

# Converting Colors

$Y_{xy}(40.1378, 0.4567, 0.4755)$

Have a look what the booklet for  
Yxy(40.1378, 0.4567, 0.4755)  
contains.

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**Color**

**Yxy(40.1098, 0.4568, 0.4755)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CCA600
RGB	204, 166, 0
RGB Percent	80%, 65%, 0%
CMY	0.2001, 0.3490, 1.0000
CMYK	0.00, 0.19, 1.00, 0.20
HSL	49°, 100%, 40%
HSV	49°, 100%, 80%
XYZ	38.5324, 40.1098, 5.7107
YIQ	158.4380, 75.9340, -43.5700

# Conversions

## Conversions Part 2

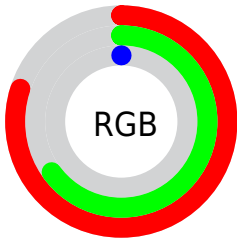
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	47, 204, 0
Decimal	13411840
CIE Lab	69.55, 1.31, 72.63
CIE LCh	70, 72.644, 88.963
Yxy	40.1098, 0.4568, 0.4755
Android (android.graphics.Color)	4291601920 (0xFFCCA600)
YUV	158.4380, -78.1099, 39.9579
Hunter-Lab	63.3323, -2.2292, 38.9864

# Details

The Yxy color **40.1098, 0.4568, 0.4755** 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 **5.7418, 0.1546, 0.0766**, and the grayscale version is **34.7384, 0.3127, 0.3290**.

A 20% lighter version of the original color is **73.5087, 0.4289, 0.4607**, and **18.2812, 0.4604, 0.4726** is the 20% darker color. If you saturate the color by 10%, you get **40.1116, 0.4568, 0.4755**, and if you desaturate by 10%, it is **41.5643, 0.4496, 0.4747**.

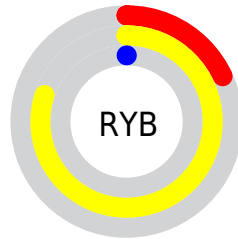
# Distribution



Red (80%)

Green (65%)

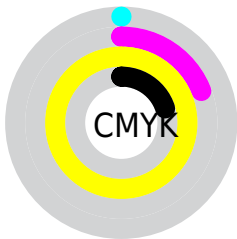
Blue (0%)



Red (18%)

Yellow (80%)

Blue (0%)

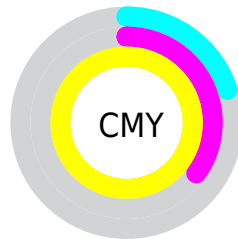


Cyan (0%)

Magenta (19%)

Yellow (100%)

Black (20%)



Cyan (20%)

Magenta (35%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.1098, 0.4568, 0.4755 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 40.1098, 0.4568, 0.4755 by changing the saturation by 10% instead.





 40.1098, 0.4568,  
0.4755


 40.1098, 0.4568,  
0.4755


346.5861, 0.3926,  
0.4109

 27.6242, 0.4678,  
0.4863


 75.3307, 0.4368,  
0.4556


 18.0425, 0.4787,  
0.4967


 98.8347, 0.4282,  
0.4470

 10.9805, 0.4914,  
0.5086


 126.7803, 0.4205,  
0.4392

 6.0537, 0.4923,  
0.5077

 159.5520, 0.4136,  
0.4323

 2.8778, 0.4937,  
0.5063

 197.5340, 0.4075,  
0.4261

 1.0683, 0.4962,  
0.5038

 241.1107, 0.4020,

 0.0000, 0.0000,

0.4205

0.0000

290.6666, 0.3971,  
0.4155

40.1098, 0.4568,  
0.4755

40.1098, 0.4568,  
0.4755

40.1116, 0.4568,  
0.4755

41.5643, 0.4496,  
0.4747

43.1127, 0.4399,  
0.4700

44.7761, 0.4273,  
0.4606

46.5650, 0.4125,  
0.4471

48.4880, 0.3961,  
0.4302

■ 50.5529, 0.3788,  
0.4111

■ 52.7668, 0.3613,  
0.3906

■ 55.1361, 0.3443,  
0.3697

■ 57.6667, 0.3280,  
0.3490

# Harmonies

## Analogous

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



40.1098, 0.5121, 0.4031



40.1098, 0.4568, 0.4755



40.1098, 0.3695, 0.5251

# Triad

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



40.1098, 0.4568, 0.4755



40.1098, 0.1494, 0.2772



40.1098, 0.3254, 0.2144

# Complementary

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



40.1098, 0.4568, 0.4755



5.7418, 0.1546, 0.0766

# 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.



40.1098, 0.2297, 0.1838



40.1098, 0.4568, 0.4755



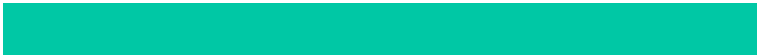
40.1098, 0.1430, 0.2075

# Square

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



40.1098, 0.4568, 0.4755



40.1098, 0.1929, 0.3918



40.1098, 0.1691, 0.1799



40.1098, 0.4349, 0.2668



# Rectangle

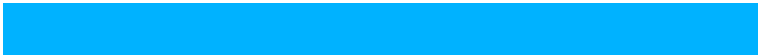
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



40.1098, 0.4568, 0.4755



40.1098, 0.3049, 0.5198



40.1098, 0.1691, 0.1799



40.1098, 0.2902, 0.2015

# Sweetspot

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



40.1118, 0.4568, 0.4755



87.2658, 0.3620, 0.3914



12.9921, 0.6089, 0.3128



18.3375, 0.3695, 0.4003



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.



40.1118, 0.4568, 0.4755



66.1520, 0.4574, 0.4751



48.9924, 0.3670, 0.5468



12.7279, 0.3270, 0.3477



25.3819, 0.4562, 0.4760



1.4037, 0.4477, 0.4827



# Inverse Universe

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



5.7418, 0.1546, 0.0766



9.2893, 0.1542, 0.0751



5.3565, 0.1696, 0.0708



11.1761, 0.2982, 0.3096



3.7158, 0.1551, 0.0785



0.2961, 0.1648, 0.1132



# Previews

## White Background



This preview shows how the Yxy color 40.1098, 0.4568, 0.4755 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

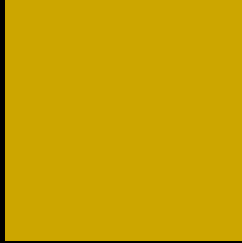
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 40.1098, 0.4568, 0.4755 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 40.1098, 0.4568, 0.4755**

## Background



This preview shows how black text looks on a background with the Yxy color 40.1098, 0.4568, 0.4755.



This preview shows how white text looks on a background with the Yxy color 40.1098, 0.4568, 0.4755.

# 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

40.1098, 0.4568, 0.4755

### Protanopia

40.3498, 0.4390, 0.4873

### Deuteranopia

39.9742, 0.4703, 0.4601



## Tritanopia

40.0105, 0.3605, 0.3144

# Trichromacy



## Original Color

40.1098, 0.4568, 0.4755

## Protanomaly

40.1227, 0.4453, 0.4832

## Deuteranomaly

40.0652, 0.4653, 0.4659

## Tritanomaly

39.1960, 0.4156, 0.3934

# Monochromacy



## Original Color

40.1098, 0.4568, 0.4755

## Achromatopsia

34.1914, 0.3127, 0.3290

## Achromatomaly

35.5433, 0.3821, 0.4144

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.1098, 0.4568, 0.4755 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(204, 166, 0)` looks like.

```
.text, #text, p{  
    color:rgb(204, 166, 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(204, 166, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 166, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 40.1098, 0.4568, 0.4755 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(204, 166, 0) }
```

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

```
.border{ border-color:rgb(204, 166, 0) }
```

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

Here you see how a box with a 4 pixel rgb(204, 166, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 166, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 166, 0);  
box-shadow:4px 4px 4px 4px rgb(204, 166,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.1098, 0.4568, 0.4755 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 166, 0) }
```

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

```
.background{ background-color: rgb(204,  
166, 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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