

# Converting Colors

$Y_{xy}(48.3008, 0.4686, 0.4636)$

Have a look what the booklet for  
Yxy(48.3008, 0.4686, 0.4636)  
contains.

<b>Yxy(48.2306, 0.4692, 0.4631)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(48.2306, 0.4692, 0.4631)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E8B00B
RGB	232, 176, 11
RGB Percent	91%, 69%, 4%
CMY	0.0902, 0.3098, 0.9568
CMYK	0.00, 0.24, 0.95, 0.09
HSL	45°, 91%, 48%
HSV	45°, 95%, 91%
XYZ	48.8659, 48.2306, 7.0508
YIQ	173.9340, 86.3410, -39.4430

# Conversions

## Conversions Part 2

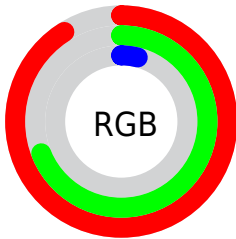
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	86, 232, 11
Decimal	15249419
CIE <sub>Lab</sub>	74.97, 8.44, 76.53
CIE <sub>LCh</sub>	75, 76.995, 83.707
Yxy	48.2306, 0.4692, 0.4631
Android (android.graphics.Color)	4293439499 (0xFFE8B00B)
YUV	173.9340, -80.3265, 50.9239
Hunter-Lab	69.4483, 4.0636, 42.5943

# Details

The Yxy color **48.2306, 0.4692, 0.4631** is a dark color, and the websafe version is hex **FFCC33**. The color can be described as middle washed orange. A complement of this color would be **9.9152, 0.1607, 0.0953**, and the grayscale version is **42.6823, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.0519, 0.4192, 0.4641**, and **23.0732, 0.4775, 0.4590** is the 20% darker color. If you saturate the color by 10%, you get **47.1243, 0.4735, 0.4623**, and if you desaturate by 10%, it is **50.6815, 0.4586, 0.4623**.

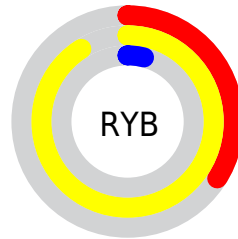
# Distribution



Red (91%)

Green (69%)

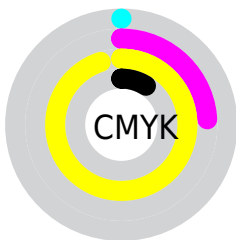
Blue (4%)



Red (34%)

Yellow (91%)

Blue (4%)

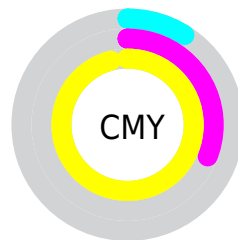


Cyan (0%)

Magenta (24%)

Yellow (95%)

Black (9%)



Cyan (9%)

Magenta (31%)


Yellow (96%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.2306, 0.4692, 0.4631 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 48.2306, 0.4692, 0.4631 by changing the saturation by 10% instead.




 48.2306, 0.4692,  
0.4631

 48.2306, 0.4692,  
0.4631

379.7054, 0.4007,  
0.4082

 34.0095, 0.4813,  
0.4714


 87.5476, 0.4478,  
0.4471

 22.9009, 0.4938,  
0.4788


 113.4124, 0.4387,  
0.4398

 14.5204, 0.5098,  
0.4878


 143.9272, 0.4305,  
0.4332


 8.4835, 0.5156,  
0.4844

 179.4764, 0.4232,  
0.4272

 4.4058, 0.5223,  
0.4777

 220.4445, 0.4167,  
0.4218

 1.9031, 0.5332,  
0.4668

 267.2157, 0.4108,

 0.5502, 0.5699,

0.4168

0.4301

320.1746, 0.4055,  
0.4123

■ 0.0000, 0.0000,  
0.0000

■ 48.2306, 0.4692,  
0.4631

■ 48.2306, 0.4692,  
0.4631

■ 47.1243, 0.4735,  
0.4623

■ 50.6815, 0.4586,  
0.4623

■ 53.3215, 0.4450,  
0.4567

■ 56.1697, 0.4288,  
0.4463

■ 59.2400, 0.4108,  
0.4322

■ 62.5446, 0.3919,  
0.4152

■ 66.0943, 0.3729,  
0.3965

■ 69.8989, 0.3545,  
0.3770

■ 73.9676, 0.3370,  
0.3575

■ 78.3090, 0.3207,  
0.3386

# Harmonies

## Analogous

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



48.2306, 0.5159, 0.3903



48.2306, 0.4692, 0.4631



48.2306, 0.3859, 0.5197

# Triad

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



48.2306, 0.4692, 0.4631



48.2306, 0.1545, 0.2947



48.2306, 0.3066, 0.2076

# Complementary

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



48.2306, 0.4692, 0.4631



9.9152, 0.1607, 0.0953

# 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.



48.2306, 0.2167, 0.1815



48.2306, 0.4692, 0.4631



48.2306, 0.1421, 0.2166

# Square

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



48.2306, 0.4692, 0.4631



48.2306, 0.2049, 0.4136



48.2306, 0.1626, 0.1826



48.2306, 0.4164, 0.2566



# Rectangle

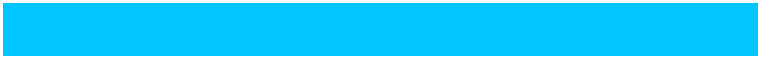
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.2306, 0.4692, 0.4631



48.2306, 0.3220, 0.5246



48.2306, 0.1626, 0.1826



48.2306, 0.2730, 0.1961

# Sweetspot

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



48.2330, 0.4692, 0.4631



84.7386, 0.3616, 0.3847



17.8382, 0.5774, 0.2985



17.7080, 0.3695, 0.3930



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.



48.2330, 0.4692, 0.4631



58.2505, 0.4738, 0.4620



67.4969, 0.3792, 0.5350



16.1662, 0.3274, 0.3465



26.3717, 0.4724, 0.4631



2.0949, 0.4630, 0.4706



# Inverse Universe

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



9.9152, 0.1607, 0.0953



10.9574, 0.1574, 0.0866



7.1096, 0.1660, 0.0706



14.4777, 0.2980, 0.3109



5.1293, 0.1583, 0.0899



0.5249, 0.1660, 0.1177



# Previews

## White Background



This preview shows how the Yxy color 48.2306, 0.4692, 0.4631 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 48.2306, 0.4692, 0.4631 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 48.2306, 0.4692, 0.4631**

## Background



This preview shows how black text looks on a background with the Yxy color 48.2306, 0.4692, 0.4631.



This preview shows how white text looks on a background with the Yxy color 48.2306, 0.4692, 0.4631.

# 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

48.2306, 0.4692, 0.4631

### Protanopia

48.2906, 0.4394, 0.4852

### Deuteranopia

48.1814, 0.4717, 0.4606



## Tritanopia

48.3863, 0.3747, 0.3159

# Trichromacy



## Original Color

48.2306, 0.4692, 0.4631

## Protanomaly

48.2393, 0.4498, 0.4776

## Deuteranomaly

48.0101, 0.4710, 0.4614

## Tritanomaly

47.4434, 0.4269, 0.3864

# Monochromacy



## Original Color

48.2306, 0.4692, 0.4631

## Achromatopsia

42.3268, 0.3127, 0.3290

## Achromatomaly

43.4999, 0.3829, 0.4070

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.2306, 0.4692, 0.4631 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(232, 176, 11)` looks like.

```
.text, #text, p{  
    color:rgb(232, 176, 11)  
}
```

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(232, 176, 11) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 176, 11) }
```

## Border

The CSS property to change the border of an element to Yxy 48.2306, 0.4692, 0.4631 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(232, 176, 11) }
```

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

```
.border{ border-color:rgb(232, 176, 11) }
```

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

Here you see how a box with a 4 pixel `rgb(232, 176, 11)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 176, 11); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 176, 11);  
box-shadow:4px 4px 4px 4px rgb(232, 176,  
11) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.2306, 0.4692, 0.4631 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 176, 11) }
```

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

```
.background{ background-color: rgb(232,  
176, 11) }
```

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