

# Converting Colors

$Y_{xy}(42.9510, 0.4828, 0.4549)$

Have a look what the booklet for  
Yxy(42.9510, 0.4828, 0.4549)  
contains.

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# **Color**

**Yxy(43.0174, 0.4832, 0.4545)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E6A300
RGB	230, 163, 0
RGB Percent	90%, 64%, 0%
CMY	0.0980, 0.3608, 0.9994
CMYK	0.00, 0.29, 1.00, 0.10
HSL	43°, 100%, 45%
HSV	43°, 100%, 90%
XYZ	45.7338, 43.0174, 5.8966
YIQ	164.4510, 92.2550, -36.4890

# Conversions

## Conversions Part 2

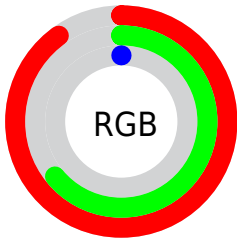
Format	Color
R <sub>YB</sub>	95, 230, 0
Decimal	15115008
CIE <sub>Lab</sub>	71.57, 14.36, 75.31
CIE <sub>LCh</sub>	72, 76.667, 79.203
Yxy	43.0174, 0.4832, 0.4545
Android (android.graphics.Color)	4293305088 (0xFFE6A300)
YUV	164.4510, -81.0743, 57.4865
Hunter-Lab	65.5877, 9.6884, 40.5810

# Details

The Yxy color **43.0174, 0.4832, 0.4545** is a dark color, and the websafe version is hex **CC9900**. The color can be described as middle washed orange. A complement of this color would be **9.7480, 0.1599, 0.0956**, and the grayscale version is **37.7219, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.9529, 0.4307, 0.4578**, and **20.0234, 0.4937, 0.4462** is the 20% darker color. If you saturate the color by 10%, you get **43.0040, 0.4833, 0.4545**, and if you desaturate by 10%, it is **45.5265, 0.4722, 0.4564**.

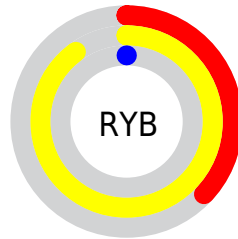
# Distribution



Red (90%)

Green (64%)

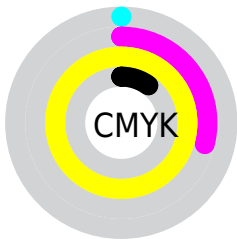
Blue (0%)



Red (37%)

Yellow (90%)

Blue (0%)

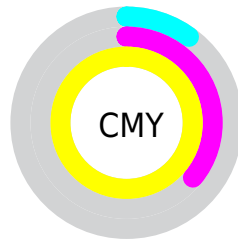


Cyan (0%)

Magenta (29%)

Yellow (100%)

Black (10%)



Cyan (10%)

Magenta (36%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 43.0174, 0.4832, 0.4545 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 43.0174, 0.4832, 0.4545 by changing the saturation by 10% instead.





 43.0174, 0.4832,  
0.4545


 43.0174, 0.4832,  
0.4545


358.6833, 0.4066,  
0.4046


 29.8988, 0.4971,  
0.4610


 79.7371, 0.4589,  
0.4406

 19.7618, 0.5117,  
0.4659


 104.1070, 0.4486,  
0.4341


 12.2220, 0.5295,  
0.4705

 132.9961, 0.4395,  
0.4280

 6.8950, 0.5380,  
0.4620

 166.7887, 0.4314,  
0.4224

 3.3965, 0.5509,  
0.4491

 205.8694, 0.4241,  
0.4173


 1.3421, 0.5724,  
0.4276


 250.6225, 0.4177,


 0.1735, 0.7482,


0.4127


0.2518


 301.4323, 0.4118,  
0.4084


 0.0000, 0.0000,  
0.0000


 43.0174, 0.4832,  
0.4545


 43.0174, 0.4832,  
0.4545


 43.0040, 0.4833,  
0.4545

 45.5265, 0.4722,  
0.4564

 48.2353, 0.4584,  
0.4537

 51.1714, 0.4418,  
0.4461

 54.3500, 0.4231,  
0.4342

 57.7843, 0.4033,  
0.4191

■ 61.4861, 0.3833,  
0.4018

■ 65.4661, 0.3638,  
0.3834

■ 69.7342, 0.3454,  
0.3648

■ 74.2995, 0.3283,  
0.3464

# Harmonies

## Analogous

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



43.0174, 0.5242, 0.3795



43.0174, 0.4832, 0.4545



43.0174, 0.4011, 0.5192

# Triad

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



43.0174, 0.4832, 0.4545



43.0174, 0.1552, 0.3094



43.0174, 0.2901, 0.1987

# Complementary

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



43.0174, 0.4832, 0.4545



9.7480, 0.1599, 0.0956

# 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.



43.0174, 0.2031, 0.1760



43.0174, 0.4832, 0.4545



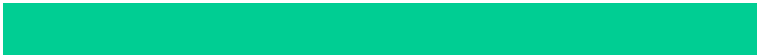
43.0174, 0.1375, 0.2218

# Square

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



43.0174, 0.4832, 0.4545



43.0174, 0.2125, 0.4359



43.0174, 0.1535, 0.1814



43.0174, 0.4030, 0.2457



# Rectangle

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



43.0174, 0.4832, 0.4545



43.0174, 0.3362, 0.5341



43.0174, 0.1535, 0.1814



43.0174, 0.2571, 0.1883

# Sweetspot

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



43.0196, 0.4832, 0.4545



82.6016, 0.3643, 0.3839



17.2591, 0.5795, 0.2967



17.2151, 0.3724, 0.3918



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.



43.0196, 0.4832, 0.4545



54.1700, 0.4837, 0.4541



66.7953, 0.3839, 0.5334



16.0701, 0.3275, 0.3456



24.5645, 0.4820, 0.4555



1.9736, 0.4707, 0.4645



# Inverse Universe

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



9.7480, 0.1599, 0.0956



12.1630, 0.1596, 0.0946



6.3006, 0.1590, 0.0650



14.5683, 0.2981, 0.3119



5.6938, 0.1606, 0.0982



0.5769, 0.1686, 0.1269



# Previews

## White Background



This preview shows how the Yxy color 43.0174, 0.4832, 0.4545 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 43.0174, 0.4832, 0.4545 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 43.0174, 0.4832, 0.4545**

## Background



This preview shows how black text looks on a background with the Yxy color 43.0174, 0.4832, 0.4545.



This preview shows how white text looks on a background with the Yxy color 43.0174, 0.4832, 0.4545.

# 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

43.0174, 0.4832, 0.4545

### Protanopia

43.0881, 0.4387, 0.4860

### Deuteranopia

43.1670, 0.4719, 0.4635



## Tritanopia

43.1053, 0.3878, 0.3168

# Trichromacy



## Original Color

43.0174, 0.4832, 0.4545

## Protanomaly

42.8472, 0.4557, 0.4740

## Deuteranomaly

43.2800, 0.4756, 0.4606

## Tritanomaly

42.2688, 0.4421, 0.3867

# Monochromacy



## Original Color

43.0174, 0.4832, 0.4545

## Achromatopsia

37.1238, 0.3127, 0.3290

## Achromatomaly

38.2418, 0.3913, 0.4098

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 43.0174, 0.4832, 0.4545 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(230, 163, 0)` looks like.

```
.text, #text, p{  
    color:rgb(230, 163, 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(230, 163, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 163, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 43.0174, 0.4832, 0.4545 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(230, 163, 0) }
```

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

```
.border{ border-color:rgb(230, 163, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(230, 163, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 163, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 163, 0);  
box-shadow:4px 4px 4px 4px rgb(230, 163,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 43.0174, 0.4832, 0.4545 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 163, 0) }
```

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

```
.background{ background-color: rgb(230,  
163, 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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