

# Converting Colors

$Y_{xy}(51.8255, 0.3736, 0.4837)$

Have a look what the booklet for  
Yxy(51.8255, 0.3736, 0.4837)  
contains.

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# Color

**Yxy(51.8042, 0.3734, 0.4838)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AECA4F
RGB	174, 202, 79
RGB Percent	68%, 79%, 31%
CMY	0.3178, 0.2078, 0.6901
CMYK	0.14, 0.00, 0.61, 0.21
HSL	74°, 54%, 55%
HSV	74°, 61%, 79%
XYZ	39.9828, 51.8042, 15.2907
YIQ	179.6060, 22.7950, -44.1890

# Conversions

## Conversions Part 2

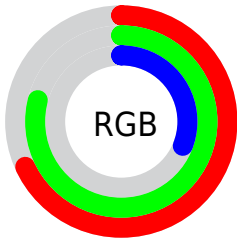
<b>Format</b>	<b>Color</b>
<b>RYB</b>	79, 202, 107
Decimal	11455055
CIELab	77.16, -26.93, 56.67
CIELCh	77, 62.742, 115.414
Yxy	51.8042, 0.3734, 0.4838
Android (android.graphics.Color)	4289645135 (0xFFAECA4F)
YUV	179.6060, -49.5988, -4.9165
Hunter-Lab	71.9751, -26.7982, 37.7868

# Details

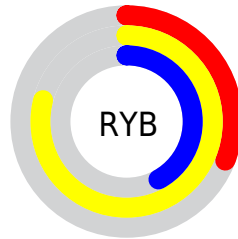
The Yxy color **51.8042, 0.3734, 0.4838** is a dark color, and the websafe version is hex **99CC66**. The color can be described as middle muted chartreuse. A complement of this color would be **12.9877, 0.2173, 0.1445**, and the grayscale version is **45.6803, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.3693, 0.3674, 0.4532**, and **25.1523, 0.3815, 0.5237** is the 20% darker color. If you saturate the color by 10%, you get **51.0358, 0.3785, 0.5037**, and if you desaturate by 10%, it is **52.6847, 0.3661, 0.4606**.

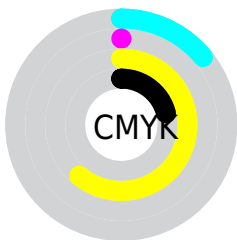
# Distribution



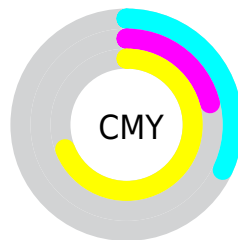
- Red (68%)
- Green (79%)
- Blue (31%)



- Red (31%)
- Yellow (79%)
- Blue (42%)



- Cyan (14%)
- Magenta (0%)
- Yellow (61%)
- Black (21%)




- Cyan (32%)
- Magenta (21%)
- Yellow (69%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 51.8042, 0.3734, 0.4838 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 51.8042, 0.3734, 0.4838 by changing the saturation by 10% instead.





 51.8042, 0.3734,  
0.4838


 51.8042, 0.3734,  
0.4838

393.6802, 0.3484,  
0.4068


 36.8490, 0.3773,  
0.5018


 92.8424, 0.3659,  
0.4565

 25.0906, 0.3809,  
0.5238


 119.6942, 0.3626,  
0.4460


 16.1446, 0.3830,  
0.5508


 151.2804, 0.3596,  
0.4370

 9.6265, 0.3827,  
0.5858

 187.9853, 0.3569,  
0.4293

 5.1520, 0.3729,  
0.6271

 230.1934, 0.3545,  
0.4226

 2.3367, 0.3369,  
0.6631

278.2889, 0.3523,

 0.7931, 0.1084,

0.4167

0.8916

332.6564, 0.3503,  
0.4115

■ 0.0000, 0.0000,  
0.0000

■ 51.8042, 0.3734,  
0.4838

■ 51.8042, 0.3734,  
0.4838

■ 51.0358, 0.3785,  
0.5037

■ 52.6847, 0.3661,  
0.4606

■ 50.3641, 0.3810,  
0.5194

■ 53.6780, 0.3571,  
0.4352

■ 49.7811, 0.3810,  
0.5304

■ 54.7930, 0.3469,  
0.4086

■ 49.3102, 0.3793,  
0.5370

■ 56.0359, 0.3360,  
0.3819

■ 57.4126, 0.3248,  
0.3559

■ 58.9282, 0.3137,  
0.3311

■ 60.5878, 0.3030,  
0.3079

■ 62.3962, 0.2928,  
0.2865

■ 63.9771, 0.2868,  
0.2726

# Harmonies

## Analogous

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



51.8042, 0.4415, 0.4475



51.8042, 0.3734, 0.4838



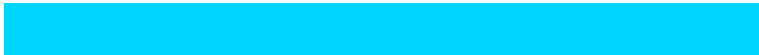
51.8042, 0.2936, 0.4668

# Triad

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



51.8042, 0.3734, 0.4838



51.8042, 0.1700, 0.2363



51.8042, 0.4008, 0.2731

# Complementary

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



51.8042, 0.3734, 0.4838



12.9877, 0.2173, 0.1445

# 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.



51.8042, 0.3140, 0.2298



51.8042, 0.3734, 0.4838



51.8042, 0.1893, 0.2068

# Square

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



51.8042, 0.3734, 0.4838



51.8042, 0.1805, 0.2998



51.8042, 0.2381, 0.2062



51.8042, 0.4645, 0.3289



# Rectangle

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



51.8042, 0.3734, 0.4838



51.8042, 0.2443, 0.4203



51.8042, 0.2381, 0.2062



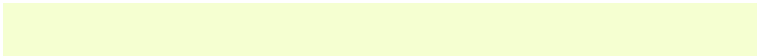
51.8042, 0.3725, 0.2569

# Sweetspot

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



51.8065, 0.3734, 0.4838



95.4575, 0.3330, 0.3750



23.3615, 0.4787, 0.3620



20.2903, 0.3363, 0.3827



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.



51.8065, 0.3734, 0.4838



86.0286, 0.3795, 0.5090



46.3794, 0.3250, 0.5117



12.9628, 0.3231, 0.3521



31.7679, 0.3798, 0.5366



1.6713, 0.3879, 0.5302



# Inverse Universe

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



12.9877, 0.2173, 0.1445



14.8560, 0.1944, 0.1079



18.0917, 0.2794, 0.1717



10.9653, 0.3017, 0.3053



3.1520, 0.1629, 0.0671



0.1978, 0.1831, 0.0782



# Previews

## White Background



This preview shows how the Yxy color 51.8042, 0.3734, 0.4838 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 51.8042, 0.3734, 0.4838 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 51.8042, 0.3734, 0.4838**

## **Background**



This preview shows how black text looks on a background with the Yxy color 51.8042, 0.3734, 0.4838.



This preview shows how white text looks on a background with the Yxy color 51.8042, 0.3734, 0.4838.

# 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

51.8042, 0.3734, 0.4838

### Protanopia

51.3458, 0.4166, 0.4564

### Deuteranopia

51.3658, 0.4386, 0.4297



## Tritanopia

51.4462, 0.3007, 0.3105

# Trichromacy



**Original Color**

51.8042, 0.3734, 0.4838

**Protanomaly**

51.1252, 0.4007, 0.4664

**Deuteranomaly**

51.1659, 0.4143, 0.4491

**Tritanomaly**

51.1541, 0.3302, 0.3747

# Monochromacy



**Original Color**

51.8042, 0.3734, 0.4838

**Achromatopsia**

45.6411, 0.3127, 0.3290

**Achromatomaly**

47.4146, 0.3394, 0.3897

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  51.8042, 0.3734, 0.4838 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(174, 202, 79)` looks like.

```
.text, #text, p{  
    color:rgb(174, 202, 79)  
}
```

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(174, 202, 79) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(174, 202, 79) }
```

## Border

The CSS property to change the border of an element to Yxy 51.8042, 0.3734, 0.4838 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(174, 202, 79) }
```

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

```
.border{ border-color:rgb(174, 202, 79) }
```

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

Here you see how a box with a 4 pixel `rgb(174, 202, 79)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(174, 202, 79); -webkit-box-  
shadow:4px 4px 4px 4px rgb(174, 202, 79);  
box-shadow:4px 4px 4px 4px rgb(174, 202,  
79) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.8042, 0.3734, 0.4838 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(174, 202, 79) }
```

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

```
.background{ background-color: rgb(174,  
202, 79) }
```

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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