

# Converting Colors

$Y_{xy}(45.8952, 0.3760, 0.3860)$

Have a look what the booklet for  
Yxy(45.8952, 0.3760, 0.3860)  
contains.

<b>Yxy(45.9476, 0.3761, 0.3859)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(45.9476, 0.3761, 0.3859)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CCB184
RGB	204, 177, 132
RGB Percent	80%, 69%, 52%
CMY	0.2002, 0.3058, 0.4824
CMYK	0.00, 0.13, 0.35, 0.20
HSL	38°, 41%, 66%
HSV	38°, 35%, 80%
XYZ	44.7808, 45.9476, 28.3377
YIQ	179.9430, 30.5370, -8.2710

# Conversions

## Conversions Part 2

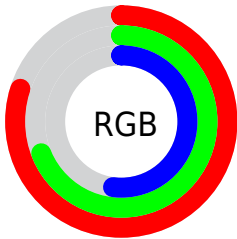
<b>Format</b>	<b>Color</b>
<b>RYB</b>	175, 204, 132
Decimal	13414788
CIELab	73.51, 3.24, 26.64
CIELCh	74, 26.834, 83.068
Yxy	45.9476, 0.3761, 0.3859
Android (android.graphics.Color)	4291604868 (0xFFCCB184)
YUV	179.9430, -23.6359, 21.0980
Hunter-Lab	67.7847, -0.7002, 22.6628

# Details

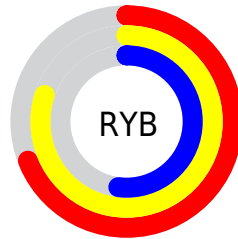
The Yxy color  $45.9476, 0.3761, 0.3859$  is a light color, and the websafe version is hex `CCCC99`. A complement of this color would be  $34.0393, 0.2547, 0.2643$ , and the grayscale version is  $45.7257, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $83.0406, 0.3598, 0.3776$ , and  $21.6660, 0.3938, 0.4015$  is the 20% darker color. If you saturate the color by 10%, you get  $42.5117, 0.3976, 0.4019$ , and if you desaturate by 10%, it is  $49.6658, 0.3560, 0.3693$ .

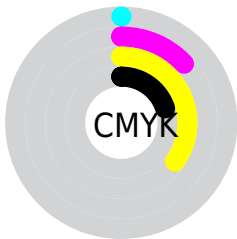
# Distribution



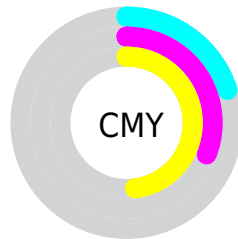
- Red (80%)
- Green (69%)
- Blue (52%)



- Red (69%)
- Yellow (80%)
- Blue (52%)



- Cyan (0%)
- Magenta (13%)
- Yellow (35%)
- Black (20%)



- Cyan (20%)
- Magenta (31%)
- Yellow (48%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.9476, 0.3761, 0.3859 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 45.9476, 0.3761, 0.3859 by changing the saturation by 10% instead.



■ 45.9476, 0.3761,  
0.3859

■ 45.9476, 0.3761,  
0.3859

370.5979, 0.3445,  
0.3580

■ 32.2045, 0.3838,  
0.3926

■ 84.1406, 0.3647,  
0.3759

■ 21.5177, 0.3936,  
0.4010

■ 109.3592, 0.3604,  
0.3721

■ 13.5030, 0.4063,  
0.4117

■ 139.1718, 0.3567,  
0.3689

■ 7.7758, 0.4233,  
0.4257

173.9627, 0.3536,  
0.3661

■ 3.9518, 0.4467,  
0.4441

214.1164, 0.3509,  
0.3637

■ 1.6466, 0.5062,  
0.4938

260.0173, 0.3485,

■ 0.3887, 0.5357,

0.3615

0.4643

312.0496, 0.3464,  
0.3596

0.0000, 0.0000,  
0.0000

45.9476, 0.3761,  
0.3859

45.9476, 0.3761,  
0.3859

42.5117, 0.3976,  
0.4019

49.6658, 0.3560,  
0.3693

39.3425, 0.4199,  
0.4165

53.6683, 0.3375,  
0.3529

36.4323, 0.4423,  
0.4286


57.9655, 0.3208,  
0.3370

33.7703, 0.4635,  
0.4369


62.5649, 0.3059,  
0.3220

31.3444, 0.4826,  
0.4405


67.4739, 0.2926,  
0.3080

 29.1401, 0.4984,  
0.4390

 72.6994, 0.2808,  
0.2951

 28.1661, 0.5052,  
0.4371

 76.9084, 0.2810,  
0.3028

 81.2637, 0.2815,  
0.3111

 85.8077, 0.2821,  
0.3192

# Harmonies

## Analogous

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



45.9476, 0.3880, 0.3611



45.9476, 0.3761, 0.3859



45.9476, 0.3471, 0.3968

# Triad

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



45.9476, 0.3761, 0.3859



45.9476, 0.2509, 0.3219



45.9476, 0.3119, 0.2789

# Complementary

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



45.9476, 0.3761, 0.3859



34.0393, 0.2547, 0.2643

# 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.



45.9476, 0.2762, 0.2681



45.9476, 0.3761, 0.3859



45.9476, 0.2427, 0.2903

# Square

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



45.9476, 0.3761, 0.3859



45.9476, 0.2750, 0.3586



45.9476, 0.2517, 0.2716



45.9476, 0.3498, 0.3012



# Rectangle

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



45.9476, 0.3761, 0.3859



45.9476, 0.3226, 0.3928



45.9476, 0.2517, 0.2716



45.9476, 0.2992, 0.2739

# Sweetspot

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



45.9497, 0.3761, 0.3859



91.8050, 0.3304, 0.3462



31.8579, 0.3638, 0.2938



19.4430, 0.3327, 0.3484



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.



45.9497, 0.3761, 0.3859



71.9464, 0.3916, 0.3977



56.5106, 0.3583, 0.4183



12.3633, 0.3275, 0.3435



17.9194, 0.5037, 0.4383



1.0672, 0.4830, 0.4547



# Inverse Universe

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



34.0393, 0.2547, 0.2643



49.4717, 0.2420, 0.2482



26.4701, 0.2564, 0.2260



11.5207, 0.2983, 0.3141



6.1952, 0.1668, 0.1203

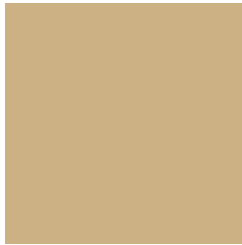


0.4643, 0.1779, 0.1603



# Previews

## White Background



This preview shows how the Yxy color 45.9476, 0.3761, 0.3859 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 45.9476, 0.3761, 0.3859 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

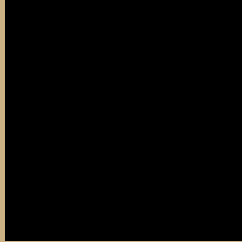
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.9476, 0.3761, 0.3859**

## Background



This preview shows how black text looks on a background with the Yxy color 45.9476, 0.3761, 0.3859.



This preview shows how white text looks on a background with the Yxy color 45.9476, 0.3761, 0.3859.

# 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

45.9476, 0.3761, 0.3859

### Protanopia

46.2383, 0.3634, 0.3901

### Deuteranopia

45.8767, 0.3865, 0.3780



## Tritanopia

45.8700, 0.3381, 0.3133

# Trichromacy



## Original Color

45.9476, 0.3761, 0.3859

## Protanomaly

46.3417, 0.3684, 0.3894

## Deuteranomaly

45.6672, 0.3823, 0.3799

## Tritanomaly

45.9774, 0.3527, 0.3403

# Monochromacy



## Original Color

45.9476, 0.3761, 0.3859

## Achromatopsia

45.6411, 0.3127, 0.3290

## Achromatomaly

45.7034, 0.3348, 0.3500

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.9476, 0.3761, 0.3859 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, 177, 132)` looks like.

```
.text, #text, p{  
    color:rgb(204, 177, 132)  
}
```

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, 177, 132) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 177, 132) }
```

## Border

The CSS property to change the border of an element to Yxy 45.9476, 0.3761, 0.3859 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, 177, 132) }
```

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

```
.border{ border-color:rgb(204, 177, 132) }
```

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

Here you see how a box with a 4 pixel rgb(204, 177, 132) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 177, 132); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 177, 132);  
box-shadow:4px 4px 4px 4px rgb(204, 177,  
132) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.9476, 0.3761, 0.3859 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 177, 132) }
```

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

```
.background{ background-color: rgb(204,  
177, 132) }
```

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