

Converting Colors

$Y_{xy}(45.8112, 0.4410, 0.4881)$

Have a look what the booklet for
Yxy(45.8112, 0.4410, 0.4881)
contains.

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Color

Yxy(45.8851, 0.4408, 0.4882)

Conversions

Conversions Part 1

Format	Color
Hex	CCB500
RGB	204, 181, 0
RGB Percent	80%, 71%, 0%
CMY	0.1999, 0.2902, 0.9999
CMYK	0.00, 0.11, 1.00, 0.20
HSL	53°, 100%, 40%
HSV	53°, 100%, 80%
XYZ	41.4301, 45.8851, 6.6732
YIQ	167.2430, 71.8090, -51.4150

Conversions

Conversions Part 2

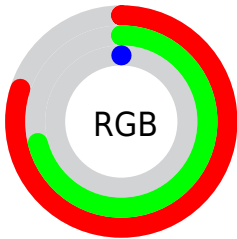
Format	Color
RYB	26, 204, 0
Decimal	13415680
CIELab	73.47, -6.54, 75.41
CIELCh	73, 75.690, 94.959
Yxy	45.8851, 0.4408, 0.4882
Android (android.graphics.Color)	4291605760 (0xFFCCB500)
YUV	167.2430, -82.4508, 32.2359
Hunter-Lab	67.7385, -9.3688, 41.5761

Details

The Yxy color **45.8851, 0.4408, 0.4882** is a dark color, and the websafe version is hex **CCCC33**. The color can be described as dark washed orange. A complement of this color would be **4.9753, 0.1521, 0.0675**, and the grayscale version is **39.1559, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.8301, 0.4176, 0.4701**, and **21.7203, 0.4397, 0.4891** is the 20% darker color. If you saturate the color by 10%, you get **45.8863, 0.4408, 0.4882**, and if you desaturate by 10%, it is **46.8834, 0.4359, 0.4862**.

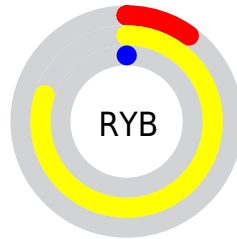
Distribution



Red (80%)

Green (71%)

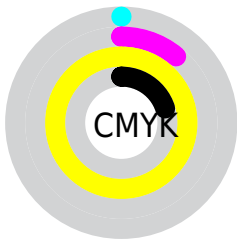
Blue (0%)



Red (10%)

Yellow (80%)

Blue (0%)

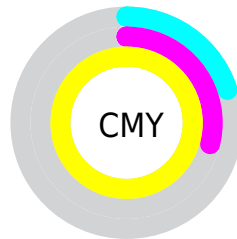


Cyan (0%)

Magenta (11%)

Yellow (100%)

Black (20%)



Cyan (20%)


Magenta (29%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 45.8851, 0.4408, 0.4882 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 45.8851, 0.4408, 0.4882 by changing the saturation by 10% instead.


 45.8851, 0.4408,
0.4882

 45.8851, 0.4408,
0.4882

370.3465, 0.3865,
0.4171


 32.1552, 0.4494,
0.5010


 84.0470, 0.4245,
0.4657


 21.4800, 0.4574,
0.5142


 109.2478, 0.4173,
0.4562


 13.4753, 0.4680,
0.5320


 139.0409, 0.4107,
0.4477

 7.7567, 0.4640,
0.5360

 173.8109, 0.4048,
0.4402

 3.9397, 0.4580,
0.5420

 213.9420, 0.3995,
0.4334

 1.6399, 0.4478,
0.5522

 259.8188, 0.3947,

 0.3843, 0.3484,

0.4274

0.6516

311.8255, 0.3904,
0.4220

■ 0.0000, 0.0000,
0.0000

■ 45.8851, 0.4408,
0.4882

■ 45.8851, 0.4408,
0.4882

■ 45.8863, 0.4408,
0.4882

■ 46.8834, 0.4359,
0.4862

■ 47.9500, 0.4286,
0.4804

■ 49.1058, 0.4186,
0.4702

■ 50.3609, 0.4061,
0.4558

■ 51.7241, 0.3917,
0.4379

■ 53.2027, 0.3761,
0.4175

■ 54.8034, 0.3598,
0.3956

■ 56.5326, 0.3436,
0.3731

■ 58.3959, 0.3278,
0.3507

Harmonies

Analogous

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



45.8851, 0.5044, 0.4177



45.8851, 0.4408, 0.4882



45.8851, 0.3503, 0.5271

Triad

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



45.8851, 0.4408, 0.4882



45.8851, 0.1458, 0.2597



45.8851, 0.3474, 0.2237

Complementary

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



45.8851, 0.4408, 0.4882



4.9753, 0.1521, 0.0675

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.



45.8851, 0.2464, 0.1883



45.8851, 0.4408, 0.4882



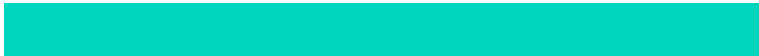
45.8851, 0.1461, 0.1994

Square

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



45.8851, 0.4408, 0.4882



45.8851, 0.1814, 0.3665



45.8851, 0.1787, 0.1788



45.8851, 0.4536, 0.2793

Rectangle

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



45.8851, 0.4408, 0.4882



45.8851, 0.2859, 0.5088



45.8851, 0.1787, 0.1788



45.8851, 0.3110, 0.2093

Sweetspot

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



45.8873, 0.4408, 0.4882



90.6292, 0.3605, 0.3965



12.9059, 0.6268, 0.3226



19.1514, 0.3675, 0.4060



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.



45.8873, 0.4408, 0.4882



75.7735, 0.4411, 0.4880



47.6176, 0.3534, 0.5576



12.8720, 0.3268, 0.3494



28.9612, 0.4405, 0.4885



1.5571, 0.4358, 0.4922

Inverse Universe

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



4.9753, 0.1521, 0.0675



8.0879, 0.1518, 0.0664



5.9901, 0.1812, 0.0772



11.0445, 0.2982, 0.3078



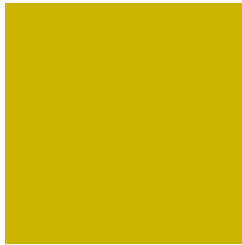
3.1999, 0.1525, 0.0688



0.2353, 0.1593, 0.0935

Previews

White Background



This preview shows how the Yxy color 45.8851, 0.4408, 0.4882 looks on a white background.

Color Contrast Check

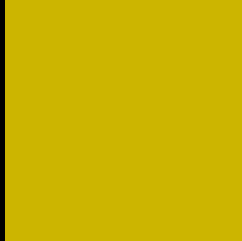
Large Text (above 18pt) WCAG AA × Fail

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 45.8851, 0.4408, 0.4882 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 45.8851, 0.4408, 0.4882

Background



This preview shows how black text looks on a background with the Yxy color 45.8851, 0.4408, 0.4882.

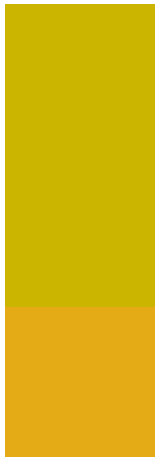


This preview shows how white text looks on a background with the Yxy color 45.8851, 0.4408, 0.4882.

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

45.8851, 0.4408, 0.4882

Protanopia

45.8873, 0.4407, 0.4881

Deuteranopia

45.6817, 0.4692, 0.4588



Tritanopia

45.6376, 0.3439, 0.3134

Trichromacy



Original Color

45.8851, 0.4408, 0.4882

Protanomaly

45.8873, 0.4407, 0.4881

Deuteranomaly

45.7545, 0.4586, 0.4702

Tritanomaly

44.8266, 0.3985, 0.4004

Monochromacy



Original Color

45.8851, 0.4408, 0.4882

Achromatopsia

38.6429, 0.3127, 0.3290

Achromatomaly

40.2490, 0.3771, 0.4196

CSS Examples

Text

The CSS property to change the color of the text to Yxy 45.8851, 0.4408, 0.4882 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(204, 181, 0)` looks like.

```
.text, #text, p{  
    color:rgb(204, 181, 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(204, 181, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 181, 0) }
```

Border

The CSS property to change the border of an element to Yxy 45.8851, 0.4408, 0.4882 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(204, 181, 0) }
```

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

```
.border{ border-color:rgb(204, 181, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 181, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 181, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 181, 0);  
box-shadow:4px 4px 4px 4px rgb(204, 181,  
0) }
```


Background

The CSS property to change the background color of an element to Yxy 45.8851, 0.4408, 0.4882 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 181, 0) }
```

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

```
.background{ background-color: rgb(204,  
181, 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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