

# Converting Colors

$Y_{xy}(48.6893, 0.3754, 0.5365)$

Have a look what the booklet for  
Yxy(48.6893, 0.3754, 0.5365)  
contains.

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# Color

**Yxy(48.4777, 0.3754, 0.5366)**

# Conversions

## Conversions Part 1

Format	Color
Hex	98C90D
RGB	152, 201, 13
RGB Percent	60%, 79%, 5%
CMY	0.4037, 0.2118, 0.9490
CMYK	0.24, 0.00, 0.94, 0.21
HSL	76°, 88%, 42%
HSV	76°, 94%, 79%
XYZ	33.9145, 48.4777, 7.9501
YIQ	164.9170, 31.1440, -68.8560

# Conversions

## Conversions Part 2

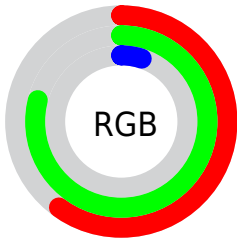
<b>Format</b>	<b>Color</b>
<b>RYB</b>	13, 201, 62
Decimal	10012941
CIELab	75.13, -38.14, 73.52
CIELCh	75, 82.825, 117.421
Yxy	48.4777, 0.3754, 0.5366
Android (android.graphics.Color)	4288203021 (0xFF98C90D)
YUV	164.9170, -74.8951, -11.3282
Hunter-Lab	69.6259, -34.8987, 41.9682

# Details

The Yxy color **48.4777, 0.3754, 0.5366** is a dark color, and the websafe version is hex **99CC00**. The color can be described as dark washed chartreuse. A complement of this color would be **5.5278, 0.1716, 0.0748**, and the grayscale version is **37.9458, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.8935, 0.3724, 0.4996**, and **23.3003, 0.3595, 0.5528** is the 20% darker color. If you saturate the color by 10%, you get **48.1284, 0.3737, 0.5415**, and if you desaturate by 10%, it is **49.0776, 0.3766, 0.5262**.

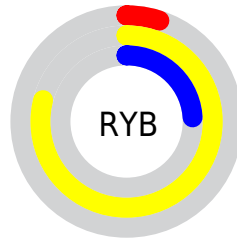
# Distribution



Red (60%)

Green (79%)

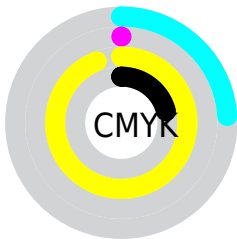
Blue (5%)



Red (5%)

Yellow (79%)

Blue (24%)

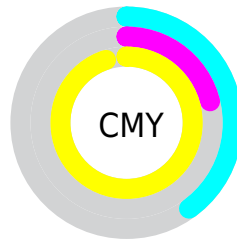


Cyan (24%)

Magenta (0%)

Yellow (94%)

Black (21%)



Cyan (40%)

Magenta (21%)

Yellow (95%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.4777, 0.3754, 0.5366 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 48.4777, 0.3754, 0.5366 by changing the saturation by 10% instead.





 48.4777, 0.3754,  
0.5366


 48.4777, 0.3754,  
0.5366


380.6825, 0.3549,  
0.4339


 34.2053, 0.3758,  
0.5592


 87.9152, 0.3713,  
0.5010


 23.0514, 0.3736,  
0.5855


 113.8492, 0.3687,  
0.4870


 14.6315, 0.3681,  
0.6192


 144.4391, 0.3661,  
0.4750

 8.5611, 0.3496,  
0.6504

 180.0695, 0.3636,  
0.4645

 4.4561, 0.3148,  
0.6852

 221.1246, 0.3612,  
0.4554

 1.9318, 0.2548,  
0.7452

 267.9888, 0.3589,

 0.5674, 0.0000,

0.4474

1.0000

321.0467, 0.3568,  
0.4403

■ 0.0000, 0.0000,  
0.0000

■ 48.4777, 0.3754,  
0.5366

■ 48.4777, 0.3754,  
0.5366

■ 48.1284, 0.3737,  
0.5415

■ 49.0776, 0.3766,  
0.5262

■ 49.7652, 0.3752,  
0.5111

■ 50.5532, 0.3714,  
0.4915

■ 51.4506, 0.3652,  
0.4685

■ 52.4651, 0.3572,  
0.4430

■ 53.6036, 0.3478,  
0.4162

■ 54.8725, 0.3376,  
0.3892

■ 56.2776, 0.3270,  
0.3627

■ 57.8244, 0.3164,  
0.3375

# Harmonies

## Analogous

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



48.4777, 0.4671, 0.4777



48.4777, 0.3754, 0.5366



48.4777, 0.2741, 0.5186

# Triad

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



48.4777, 0.3754, 0.5366



48.4777, 0.1340, 0.2023



48.4777, 0.4375, 0.2594

# Complementary

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



48.4777, 0.3754, 0.5366



5.5278, 0.1716, 0.0748

# 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.



48.4777, 0.3197, 0.2059



48.4777, 0.3754, 0.5366



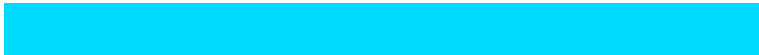
48.4777, 0.1593, 0.1725

# Square

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



48.4777, 0.3754, 0.5366



48.4777, 0.1418, 0.2777



48.4777, 0.2202, 0.1755



48.4777, 0.5192, 0.3265

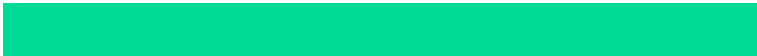


# Rectangle

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



48.4777, 0.3754, 0.5366



48.4777, 0.2134, 0.4482



48.4777, 0.2202, 0.1755



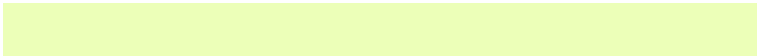
48.4777, 0.3991, 0.2395

# Sweetspot

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



48.4799, 0.3754, 0.5366



92.8667, 0.3426, 0.4023



15.6784, 0.5925, 0.3604



19.6782, 0.3471, 0.4141



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.



48.4799, 0.3754, 0.5366



82.2877, 0.3731, 0.5420



42.7610, 0.3126, 0.5856



12.2727, 0.3226, 0.3521



30.3091, 0.3744, 0.5409



1.4686, 0.3842, 0.5332



# Inverse Universe

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



5.5278, 0.1716, 0.0748



8.3922, 0.1641, 0.0677



11.3749, 0.2622, 0.1242



10.4188, 0.3023, 0.3054



3.1543, 0.1664, 0.0690



0.1855, 0.1892, 0.0816



# Previews

## White Background



This preview shows how the Yxy color 48.4777, 0.3754, 0.5366 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 48.4777, 0.3754, 0.5366 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

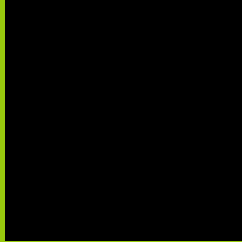
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.4777, 0.3754, 0.5366**

## Background



This preview shows how black text looks on a background with the Yxy color 48.4777, 0.3754, 0.5366.



This preview shows how white text looks on a background with the Yxy color 48.4777, 0.3754, 0.5366.

# 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

48.4777, 0.3754, 0.5366

### Protanopia

48.1078, 0.4404, 0.4886

### Deuteranopia

47.9622, 0.4641, 0.4545



## Tritanopia

48.3510, 0.2882, 0.3096

# Trichromacy



**Original Color**

48.4777, 0.3754, 0.5366

**Protanomaly**

47.9639, 0.4161, 0.5066

**Deuteranomaly**

47.0712, 0.4322, 0.4844

**Tritanomaly**

47.1793, 0.3331, 0.4115

# Monochromacy



**Original Color**

48.4777, 0.3754, 0.5366

**Achromatopsia**

37.6262, 0.3127, 0.3290

**Achromatomaly**

40.4402, 0.3517, 0.4280

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.4777, 0.3754, 0.5366 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(152, 201, 13)` looks like.

```
.text, #text, p{  
    color:rgb(152, 201, 13)  
}
```

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(152, 201, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(152, 201, 13) }
```

## Border

The CSS property to change the border of an element to Yxy 48.4777, 0.3754, 0.5366 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(152, 201, 13) }
```

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

```
.border{ border-color:rgb(152, 201, 13) }
```

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

Here you see how a box with a 4 pixel `rgb(152, 201, 13)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(152, 201, 13); -webkit-box-  
shadow:4px 4px 4px 4px rgb(152, 201, 13);  
box-shadow:4px 4px 4px 4px rgb(152, 201,  
13) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.4777, 0.3754, 0.5366 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(152, 201, 13) }
```

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

```
.background{ background-color: rgb(152,  
201, 13) }
```

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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