

Converting Colors

$Y_{xy}(45.7008, 0.4510, 0.4801)$

Have a look what the booklet for
Yxy(45.7008, 0.4510, 0.4801)
contains.

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Color

Yxy(45.8378, 0.4511, 0.4800)

Conversions

Conversions Part 1

Format	Color
Hex	D4B200
RGB	212, 178, 0
RGB Percent	83%, 70%, 0%
CMY	0.1685, 0.3020, 0.9996
CMYK	0.00, 0.16, 1.00, 0.17
HSL	50°, 100%, 42%
HSV	50°, 100%, 83%
XYZ	43.0780, 45.8378, 6.5796
YIQ	167.8740, 77.4020, -48.1500

Conversions

Conversions Part 2

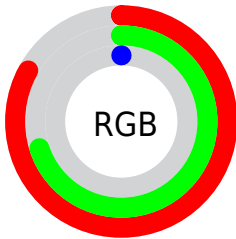
Format	Color
R _Y B	40, 212, 0
Decimal	13939200
CIE Lab	73.44, -1.45, 75.72
CIE LCh	73, 75.738, 91.096
Yxy	45.8378, 0.4511, 0.4800
Android (android.graphics.Color)	4292129280 (0xFFD4B200)
YUV	167.8740, -82.7619, 38.6985
Hunter-Lab	67.7036, -4.9066, 41.6306

Details

The Yxy color **45.8378, 0.4511, 0.4800** is a dark color, and the websafe version is hex **FFCC33**. The color can be described as middle washed orange. A complement of this color would be **5.9074, 0.1536, 0.0728**, and the grayscale version is **39.4867, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.1170, 0.4195, 0.4679**, and **21.5971, 0.4525, 0.4789** is the 20% darker color. If you saturate the color by 10%, you get **45.8330, 0.4511, 0.4800**, and if you desaturate by 10%, it is **47.2669, 0.4448, 0.4789**.

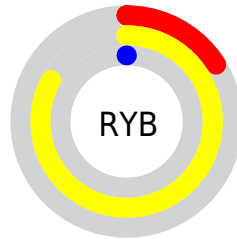
Distribution



Red (83%)

Green (70%)

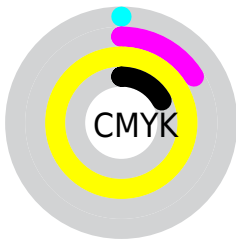
Blue (0%)



Red (16%)

Yellow (83%)

Blue (0%)

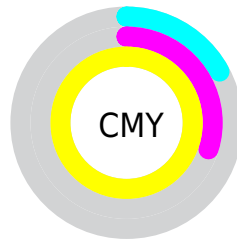


Cyan (0%)

Magenta (16%)

Yellow (100%)

Black (17%)



Cyan (17%)


Magenta (30%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 45.8378, 0.4511, 0.4800 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 45.8378, 0.4511, 0.4800 by changing the saturation by 10% instead.


 45.8378, 0.4511,
0.4800


 45.8378, 0.4511,
0.4800


370.1562, 0.3915,
0.4142

 32.1178, 0.4610,
0.4912


 83.9762, 0.4329,
0.4597


 21.4515, 0.4705,
0.5023


 109.1634, 0.4250,
0.4509


 13.4545, 0.4831,
0.5169


 138.9419, 0.4178,
0.4430

 7.7422, 0.4822,
0.5178

 173.6959, 0.4114,
0.4360

 3.9304, 0.4809,
0.5191

 213.8100, 0.4056,
0.4297

 1.6347, 0.4787,
0.5213

 259.6685, 0.4004,

 0.3808, 0.4617,

0.4240

0.5383

311.6557, 0.3957,
0.4189

■ 0.0000, 0.0000,
0.0000

■ 45.8378, 0.4511,
0.4800

■ 45.8378, 0.4511,
0.4800

■ 45.8330, 0.4511,
0.4800

■ 47.2669, 0.4448,
0.4789

■ 48.7881, 0.4360,
0.4738

■ 50.4239, 0.4244,
0.4641

■ 52.1857, 0.4104,
0.4503

■ 54.0829, 0.3947,
0.4331

■ 56.1240, 0.3779,
0.4135

■ 58.3166, 0.3609,
0.3924

■ 60.6675, 0.3440,
0.3709

■ 63.1833, 0.3279,
0.3495

Harmonies

Analogous

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



45.8378, 0.5094, 0.4083



45.8378, 0.4511, 0.4800



45.8378, 0.3626, 0.5259

Triad

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



45.8378, 0.4511, 0.4800



45.8378, 0.1481, 0.2708



45.8378, 0.3331, 0.2177

Complementary

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



45.8378, 0.4511, 0.4800



5.9074, 0.1536, 0.0728

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.



45.8378, 0.2356, 0.1855



45.8378, 0.4511, 0.4800



45.8378, 0.1441, 0.2046

Square

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



45.8378, 0.4511, 0.4800



45.8378, 0.1887, 0.3827



45.8378, 0.1726, 0.1795



45.8378, 0.4416, 0.2713

Rectangle

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



45.8378, 0.4511, 0.4800



45.8378, 0.2982, 0.5160



45.8378, 0.1726, 0.1795



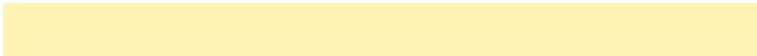
45.8378, 0.2975, 0.2043

Sweetspot

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



45.8400, 0.4511, 0.4800



88.4253, 0.3615, 0.3932



14.1272, 0.6173, 0.3175



18.6177, 0.3688, 0.4023



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.



45.8400, 0.4511, 0.4800



69.3787, 0.4515, 0.4797



52.7971, 0.3613, 0.5513



14.1645, 0.3270, 0.3484



28.4105, 0.4506, 0.4804



1.8066, 0.4443, 0.4854

Inverse Universe

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



5.9074, 0.1536, 0.0728



8.8024, 0.1532, 0.0716



6.0871, 0.1737, 0.0731



12.3276, 0.2982, 0.3088



3.7386, 0.1540, 0.0744



0.3281, 0.1618, 0.1025

Previews

White Background



This preview shows how the Yxy color 45.8378, 0.4511, 0.4800 looks on a white background.

Color Contrast Check

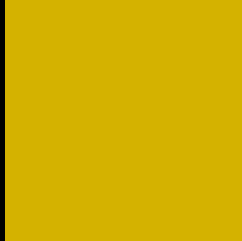
Large Text (above 18pt) WCAG AA × Fail

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 45.8378, 0.4511, 0.4800 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 45.8378, 0.4511, 0.4800

Background



This preview shows how black text looks on a background with the Yxy color 45.8378, 0.4511, 0.4800.



This preview shows how white text looks on a background with the Yxy color 45.8378, 0.4511, 0.4800.

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

45.8378, 0.4511, 0.4800

Protanopia

45.9005, 0.4400, 0.4871

Deuteranopia

45.6668, 0.4700, 0.4598



Tritanopia

45.6542, 0.3548, 0.3138

Trichromacy



Original Color

45.8378, 0.4511, 0.4800

Protanomaly

45.9167, 0.4441, 0.4846

Deuteranomaly

45.8282, 0.4627, 0.4678

Tritanomaly

44.8471, 0.4096, 0.3970

Monochromacy



Original Color

45.8378, 0.4511, 0.4800

Achromatopsia

39.1572, 0.3127, 0.3290

Achromatomaly

40.7569, 0.3803, 0.4170

CSS Examples

Text

The CSS property to change the color of the text to Yxy 45.8378, 0.4511, 0.4800 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(212, 178, 0)` looks like.

```
.text, #text, p{  
    color:rgb(212, 178, 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(212, 178, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(212, 178, 0) }
```

Border

The CSS property to change the border of an element to Yxy 45.8378, 0.4511, 0.4800 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(212, 178, 0) }
```

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

```
.border{ border-color:rgb(212, 178, 0) }
```

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

Here you see how a box with a 4 pixel rgb(212, 178, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(212, 178, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(212, 178, 0);  
box-shadow:4px 4px 4px 4px rgb(212, 178,  
0) }
```


Background

The CSS property to change the background color of an element to Yxy 45.8378, 0.4511, 0.4800 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(212, 178, 0) }
```

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

```
.background{ background-color: rgb(212,  
178, 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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