

# Converting Colors

$Y_{xy}(48.1799, 0.4017, 0.4860)$

Have a look what the booklet for  
Yxy(48.1799, 0.4017, 0.4860)  
contains.

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# Color

**Yxy(48.1218, 0.4025, 0.4859)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BBBF39
RGB	187, 191, 57
RGB Percent	73%, 75%, 22%
CMY	0.2667, 0.2510, 0.7766
CMYK	0.02, 0.00, 0.70, 0.25
HSL	62°, 54%, 49%
HSV	62°, 70%, 75%
XYZ	39.8622, 48.1218, 11.0525
YIQ	174.5280, 40.6300, -42.5220

# Conversions

## Conversions Part 2

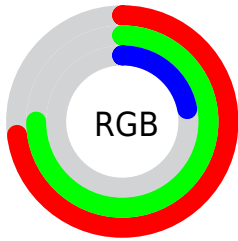
Format	Color
<a href="#">RYB</a>	<a href="#">57, 191, 61</a>
Decimal	<a href="#">12304185</a>
CIELab	<a href="#">74.90, -17.55, 63.43</a>
CIELCh	<a href="#">75, 65.815, 105.469</a>
Yxy	<a href="#">48.1218, 0.4025, 0.4859</a>
Android (android.graphics.Color)	<a href="#">4290494265 (0xFFBBBF39)</a>
YUV	<a href="#">174.5280, -57.9413, 10.9379</a>
Hunter-Lab	<a href="#">69.3699, -18.8254, 39.1124</a>

# Details

The Yxy color **48.1218, 0.4025, 0.4859** is a dark color, and the websafe version is hex **CCCC33**. A complement of this color would be **7.6751, 0.1812, 0.1088**, and the grayscale version is **42.9013, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.2842, 0.3910, 0.4600**, and **22.9228, 0.4095, 0.5131** is the 20% darker color. If you saturate the color by 10%, you get **47.8962, 0.4088, 0.4978**, and if you desaturate by 10%, it is **48.4238, 0.3937, 0.4699**.

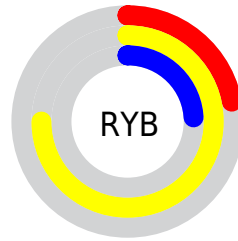
# Distribution



Red (73%)

Green (75%)

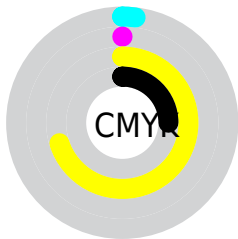
Blue (22%)



Red (22%)

Yellow (75%)

Blue (24%)

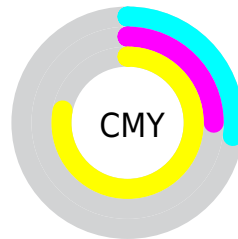


Cyan (2%)

Magenta (0%)

Yellow (70%)

Black (25%)



Cyan (27%)

Magenta (25%)


Yellow (78%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.1218, 0.4025, 0.4859 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 48.1218, 0.4025, 0.4859 by changing the saturation by 10% instead.



 48.1218, 0.4025,  
0.4859


 48.1218, 0.4025,  
0.4859


379.2747, 0.3641,  
0.4101

 33.9234, 0.4090,  
0.5024


 87.3857, 0.3907,  
0.4599


 22.8347, 0.4152,  
0.5216


 113.2200, 0.3856,  
0.4496

 14.4715, 0.4197,  
0.5435


 143.7017, 0.3810,  
0.4407

 8.4493, 0.4253,  
0.5747

 179.2151, 0.3769,  
0.4330

 4.3838, 0.4096,  
0.5904

 220.1447, 0.3732,  
0.4262

 1.8905, 0.3835,  
0.6165

266.8750, 0.3698,

 0.5426, 0.1385,

0.4202

0.8615

319.7901, 0.3668,  
0.4149

0.0000, 0.0000,  
0.0000

48.1218, 0.4025,  
0.4859

48.1218, 0.4025,  
0.4859

47.8962, 0.4088,  
0.4978

48.4238, 0.3937,  
0.4699

47.7318, 0.4125,  
0.5053

48.8027, 0.3827,  
0.4503

47.6156, 0.4141,  
0.5094

49.2671, 0.3700,  
0.4279

49.8227, 0.3562,  
0.4038

50.4747, 0.3417,  
0.3788

■ 51.2279, 0.3272,  
0.3538

■ 52.0867, 0.3130,  
0.3294

■ 53.0555, 0.2994,  
0.3062

■ 54.1381, 0.2866,  
0.2845

# Harmonies

## Analogous

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



48.1218, 0.4670, 0.4341



48.1218, 0.4025, 0.4859



48.1218, 0.3193, 0.4925

# Triad

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



48.1218, 0.4025, 0.4859



48.1218, 0.1615, 0.2475



48.1218, 0.3768, 0.2523

# Complementary

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



48.1218, 0.4025, 0.4859



7.6751, 0.1812, 0.1088

# 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.



48.1218, 0.2841, 0.2129



48.1218, 0.4025, 0.4859



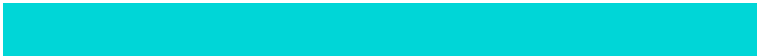
48.1218, 0.1717, 0.2056

# Square

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



48.1218, 0.4025, 0.4859



48.1218, 0.1831, 0.3271



48.1218, 0.2125, 0.1960



48.1218, 0.4583, 0.3074



# Rectangle

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



48.1218, 0.4025, 0.4859



48.1218, 0.2638, 0.4565



48.1218, 0.2125, 0.1960



48.1218, 0.3451, 0.2370

# Sweetspot

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



48.1240, 0.4025, 0.4859



90.2507, 0.3434, 0.3817



14.5200, 0.5442, 0.3320



19.7439, 0.3475, 0.3887



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



48.1240, 0.4025, 0.4859



85.6119, 0.4110, 0.5022



41.6784, 0.3441, 0.5242



11.1056, 0.3260, 0.3517



31.2968, 0.4142, 0.5093



1.2305, 0.4155, 0.5083



# Inverse Universe

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



7.6751, 0.1812, 0.1088



8.8020, 0.1606, 0.0756



11.1362, 0.2406, 0.1374



9.2386, 0.2988, 0.3053



2.5026, 0.1511, 0.0606



0.1027, 0.1554, 0.0630



# Previews

## White Background



This preview shows how the Yxy color 48.1218, 0.4025, 0.4859 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 48.1218, 0.4025, 0.4859 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 48.1218, 0.4025, 0.4859**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.1218, 0.4025, 0.4859.



This preview shows how white text looks on a background with the Yxy color 48.1218, 0.4025, 0.4859.

# 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

48.1218, 0.4025, 0.4859

### Protanopia

48.0956, 0.4256, 0.4706

### Deuteranopia

47.8418, 0.4521, 0.4427



## Tritanopia

47.7887, 0.3196, 0.3118

# Trichromacy



## Original Color

48.1218, 0.4025, 0.4859

## Protanomaly

47.9683, 0.4171, 0.4759

## Deuteranomaly

47.6808, 0.4335, 0.4584

## Tritanomaly

47.4522, 0.3562, 0.3807

# Monochromacy



## Original Color

48.1218, 0.4025, 0.4859

## Achromatopsia

42.8690, 0.3127, 0.3290

## Achromatomaly

44.2974, 0.3511, 0.3959

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.1218, 0.4025, 0.4859 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(187, 191, 57)` looks like.

```
.text, #text, p{  
    color:rgb(187, 191, 57)  
}
```

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(187, 191, 57) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 191, 57) }
```

## Border

The CSS property to change the border of an element to Yxy 48.1218, 0.4025, 0.4859 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(187, 191, 57) }
```

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

```
.border{ border-color:rgb(187, 191, 57) }
```

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

Here you see how a box with a 4 pixel `rgb(187, 191, 57)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 191, 57); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 191, 57);  
box-shadow:4px 4px 4px 4px rgb(187, 191,  
57) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.1218, 0.4025, 0.4859 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 191, 57) }
```

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

```
.background{ background-color: rgb(187,  
191, 57) }
```

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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