

# Converting Colors

$Y_{xy}(100.0000, 0.3210, 0.4350)$

Have a look what the booklet for  
Yxy(100.0000, 0.3210, 0.4350)  
contains.

|   |    |
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# Color

**Yxy(86.8945, 0.3237, 0.4178)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | C8FFAF                      |
| RGB         | 200, 255, 175               |
| RGB Percent | 78%, 100%, 69%              |
| CMY         | 0.2155, 0.0000, 0.3139      |
| CMYK        | 0.22, 0.00, 0.31, 0.00      |
| HSL         | 101°, 100%, 84%             |
| HSV         | 101°, 31%, 100%             |
| XYZ         | 67.3235, 86.8945, 53.7631   |
| YIQ         | 229.4350, -7.1000, -36.5400 |

# Conversions

## Conversions Part 2

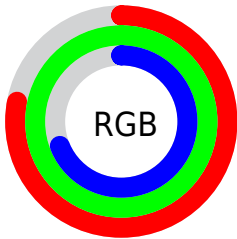
| <b>Format</b>                       | <b>Color</b>                    |
|-------------------------------------|---------------------------------|
| <b>RYB</b>                          | 175, 255, 230                   |
| Decimal                             | 13172655                        |
| CIELab                              | 94.69, -31.42, 32.77            |
| CIELCh                              | 95, 45.404, 133.796             |
| Yxy                                 | 86.8945, 0.3237,<br>0.4178      |
| Android<br>(android.graphics.Color) | 4291362735<br>(0xFFC8FFAF)      |
| YUV                                 | 229.4350, -26.8365,<br>-25.8145 |
| Hunter-Lab                          | 93.2172, -34.2136,<br>31.0565   |

# Details

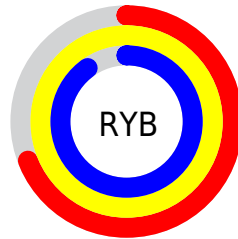
The Yxy color **86.8945, 0.3237, 0.4178** is a light color, and the websafe version is hex **CCFF99**. A complement of this color would be **54.6765, 0.2968, 0.2459**, and the grayscale version is **78.9035, 0.3127, 0.3290**.

A 20% lighter version of the original color is **98.5495, 0.3268, 0.3522**, and **47.8130, 0.3247, 0.4388** is the 20% darker color. If you saturate the color by 10%, you get **83.7142, 0.3261, 0.4502**, and if you desaturate by 10%, it is **90.5476, 0.3206, 0.3869**.

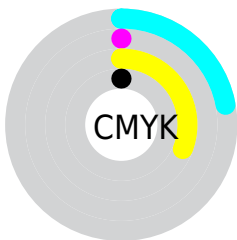
# Distribution



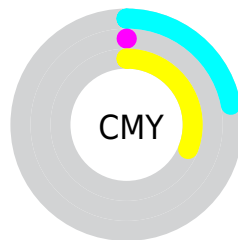
- Red (78%)
- Green (100%)
- Blue (69%)



- Red (69%)
- Yellow (100%)
- Blue (90%)



- Cyan (22%)
- Magenta (0%)
- Yellow (31%)
- Black (0%)




- Cyan (22%)
- Magenta (0%)
- Yellow (31%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 86.8945, 0.3237, 0.4178 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 86.8945, 0.3237, 0.4178 by changing the saturation by 10% instead.





 86.8945, 0.3237,  
0.4178

 86.8945, 0.3237,  
0.4178


517.8761, 0.3200,  
0.3762

 65.4079, 0.3242,  
0.4274


 143.0171, 0.3227,  
0.4033

 47.7919, 0.3247,  
0.4392


178.4219, 0.3222,  
0.3977

 33.6621, 0.3249,  
0.4542


219.2348, 0.3218,  
0.3928

 22.6342, 0.3248,  
0.4737

265.8403, 0.3213,  
0.3886

 14.3236, 0.3237,  
0.4999

318.6228, 0.3210,  
0.3849

 8.3461, 0.3203,  
0.5369


377.9667, 0.3206,


 4.3172, 0.3121,


0.3817


0.5937

444.2563, 0.3203,  
0.3788

 1.8525, 0.2960,  
0.7040


 0.5196, 0.0000,  
1.0000


 86.8945, 0.3237,  
0.4178


 86.8945, 0.3237,  
0.4178


 83.7142, 0.3261,  
0.4502

 90.5476, 0.3206,  
0.3869

 80.9755, 0.3275,  
0.4829

 94.6809, 0.3170,  
0.3583

 78.6605, 0.3276,  
0.5142

 99.3158, 0.3132,  
0.3324

 76.7459, 0.3261,  
0.5420

99.9987, 0.3127,  
0.3290

■ 75.2054, 0.3230,  
0.5645

■ 74.0090, 0.3185,  
0.5803

■ 73.2202, 0.3141,  
0.5888

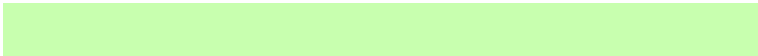
# Harmonies

## Analogous

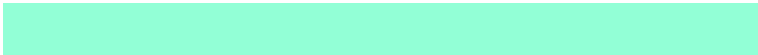
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



86.8945, 0.3724, 0.4198



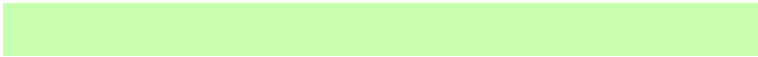
86.8945, 0.3237, 0.4178



86.8945, 0.2743, 0.3848

# Triad

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



86.8945, 0.3237, 0.4178



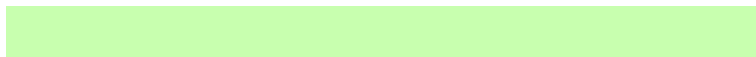
86.8945, 0.2251, 0.2567



86.8945, 0.3930, 0.3172

# Complementary

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



86.8945, 0.3237, 0.4178



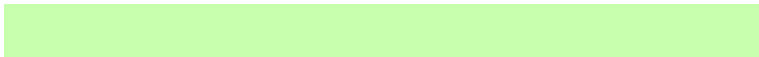
54.6765, 0.2968, 0.2459

# Split Complementary

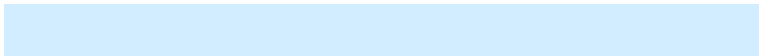
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



86.8945, 0.3475, 0.2812



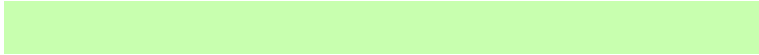
86.8945, 0.3237, 0.4178



86.8945, 0.2512, 0.2470

# Square

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



86.8945, 0.3237, 0.4178



86.8945, 0.2201, 0.2867



86.8945, 0.2949, 0.2562

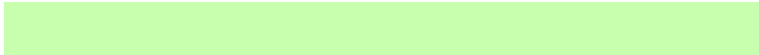


86.8945, 0.4151, 0.3578



# Rectangle

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



86.8945, 0.3237, 0.4178



86.8945, 0.2476, 0.3514



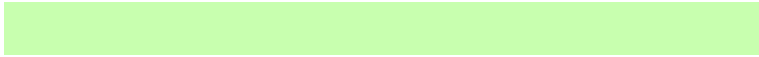
86.8945, 0.2949, 0.2562



86.8945, 0.3797, 0.3043

# Sweetspot

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



86.8982, 0.3237, 0.4178



95.7419, 0.3161, 0.3519



80.7551, 0.3675, 0.3846



20.3537, 0.3167, 0.3558



0.0000, 0.0000, 0.0000

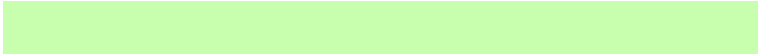


21.4041, 0.3127, 0.3290

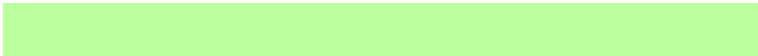


# Same Dimension

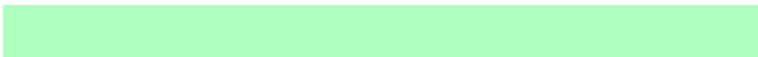
The Same Dimension uses a secret algorithm to generate beautiful new colors.



86.8982, 0.3237, 0.4178



84.7426, 0.3254, 0.4391



84.3308, 0.3007, 0.4045



20.4442, 0.3163, 0.3532



38.3293, 0.3152, 0.5880



3.7871, 0.3235, 0.5813



# Inverse Universe

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



54.6765, 0.2968, 0.2459



47.6567, 0.2923, 0.2275



58.2173, 0.3278, 0.2638



17.9982, 0.3087, 0.3052



8.6233, 0.2429, 0.1112

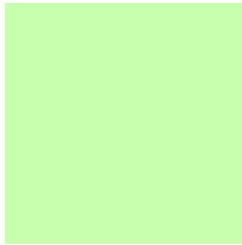


0.8978, 0.2519, 0.1162



# Previews

## White Background



This preview shows how the Yxy color 86.8945, 0.3237, 0.4178 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

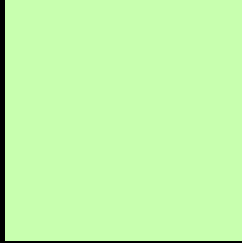
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 86.8945, 0.3237, 0.4178 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

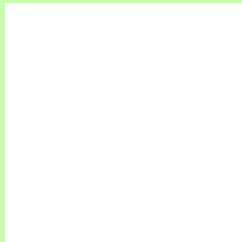
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 86.8945, 0.3237, 0.4178**

## **Background**



This preview shows how black text looks on a background with the Yxy color 86.8945, 0.3237, 0.4178.

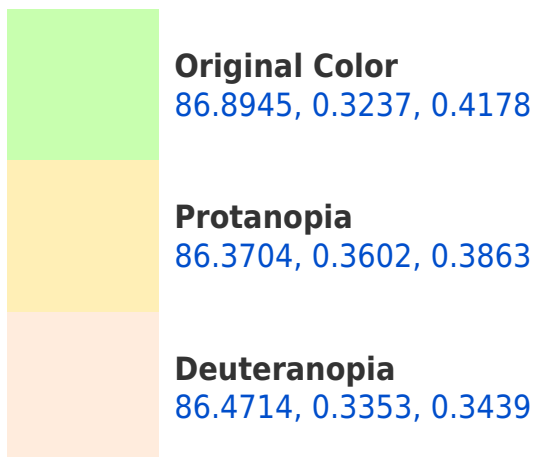


This preview shows how white text looks on a background with the Yxy color 86.8945, 0.3237, 0.4178.

# 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

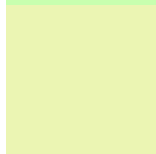
86.4122, 0.2931, 0.3157

# Trichromacy



## Original Color

86.8945, 0.3237, 0.4178



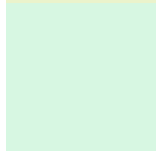
## Protanomaly

86.2217, 0.3465, 0.3981



## Deuteranomaly

86.1230, 0.3314, 0.3696



## Tritanomaly

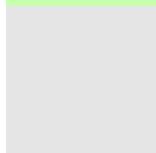
86.4596, 0.3047, 0.3512

# Monochromacy



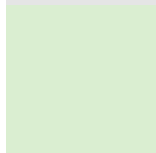
## Original Color

86.8945, 0.3237, 0.4178



## Achromatopsia

78.3538, 0.3127, 0.3290



## Achromatomaly

80.6579, 0.3172, 0.3604

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 86.8945, 0.3237, 0.4178 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(200, 255, 175)` looks like.

```
.text, #text, p{  
    color:rgb(200, 255, 175)  
}
```

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(200, 255, 175) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(200, 255, 175) }
```

## Border

The CSS property to change the border of an element to Yxy 86.8945, 0.3237, 0.4178 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(200, 255, 175) }
```

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

```
.border{ border-color:rgb(200, 255, 175) }
```

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

Here you see how a box with a 4 pixel `rgb(200, 255, 175)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(200, 255, 175); -webkit-box-  
shadow:4px 4px 4px 4px rgb(200, 255, 175);  
box-shadow:4px 4px 4px 4px rgb(200, 255,  
175) }
```



# Background

The CSS property to change the background color of an element to Yxy 86.8945, 0.3237, 0.4178 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(200, 255, 175) }
```

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

```
.background{ background-color: rgb(200,  
255, 175) }
```

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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