

# Converting Colors

$Y_{xy}(101.6785, 0.3201, 0.4517)$

Have a look what the booklet for  
Yxy(101.6785, 0.3201, 0.4517)  
contains.

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# Color

**Yxy(85.1838, 0.3227, 0.4310)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BEFFA5
RGB	190, 255, 165
RGB Percent	75%, 100%, 65%
CMY	0.2551, 0.0000, 0.3529
CMYK	0.26, 0.00, 0.35, 0.00
HSL	103°, 100%, 82%
HSV	103°, 35%, 100%
XYZ	63.7791, 85.1838, 48.6793
YIQ	225.3050, -9.8500, -41.7700

# Conversions

## Conversions Part 2

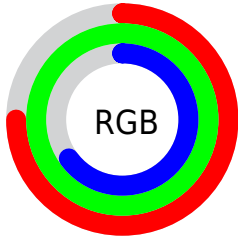
<b>Format</b>	<b>Color</b>
<b>RYB</b>	165, 255, 230
Decimal	12517285
CIELab	93.96, -36.23, 36.66
CIELCh	94, 51.546, 134.665
Yxy	85.1838, 0.3227, 0.4310
Android (android.graphics.Color)	4290707365 (0xFFBEFFA5)
YUV	225.3050, -29.7304, -30.9625
Hunter-Lab	92.2951, -38.1666, 33.3352

# Details

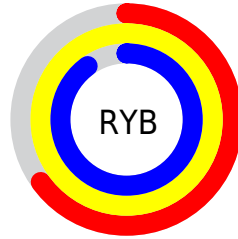
The Yxy color **85.1838, 0.3227, 0.4310** is a light color, and the websafe version is hex **CCFF99**. A complement of this color would be **50.9630, 0.2968, 0.2357**, and the grayscale version is **75.7397, 0.3127, 0.3290**.

A 20% lighter version of the original color is **96.6969, 0.3282, 0.3626**, and **46.7089, 0.3233, 0.4561** is the 20% darker color. If you saturate the color by 10%, you get **82.1164, 0.3242, 0.4641**, and if you desaturate by 10%, it is **88.7261, 0.3204, 0.3991**.

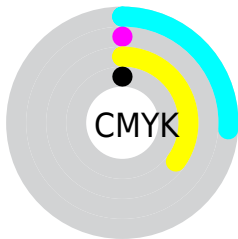
# Distribution



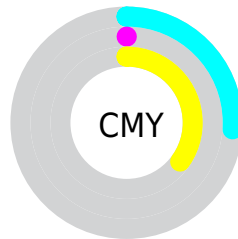
- Red (75%)
- Green (100%)
- Blue (65%)



- Red (65%)
- Yellow (100%)
- Blue (90%)



- Cyan (26%)
- Magenta (0%)
- Yellow (35%)
- Black (0%)




- Cyan (26%)
- Magenta (0%)
- Yellow (35%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 85.1838, 0.3227, 0.4310 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 85.1838, 0.3227, 0.4310 by changing the saturation by 10% instead.



 85.1838, 0.3227,  
0.4310

 85.1838, 0.3227,  
0.4310


512.2361, 0.3198,  
0.3827

 63.9933, 0.3229,  
0.4422


 140.6299, 0.3221,  
0.4141

 46.6452, 0.3229,  
0.4560


 175.6543, 0.3217,  
0.4076

 32.7553, 0.3225,  
0.4735


216.0588, 0.3214,  
0.4020

 21.9390, 0.3213,  
0.4964


262.2277, 0.3210,  
0.3971

 13.8121, 0.3185,  
0.5272

314.5455, 0.3207,  
0.3929

 7.9901, 0.3119,  
0.5704


373.3966, 0.3204,

 4.0886, 0.3024,


0.3891


0.6462


439.1653, 0.3201,  
0.3857


 1.7233, 0.2533,  
0.7467


 0.4386, 0.0000,  
1.0000

 85.1838, 0.3227,  
0.4310


 85.1838, 0.3227,  
0.4310


 82.1164, 0.3242,  
0.4641


 88.7261, 0.3204,  
0.3991

 79.5170, 0.3247,  
0.4970

 92.7794, 0.3175,  
0.3693

 77.3565, 0.3239,  
0.5276

 97.3581, 0.3144,  
0.3422

 75.6084, 0.3216,  
0.5540

100.0000, 0.3127,  
0.3290

■ 74.2429, 0.3180,  
0.5741

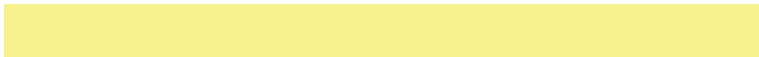
■ 73.2252, 0.3133,  
0.5871

■ 72.8485, 0.3111,  
0.5912

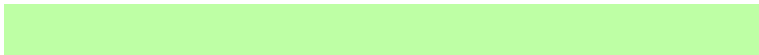
# Harmonies

## Analogous

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



85.1838, 0.3784, 0.4329



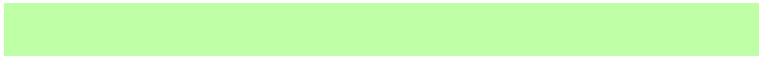
85.1838, 0.3227, 0.4310



85.1838, 0.2671, 0.3918

# Triad

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



85.1838, 0.3227, 0.4310



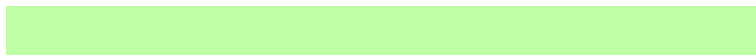
85.1838, 0.2145, 0.2463



85.1838, 0.4058, 0.3162

# Complementary

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



85.1838, 0.3227, 0.4310



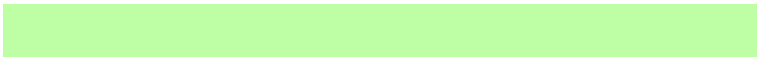
50.9630, 0.2968, 0.2357

# Split Complementary

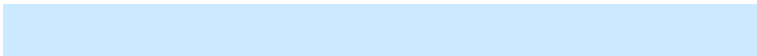
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



85.1838, 0.3538, 0.2760



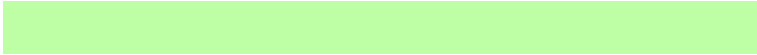
85.1838, 0.3227, 0.4310



85.1838, 0.2441, 0.2367

# Square

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



85.1838, 0.3227, 0.4310



85.1838, 0.2081, 0.2788



85.1838, 0.2937, 0.2478

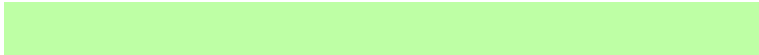


85.1838, 0.4299, 0.3617



# Rectangle

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



85.1838, 0.3227, 0.4310



85.1838, 0.2375, 0.3526



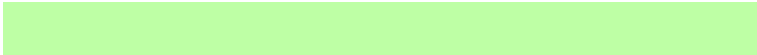
85.1838, 0.2937, 0.2478



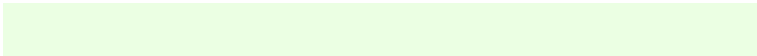
85.1838, 0.3907, 0.3019

# Sweetspot

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



85.1786, 0.3227, 0.4310



94.6791, 0.3162, 0.3573



80.2934, 0.3743, 0.3944



20.1345, 0.3166, 0.3611



0.0000, 0.0000, 0.0000

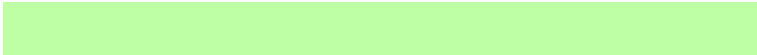


21.4041, 0.3127, 0.3290

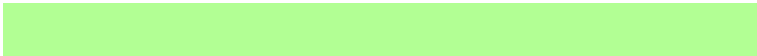


# Same Dimension

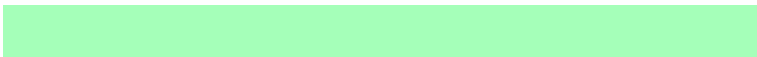
The Same Dimension uses a secret algorithm to generate beautiful new colors.



85.1786, 0.3227, 0.4310



83.0722, 0.3238, 0.4532



83.0018, 0.2977, 0.4120



20.4118, 0.3158, 0.3533



38.1284, 0.3121, 0.5904



3.7642, 0.3201, 0.5841



# Inverse Universe

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



50.9630, 0.2968, 0.2357



44.4249, 0.2927, 0.2175



54.1994, 0.3326, 0.2584



18.0324, 0.3093, 0.3053



9.1948, 0.2516, 0.1159

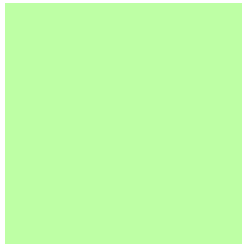


0.9499, 0.2597, 0.1204



# Previews

## White Background



This preview shows how the Yxy color 85.1838, 0.3227, 0.4310 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

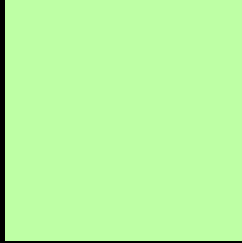
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 85.1838, 0.3227, 0.4310 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

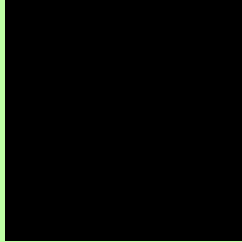
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 85.1838, 0.3227, 0.4310**

## **Background**



This preview shows how black text looks on a background with the Yxy color 85.1838, 0.3227, 0.4310.

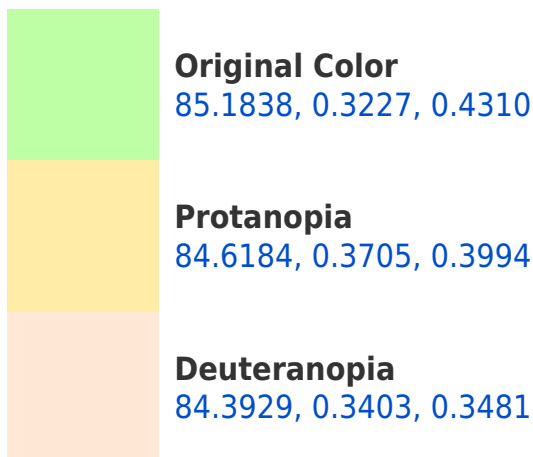


This preview shows how white text looks on a background with the Yxy color 85.1838, 0.3227, 0.4310.

# 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

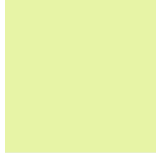
84.7295, 0.2889, 0.3145

# Trichromacy



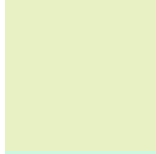
## Original Color

85.1838, 0.3227, 0.4310



## Protanomaly

84.4435, 0.3518, 0.4115



## Deuteranomaly

83.8850, 0.3339, 0.3766



## Tritanomaly

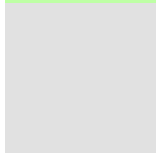
84.4509, 0.3021, 0.3549

# Monochromacy



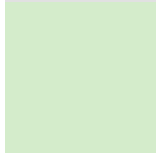
## Original Color

85.1838, 0.3227, 0.4310



## Achromatopsia

75.2942, 0.3127, 0.3290



## Achromatomaly

78.2998, 0.3170, 0.3654

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 85.1838, 0.3227, 0.4310 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, 165)` looks like.

```
.text, #text, p{  
    color:rgb(190, 255, 165)  
}
```

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, 165) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(190, 255, 165) }
```

## Border

The CSS property to change the border of an element to Yxy 85.1838, 0.3227, 0.4310 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, 165) }
```

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

```
.border{ border-color:rgb(190, 255, 165) }
```

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, 165)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(190, 255, 165); -webkit-box-  
shadow:4px 4px 4px 4px rgb(190, 255, 165);  
box-shadow:4px 4px 4px 4px rgb(190, 255,  
165) }
```



# Background

The CSS property to change the background color of an element to Yxy 85.1838, 0.3227, 0.4310 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, 165) }
```

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

```
.background{ background-color: rgb(190,  
255, 165) }
```

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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