

# Converting Colors

$Y_{xy}(100.0000, 0.3658, 0.5199)$

Have a look what the booklet for  
Yxy(100.0000, 0.3658, 0.5199)  
contains.

<b>Yxy(85.4243, 0.3749, 0.5082)</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(85.4243, 0.3749, 0.5082)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D0FF4A
RGB	208, 255, 74
RGB Percent	82%, 100%, 29%
CMY	0.1842, 0.0000, 0.7097
CMYK	0.18, 0.00, 0.71, 0.00
HSL	76°, 100%, 65%
HSV	76°, 71%, 100%
XYZ	63.0177, 85.4243, 19.6499
YIQ	220.3130, 30.0890, -66.2550

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	74, 255, 121
Decimal	13696842
CIELab	94.07, -38.43, 76.75
CIELCh	94, 85.830, 116.599
Yxy	85.4243, 0.3749, 0.5082
Android (android.graphics.Color)	4291886922 (0xFFD0FF4A)
YUV	220.3130, -72.1323, -10.7985
Hunter-Lab	92.4253, -40.0389, 52.0924

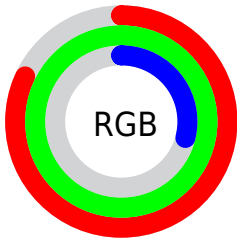
# Details

The Yxy color **85.4243, 0.3749, 0.5082** is a light color, and the websafe version is hex **CCFF33**.

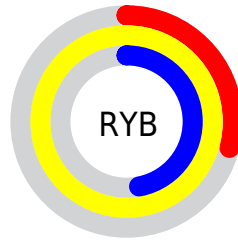
The color can be described as light washed yellow. A complement of this color would be **16.1853, 0.2016, 0.1150**, and the grayscale version is **72.3079, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.4735, 0.3834, 0.4459**, and **46.7777, 0.3760, 0.5397** is the 20% darker color. If you saturate the color by 10%, you get **84.2117, 0.3767, 0.5242**, and if you desaturate by 10%, it is **86.8238, 0.3706, 0.4878**.

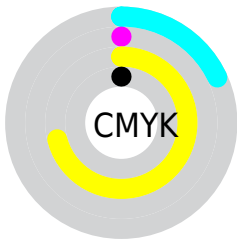
# Distribution



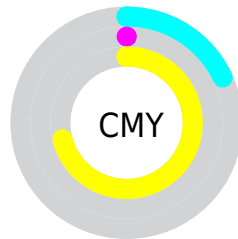
- Red (82%)
- Green (100%)
- Blue (29%)



- Red (29%)
- Yellow (100%)
- Blue (47%)



- Cyan (18%)
- Magenta (0%)
- Yellow (71%)
- Black (0%)




- Cyan (18%)
- Magenta (0%)
- Yellow (71%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 85.4243, 0.3749, 0.5082 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 85.4243, 0.3749, 0.5082 by changing the saturation by 10% instead.





 85.4243, 0.3749,  
0.5082


 85.4243, 0.3749,  
0.5082


513.0310, 0.3542,  
0.4272


 64.1920, 0.3772,  
0.5250

 140.9658, 0.3696,  
0.4812

 46.8062, 0.3786,  
0.5446


 176.0439, 0.3670,  
0.4704


 32.8825, 0.3785,  
0.5674


 216.5060, 0.3645,  
0.4609

 22.0364, 0.3751,  
0.5936

 262.7365, 0.3621,  
0.4525

 13.8837, 0.3699,  
0.6301

 315.1199, 0.3599,  
0.4451

 8.0398, 0.3454,  
0.6546


374.0405, 0.3579,


 4.1204, 0.3088,

0.4385

0.6912


439.8827, 0.3559,  
0.4325


 1.7412, 0.2374,  
0.7626


 0.4501, 0.0000,  
1.0000


 85.4243, 0.3749,  
0.5082


 85.4243, 0.3749,  
0.5082


 84.2117, 0.3767,  
0.5242


 86.8238, 0.3706,  
0.4878


 83.1560, 0.3758,  
0.5354

 88.4141, 0.3639,  
0.4639

 82.3148, 0.3732,  
0.5418

 90.2126, 0.3555,  
0.4377

 92.2315, 0.3457,  
0.4104

 94.4819, 0.3352,  
0.3831

 96.9740, 0.3245,  
0.3565

 99.7173, 0.3137,  
0.3314

 99.9975, 0.3127,  
0.3290

# Harmonies

## Analogous

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



85.4243, 0.4541, 0.4627



85.4243, 0.3749, 0.5082



85.4243, 0.2847, 0.4895

# Triad

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



85.4243, 0.3749, 0.5082



85.4243, 0.1528, 0.2202



85.4243, 0.4179, 0.2672

# Complementary

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



85.4243, 0.3749, 0.5082



16.1853, 0.2016, 0.1150

# 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.



85.4243, 0.3171, 0.2188



85.4243, 0.3749, 0.5082



85.4243, 0.1753, 0.1905

# Square

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



85.4243, 0.3749, 0.5082



85.4243, 0.1621, 0.2896



85.4243, 0.2302, 0.1917



85.4243, 0.4898, 0.3287



# Rectangle

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



85.4243, 0.3749, 0.5082



85.4243, 0.2299, 0.4324



85.4243, 0.2302, 0.1917



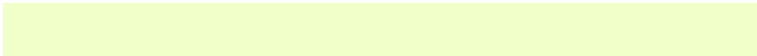
85.4243, 0.3851, 0.2491

# Sweetspot

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



85.4281, 0.3749, 0.5082



94.4776, 0.3353, 0.3832



35.0126, 0.5181, 0.3694



20.0840, 0.3382, 0.3907



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.



85.4281, 0.3749, 0.5082



83.7708, 0.3766, 0.5293



75.9536, 0.3203, 0.5449



20.8397, 0.3229, 0.3528



43.0885, 0.3740, 0.5412



4.2480, 0.3794, 0.5370



# Inverse Universe

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



16.1853, 0.2016, 0.1150



11.0280, 0.1802, 0.0849



25.7871, 0.2767, 0.1518



17.6055, 0.3019, 0.3047



4.4412, 0.1653, 0.0684

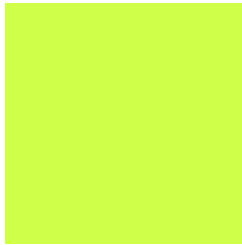


0.4823, 0.1764, 0.0745



# Previews

## White Background



This preview shows how the Yxy color 85.4243, 0.3749, 0.5082 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

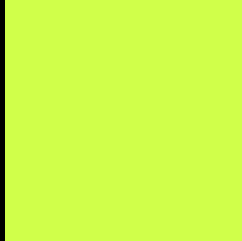
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 85.4243, 0.3749, 0.5082 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

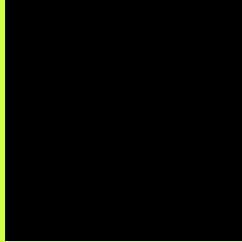
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 85.4243, 0.3749, 0.5082**

## Background



This preview shows how black text looks on a background with the Yxy color 85.4243, 0.3749, 0.5082.

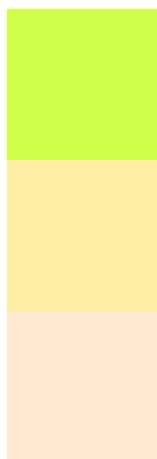


This preview shows how white text looks on a background with the Yxy color 85.4243, 0.3749, 0.5082.

# 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

85.4243, 0.3749, 0.5082

### Protanopia

85.0534, 0.3727, 0.4042

### Deuteranopia

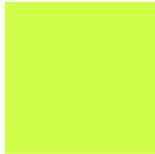
84.7091, 0.3435, 0.3541



## Tritanopia

85.0271, 0.2968, 0.3118

# Trichromacy



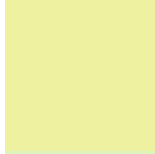
## Original Color

85.4243, 0.3749, 0.5082



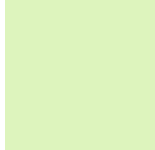
## Protanomaly

84.5172, 0.3769, 0.4443



## Deuteranomaly

84.2195, 0.3610, 0.4144



## Tritanomaly

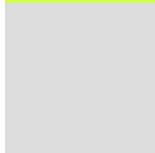
83.7476, 0.3309, 0.3883

# Monochromacy



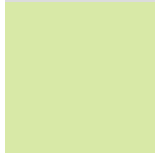
## Original Color

85.4243, 0.3749, 0.5082



## Achromatopsia

71.5694, 0.3127, 0.3290



## Achromatomaly

75.6668, 0.3430, 0.4028

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 85.4243, 0.3749, 0.5082 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(208, 255, 74)` looks like.

```
.text, #text, p{  
    color:rgb(208, 255, 74)  
}
```

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(208, 255, 74) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(208, 255, 74) }
```

## Border

The CSS property to change the border of an element to Yxy 85.4243, 0.3749, 0.5082 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(208, 255, 74) }
```

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

```
.border{ border-color:rgb(208, 255, 74) }
```

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

Here you see how a box with a 4 pixel rgb(208, 255, 74) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(208, 255, 74); -webkit-box-  
shadow:4px 4px 4px 4px rgb(208, 255, 74);  
box-shadow:4px 4px 4px 4px rgb(208, 255,  
74) }
```



# Background

The CSS property to change the background color of an element to Yxy 85.4243, 0.3749, 0.5082 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(208, 255, 74) }
```

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

```
.background{ background-color: rgb(208,  
255, 74) }
```

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