

# Converting Colors

$Y_{xy}(48.2672, 0.3180, 0.5954)$

Have a look what the booklet for  
Yxy(48.2672, 0.3180, 0.5954)  
contains.

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# Color

**Yxy(48.3159, 0.3154, 0.5878)**

# Conversions

## Conversions Part 1

Format	Color
Hex	44D400
RGB	68, 212, 0
RGB Percent	27%, 83%, 0%
CMY	0.7335, 0.1686, 1.0000
CMYK	0.68, 0.00, 1.00, 0.17
HSL	101°, 100%, 42%
HSV	101°, 100%, 83%
XYZ	25.9252, 48.3159, 7.9568
YIQ	144.7760, -17.7720, -96.4600

# Conversions

## Conversions Part 2

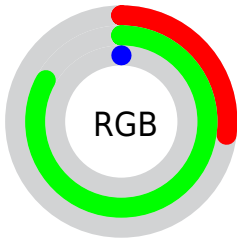
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 212, 144
Decimal	4510720
CIELab	75.02, -68.08, 73.32
CIELCh	75, 100.055, 132.877
Yxy	48.3159, 0.3154, 0.5878
Android (android.graphics.Color)	4282700800 (0xFF44D400)
YUV	144.7760, -71.3746, -67.3326
Hunter-Lab	69.5096, -55.0662, 41.8698

# Details

The Yxy color **48.3159, 0.3154, 0.5878** is a dark color, and the websafe version is hex **33CC00**. The color can be described as dark washed green. A complement of this color would be **10.6868, 0.2407, 0.1099**, and the grayscale version is **28.5178, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.3788, 0.3264, 0.5319**, and **23.7769, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **48.3181, 0.3154, 0.5878**, and if you desaturate by 10%, it is **48.9557, 0.3204, 0.5767**.

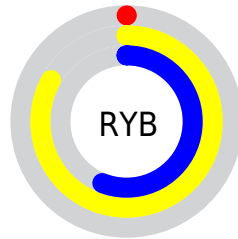
# Distribution



Red (27%)

Green (83%)

Blue (0%)



Red (0%)

Yellow (83%)

Blue (56%)

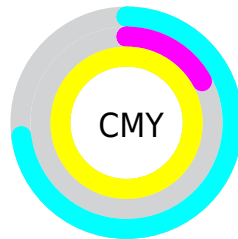


Cyan (68%)

Magenta (0%)

Yellow (100%)

Black (17%)



Cyan (73%)

Magenta (17%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.3159, 0.3154, 0.5878 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 48.3159, 0.3154, 0.5878 by changing the saturation by 10% instead.





 48.3159, 0.3154,  
0.5878


 48.3159, 0.3154,  
0.5878


380.0429, 0.3270,  
0.4524


 34.0771, 0.3075,  
0.6201


 87.6746, 0.3233,  
0.5389

 22.9529, 0.2946,  
0.6591


 113.5632, 0.3251,  
0.5203

 14.5587, 0.2749,  
0.7104


 144.1040, 0.3262,  
0.5045

 8.5103, 0.2383,  
0.7617

 179.6812, 0.3268,  
0.4910

 4.4232, 0.1810,  
0.8190

 220.6794, 0.3271,  
0.4794

 1.9130, 0.0000,  
1.0000

 267.4827, 0.3272,

 0.5562, 0.0000,

0.4692

1.0000

320.4758, 0.3271,  
0.4603

■ 0.0000, 0.0000,  
0.0000

■ 48.3159, 0.3154,  
0.5878

■ 48.3159, 0.3154,  
0.5878

■ 48.3181, 0.3154,  
0.5878

■ 48.9557, 0.3204,  
0.5767

■ 49.7894, 0.3245,  
0.5595

■ 50.8471, 0.3272,  
0.5361

■ 52.1470, 0.3283,  
0.5077

■ 53.7053, 0.3279,  
0.4764

■ 55.5364, 0.3262,  
0.4441

■ 57.6536, 0.3236,  
0.4123

■ 60.0694, 0.3203,  
0.3822

■ 62.7953, 0.3166,  
0.3543

# Harmonies

## Analogous

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



48.3159, 0.4295, 0.5387



48.3159, 0.3154, 0.5878



48.3159, 0.2061, 0.5013

# Triad

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



48.3159, 0.3154, 0.5878



48.3159, 0.1196, 0.1590



48.3159, 0.5230, 0.2827

# Complementary

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



48.3159, 0.3154, 0.5878



10.6868, 0.2407, 0.1099

# 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.



48.3159, 0.3930, 0.2149



48.3159, 0.3154, 0.5878



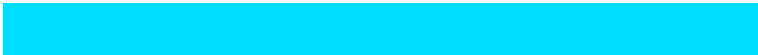
48.3159, 0.1659, 0.1478

# Square

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



48.3159, 0.3154, 0.5878



48.3159, 0.1082, 0.2118



48.3159, 0.2571, 0.1674



48.3159, 0.5702, 0.3588

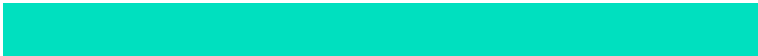


# Rectangle

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



48.3159, 0.3154, 0.5878



48.3159, 0.1519, 0.3861



48.3159, 0.2571, 0.1674



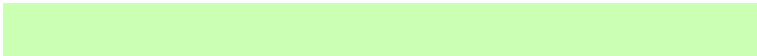
48.3159, 0.4857, 0.2587

# Sweetspot

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



48.3181, 0.3154, 0.5878



87.4544, 0.3237, 0.4133



33.1476, 0.4941, 0.4459



18.4153, 0.3249, 0.4267



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.



48.3181, 0.3154, 0.5878



73.3026, 0.3147, 0.5883



47.2137, 0.2962, 0.5862



14.0873, 0.3164, 0.3528



29.8750, 0.3163, 0.5870



1.8459, 0.3298, 0.5764



# Inverse Universe

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



10.6868, 0.2407, 0.1099



16.1329, 0.2399, 0.1095



17.1593, 0.3686, 0.1804



12.4239, 0.3087, 0.3057



6.6529, 0.2418, 0.1106

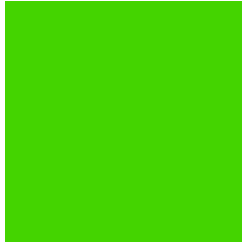


0.4449, 0.2558, 0.1183



# Previews

## White Background



This preview shows how the Yxy color 48.3159, 0.3154, 0.5878 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 48.3159, 0.3154, 0.5878 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

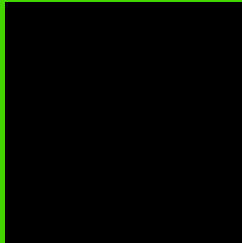
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

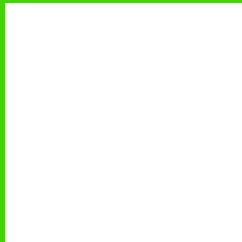
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.3159, 0.3154, 0.5878**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.3159, 0.3154, 0.5878.



This preview shows how white text looks on a background with the Yxy color 48.3159, 0.3154, 0.5878.

# 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

48.3159, 0.3154, 0.5878

### Protanopia

47.5464, 0.4405, 0.4885

### Deuteranopia

47.2846, 0.4612, 0.4521



## Tritanopia

47.9878, 0.2447, 0.3067

# Trichromacy



## Original Color

48.3159, 0.3154, 0.5878



## Protanomaly

45.6515, 0.3850, 0.5325



## Deuteranomaly

44.7131, 0.3993, 0.5101



## Tritanomaly

46.3983, 0.2814, 0.4327

# Monochromacy



## Original Color

48.3159, 0.3154, 0.5878



## Achromatopsia

28.3149, 0.3127, 0.3290



## Achromatomaly

32.9305, 0.3275, 0.4597

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.3159, 0.3154, 0.5878 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(68, 212, 0)` looks like.

```
.text, #text, p{  
    color:rgb(68, 212, 0)  
}
```

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(68, 212, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 212, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 48.3159, 0.3154, 0.5878 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(68, 212, 0) }
```

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

```
.border{ border-color:rgb(68, 212, 0) }
```

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

Here you see how a box with a 4 pixel rgb(68, 212, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 212, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 212, 0);  
box-shadow:4px 4px 4px 4px rgb(68, 212, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 48.3159, 0.3154, 0.5878 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 212, 0) }
```

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

```
.background{ background-color: rgb(68, 212,  
0) }
```

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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