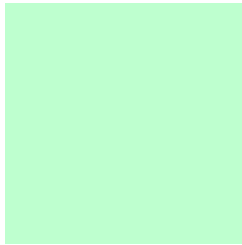


1.2875, 0.3894, 0.1919



# Previews

## White Background



This preview shows how the Yxy color 86.9721, 0.3001, 0.3824 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

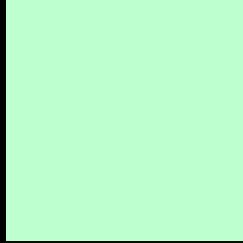
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 86.9721, 0.3001, 0.3824 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

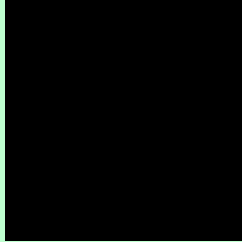
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 86.9721, 0.3001, 0.3824**

## **Background**



This preview shows how black text looks on a background with the Yxy color 86.9721, 0.3001, 0.3824.

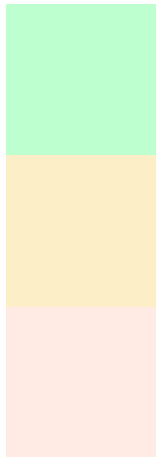


This preview shows how white text looks on a background with the Yxy color 86.9721, 0.3001, 0.3824.

# 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



### Original Color

86.9721, 0.3001, 0.3824

### Protanopia

85.9680, 0.3472, 0.3684

### Deuteranopia

86.2227, 0.3315, 0.3370



## Tritanopia

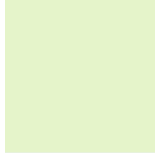
86.3813, 0.2907, 0.3167

# Trichromacy



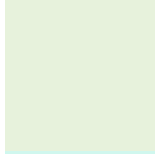
## Original Color

86.9721, 0.3001, 0.3824



## Protanomaly

85.6236, 0.3284, 0.3733



## Deuteranomaly

85.6605, 0.3189, 0.3519



## Tritanomaly

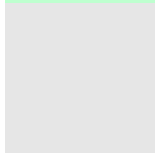
86.1045, 0.2937, 0.3385

# Monochromacy



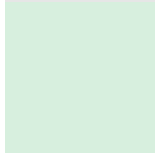
## Original Color

86.9721, 0.3001, 0.3824



## Achromatopsia

79.1298, 0.3127, 0.3290



## Achromatomaly

81.4540, 0.3073, 0.3473

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 86.9721, 0.3001, 0.3824 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(190, 255, 207)` looks like.

```
.text, #text, p{  
    color:rgb(190, 255, 207)  
}
```

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(190, 255, 207) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(190, 255, 207) }
```

## Border

The CSS property to change the border of an element to Yxy 86.9721, 0.3001, 0.3824 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(190, 255, 207) }
```

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

```
.border{ border-color:rgb(190, 255, 207) }
```

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

Here you see how a box with a 4 pixel `rgb(190, 255, 207)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(190, 255, 207); -webkit-box-  
shadow:4px 4px 4px 4px rgb(190, 255, 207);  
box-shadow:4px 4px 4px 4px rgb(190, 255,  
207) }
```



# Background

The CSS property to change the background color of an element to Yxy 86.9721, 0.3001, 0.3824 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(190, 255, 207) }
```

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

```
.background{ background-color: rgb(190,  
255, 207) }
```

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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