

# Converting Colors

$Y_{xy}(42.6812, 0.4686, 0.4776)$

Have a look what the booklet for  
Yxy(42.6812, 0.4686, 0.4776)  
contains.

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# Color

**Yxy(42.8230, 0.4635, 0.4702)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D7A900
RGB	215, 169, 0
RGB Percent	84%, 66%, 0%
CMY	0.1568, 0.3372, 1.0000
CMYK	0.00, 0.21, 1.00, 0.16
HSL	47°, 100%, 42%
HSV	47°, 100%, 84%
XYZ	42.2128, 42.8230, 6.0382
YIQ	163.4880, 81.6650, -42.8070

# Conversions

## Conversions Part 2

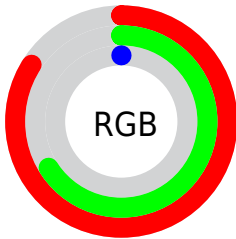
<b>Format</b>	<b>Color</b>
<b>RYB</b>	59, 215, 0
Decimal	14133504
CIELab	71.43, 4.61, 74.48
CIELCh	71, 74.623, 86.461
Yxy	42.8230, 0.4635, 0.4702
Android (android.graphics.Color)	4292323584 (0xFFD7A900)
YUV	163.4880, -80.5996, 45.1760
Hunter-Lab	65.4393, 0.6259, 40.3367

# Details

The Yxy color **42.8230, 0.4635, 0.4702** 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 **6.8604, 0.1558, 0.0807**, and the grayscale version is **37.2309, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.1214, 0.4264, 0.4624**, and **19.6911, 0.4697, 0.4653** is the 20% darker color. If you saturate the color by 10%, you get **42.8253, 0.4635, 0.4702**, and if you desaturate by 10%, it is **44.6231, 0.4554, 0.4701**.

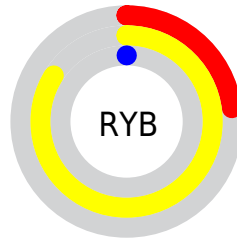
# Distribution



Red (84%)

Green (66%)

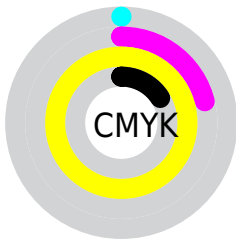
Blue (0%)



Red (23%)

Yellow (84%)

Blue (0%)

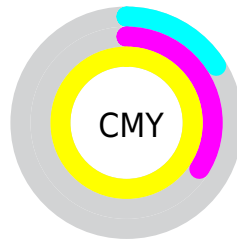


Cyan (0%)

Magenta (21%)

Yellow (100%)

Black (16%)



Cyan (16%)

Magenta (34%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.8230, 0.4635, 0.4702 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 42.8230, 0.4635, 0.4702 by changing the saturation by 10% instead.




 42.8230, 0.4635,  
0.4702

 42.8230, 0.4635,  
0.4702


357.8834, 0.3967,  
0.4100

 29.7463, 0.4751,  
0.4797


 79.4437, 0.4427,  
0.4521

 19.6461, 0.4868,  
0.4885


 103.7564, 0.4337,  
0.4441


 12.1380, 0.5011,  
0.4989


 132.5833, 0.4258,  
0.4369

 6.8378, 0.5040,  
0.4960

 166.3087, 0.4186,  
0.4303

 3.3608, 0.5084,  
0.4916

 205.3170, 0.4122,  
0.4244

 1.3229, 0.5160,  
0.4840

 249.9926, 0.4065,

 0.1588, 0.6238,

0.4191

0.3762

300.7199, 0.4014,  
0.4143

■ 0.0000, 0.0000,  
0.0000

■ 42.8230, 0.4635,  
0.4702

■ 42.8230, 0.4635,  
0.4702

■ 42.8253, 0.4635,  
0.4702

■ 44.6231, 0.4554,  
0.4701

■ 46.5442, 0.4447,  
0.4659

■ 48.6098, 0.4312,  
0.4570

■ 50.8319, 0.4154,  
0.4439

■ 53.2208, 0.3981,  
0.4275

■ 55.7855, 0.3801,  
0.4088

■ 58.5342, 0.3621,  
0.3889

■ 61.4744, 0.3446,  
0.3685

■ 64.6130, 0.3281,  
0.3484

# Harmonies

## Analogous

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



42.8230, 0.5153, 0.3971



42.8230, 0.4635, 0.4702



42.8230, 0.3775, 0.5240

# Triad

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



42.8230, 0.4635, 0.4702



42.8230, 0.1508, 0.2850



42.8230, 0.3163, 0.2104

# Complementary

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



42.8230, 0.4635, 0.4702



6.8604, 0.1558, 0.0807

# 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.



42.8230, 0.2228, 0.1819



42.8230, 0.4635, 0.4702



42.8230, 0.1416, 0.2109

# Square

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



42.8230, 0.4635, 0.4702



42.8230, 0.1977, 0.4027



42.8230, 0.1651, 0.1803



42.8230, 0.4269, 0.2615



# Rectangle

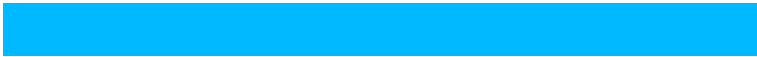
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



42.8230, 0.4635, 0.4702



42.8230, 0.3128, 0.5239



42.8230, 0.1651, 0.1803



42.8230, 0.2816, 0.1981

# Sweetspot

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



42.8253, 0.4635, 0.4702



86.0130, 0.3626, 0.3894



14.6495, 0.6051, 0.3107



18.0353, 0.3702, 0.3980



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.



42.8253, 0.4635, 0.4702



62.7747, 0.4640, 0.4698



55.4810, 0.3696, 0.5447



14.0479, 0.3272, 0.3472



25.7737, 0.4627, 0.4708



1.6696, 0.4538, 0.4779



# Inverse Universe

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



6.8604, 0.1558, 0.0807



9.9104, 0.1554, 0.0794



5.8960, 0.1674, 0.0696



12.4351, 0.2982, 0.3101



4.2300, 0.1564, 0.0828

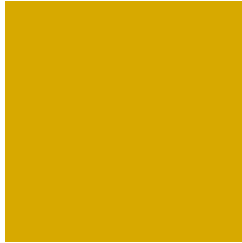


0.3783, 0.1653, 0.1152



# Previews

## White Background



This preview shows how the Yxy color 42.8230, 0.4635, 0.4702 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

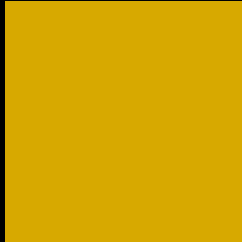
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.8230, 0.4635, 0.4702 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 42.8230, 0.4635, 0.4702**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.8230, 0.4635, 0.4702.

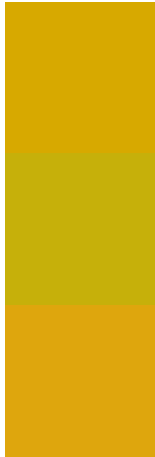


This preview shows how white text looks on a background with the Yxy color 42.8230, 0.4635, 0.4702.

# 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

42.8230, 0.4635, 0.4702

### Protanopia

43.0783, 0.4392, 0.4868

### Deuteranopia

42.8311, 0.4713, 0.4605



## Tritanopia

42.8258, 0.3675, 0.3150

# Trichromacy



## Original Color

42.8230, 0.4635, 0.4702

## Protanomaly

42.7377, 0.4484, 0.4805

## Deuteranomaly

42.7150, 0.4682, 0.4643

## Tritanomaly

41.9446, 0.4226, 0.3916

# Monochromacy



## Original Color

42.8230, 0.4635, 0.4702

## Achromatopsia

36.6253, 0.3127, 0.3290

## Achromatomaly

37.8548, 0.3846, 0.4131

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.8230, 0.4635, 0.4702 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(215, 169, 0)` looks like.

```
.text, #text, p{  
    color:rgb(215, 169, 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(215, 169, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(215, 169, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 42.8230, 0.4635, 0.4702 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(215, 169, 0) }
```

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

```
.border{ border-color:rgb(215, 169, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(215, 169, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(215, 169, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(215, 169, 0);  
box-shadow:4px 4px 4px 4px rgb(215, 169,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.8230, 0.4635, 0.4702 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(215, 169, 0) }
```

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

```
.background{ background-color: rgb(215,  
169, 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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