

# Converting Colors

$Y_{xy}(120.1018, 0.3092, 0.4298)$

Have a look what the booklet for  
Yxy(120.1018, 0.3092, 0.4298)  
contains.

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# Color

**Yxy(88.2001, 0.3117, 0.3903)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CAFFC7
RGB	202, 255, 199
RGB Percent	79%, 100%, 78%
CMY	0.2076, 0.0000, 0.2196
CMYK	0.21, 0.00, 0.22, 0.00
HSL	117°, 100%, 89%
HSV	117°, 22%, 100%
XYZ	70.4381, 88.2001, 67.3421
YIQ	232.7690, -13.6120, -28.6520

# Conversions

## Conversions Part 2

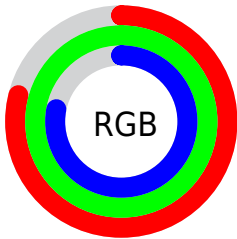
<b>Format</b>	<b>Color</b>
<b>RYB</b>	199, 255, 252
Decimal	13303751
CIELab	95.25, -27.03, 21.40
CIELCh	95, 34.478, 141.631
Yxy	88.2001, 0.3117, 0.3903
Android (android.graphics.Color)	4291493831 (0xFFCAFFC7)
YUV	232.7690, -16.6481, -26.9844
Hunter-Lab	93.9149, -30.4725, 23.2263

# Details

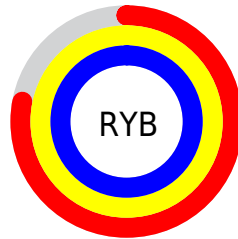
The Yxy color **88.2001, 0.3117, 0.3903** is a light color, and the websafe version is hex **CCFFCC**. A complement of this color would be **68.7472, 0.3130, 0.2738**, and the grayscale version is **81.4484, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **48.6355, 0.3107, 0.4047** is the 20% darker color. If you saturate the color by 10%, you get **84.0118, 0.3109, 0.4233**, and if you desaturate by 10%, it is **93.1196, 0.3123, 0.3604**.

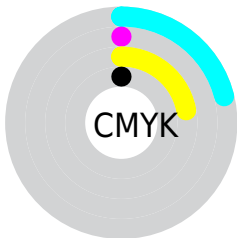
# Distribution



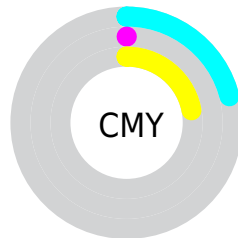
- Red (79%)
- Green (100%)
- Blue (78%)



- Red (78%)
- Yellow (100%)
- Blue (99%)



- Cyan (21%)
- Magenta (0%)
- Yellow (22%)
- Black (0%)




- Cyan (21%)
- Magenta (0%)
- Yellow (22%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 88.2001, 0.3117, 0.3903 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 88.2001, 0.3117, 0.3903 by changing the saturation by 10% instead.



 88.2001, 0.3117,  
0.3903

 88.2001, 0.3117,  
0.3903


522.1583, 0.3127,  
0.3618

 66.4888, 0.3113,  
0.3968


144.8357, 0.3122,  
0.3804

 48.6693, 0.3108,  
0.4049


180.5288, 0.3123,  
0.3766

 34.3572, 0.3100,  
0.4151


221.6513, 0.3124,  
0.3732

 23.1682, 0.3089,  
0.4284

268.5875, 0.3125,  
0.3704

 14.7177, 0.3070,  
0.4466

321.7220, 0.3126,  
0.3678

 8.6215, 0.3036,  
0.4725

381.4390, 0.3126,

 4.4951, 0.2970,

0.3656

0.5124

448.1230, 0.3127,  
0.3636

■ 1.9542, 0.2924,  
0.6024

■ 0.5807, 0.0000,  
1.0000

■ 88.2001, 0.3117,  
0.3903

■ 88.2001, 0.3117,  
0.3903

■ 84.0118, 0.3109,  
0.4233

■ 93.1196, 0.3123,  
0.3604

■ 80.5091, 0.3098,  
0.4585

■ 98.7908, 0.3127,  
0.3338

■ 77.6590, 0.3085,  
0.4942

■ 99.9950, 0.3127,  
0.3290

■ 75.4209, 0.3069,  
0.5282

■ 73.7500, 0.3051,  
0.5576

■ 72.5953, 0.3033,  
0.5800

■ 71.8963, 0.3017,  
0.5939

■ 71.6080, 0.3008,  
0.5994

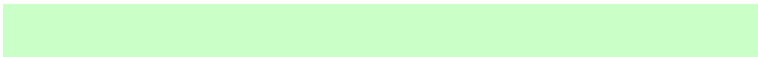
# Harmonies

## Analogous

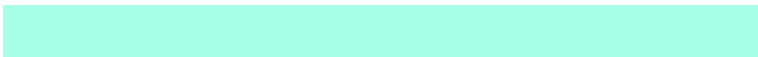
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



88.2001, 0.3499, 0.3990



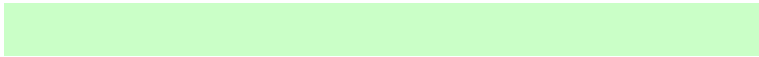
88.2001, 0.3117, 0.3903



88.2001, 0.2753, 0.3614

# Triad

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



88.2001, 0.3117, 0.3903



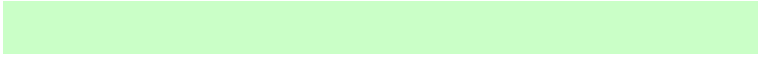
88.2001, 0.2489, 0.2703



88.2001, 0.3796, 0.3289

# Complementary

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



88.2001, 0.3117, 0.3903



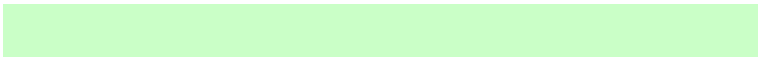
68.7472, 0.3130, 0.2738

# 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.



88.2001, 0.3492, 0.2990



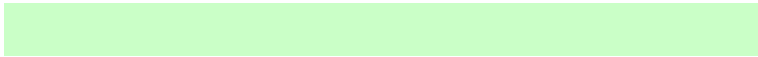
88.2001, 0.3117, 0.3903



88.2001, 0.2735, 0.2660

# Square

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



88.2001, 0.3117, 0.3903



88.2001, 0.2405, 0.2902



88.2001, 0.3099, 0.2766

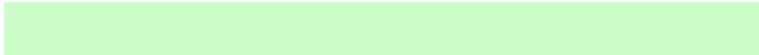


88.2001, 0.3906, 0.3605



# Rectangle

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



88.2001, 0.3117, 0.3903



88.2001, 0.2566, 0.3361



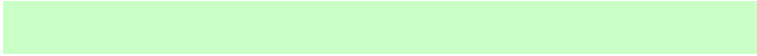
88.2001, 0.3099, 0.2766



88.2001, 0.3712, 0.3184

# Sweetspot

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



88.2039, 0.3117, 0.3903



95.8424, 0.3125, 0.3468



94.5384, 0.3467, 0.3806



20.4413, 0.3125, 0.3484



0.0000, 0.0000, 0.0000

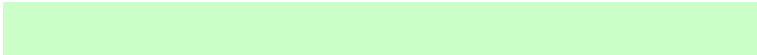


21.4041, 0.3127, 0.3290

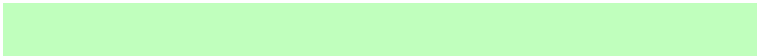


# Same Dimension

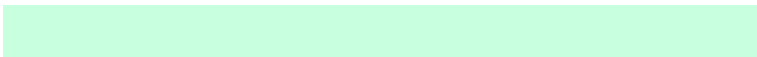
The Same Dimension uses a secret algorithm to generate beautiful new colors.



88.2039, 0.3117, 0.3903



86.4307, 0.3114, 0.4033



88.9987, 0.2966, 0.3632



20.2156, 0.3124, 0.3535



37.4383, 0.3011, 0.5991



3.6612, 0.3038, 0.5970



# Inverse Universe

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



68.7472, 0.3130, 0.2738



64.0643, 0.3130, 0.2635



67.8586, 0.3330, 0.2971



18.2467, 0.3129, 0.3055



13.5697, 0.3072, 0.1466

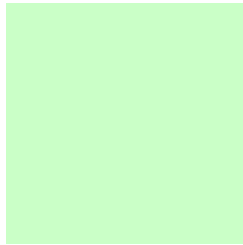


1.3361, 0.3089, 0.1475



# Previews

## White Background



This preview shows how the Yxy color 88.2001, 0.3117, 0.3903 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

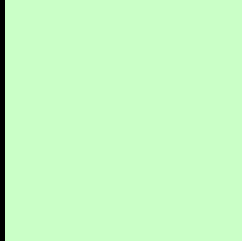
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 88.2001, 0.3117, 0.3903 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

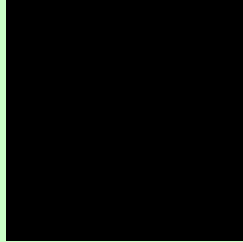
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

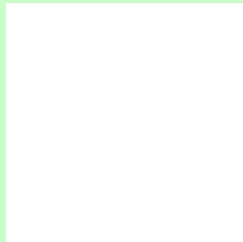
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 88.2001, 0.3117, 0.3903**

## **Background**



This preview shows how black text looks on a background with the Yxy color 88.2001, 0.3117, 0.3903.

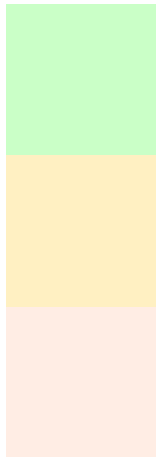


This preview shows how white text looks on a background with the Yxy color 88.2001, 0.3117, 0.3903.

# 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

88.2001, 0.3117, 0.3903

### Protanopia

87.4752, 0.3522, 0.3751

### Deuteranopia

87.4298, 0.3306, 0.3379



## Tritanopia

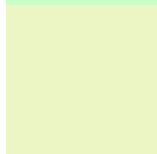
88.0901, 0.2950, 0.3178

# Trichromacy



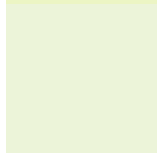
## Original Color

88.2001, 0.3117, 0.3903



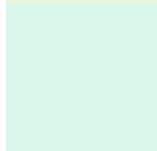
## Protanomaly

87.1232, 0.3367, 0.3799



## Deuteranomaly

87.5440, 0.3239, 0.3568



## Tritanomaly

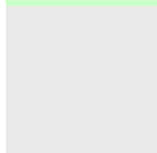
87.8847, 0.3008, 0.3426

# Monochromacy



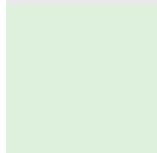
## Original Color

88.2001, 0.3117, 0.3903



## Achromatopsia

81.4847, 0.3127, 0.3290



## Achromatomaly

83.6606, 0.3124, 0.3502

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 88.2001, 0.3117, 0.3903 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(202, 255, 199)` looks like.

```
.text, #text, p{  
    color:rgb(202, 255, 199)  
}
```

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(202, 255, 199) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 255, 199) }
```

## Border

The CSS property to change the border of an element to Yxy 88.2001, 0.3117, 0.3903 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(202, 255, 199) }
```

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

```
.border{ border-color:rgb(202, 255, 199) }
```

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

Here you see how a box with a 4 pixel `rgb(202, 255, 199)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(202, 255, 199); -webkit-box-shadow:4px 4px 4px 4px rgb(202, 255, 199); box-shadow:4px 4px 4px 4px rgb(202, 255, 199) }
```



# Background

The CSS property to change the background color of an element to Yxy 88.2001, 0.3117, 0.3903 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 255, 199) }
```

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

```
.background{ background-color: rgb(202,  
255, 199) }
```

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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