

# Converting Colors

$Y_{xy}(40.4254, 0.4906, 0.4650)$

Have a look what the booklet for  
Yxy(40.4254, 0.4906, 0.4650)  
contains.

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# Color

**Yxy(40.4842, 0.4819, 0.4555)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DF9F00
RGB	223, 159, 0
RGB Percent	87%, 62%, 0%
CMY	0.1255, 0.3765, 0.9990
CMYK	0.00, 0.29, 1.00, 0.13
HSL	43°, 100%, 44%
HSV	43°, 100%, 87%
XYZ	42.8306, 40.4842, 5.5638
YIQ	160.0100, 89.1830, -35.8810

# Conversions

## Conversions Part 2

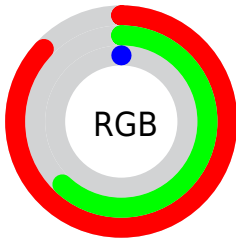
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	90, 223, 0
Decimal	14655232
CIE <sub>Lab</sub>	69.81, 13.45, 73.74
CIE <sub>LCh</sub>	70, 74.953, 79.664
Yxy	40.4842, 0.4819, 0.4555
Android (android.graphics.Color)	4292845312 (0xFFDF9F00)
YUV	160.0100, -78.8849, 55.2422
Hunter-Lab	63.6272, 8.8095, 39.3545

# Details

The Yxy color **40.4842, 0.4819, 0.4555** 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 **9.0246, 0.1598, 0.0950**, and the grayscale version is **35.5135, 0.3127, 0.3290**.

A 20% lighter version of the original color is **69.3843, 0.4347, 0.4545**, and **18.4065, 0.4924, 0.4473** is the 20% darker color. If you saturate the color by 10%, you get **40.4602, 0.4820, 0.4555**, and if you desaturate by 10%, it is **42.8069, 0.4711, 0.4571**.

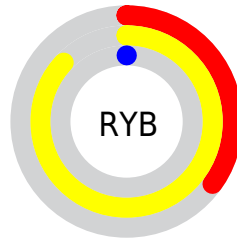
# Distribution



Red (87%)

Green (62%)

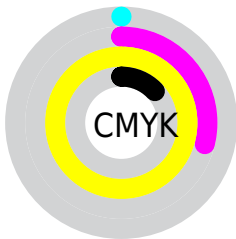
Blue (0%)



Red (35%)

Yellow (87%)

Blue (0%)

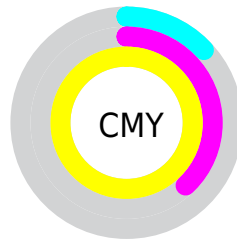


Cyan (0%)

Magenta (29%)

Yellow (100%)

Black (13%)



Cyan (13%)

Magenta (38%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.4842, 0.4819, 0.4555 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 40.4842, 0.4819, 0.4555 by changing the saturation by 10% instead.




 40.4842, 0.4819,  
0.4555


 40.4842, 0.4819,  
0.4555


348.1602, 0.4050,  
0.4042

 27.9163, 0.4960,  
0.4623


 75.9003, 0.4574,  
0.4410


 18.2626, 0.5107,  
0.4676


 99.5172, 0.4471,  
0.4343


 11.1386, 0.5281,  
0.4719


 127.5859, 0.4379,  
0.4281

 6.1602, 0.5366,  
0.4634

 160.4908, 0.4298,  
0.4224

 2.9427, 0.5498,  
0.4502

 198.6163, 0.4225,  
0.4172

 1.1019, 0.5724,  
0.4276


 242.3468, 0.4160,


 0.0000, 1.0000,


0.4124


0.0000


 292.0666, 0.4102,  
0.4081


 0.0000, 0.0000,  
0.0000

 40.4842, 0.4819,  
0.4555


 40.4842, 0.4819,  
0.4555


 40.4602, 0.4820,  
0.4555

 42.8069, 0.4711,  
0.4571

 45.3121, 0.4574,  
0.4543

 48.0254, 0.4409,  
0.4466

 50.9610, 0.4223,  
0.4346

 54.1309, 0.4027,  
0.4194

■ 57.5459, 0.3829,  
0.4020

■ 61.2160, 0.3635,  
0.3835

■ 65.1501, 0.3452,  
0.3648

■ 69.3567, 0.3281,  
0.3464

# Harmonies

## Analogous

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



40.4842, 0.5236, 0.3806



40.4842, 0.4819, 0.4555



40.4842, 0.3995, 0.5196

# Triad

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



40.4842, 0.4819, 0.4555



40.4842, 0.1550, 0.3077



40.4842, 0.2918, 0.1995

# Complementary

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



40.4842, 0.4819, 0.4555



9.0246, 0.1598, 0.0950

# 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.



40.4842, 0.2044, 0.1765



40.4842, 0.4819, 0.4555



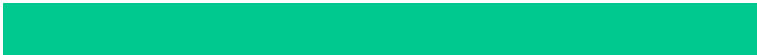
40.4842, 0.1378, 0.2211

# Square

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



40.4842, 0.4819, 0.4555



40.4842, 0.2116, 0.4337



40.4842, 0.1543, 0.1814



40.4842, 0.4045, 0.2467



# Rectangle

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



40.4842, 0.4819, 0.4555



40.4842, 0.3347, 0.5335



40.4842, 0.1543, 0.1814



40.4842, 0.2586, 0.1889

# Sweetspot

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



40.4862, 0.4819, 0.4555



82.7843, 0.3642, 0.3842



16.0996, 0.5789, 0.2964



17.2589, 0.3723, 0.3921



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.



40.4862, 0.4819, 0.4555



54.6084, 0.4826, 0.4550



62.2939, 0.3840, 0.5333



15.3293, 0.3274, 0.3456



23.9927, 0.4808, 0.4564



1.8140, 0.4692, 0.4657



# Inverse Universe

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



9.0246, 0.1598, 0.0950



12.0197, 0.1594, 0.0937



5.8868, 0.1591, 0.0651



13.8815, 0.2981, 0.3118



5.4612, 0.1604, 0.0974



0.5291, 0.1689, 0.1278



# Previews

## White Background



This preview shows how the Yxy color 40.4842, 0.4819, 0.4555 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

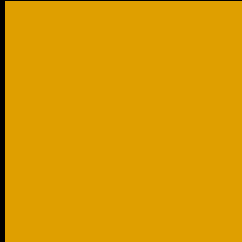
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 40.4842, 0.4819, 0.4555 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 40.4842, 0.4819, 0.4555**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.4842, 0.4819, 0.4555.



This preview shows how white text looks on a background with the Yxy color 40.4842, 0.4819, 0.4555.

# 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

40.4842, 0.4819, 0.4555

### Protanopia

40.4923, 0.4393, 0.4856

### Deuteranopia

40.4396, 0.4723, 0.4632



## Tritanopia

40.5060, 0.3866, 0.3165

# Trichromacy



## Original Color

40.4842, 0.4819, 0.4555

## Protanomaly

40.4923, 0.4547, 0.4749

## Deuteranomaly

40.5498, 0.4761, 0.4601

## Tritanomaly

39.7270, 0.4412, 0.3873

# Monochromacy



## Original Color

40.4842, 0.4819, 0.4555

## Achromatopsia

35.1533, 0.3127, 0.3290

## Achromatomaly

36.1682, 0.3902, 0.4091

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.4842, 0.4819, 0.4555 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(223, 159, 0)` looks like.

```
.text, #text, p{  
  color:rgb(223, 159, 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(223, 159, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(223, 159, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 40.4842, 0.4819, 0.4555 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(223, 159, 0) }
```

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

```
.border{ border-color:rgb(223, 159, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(223, 159, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(223, 159, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(223, 159, 0);  
box-shadow:4px 4px 4px 4px rgb(223, 159,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.4842, 0.4819, 0.4555 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(223, 159, 0) }
```

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

```
.background{ background-color: rgb(223,  
159, 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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