

# Converting Colors

$Y_{xy}(90.0330, 0.2957, 0.3519)$

Have a look what the booklet for  
Yxy(90.0330, 0.2957, 0.3519)  
contains.

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# Color

**Yxy(89.8886, 0.2954, 0.3512)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CEFEE9
RGB	206, 254, 233
RGB Percent	81%, 100%, 91%
CMY	0.1921, 0.0039, 0.0863
CMYK	0.19, 0.00, 0.08, 0.00
HSL	154°, 96%, 90%
HSV	154°, 19%, 100%
XYZ	75.6068, 89.8886, 90.4517
YIQ	237.2540, -21.8670, -16.7070

# Conversions

## Conversions Part 2

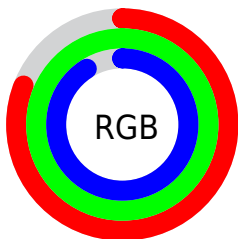
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	206, 237, 254
Decimal	13565673
CIE <sub>Lab</sub>	95.95, -19.26, 5.01
CIE <sub>LCh</sub>	96, 19.905, 165.429
Yxy	89.8886, 0.2954, 0.3512
Android (android.graphics.Color)	4291755753 (0xFFCFEE9)
YUV	237.2540, -2.0972, -27.4098
Hunter-Lab	94.8096, -23.5704, 9.8020

# Details

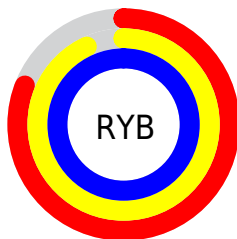
The Yxy color **89.8886, 0.2954, 0.3512** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **70.7717, 0.3341, 0.3078**, and the grayscale version is **84.9279, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **49.6861, 0.2917, 0.3564** is the 20% darker color. If you saturate the color by 10%, you get **85.9298, 0.2869, 0.3648**, and if you desaturate by 10%, it is **94.4824, 0.3044, 0.3389**.

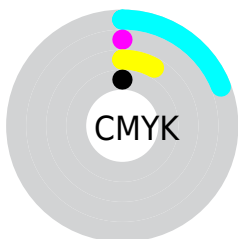
# Distribution



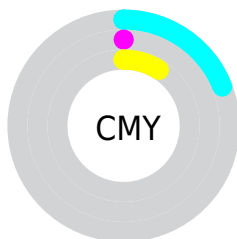
- Red (81%)
- Green (100%)
- Blue (91%)



- Red (81%)
- Yellow (93%)
- Blue (100%)



- Cyan (19%)
- Magenta (0%)
- Yellow (8%)
- Black (0%)




- Cyan (19%)
- Magenta (0%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 89.8886, 0.2954, 0.3512 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 89.8886, 0.2954, 0.3512 by changing the saturation by 10% instead.




 89.8886, 0.2954,  
0.3512

 89.8886, 0.2954,  
0.3512


527.6684, 0.3032,  
0.3411

 67.8883, 0.2937,  
0.3534

147.1836, 0.2981,  
0.3478

 49.8068, 0.2916,  
0.3562


183.2471, 0.2991,  
0.3464

 35.2599, 0.2889,  
0.3597


224.7671, 0.3000,  
0.3452

 23.8632, 0.2855,  
0.3641

272.1280, 0.3008,  
0.3442

 15.2322, 0.2810,  
0.3701

325.7142, 0.3015,  
0.3433

 8.9825, 0.2747,  
0.3785

385.9100, 0.3021,

 4.7298, 0.2652,

0.3425

0.3913

453.1000, 0.3027,  
0.3418

■ 2.0896, 0.2496,  
0.4127

■ 0.6588, 0.1319,  
0.5574

■ 89.8886, 0.2954,  
0.3512

■ 89.8886, 0.2954,  
0.3512

■ 85.9298, 0.2869,  
0.3648

■ 94.4824, 0.3044,  
0.3389

■ 82.5659, 0.2792,  
0.3796

99.3645, 0.3128,  
0.3281

■ 79.7693, 0.2727,  
0.3955

■ 77.5059, 0.2677,  
0.4122

■ 75.7378, 0.2645,  
0.4295

■ 74.4216, 0.2633,  
0.4469

■ 73.5062, 0.2642,  
0.4640

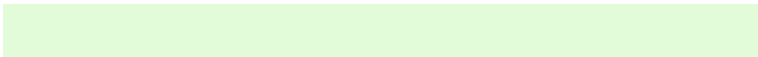
■ 72.9174, 0.2669,  
0.4804

■ 72.8616, 0.2673,  
0.4822

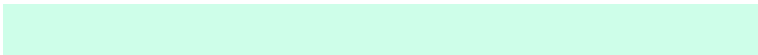
# Harmonies

## Analogous

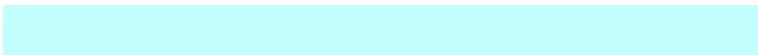
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



89.8886, 0.3174, 0.3652



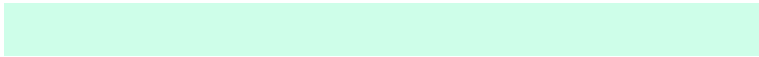
89.8886, 0.2954, 0.3512



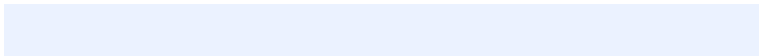
89.8886, 0.2784, 0.3309

# Triad

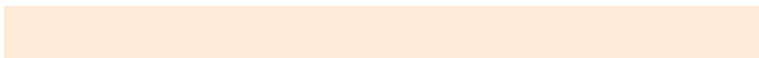
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



89.8886, 0.2954, 0.3512



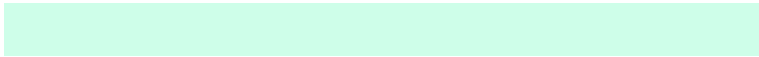
89.8886, 0.2864, 0.2916



89.8886, 0.3569, 0.3447

# Complementary

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



89.8886, 0.2954, 0.3512



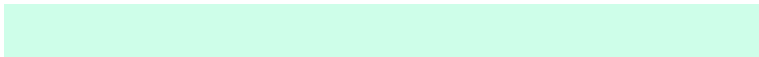
70.7717, 0.3341, 0.3078

# 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.



89.8886, 0.3480, 0.3257



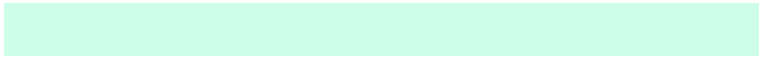
89.8886, 0.2954, 0.3512



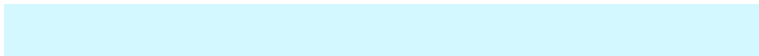
89.8886, 0.3068, 0.2959

# Square

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



89.8886, 0.2954, 0.3512



89.8886, 0.2734, 0.2968



89.8886, 0.3294, 0.3082

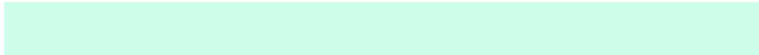


89.8886, 0.3533, 0.3604



# Rectangle

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



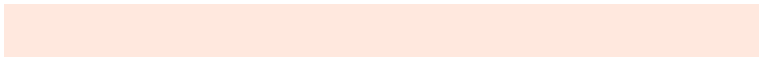
89.8886, 0.2954, 0.3512



89.8886, 0.2720, 0.3171



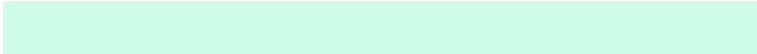
89.8886, 0.3294, 0.3082



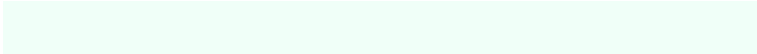
89.8886, 0.3552, 0.3385

# Sweetspot

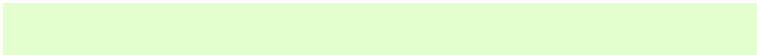
The Sweet Spot groups the original color and five complimentary colors.



89.8924, 0.2954, 0.3512



96.7889, 0.3071, 0.3356



91.7724, 0.3239, 0.3789



20.6451, 0.3065, 0.3363



0.0000, 0.0000, 0.0000

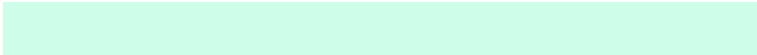


21.4041, 0.3127, 0.3290

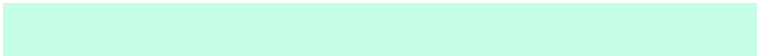


# Same Dimension

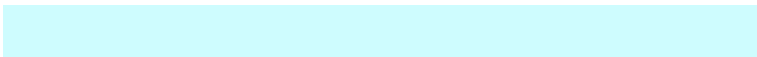
The Same Dimension uses a secret algorithm to generate beautiful new colors.



89.8924, 0.2954, 0.3512



88.9780, 0.2918, 0.3566



89.6521, 0.2841, 0.3264



20.3392, 0.3039, 0.3396



38.4433, 0.2666, 0.4796



3.7651, 0.2613, 0.4608



# Inverse Universe

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



70.7717, 0.3341, 0.3078



66.1733, 0.3400, 0.3030



70.8455, 0.3495, 0.3316



18.1192, 0.3225, 0.3186



11.7447, 0.5228, 0.2653

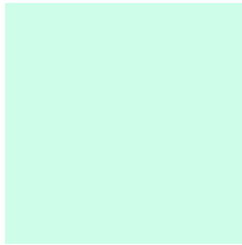


1.1650, 0.4941, 0.2496



# Previews

## White Background



This preview shows how the Yxy color 89.8886, 0.2954, 0.3512 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

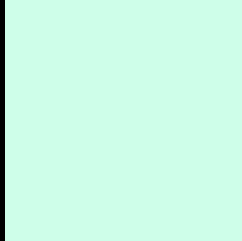
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 89.8886, 0.2954, 0.3512 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

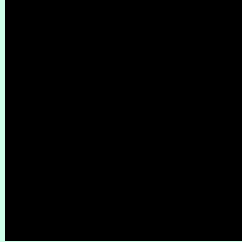
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

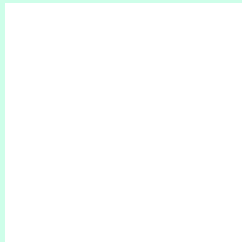
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 89.8886, 0.2954, 0.3512**

## **Background**



This preview shows how black text looks on a background with the Yxy color 89.8886, 0.2954, 0.3512.

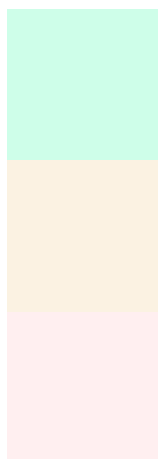


This preview shows how white text looks on a background with the Yxy color 89.8886, 0.2954, 0.3512.

# 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

89.8886, 0.2954, 0.3512

### Protanopia

89.5045, 0.3286, 0.3449

### Deuteranopia

89.2843, 0.3227, 0.3281



## Tritanopia

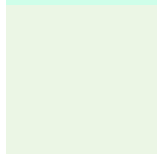
89.9545, 0.2975, 0.3199

# Trichromacy



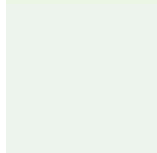
## Original Color

89.8886, 0.2954, 0.3512



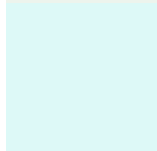
## Protanomaly

89.2308, 0.3158, 0.3463



## Deuteranomaly

88.8203, 0.3124, 0.3361



## Tritanomaly

89.8389, 0.2965, 0.3310

# Monochromacy



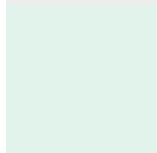
## Original Color

89.8886, 0.2954, 0.3512



## Achromatopsia

84.6873, 0.3127, 0.3290



## Achromatomaly

86.3261, 0.3059, 0.3362

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 89.8886, 0.2954, 0.3512 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(206, 254, 233)` looks like.

```
.text, #text, p{  
    color:rgb(206, 254, 233)  
}
```

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(206, 254, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(206, 254, 233) }
```

## Border

The CSS property to change the border of an element to Yxy 89.8886, 0.2954, 0.3512 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(206, 254, 233) }
```

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

```
.border{ border-color:rgb(206, 254, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(206, 254, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(206, 254, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(206, 254, 233);  
box-shadow:4px 4px 4px 4px rgb(206, 254,  
233) }
```



# Background

The CSS property to change the background color of an element to Yxy 89.8886, 0.2954, 0.3512 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(206, 254, 233) }
```

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

```
.background{ background-color: rgb(206,  
254, 233) }
```

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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