

# Converting Colors

$Y_{xy}(40.1109, 0.4487, 0.4819)$

Have a look what the booklet for  
Yxy(40.1109, 0.4487, 0.4819)  
contains.

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**Color**

**Yxy(40.0110, 0.4490, 0.4817)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C6A800
RGB	198, 168, 0
RGB Percent	78%, 66%, 0%
CMY	0.2235, 0.3412, 1.0000
CMYK	0.00, 0.15, 1.00, 0.22
HSL	51°, 100%, 39%
HSV	51°, 100%, 78%
XYZ	37.2949, 40.0110, 5.7562
YIQ	157.8180, 71.8080, -45.8880

# Conversions

## Conversions Part 2

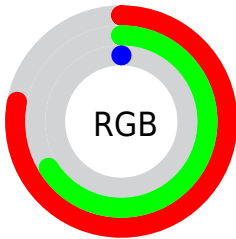
<b>Format</b>	<b>Color</b>
<b>RYB</b>	35, 198, 0
Decimal	13019136
CIELab	69.48, -2.39, 72.31
CIElCh	69, 72.352, 91.891
Yxy	40.0110, 0.4490, 0.4817
Android (android.graphics.Color)	4291209216 (0xFFC6A800)
YUV	157.8180, -77.8043, 35.2396
Hunter-Lab	63.2542, -5.4509, 38.8825

# Details

The Yxy color **40.0110, 0.4490, 0.4817** is a dark color, and the websafe version is hex **CC9900**. The color can be described as dark washed orange. A complement of this color would be **5.0076, 0.1534, 0.0720**, and the grayscale version is **34.4422, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.5712, 0.4275, 0.4623**, and **18.2115, 0.4495, 0.4813** is the 20% darker color. If you saturate the color by 10%, you get **40.0130, 0.4490, 0.4817**, and if you desaturate by 10%, it is **41.1841, 0.4428, 0.4802**.

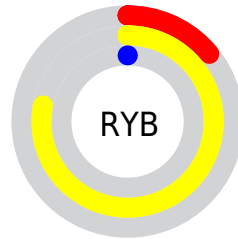
# Distribution



Red (78%)

Green (66%)

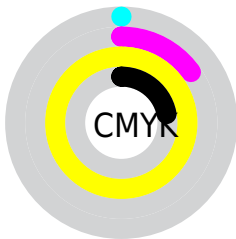
Blue (0%)



Red (14%)

Yellow (78%)

Blue (0%)

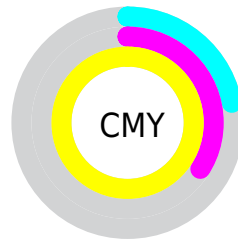


Cyan (0%)

Magenta (15%)

Yellow (100%)

Black (22%)



Cyan (22%)

Magenta (34%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.0110, 0.4490, 0.4817 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 40.0110, 0.4490, 0.4817 by changing the saturation by 10% instead.





 40.0110, 0.4490,  
0.4817


 40.0110, 0.4490,  
0.4817


346.1699, 0.3888,  
0.4130

 27.5471, 0.4591,  
0.4938


 75.1803, 0.4304,  
0.4601


 17.9846, 0.4687,  
0.5058


 98.6544, 0.4224,  
0.4508


 10.9389, 0.4798,  
0.5202


 126.5675, 0.4152,  
0.4426

 6.0258, 0.4781,  
0.5219

 159.3038, 0.4087,  
0.4353

 2.8608, 0.4755,  
0.5245

 197.2479, 0.4029,  
0.4288

 1.0595, 0.4709,  
0.5291

 240.7840, 0.3977,

 0.0000, 0.0000,

0.4230

0.0000

290.2965, 0.3931,  
0.4177

40.0110, 0.4490,  
0.4817

40.0110, 0.4490,  
0.4817

40.0130, 0.4490,  
0.4817

41.1841, 0.4428,  
0.4802

42.4318, 0.4343,  
0.4749

43.7743, 0.4230,  
0.4650

45.2209, 0.4093,  
0.4510

46.7797, 0.3939,  
0.4337

■ 48.4578, 0.3774,  
0.4140

■ 50.2615, 0.3605,  
0.3929

■ 52.1967, 0.3439,  
0.3712

■ 54.2688, 0.3278,  
0.3497

# Harmonies

## Analogous

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



40.0110, 0.5084, 0.4102



40.0110, 0.4490, 0.4817



40.0110, 0.3601, 0.5263

# Triad

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



40.0110, 0.4490, 0.4817



40.0110, 0.1476, 0.2685



40.0110, 0.3360, 0.2189

# Complementary

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



40.0110, 0.4490, 0.4817



5.0076, 0.1534, 0.0720

# 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.



40.0110, 0.2378, 0.1861



40.0110, 0.4490, 0.4817



40.0110, 0.1445, 0.2035

# Square

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



40.0110, 0.4490, 0.4817



40.0110, 0.1872, 0.3794



40.0110, 0.1738, 0.1793



40.0110, 0.4441, 0.2729



# Rectangle

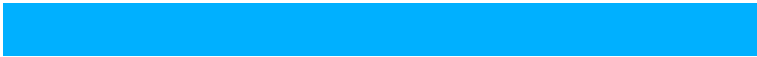
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



40.0110, 0.4490, 0.4817



40.0110, 0.2956, 0.5146



40.0110, 0.1738, 0.1793



40.0110, 0.3003, 0.2053

# Sweetspot

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



40.0130, 0.4490, 0.4817



88.8369, 0.3613, 0.3938



12.1181, 0.6166, 0.3170



18.7172, 0.3685, 0.4030



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.



40.0130, 0.4490, 0.4817



70.5471, 0.4495, 0.4813



45.3030, 0.3615, 0.5512



12.1324, 0.3269, 0.3484



26.1166, 0.4485, 0.4821



1.3129, 0.4415, 0.4876



# Inverse Universe

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



5.0076, 0.1534, 0.0720



8.6487, 0.1529, 0.0705



5.2365, 0.1741, 0.0733



10.5427, 0.2983, 0.3088



3.3358, 0.1538, 0.0736



0.2430, 0.1629, 0.1062



# Previews

## White Background



This preview shows how the Yxy color 40.0110, 0.4490, 0.4817 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 40.0110, 0.4490, 0.4817 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 40.0110, 0.4490, 0.4817**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.0110, 0.4490, 0.4817.

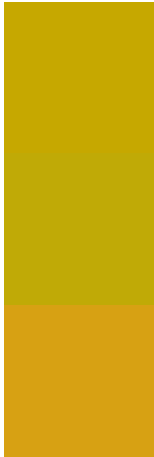


This preview shows how white text looks on a background with the Yxy color 40.0110, 0.4490, 0.4817.

# 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

40.0110, 0.4490, 0.4817

### Protanopia

39.9691, 0.4403, 0.4869

### Deuteranopia

39.9838, 0.4697, 0.4593



## Tritanopia

39.8695, 0.3520, 0.3141

# Trichromacy



## Original Color

40.0110, 0.4490, 0.4817

## Protanomaly

39.8540, 0.4435, 0.4849

## Deuteranomaly

40.1328, 0.4621, 0.4679

## Tritanomaly

39.0405, 0.4074, 0.3964

# Monochromacy



## Original Color

40.0110, 0.4490, 0.4817

## Achromatopsia

34.1914, 0.3127, 0.3290

## Achromatomaly

35.6645, 0.3795, 0.4164

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.0110, 0.4490, 0.4817 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(198, 168, 0)` looks like.

```
.text, #text, p{  
    color:rgb(198, 168, 0)  
}
```

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(198, 168, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(198, 168, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 40.0110, 0.4490, 0.4817 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(198, 168, 0) }
```

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

```
.border{ border-color:rgb(198, 168, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(198, 168, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(198, 168, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(198, 168, 0);  
box-shadow:4px 4px 4px 4px rgb(198, 168,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.0110, 0.4490, 0.4817 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(198, 168, 0) }
```

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

```
.background{ background-color: rgb(198,  
168, 0) }
```

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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