

# Converting Colors

$Y_{xy}(42.7058, 0.4632, 0.5003)$

Have a look what the booklet for  
Yxy(42.7058, 0.4632, 0.5003)  
contains.

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**Color**

**Yxy(42.8663, 0.4501, 0.4809)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CDAD00
RGB	205, 173, 0
RGB Percent	80%, 68%, 0%
CMY	0.1960, 0.3216, 1.0000
CMYK	0.00, 0.16, 1.00, 0.20
HSL	51°, 100%, 40%
HSV	51°, 100%, 80%
XYZ	40.1209, 42.8663, 6.1505
YIQ	162.8460, 74.6050, -47.0190

# Conversions

## Conversions Part 2

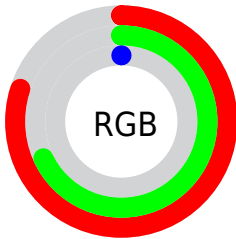
Format	Color
<a href="#">RYB</a>	38, 205, 0
Decimal	13479168
CIELab	71.46, -1.93, 74.06
CIELCh	71, 74.087, 91.492
Yxy	42.8663, 0.4501, 0.4809
Android (android.graphics.Color)	4291669248 (0xFFCDAD00)
YUV	162.8460, -80.2831, 36.9691
Hunter-Lab	65.4724, -5.1935, 40.2609

# Details

The Yxy color **42.8663, 0.4501, 0.4809** 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 **5.4414, 0.1535, 0.0724**, and the grayscale version is **36.9114, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.3113, 0.4233, 0.4648**, and **19.7857, 0.4525, 0.4789** is the 20% darker color. If you saturate the color by 10%, you get **42.8690, 0.4501, 0.4809**, and if you desaturate by 10%, it is **44.1635, 0.4438, 0.4795**.

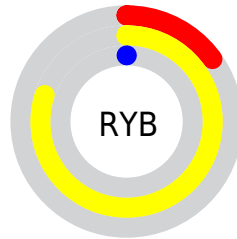
# Distribution



Red (80%)

Green (68%)

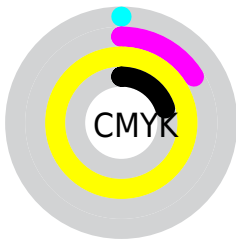
Blue (0%)



Red (15%)

Yellow (80%)

Blue (0%)

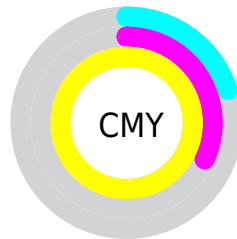


Cyan (0%)

Magenta (16%)

Yellow (100%)

Black (20%)



Cyan (20%)

Magenta (32%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.8663, 0.4501, 0.4809 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 42.8663, 0.4501, 0.4809 by changing the saturation by 10% instead.





 42.8663, 0.4501,  
0.4809

 42.8663, 0.4501,  
0.4809


358.0616, 0.3902,  
0.4137

 29.7802, 0.4601,  
0.4925


 79.5091, 0.4317,  
0.4599

 19.6718, 0.4696,  
0.5041


 103.8345, 0.4237,  
0.4510

 12.1567, 0.4814,  
0.5186


 132.6753, 0.4166,  
0.4429

 6.8505, 0.4802,  
0.5198

 166.4157, 0.4101,  
0.4357

 3.3688, 0.4783,  
0.5217

 205.4401, 0.4043,  
0.4293

 1.3272, 0.4750,  
0.5250

 250.1330, 0.3991,

 0.1621, 0.3976,

0.4235

0.6024

300.8787, 0.3944,  
0.4183

■ 0.0000, 0.0000,  
0.0000

■ 42.8663, 0.4501,  
0.4809

■ 42.8663, 0.4501,  
0.4809

■ 42.8690, 0.4501,  
0.4809

■ 44.1635, 0.4438,  
0.4795

■ 45.5432, 0.4352,  
0.4744

■ 47.0270, 0.4237,  
0.4646

■ 48.6255, 0.4099,  
0.4507

■ 50.3474, 0.3943,  
0.4335

■ 52.2005, 0.3777,  
0.4138

■ 54.1916, 0.3607,  
0.3927

■ 56.3272, 0.3440,  
0.3711

■ 58.6131, 0.3279,  
0.3497

# Harmonies

## Analogous

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



42.8663, 0.5090, 0.4092



42.8663, 0.4501, 0.4809



42.8663, 0.3614, 0.5262

# Triad

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



42.8663, 0.4501, 0.4809



42.8663, 0.1478, 0.2696



42.8663, 0.3346, 0.2183

# Complementary

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



42.8663, 0.4501, 0.4809



5.4414, 0.1535, 0.0724

# 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.



42.8663, 0.2366, 0.1857



42.8663, 0.4501, 0.4809



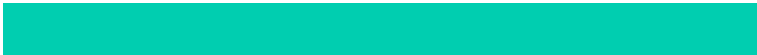
42.8663, 0.1443, 0.2040

# Square

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



42.8663, 0.4501, 0.4809



42.8663, 0.1879, 0.3811



42.8663, 0.1731, 0.1794



42.8663, 0.4429, 0.2721



# Rectangle

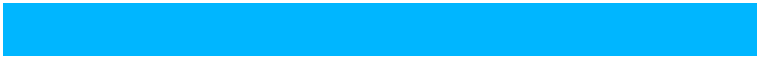
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



42.8663, 0.4501, 0.4809



42.8663, 0.2969, 0.5154



42.8663, 0.1731, 0.1794



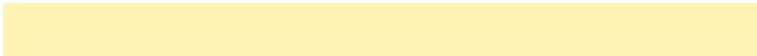
42.8663, 0.2989, 0.2047

# Sweetspot

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



42.8690, 0.4501, 0.4809



88.6301, 0.3614, 0.3935



13.0967, 0.6170, 0.3173



18.6672, 0.3686, 0.4026



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.



42.8690, 0.4501, 0.4809



69.9587, 0.4505, 0.4805



48.9572, 0.3614, 0.5512



12.7867, 0.3269, 0.3484



26.7996, 0.4495, 0.4813



1.4649, 0.4427, 0.4867



# Inverse Universe

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



5.4414, 0.1535, 0.0724



8.7247, 0.1531, 0.0710



5.6492, 0.1739, 0.0732



11.1221, 0.2982, 0.3088



3.4773, 0.1539, 0.0741

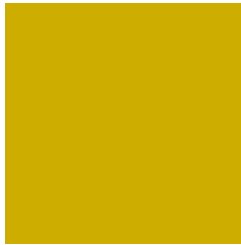


0.2712, 0.1626, 0.1053



# Previews

## White Background



This preview shows how the Yxy color 42.8663, 0.4501, 0.4809 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

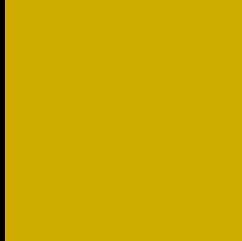
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.8663, 0.4501, 0.4809 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 42.8663, 0.4501, 0.4809**

## Background



This preview shows how black text looks on a background with the Yxy color 42.8663, 0.4501, 0.4809.



This preview shows how white text looks on a background with the Yxy color 42.8663, 0.4501, 0.4809.

# 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

42.8663, 0.4501, 0.4809

### Protanopia

43.0718, 0.4396, 0.4873

### Deuteranopia

42.6916, 0.4694, 0.4599



## Tritanopia

42.8030, 0.3529, 0.3145

# Trichromacy



## Original Color

42.8663, 0.4501, 0.4809

## Protanomaly

43.0862, 0.4437, 0.4848

## Deuteranomaly

42.8496, 0.4620, 0.4682

## Tritanomaly

41.8849, 0.4085, 0.3967

# Monochromacy



## Original Color

42.8663, 0.4501, 0.4809

## Achromatopsia

36.6253, 0.3127, 0.3290

## Achromatomaly

38.1019, 0.3794, 0.4169

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.8663, 0.4501, 0.4809 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(205, 173, 0)` looks like.

```
.text, #text, p{  
    color:rgb(205, 173, 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(205, 173, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(205, 173, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 42.8663, 0.4501, 0.4809 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(205, 173, 0) }
```

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

```
.border{ border-color:rgb(205, 173, 0) }
```

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

Here you see how a box with a 4 pixel rgb(205, 173, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(205, 173, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(205, 173, 0);  
box-shadow:4px 4px 4px 4px rgb(205, 173,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.8663, 0.4501, 0.4809 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(205, 173, 0) }
```

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

```
.background{ background-color: rgb(205,  
173, 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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