

# Converting Colors

$Yxy(84.7166, 0.3675, 0.5045)$

Have a look what the booklet for  
Yxy(84.7166, 0.3675, 0.5045)  
contains.

<b>Yxy(84.7166, 0.3675, 0.5045)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(84.7166, 0.3675, 0.5045)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CAFF54
RGB	202, 255, 84
RGB Percent	79%, 100%, 33%
CMY	0.2080, 0.0000, 0.6704
CMYK	0.21, 0.00, 0.67, 0.00
HSL	79°, 100%, 66%
HSV	79°, 67%, 100%
XYZ	61.7113, 84.7166, 21.4940
YIQ	219.6590, 23.3030, -64.4170

# Conversions

## Conversions Part 2

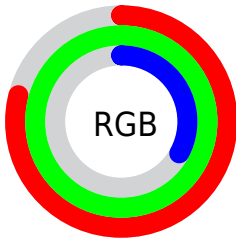
Format	Color
<a href="#">RYB</a>	<a href="#">84, 255, 137</a>
Decimal	<a href="#">13303636</a>
CIELab	<a href="#">93.76, -40.15, 72.79</a>
CIELCh	<a href="#">94, 83.129, 118.880</a>
Yxy	<a href="#">84.7166, 0.3675, 0.5045</a>
Android (android.graphics.Color)	<a href="#">4291493716</a> ( <a href="#">0xFFCAFF54</a> )
YUV	<a href="#">219.6590, -66.8799, -15.4869</a>
Hunter-Lab	<a href="#">92.0416, -41.3936, 50.5834</a>

# Details

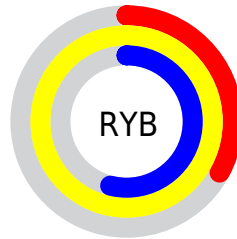
The Yxy color **84.7166, 0.3675, 0.5045** is a light color, and the websafe version is hex **CCFF66**. The color can be described as light muted yellow. A complement of this color would be **18.8917, 0.2146, 0.1285**, and the grayscale version is **71.7777, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.7031, 0.3793, 0.4391**, and **46.3350, 0.3709, 0.5415** is the 20% darker color. If you saturate the color by 10%, you get **83.3074, 0.3694, 0.5234**, and if you desaturate by 10%, it is **86.3191, 0.3631, 0.4815**.

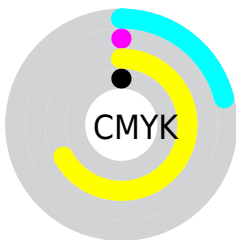
# Distribution



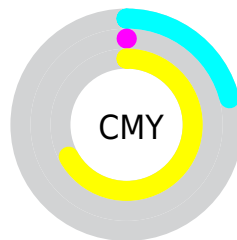
- Red (79%)
- Green (100%)
- Blue (33%)



- Red (33%)
- Yellow (100%)
- Blue (54%)



- Cyan (21%)
- Magenta (0%)
- Yellow (67%)
- Black (0%)




- Cyan (21%)
- Magenta (0%)
- Yellow (67%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 84.7166, 0.3675, 0.5045 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 84.7166, 0.3675, 0.5045 by changing the saturation by 10% instead.




 84.7166, 0.3675,  
0.5045


 84.7166, 0.3675,  
0.5045


510.6898, 0.3493,  
0.4241


 63.6072, 0.3694,  
0.5216


 139.9772, 0.3629,  
0.4774

 46.3326, 0.3706,  
0.5417


 174.8971, 0.3606,  
0.4666

 32.5084, 0.3703,  
0.5655


 215.1895, 0.3584,  
0.4572

 21.7501, 0.3669,  
0.5934

 261.2385, 0.3564,  
0.4490

 13.6734, 0.3606,  
0.6308

313.4287, 0.3544,  
0.4417

 7.8939, 0.3379,  
0.6621

372.1444, 0.3526,

 4.0271, 0.2991,

0.4352

0.7009

437.7699, 0.3509,  
0.4294

■ 1.6887, 0.2169,  
0.7831

■ 0.4164, 0.0000,  
1.0000

■ 84.7166, 0.3675,  
0.5045

■ 84.7166, 0.3675,  
0.5045

■ 83.3074, 0.3694,  
0.5234

■ 86.3191, 0.3631,  
0.4815

■ 82.0870, 0.3688,  
0.5375


■ 88.1428, 0.3566,  
0.4557


■ 81.0290, 0.3657,  
0.5466

■ 90.1967, 0.3485,  
0.4282

■ 80.7376, 0.3646,  
0.5487

■ 92.4929, 0.3393,  
0.4002

 95.0423, 0.3296,  
0.3727

 97.8553, 0.3196,  
0.3465

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



84.7166, 0.4462, 0.4646



84.7166, 0.3675, 0.5045



84.7166, 0.2794, 0.4795

# Triad

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



84.7166, 0.3675, 0.5045



84.7166, 0.1569, 0.2197



84.7166, 0.4218, 0.2731

# Complementary

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



84.7166, 0.3675, 0.5045



18.8917, 0.2146, 0.1285

# 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.



84.7166, 0.3246, 0.2243



84.7166, 0.3675, 0.5045



84.7166, 0.1814, 0.1928

# Square

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



84.7166, 0.3675, 0.5045



84.7166, 0.1638, 0.2845



84.7166, 0.2378, 0.1959



84.7166, 0.4879, 0.3342



# Rectangle

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



84.7166, 0.3675, 0.5045



84.7166, 0.2270, 0.4213



84.7166, 0.2378, 0.1959



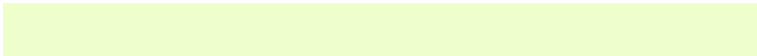
84.7166, 0.3906, 0.2550

# Sweetspot

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



84.7123, 0.3675, 0.5045



94.2615, 0.3325, 0.3808



39.3204, 0.4950, 0.3776



20.0215, 0.3353, 0.3885



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.



84.7123, 0.3675, 0.5045



82.9282, 0.3695, 0.5281



76.0286, 0.3168, 0.5369



20.7915, 0.3221, 0.3528



42.2698, 0.3655, 0.5480



4.1735, 0.3717, 0.5430



# Inverse Universe

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



18.8917, 0.2146, 0.1285



13.1843, 0.1939, 0.0975



28.9089, 0.2874, 0.1630



17.6510, 0.3027, 0.3048



4.7125, 0.1713, 0.0717

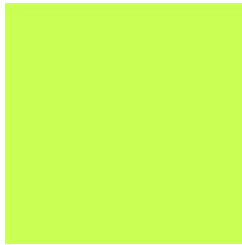


0.5137, 0.1831, 0.0783



# Previews

## White Background



This preview shows how the Yxy color 84.7166, 0.3675, 0.5045 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

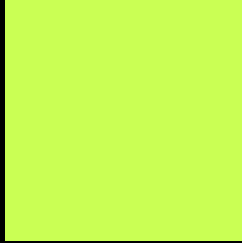
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 84.7166, 0.3675, 0.5045 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 84.7166, 0.3675, 0.5045**

## **Background**



This preview shows how black text looks on a background with the Yxy color 84.7166, 0.3675, 0.5045.

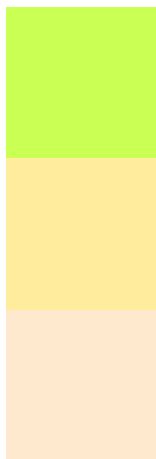


This preview shows how white text looks on a background with the Yxy color 84.7166, 0.3675, 0.5045.

# 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

84.7166, 0.3675, 0.5045

### Protanopia

84.2627, 0.3768, 0.4092

### Deuteranopia

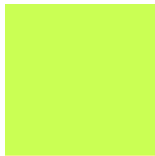
83.9941, 0.3457, 0.3562



## Tritanopia

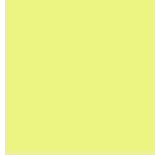
84.2164, 0.2937, 0.3116

# Trichromacy



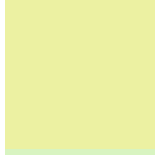
## Original Color

84.7166, 0.3675, 0.5045



## Protanomaly

84.1459, 0.3760, 0.4458



## Deuteranomaly

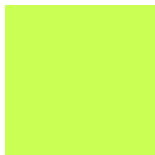
83.3521, 0.3586, 0.4119



## Tritanomaly

83.1506, 0.3251, 0.3845

# Monochromacy



## Original Color

84.7166, 0.3675, 0.5045



## Achromatopsia

71.5694, 0.3127, 0.3290



## Achromatomaly

75.3642, 0.3383, 0.3988

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 84.7166, 0.3675, 0.5045 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, 84)` looks like.

```
.text, #text, p{  
    color:rgb(202, 255, 84)  
}
```

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, 84) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 255, 84) }
```

## Border

The CSS property to change the border of an element to Yxy 84.7166, 0.3675, 0.5045 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, 84) }
```

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

```
.border{ border-color:rgb(202, 255, 84) }
```

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, 84)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 255, 84); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 255, 84);  
box-shadow:4px 4px 4px 4px rgb(202, 255,  
84) }
```



# Background

The CSS property to change the background color of an element to Yxy 84.7166, 0.3675, 0.5045 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, 84) }
```

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

```
.background{ background-color: rgb(202,  
255, 84) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor