

# Converting Colors

$Y_{xy}(48.2155, 0.4415, 0.4877)$

Have a look what the booklet for  
Yxy(48.2155, 0.4415, 0.4877)  
contains.

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# Color

**Yxy(48.2532, 0.4412, 0.4878)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D1B900
RGB	209, 185, 0
RGB Percent	82%, 73%, 0%
CMY	0.1804, 0.2745, 0.9986
CMYK	0.00, 0.11, 1.00, 0.18
HSL	53°, 100%, 41%
HSV	53°, 100%, 82%
XYZ	43.6435, 48.2532, 7.0233
YIQ	171.0860, 73.6890, -52.4470

# Conversions

## Conversions Part 2

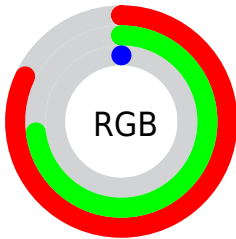
Format	Color
R <sub>Y</sub> B	27, 209, 0
Decimal	13744384
CIE Lab	74.98, -6.43, 76.66
CIE LCh	75, 76.930, 94.796
Yxy	48.2532, 0.4412, 0.4878
Android (android.graphics.Color)	4291934464 (0xFFD1B900)
YUV	171.0860, -84.3454, 33.2506
Hunter-Lab	69.4645, -9.4140, 42.6306

# Details

The Yxy color **48.2532, 0.4412, 0.4878** is a dark color, and the websafe version is hex **CCCC00**. The color can be described as middle washed orange. A complement of this color would be **5.2731, 0.1522, 0.0678**, and the grayscale version is **41.1963, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.7647, 0.4140, 0.4731**, and **22.9866, 0.4417, 0.4875** is the 20% darker color. If you saturate the color by 10%, you get **48.2374, 0.4413, 0.4878**, and if you desaturate by 10%, it is **49.3238, 0.4362, 0.4859**.

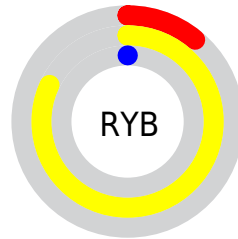
# Distribution



Red (82%)

Green (73%)

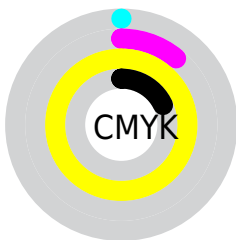
Blue (0%)



Red (11%)

Yellow (82%)

Blue (0%)

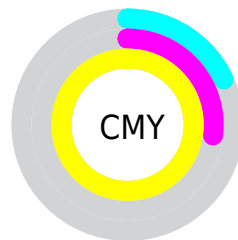


Cyan (0%)

Magenta (11%)

Yellow (100%)

Black (18%)



Cyan (18%)

Magenta (27%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.2532, 0.4412, 0.4878 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 48.2532, 0.4412, 0.4878 by changing the saturation by 10% instead.





 48.2532, 0.4412,  
0.4878

 48.2532, 0.4412,  
0.4878


379.7949, 0.3872,  
0.4176

 34.0274, 0.4497,  
0.5003


 87.5813, 0.4251,  
0.4657

 22.9147, 0.4577,  
0.5132


 113.4524, 0.4179,  
0.4564

 14.5305, 0.4677,  
0.5300


 143.9741, 0.4114,  
0.4480

 8.4906, 0.4651,  
0.5349

 179.5307, 0.4056,  
0.4405

 4.4104, 0.4596,  
0.5404

 220.5067, 0.4003,  
0.4339

 1.9057, 0.4504,  
0.5496

 267.2865, 0.3955,

 0.5518, 0.3997,

0.4279

0.6003

320.2544, 0.3911,  
0.4225

■ 0.0000, 0.0000,  
0.0000

■ 48.2532, 0.4412,  
0.4878

■ 48.2532, 0.4412,  
0.4878

■ 48.2374, 0.4413,  
0.4878

■ 49.3238, 0.4362,  
0.4859

■ 50.4679, 0.4289,  
0.4801

■ 51.7073, 0.4188,  
0.4698

■ 53.0526, 0.4062,  
0.4554

■ 54.5128, 0.3917,  
0.4375

■ 56.0960, 0.3760,  
0.4171

■ 57.8093, 0.3597,  
0.3952

■ 59.6592, 0.3434,  
0.3727

■ 61.6518, 0.3275,  
0.3503

# Harmonies

## Analogous

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



48.2532, 0.5045, 0.4173



48.2532, 0.4412, 0.4878



48.2532, 0.3508, 0.5270

# Triad

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



48.2532, 0.4412, 0.4878



48.2532, 0.1460, 0.2602



48.2532, 0.3467, 0.2235

# Complementary

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



48.2532, 0.4412, 0.4878



5.2731, 0.1522, 0.0678

# 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.



48.2532, 0.2460, 0.1883



48.2532, 0.4412, 0.4878



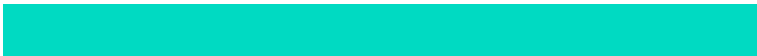
48.2532, 0.1461, 0.1997

# Square

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



48.2532, 0.4412, 0.4878



48.2532, 0.1817, 0.3672



48.2532, 0.1785, 0.1789



48.2532, 0.4531, 0.2790



# Rectangle

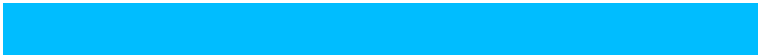
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.2532, 0.4412, 0.4878



48.2532, 0.2865, 0.5090



48.2532, 0.1785, 0.1789



48.2532, 0.3104, 0.2091

# Sweetspot

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



48.2555, 0.4412, 0.4878



90.5307, 0.3605, 0.3964



13.6310, 0.6266, 0.3227



19.1275, 0.3675, 0.4058



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.



48.2555, 0.4412, 0.4878



75.4803, 0.4415, 0.4876



50.2665, 0.3533, 0.5575



13.5558, 0.3269, 0.3494



29.8371, 0.4409, 0.4881



1.7357, 0.4364, 0.4917



# Inverse Universe

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



5.2731, 0.1522, 0.0678



8.1144, 0.1519, 0.0666



6.3311, 0.1812, 0.0773



11.6334, 0.2982, 0.3078



3.3160, 0.1525, 0.0689



0.2605, 0.1591, 0.0926



# Previews

## White Background



This preview shows how the Yxy color 48.2532, 0.4412, 0.4878 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

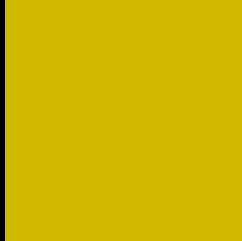
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.2532, 0.4412, 0.4878 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 48.2532, 0.4412, 0.4878**

## Background



This preview shows how black text looks on a background with the Yxy color 48.2532, 0.4412, 0.4878.



This preview shows how white text looks on a background with the Yxy color 48.2532, 0.4412, 0.4878.

# 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

48.2532, 0.4412, 0.4878

### Protanopia

48.1122, 0.4401, 0.4882

### Deuteranopia

48.0454, 0.4692, 0.4592



## Tritanopia

48.2235, 0.3451, 0.3138

# Trichromacy



## Original Color

48.2532, 0.4412, 0.4878

## Protanomaly

48.1100, 0.4402, 0.4884

## Deuteranomaly

48.1220, 0.4588, 0.4702

## Tritanomaly

47.3512, 0.3994, 0.3998

# Monochromacy



## Original Color

48.2532, 0.4412, 0.4878

## Achromatopsia

40.7240, 0.3127, 0.3290

## Achromatomaly

42.4691, 0.3776, 0.4188

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.2532, 0.4412, 0.4878 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(209, 185, 0)` looks like.

```
.text, #text, p{  
    color:rgb(209, 185, 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(209, 185, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(209, 185, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 48.2532, 0.4412, 0.4878 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(209, 185, 0) }
```

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

```
.border{ border-color:rgb(209, 185, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(209, 185, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(209, 185, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(209, 185, 0);  
box-shadow:4px 4px 4px 4px rgb(209, 185,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.2532, 0.4412, 0.4878 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(209, 185, 0) }
```

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

```
.background{ background-color: rgb(209,  
185, 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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