

# Converting Colors

$Y_{xy}(100.0000, 0.3408, 0.4764)$

Have a look what the booklet for  
Yxy(100.0000, 0.3408, 0.4764)  
contains.

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# Color

**Yxy(85.8258, 0.3460, 0.4604)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CAFF87
RGB	202, 255, 135
RGB Percent	79%, 100%, 53%
CMY	0.2077, 0.0000, 0.4706
CMYK	0.21, 0.00, 0.47, 0.00
HSL	86°, 100%, 76%
HSV	86°, 47%, 100%
XYZ	64.4998, 85.8258, 36.0901
YIQ	225.4730, 6.9320, -48.5560

# Conversions

## Conversions Part 2

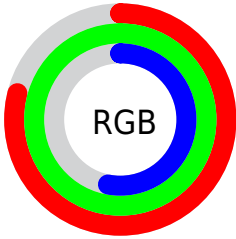
Format	Color
<a href="#">RYB</a>	<a href="#">135, 255, 188</a>
Decimal	<a href="#">13303687</a>
CIELab	<a href="#">94.24, -35.78, 51.65</a>
CIElCh	<a href="#">94, 62.835, 124.710</a>
Yxy	<a href="#">85.8258, 0.3460, 0.4604</a>
Android (android.graphics.Color)	<a href="#">4291493767</a> ( <a href="#">0xFFCAFF87</a> )
YUV	<a href="#">225.4730, -44.6032, -20.5858</a>
Hunter-Lab	<a href="#">92.6422, -37.8477, 41.7523</a>

# Details

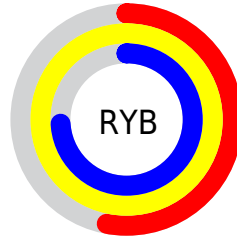
The Yxy color **85.8258, 0.3460, 0.4604** is a light color, and the websafe version is hex **CCFF99**. A complement of this color would be **35.2360, 0.2613, 0.1940**, and the grayscale version is **75.9856, 0.3127, 0.3290**.

A 20% lighter version of the original color is **96.4977, 0.3514, 0.3929**, and **47.1084, 0.3498, 0.4908** is the 20% darker color. If you saturate the color by 10%, you get **83.6818, 0.3502, 0.4886**, and if you desaturate by 10%, it is **88.2638, 0.3402, 0.4310**.

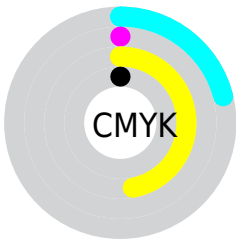
# Distribution



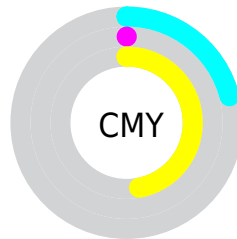
- Red (79%)
- Green (100%)
- Blue (53%)



- Red (53%)
- Yellow (100%)
- Blue (74%)



- Cyan (21%)
- Magenta (0%)
- Yellow (47%)
- Black (0%)



- Cyan (21%)
- Magenta (0%)
- Yellow (47%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 85.8258, 0.3460, 0.4604 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 85.8258, 0.3460, 0.4604 by changing the saturation by 10% instead.





 85.8258, 0.3460,  
0.4604


 85.8258, 0.3460,  
0.4604


514.3566, 0.3339,  
0.3989


 64.5239, 0.3478,  
0.4742


 141.5264, 0.3426,  
0.4392

 47.0752, 0.3495,  
0.4911

 176.6939, 0.3410,  
0.4309

 33.0951, 0.3507,  
0.5121


 217.2520, 0.3396,  
0.4237

 22.1993, 0.3509,  
0.5385

263.5852, 0.3383,  
0.4175

 14.0034, 0.3486,  
0.5723

316.0779, 0.3370,  
0.4120

 8.1230, 0.3421,  
0.6187

375.1145, 0.3359,


 4.1738, 0.3221,

0.4071

0.6779


441.0792, 0.3349,  
0.4028


 1.7712, 0.2607,  
0.7393


 0.4692, 0.0000,  
1.0000


 85.8258, 0.3460,  
0.4604


 85.8258, 0.3460,  
0.4604


 83.6818, 0.3502,  
0.4886


 88.2638, 0.3402,  
0.4310


 81.8056, 0.3524,  
0.5142

 90.9981, 0.3334,  
0.4016

 80.1843, 0.3523,  
0.5356

 94.0451, 0.3259,  
0.3733

 78.7986, 0.3499,  
0.5520

 97.4164, 0.3182,  
0.3466

■ 77.6246, 0.3452,  
0.5628

99.9971, 0.3127,  
0.3290

■ 77.3094, 0.3437,  
0.5653

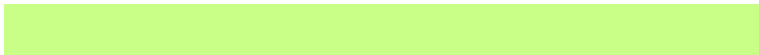
# Harmonies

## Analogous

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



85.8258, 0.4092, 0.4448



85.8258, 0.3460, 0.4604



85.8258, 0.2774, 0.4277

# Triad

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



85.8258, 0.3460, 0.4604



85.8258, 0.1908, 0.2390



85.8258, 0.4076, 0.2958

# Complementary

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



85.8258, 0.3460, 0.4604



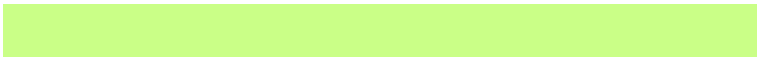
35.2360, 0.2613, 0.1940

# 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.



85.8258, 0.3375, 0.2530



85.8258, 0.3460, 0.4604



85.8258, 0.2162, 0.2202

# Square

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



85.8258, 0.3460, 0.4604



85.8258, 0.1923, 0.2857



85.8258, 0.2673, 0.2262

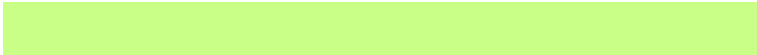


85.8258, 0.4501, 0.3475



# Rectangle

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



85.8258, 0.3460, 0.4604



85.8258, 0.2380, 0.3825



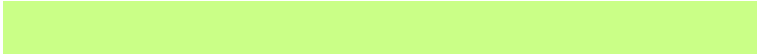
85.8258, 0.2673, 0.2262



85.8258, 0.3860, 0.2802

# Sweetspot

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



85.8296, 0.3460, 0.4604



95.0438, 0.3236, 0.3649



58.5505, 0.4148, 0.3831



20.1922, 0.3252, 0.3708



0.0000, 0.0000, 0.0000

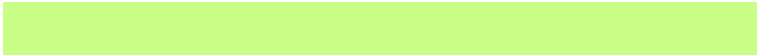


21.4041, 0.3127, 0.3290

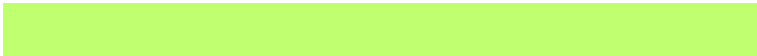


# Same Dimension

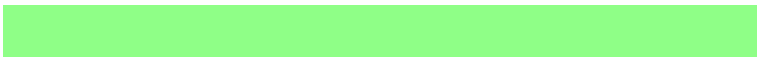
The Same Dimension uses a secret algorithm to generate beautiful new colors.



85.8296, 0.3460, 0.4604



83.8987, 0.3499, 0.4857



79.1069, 0.3099, 0.4764



20.6686, 0.3201, 0.3530



40.4874, 0.3448, 0.5644



4.0069, 0.3529, 0.5580



# Inverse Universe

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



35.2360, 0.2613, 0.1940



27.9915, 0.2485, 0.1672



44.3235, 0.3112, 0.2119



17.7699, 0.3048, 0.3049



5.6758, 0.1912, 0.0827

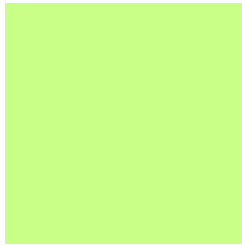


0.6161, 0.2037, 0.0896



# Previews

## White Background



This preview shows how the Yxy color 85.8258, 0.3460, 0.4604 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

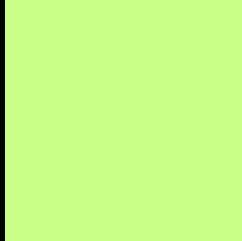
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 85.8258, 0.3460, 0.4604 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

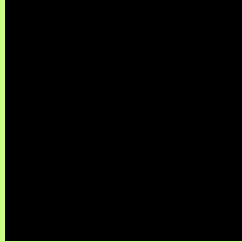
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 85.8258, 0.3460, 0.4604**

## **Background**



This preview shows how black text looks on a background with the Yxy color 85.8258, 0.3460, 0.4604.

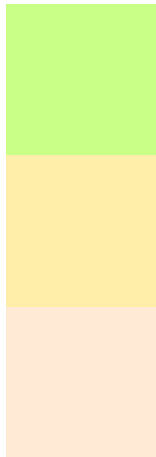


This preview shows how white text looks on a background with the Yxy color 85.8258, 0.3460, 0.4604.

# 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

85.8258, 0.3460, 0.4604

### Protanopia

85.2736, 0.3689, 0.3983

### Deuteranopia

84.9097, 0.3408, 0.3500



## Tritanopia

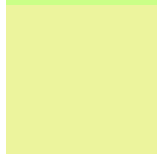
85.3875, 0.2937, 0.3137

# Trichromacy



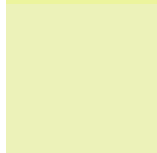
## Original Color

85.8258, 0.3460, 0.4604



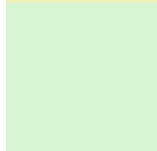
## Protanomaly

84.9686, 0.3607, 0.4197



## Deuteranomaly

84.8399, 0.3441, 0.3887



## Tritanomaly

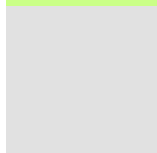
84.6069, 0.3142, 0.3655

# Monochromacy



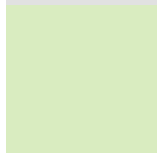
## Original Color

85.8258, 0.3460, 0.4604



## Achromatopsia

75.2942, 0.3127, 0.3290



## Achromatomaly

78.5484, 0.3273, 0.3774

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 85.8258, 0.3460, 0.4604 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, 135)` looks like.

```
.text, #text, p{  
    color:rgb(202, 255, 135)  
}
```

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, 135) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 255, 135) }
```

## Border

The CSS property to change the border of an element to Yxy 85.8258, 0.3460, 0.4604 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, 135) }
```

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

```
.border{ border-color:rgb(202, 255, 135) }
```

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, 135) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 255, 135); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 255, 135);  
box-shadow:4px 4px 4px 4px rgb(202, 255,  
135) }
```



# Background

The CSS property to change the background color of an element to Yxy 85.8258, 0.3460, 0.4604 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, 135) }
```

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

```
.background{ background-color: rgb(202,  
255, 135) }
```

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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