

Converting Colors

$Y_{xy}(45.5684, 0.4416, 0.4876)$

Have a look what the booklet for
Yxy(45.5684, 0.4416, 0.4876)
contains.

Yxy(45.4799, 0.4418, 0.4874)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(45.4799, 0.4418, 0.4874)

Conversions

Conversions Part 1

Format	Color
Hex	CCB400
RGB	204, 180, 0
RGB Percent	80%, 71%, 0%
CMY	0.2000, 0.2941, 0.9998
CMYK	0.00, 0.12, 1.00, 0.20
HSL	53°, 100%, 40%
HSV	53°, 100%, 80%
XYZ	41.2249, 45.4799, 6.6064
YIQ	166.6560, 72.0840, -50.8920

Conversions

Conversions Part 2

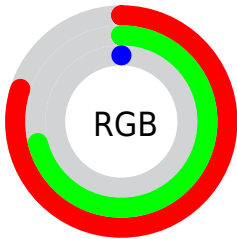
Format	Color
RYB	27, 204, 0
Decimal	13415424
CIELab	73.21, -6.03, 75.22
CIELCh	73, 75.456, 94.585
Yxy	45.4799, 0.4418, 0.4874
Android (android.graphics.Color)	4291605504 (0xFFCCB400)
YUV	166.6560, -82.1614, 32.7507
Hunter-Lab	67.4388, -8.9019, 41.3990

Details

The Yxy color **45.4799, 0.4418, 0.4874** 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 **5.0156, 0.1522, 0.0680**, and the grayscale version is **38.8526, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.2558, 0.4182, 0.4694**, and **21.4581, 0.4411, 0.4880** is the 20% darker color. If you saturate the color by 10%, you get **45.4799, 0.4418, 0.4874**, and if you desaturate by 10%, it is **46.5120, 0.4367, 0.4855**.

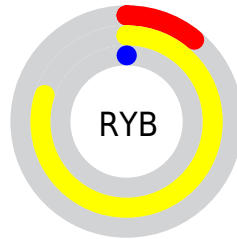
Distribution



Red (80%)

Green (71%)

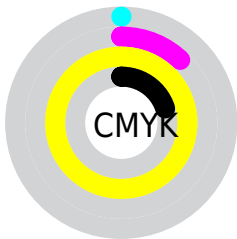
Blue (0%)



Red (11%)

Yellow (80%)

Blue (0%)

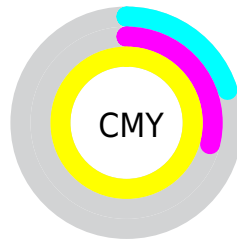


Cyan (0%)

Magenta (12%)

Yellow (100%)

Black (20%)



Cyan (20%)

Magenta (29%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 45.4799, 0.4418, 0.4874 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 45.4799, 0.4418, 0.4874 by changing the saturation by 10% instead.

45.4799, 0.4418,
0.4874

45.4799, 0.4418,
0.4874

368.7137, 0.3868,
0.4167

31.8356, 0.4506,
0.5001

83.4401, 0.4253,
0.4651

21.2360, 0.4587,
0.5131

108.5248, 0.4180,
0.4556

13.2966, 0.4694,
0.5306

138.1917, 0.4114,
0.4472

7.6331, 0.4657,
0.5343

172.8252, 0.4054,
0.4396

3.8611, 0.4601,
0.5399

212.8098, 0.4000,
0.4329

1.5962, 0.4506,
0.5494

258.5298, 0.3952,

0.3550, 0.3488,

0.4269

0.6512

310.3697, 0.3908,
0.4215

■ 0.0000, 0.0000,
0.0000

■ 45.4799, 0.4418,
0.4874

■ 46.5120, 0.4367,
0.4855

■ 47.6137, 0.4293,
0.4797

■ 48.8060, 0.4191,
0.4695

■ 50.0990, 0.4065,
0.4552

■ 51.5013, 0.3920,
0.4374

■ 53.0205, 0.3762,
0.4171

■ 54.6632, 0.3599,
0.3953

■ 56.4356, 0.3436,
0.3728

■ 58.3436, 0.3277,
0.3506

Harmonies

Analogous

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



45.4799, 0.5049, 0.4168



45.4799, 0.4418, 0.4874



45.4799, 0.3515, 0.5270

Triad

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



45.4799, 0.4418, 0.4874



45.4799, 0.1461, 0.2607



45.4799, 0.3460, 0.2231

Complementary

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



45.4799, 0.4418, 0.4874



5.0156, 0.1522, 0.0680

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.



45.4799, 0.2454, 0.1881



45.4799, 0.4418, 0.4874



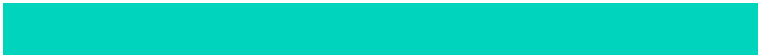
45.4799, 0.1459, 0.1999

Square

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



45.4799, 0.4418, 0.4874



45.4799, 0.1821, 0.3681



45.4799, 0.1781, 0.1789



45.4799, 0.4525, 0.2785

Rectangle

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



45.4799, 0.4418, 0.4874



45.4799, 0.2871, 0.5095



45.4799, 0.1781, 0.1789



45.4799, 0.3097, 0.2088

Sweetspot

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



45.4821, 0.4418, 0.4874



90.4039, 0.3606, 0.3962



12.9196, 0.6238, 0.3210



19.0968, 0.3676, 0.4056



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.



45.4821, 0.4418, 0.4874



75.1042, 0.4421, 0.4872



47.8739, 0.3560, 0.5555



12.8625, 0.3268, 0.3493



28.7126, 0.4414, 0.4877



1.5466, 0.4365, 0.4916

Inverse Universe

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



5.0156, 0.1522, 0.0680



8.1491, 0.1519, 0.0669



5.8500, 0.1787, 0.0758



11.0531, 0.2982, 0.3079



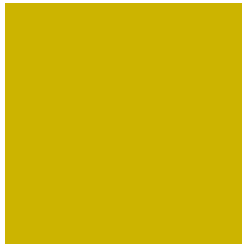
3.2271, 0.1526, 0.0694



0.2393, 0.1597, 0.0949

Previews

White Background



This preview shows how the Yxy color 45.4799, 0.4418, 0.4874 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 45.4799, 0.4418, 0.4874 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 45.4799, 0.4418, 0.4874

Background



This preview shows how black text looks on a background with the Yxy color 45.4799, 0.4418, 0.4874.



This preview shows how white text looks on a background with the Yxy color 45.4799, 0.4418, 0.4874.

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

45.4799, 0.4418, 0.4874

Protanopia

45.3456, 0.4405, 0.4876

Deuteranopia

45.5146, 0.4685, 0.4597



Tritanopia

45.2289, 0.3450, 0.3134

Trichromacy



Original Color

45.4799, 0.4418, 0.4874

Protanomaly

45.3434, 0.4407, 0.4878

Deuteranomaly

45.3639, 0.4598, 0.4695

Tritanomaly

44.4445, 0.3991, 0.3992

Monochromacy



Original Color

45.4799, 0.4418, 0.4874

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 45.4799, 0.4418, 0.4874 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, 180, 0)` looks like.

```
.text, #text, p{  
    color:rgb(204, 180, 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, 180, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 180, 0) }
```

Border

The CSS property to change the border of an element to Yxy 45.4799, 0.4418, 0.4874 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, 180, 0) }
```

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

```
.border{ border-color:rgb(204, 180, 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, 180, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 180, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 180, 0);  
box-shadow:4px 4px 4px 4px rgb(204, 180,  
0) }
```


Background

The CSS property to change the background color of an element to Yxy 45.4799, 0.4418, 0.4874 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 180, 0) }
```

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

```
.background{ background-color: rgb(204,  
180, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor