

# Converting Colors

$Y_{xy}(48.1445, 0.4028, 0.4780)$

Have a look what the booklet for  
Yxy(48.1445, 0.4028, 0.4780)  
contains.

<b>Yxy(48.1442, 0.4028, 0.4780)</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(48.1442, 0.4028, 0.4780)**

# Conversions

## Conversions Part 1

Format	Color
Hex	<b>BEBE40</b>
RGB	190, 190, 64
RGB Percent	75%, 75%, 25%
CMY	0.2550, 0.2549, 0.7490
CMYK	0.00, 0.00, 0.66, 0.25
HSL	60°, 50%, 50%
HSV	60°, 66%, 75%
XYZ	40.5700, 48.1442, 12.0058
YIQ	175.6360, 40.4460, -39.1860

# Conversions

## Conversions Part 2

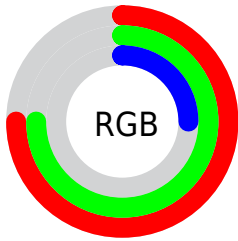
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	64, 190, 64
Decimal	12500544
CIELab	74.92, -15.41, 60.85
CIELCh	75, 62.768, 104.214
Yxy	48.1442, 0.4028, 0.4780
Android (android.graphics.Color)	4290690624 (0xFFBEBE40)
YUV	175.6360, -55.0365, 12.5972
Hunter-Lab	69.3860, -17.0565, 38.3113

# Details

The Yxy color **48.1442, 0.4028, 0.4780** is a dark color, and the websafe version is hex **CCCC33**. A complement of this color would be **8.4776, 0.1856, 0.1188**, and the grayscale version is **43.4928, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.3593, 0.3908, 0.4534**, and **22.8779, 0.4144, 0.5092** is the 20% darker color. If you saturate the color by 10%, you get **47.9650, 0.4106, 0.4909**, and if you desaturate by 10%, it is **48.4015, 0.3926, 0.4611**.

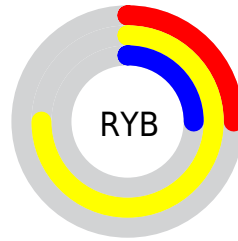
# Distribution



Red (75%)

Green (75%)

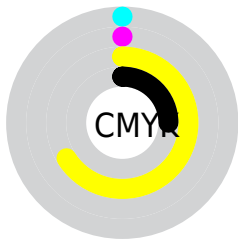
Blue (25%)



Red (25%)

Yellow (75%)

Blue (25%)

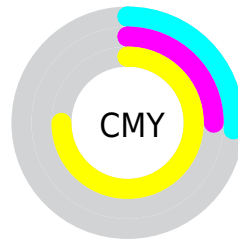


Cyan (0%)

Magenta (0%)

Yellow (66%)

Black (25%)



Cyan (26%)

Magenta (25%)

Yellow (75%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.1442, 0.4028, 0.4780 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 48.1442, 0.4028, 0.4780 by changing the saturation by 10% instead.





 48.1442, 0.4028,  
0.4780

 48.1442, 0.4028,  
0.4780


379.3634, 0.3635,  
0.4060

 33.9411, 0.4098,  
0.4938


 87.4191, 0.3904,  
0.4532


 22.8484, 0.4169,  
0.5123


 113.2596, 0.3852,  
0.4434


 14.4816, 0.4231,  
0.5337


 143.7481, 0.3805,  
0.4350

 8.4564, 0.4331,  
0.5669

 179.2689, 0.3763,  
0.4276

 4.3883, 0.4194,  
0.5806

 220.2065, 0.3725,  
0.4212

 1.8931, 0.3966,  
0.6034

266.9451, 0.3692,

 0.5442, 0.2058,

0.4155

0.7942

319.8693, 0.3662,  
0.4105

0.0000, 0.0000,  
0.0000

48.1442, 0.4028,  
0.4780

48.1442, 0.4028,  
0.4780

47.9650, 0.4106,  
0.4909

48.4015, 0.3926,  
0.4611

47.8494, 0.4158,  
0.4995

48.7370, 0.3803,  
0.4409

47.7895, 0.4185,  
0.5041

49.1590, 0.3666,  
0.4181

47.7739, 0.4193,  
0.5053

49.6727, 0.3519,  
0.3938

50.2833, 0.3369,  
0.3689

■ 50.9952, 0.3219,  
0.3442

■ 51.8129, 0.3075,  
0.3203

■ 52.7404, 0.2937,  
0.2976

■ 53.7815, 0.2809,  
0.2764

# Harmonies

## Analogous

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



48.1442, 0.4630, 0.4286



48.1442, 0.4028, 0.4780



48.1442, 0.3233, 0.4852

# Triad

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



48.1442, 0.4028, 0.4780



48.1442, 0.1674, 0.2539



48.1442, 0.3703, 0.2534

# Complementary

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



48.1442, 0.4028, 0.4780



8.4776, 0.1856, 0.1188

# 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.



48.1442, 0.2822, 0.2161



48.1442, 0.4028, 0.4780



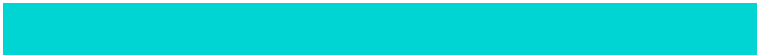
48.1442, 0.1759, 0.2116

# Square

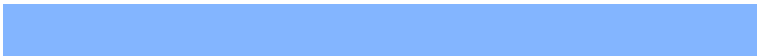
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



48.1442, 0.4028, 0.4780



48.1442, 0.1900, 0.3316



48.1442, 0.2143, 0.2008



48.1442, 0.4490, 0.3064



# Rectangle

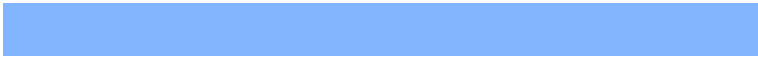
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.1442, 0.4028, 0.4780



48.1442, 0.2697, 0.4527



48.1442, 0.2143, 0.2008



48.1442, 0.3401, 0.2389

# Sweetspot

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



48.1464, 0.4028, 0.4780



90.6429, 0.3429, 0.3790



14.9868, 0.5278, 0.3296



19.8357, 0.3472, 0.3860



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.



48.1464, 0.4028, 0.4780



86.7895, 0.4135, 0.4957



41.7151, 0.3459, 0.5135



11.1204, 0.3264, 0.3517



31.7627, 0.4193, 0.5053



1.2442, 0.4193, 0.5053



# Inverse Universe

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



8.4776, 0.1856, 0.1188



9.6393, 0.1631, 0.0817



11.8990, 0.2432, 0.1455



9.2255, 0.2984, 0.3053



2.4723, 0.1500, 0.0600



0.0969, 0.1501, 0.0600



# Previews

## White Background



This preview shows how the Yxy color 48.1442, 0.4028, 0.4780 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

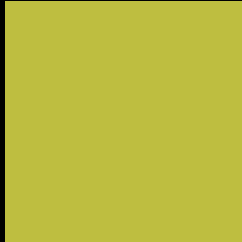
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.1442, 0.4028, 0.4780 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 48.1442, 0.4028, 0.4780**

## Background



This preview shows how black text looks on a background with the Yxy color 48.1442, 0.4028, 0.4780.



This preview shows how white text looks on a background with the Yxy color 48.1442, 0.4028, 0.4780.

# 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

48.1442, 0.4028, 0.4780

### Protanopia

48.1786, 0.4219, 0.4651

### Deuteranopia

47.9126, 0.4489, 0.4386



## Tritanopia

48.2031, 0.3222, 0.3119

# Trichromacy



## Original Color

48.1442, 0.4028, 0.4780

## Protanomaly

48.1789, 0.4148, 0.4704

## Deuteranomaly

47.4948, 0.4322, 0.4526

## Tritanomaly

47.5060, 0.3576, 0.3764

# Monochromacy



## Original Color

48.1442, 0.4028, 0.4780

## Achromatopsia

43.4154, 0.3127, 0.3290

## Achromatomaly

44.6208, 0.3505, 0.3914

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.1442, 0.4028, 0.4780 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(190, 190, 64)` looks like.

```
.text, #text, p{  
    color:rgb(190, 190, 64)  
}
```

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(190, 190, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(190, 190, 64) }
```

## Border

The CSS property to change the border of an element to Yxy 48.1442, 0.4028, 0.4780 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(190, 190, 64) }
```

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

```
.border{ border-color:rgb(190, 190, 64) }
```

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

Here you see how a box with a 4 pixel `rgb(190, 190, 64)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(190, 190, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(190, 190, 64);  
box-shadow:4px 4px 4px 4px rgb(190, 190,  
64) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.1442, 0.4028, 0.4780 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(190, 190, 64) }
```

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

```
.background{ background-color: rgb(190,  
190, 64) }
```

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