

# Converting Colors

$Y_{xy}(41.5653, 0.4767, 0.4597)$

Have a look what the booklet for  
Yxy(41.5653, 0.4767, 0.4597)  
contains.

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# Color

**Yxy(41.7240, 0.4764, 0.4599)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DEA300
RGB	222, 163, 0
RGB Percent	87%, 64%, 0%
CMY	0.1294, 0.3608, 0.9995
CMYK	0.00, 0.27, 1.00, 0.13
HSL	44°, 100%, 44%
HSV	44°, 100%, 87%
XYZ	43.2209, 41.7240, 5.7791
YIQ	162.0590, 87.4870, -38.1850

# Conversions

## Conversions Part 2

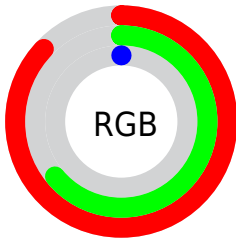
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	80, 222, 0
Decimal	14590720
CIE <sub>Lab</sub>	70.68, 10.87, 74.29
CIE <sub>LCh</sub>	71, 75.078, 81.674
Yxy	41.7240, 0.4764, 0.4599
Android (android.graphics.Color)	4292780800 (0xFFDEA300)
YUV	162.0590, -79.8951, 52.5683
Hunter-Lab	64.5941, 6.3975, 39.9113

# Details

The Yxy color **41.7240, 0.4764, 0.4599** 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 **8.4156, 0.1585, 0.0904**, and the grayscale version is **36.5202, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.9386, 0.4311, 0.4584**, and **19.1654, 0.4847, 0.4533** is the 20% darker color. If you saturate the color by 10%, you get **41.7126, 0.4765, 0.4599**, and if you desaturate by 10%, it is **43.9304, 0.4664, 0.4610**.

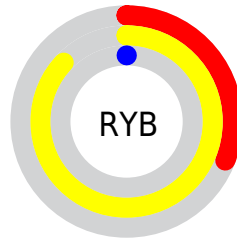
# Distribution



Red (87%)

Green (64%)

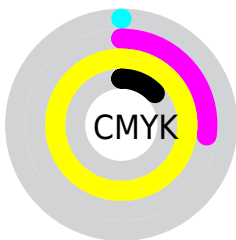
Blue (0%)



Red (31%)

Yellow (87%)

Blue (0%)

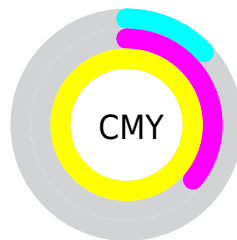


Cyan (0%)

Magenta (27%)

Yellow (100%)

Black (13%)



Cyan (13%)

Magenta (36%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.7240, 0.4764, 0.4599 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 41.7240, 0.4764, 0.4599 by changing the saturation by 10% instead.





 41.7240, 0.4764,  
0.4599


 41.7240, 0.4764,  
0.4599


353.3375, 0.4027,  
0.4061

 28.8852, 0.4897,  
0.4675


 77.7817, 0.4531,  
0.4444


 18.9940, 0.5034,  
0.4738


 101.7695, 0.4432,  
0.4373


 11.6660, 0.5199,  
0.4801


 130.2424, 0.4344,  
0.4308

 6.5167, 0.5267,  
0.4733

 163.5848, 0.4266,  
0.4249

 3.1617, 0.5371,  
0.4629

 202.1811, 0.4196,  
0.4195


 1.2167, 0.5548,  
0.4452


 246.4158, 0.4134,

 0.0753, 0.8173,

0.4146


0.1827

 296.6731, 0.4078,  
0.4101


 0.0000, 0.0000,  
0.0000


 41.7240, 0.4764,  
0.4599

 41.7240, 0.4764,  
0.4599

 41.7126, 0.4765,  
0.4599

 43.9304, 0.4664,  
0.4610

 46.3016, 0.4536,  
0.4578

 48.8628, 0.4381,  
0.4497

 51.6274, 0.4203,  
0.4374

 54.6074, 0.4014,  
0.4218

■ 57.8130, 0.3821,  
0.4041

■ 61.2536, 0.3632,  
0.3852

■ 64.9379, 0.3451,  
0.3659

■ 68.8740, 0.3282,  
0.3470

# Harmonies

## Analogous

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



41.7240, 0.5211, 0.3855



41.7240, 0.4764, 0.4599



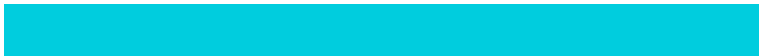
41.7240, 0.3930, 0.5211

# Triad

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



41.7240, 0.4764, 0.4599



41.7240, 0.1537, 0.3007



41.7240, 0.2990, 0.2028

# Complementary

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



41.7240, 0.4764, 0.4599



8.4156, 0.1585, 0.0904

# 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.



41.7240, 0.2098, 0.1781



41.7240, 0.4764, 0.4599



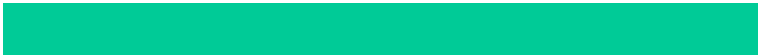
41.7240, 0.1390, 0.2180

# Square

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



41.7240, 0.4764, 0.4599



41.7240, 0.2074, 0.4243



41.7240, 0.1575, 0.1811



41.7240, 0.4113, 0.2511



# Rectangle

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



41.7240, 0.4764, 0.4599



41.7240, 0.3282, 0.5309



41.7240, 0.1575, 0.1811



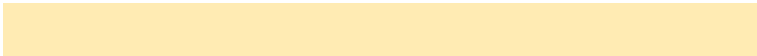
41.7240, 0.2654, 0.1917

# Sweetspot

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



41.7261, 0.4764, 0.4599



83.7166, 0.3637, 0.3857



15.8507, 0.5903, 0.3026



17.4827, 0.3717, 0.3938



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.



41.7261, 0.4764, 0.4599



56.8855, 0.4770, 0.4595



60.8116, 0.3781, 0.5379



15.3807, 0.3274, 0.3461



24.9691, 0.4754, 0.4607



1.8751, 0.4649, 0.4691



# Inverse Universe

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



8.4156, 0.1585, 0.0904



11.3301, 0.1581, 0.0891



6.0043, 0.1620, 0.0666



13.8331, 0.2981, 0.3113



5.1483, 0.1591, 0.0927



0.5020, 0.1674, 0.1226



# Previews

## White Background



This preview shows how the Yxy color 41.7240, 0.4764, 0.4599 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 41.7240, 0.4764, 0.4599 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 41.7240, 0.4764, 0.4599**

## **Background**



This preview shows how black text looks on a background with the Yxy color 41.7240, 0.4764, 0.4599.



This preview shows how white text looks on a background with the Yxy color 41.7240, 0.4764, 0.4599.

# 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

41.7240, 0.4764, 0.4599

### Protanopia

42.0369, 0.4390, 0.4860

### Deuteranopia

41.6110, 0.4727, 0.4629



## Tritanopia

41.9238, 0.3810, 0.3165

# Trichromacy



## Original Color

41.7240, 0.4764, 0.4599

## Protanomaly

41.7461, 0.4523, 0.4769

## Deuteranomaly

41.7666, 0.4735, 0.4622

## Tritanomaly

41.1073, 0.4355, 0.3886

# Monochromacy



## Original Color

41.7240, 0.4764, 0.4599

## Achromatopsia

36.1307, 0.3127, 0.3290

## Achromatomaly

37.0103, 0.3892, 0.4100

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.7240, 0.4764, 0.4599 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(222, 163, 0)` looks like.

```
.text, #text, p{  
    color:rgb(222, 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(222, 163, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 163, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 41.7240, 0.4764, 0.4599 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(222, 163, 0) }
```

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

```
.border{ border-color:rgb(222, 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(222, 163, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 163, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 163, 0);  
box-shadow:4px 4px 4px 4px rgb(222, 163,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 41.7240, 0.4764, 0.4599 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 163, 0) }
```

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

```
.background{ background-color: rgb(222,  
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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