

# Converting Colors

$Y_{xy}(45.5154, 0.4018, 0.4278)$

Have a look what the booklet for  
Yxy(45.5154, 0.4018, 0.4278)  
contains.

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# Color

**Yxy(45.4191, 0.4024, 0.4275)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CBB262
RGB	203, 178, 98
RGB Percent	80%, 70%, 38%
CMY	0.2040, 0.3019, 0.6156
CMYK	0.00, 0.12, 0.52, 0.20
HSL	46°, 50%, 59%
HSV	46°, 52%, 80%
XYZ	42.7524, 45.4191, 18.0720
YIQ	176.3550, 40.5800, -19.5800

# Conversions

## Conversions Part 2

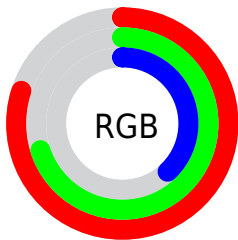
<b>Format</b>	<b>Color</b>
<b>RYB</b>	131, 203, 98
Decimal	13349474
CIELab	73.17, -1.24, 43.82
CIELCh	73, 43.842, 91.623
Yxy	45.4191, 0.4024, 0.4275
Android (android.graphics.Color)	4291539554 (0xFFCBB262)
YUV	176.3550, -38.6290, 23.3677
Hunter-Lab	67.3937, -4.7043, 31.2766

# Details

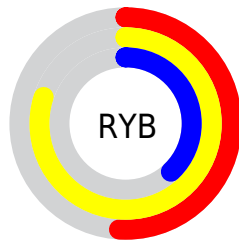
The Yxy color **45.4191, 0.4024, 0.4275** is a light color, and the websafe version is hex **CCCC66**. A complement of this color would be **21.0746, 0.2216, 0.2040**, and the grayscale version is **43.8022, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3076, 0.3824, 0.4132**, and **21.3382, 0.4241, 0.4518** is the 20% darker color. If you saturate the color by 10%, you get **43.1962, 0.4202, 0.4430**, and if you desaturate by 10%, it is **47.8113, 0.3839, 0.4096**.

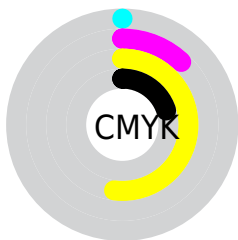
# Distribution



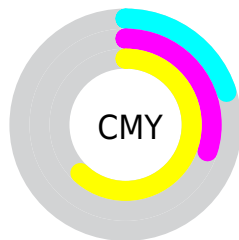
- Red (80%)
- Green (70%)
- Blue (38%)



- Red (51%)
- Yellow (80%)
- Blue (38%)



- Cyan (0%)
- Magenta (12%)
- Yellow (52%)
- Black (20%)




- Cyan (20%)
- Magenta (30%)
- Yellow (62%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.4191, 0.4024, 0.4275 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 45.4191, 0.4024, 0.4275 by changing the saturation by 10% instead.





 45.4191, 0.4024,  
0.4275

 45.4191, 0.4024,  
0.4275


368.4683, 0.3591,  
0.3797

 31.7877, 0.4122,  
0.4384


 83.3490, 0.3873,  
0.4107

 21.1994, 0.4239,  
0.4516


 108.4162, 0.3814,  
0.4042

 13.2698, 0.4379,  
0.4676


 138.0641, 0.3764,  
0.3987

 7.6146, 0.4541,  
0.4863

 172.6771, 0.3720,  
0.3938

 3.8493, 0.4818,  
0.5182

212.6397, 0.3682,  
0.3896

 1.5896, 0.4799,  
0.5201

258.3361, 0.3648,

 0.3506, 0.4635,

0.3859

0.5365

310.1509, 0.3618,  
0.3826

■ 0.0000, 0.0000,  
0.0000

■ 45.4191, 0.4024,  
0.4275

■ 45.4191, 0.4024,  
0.4275

■ 43.1962, 0.4202,  
0.4430

■ 47.8113, 0.3839,  
0.4096

■ 41.1279, 0.4365,  
0.4552

■ 50.3736, 0.3655,  
0.3903

■ 39.2070, 0.4506,  
0.4630

■ 53.1151, 0.3477,  
0.3706

■ 37.4227, 0.4617,  
0.4661

■ 56.0420, 0.3309,  
0.3510

■ 36.0317, 0.4691,  
0.4657

■ 59.1602, 0.3153,  
0.3321

■ 62.4754, 0.3010,  
0.3143

■ 65.9927, 0.2880,  
0.2976

■ 69.3640, 0.2794,  
0.2876

■ 71.8860, 0.2798,  
0.2929

# Harmonies

## Analogous

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



45.4191, 0.4331, 0.3889



45.4191, 0.4024, 0.4275



45.4191, 0.3491, 0.4420

# Triad

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



45.4191, 0.4024, 0.4275



45.4191, 0.2086, 0.2982



45.4191, 0.3280, 0.2590

# Complementary

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



45.4191, 0.4024, 0.4275



21.0746, 0.2216, 0.2040

# 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.



45.4191, 0.2680, 0.2369



45.4191, 0.4024, 0.4275



45.4191, 0.2043, 0.2541

# Square

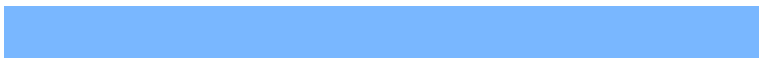
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



45.4191, 0.4024, 0.4275



45.4191, 0.2381, 0.3602



45.4191, 0.2247, 0.2342



45.4191, 0.3892, 0.2961



# Rectangle

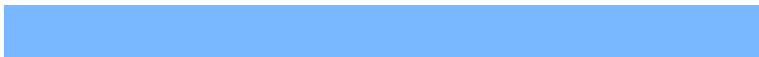
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



45.4191, 0.4024, 0.4275



45.4191, 0.3087, 0.4302



45.4191, 0.2247, 0.2342



45.4191, 0.3069, 0.2497

# Sweetspot

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



45.4212, 0.4024, 0.4275



91.6056, 0.3383, 0.3597



22.8954, 0.4218, 0.2958



19.3893, 0.3418, 0.3638



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.



45.4212, 0.4024, 0.4275



71.9394, 0.4221, 0.4446



52.9074, 0.3648, 0.4636



12.6265, 0.3271, 0.3466



23.0791, 0.4683, 0.4664



1.3028, 0.4568, 0.4755



# Inverse Universe

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



21.0746, 0.2216, 0.2040



26.9521, 0.2015, 0.1720



17.3541, 0.2363, 0.1745



11.2703, 0.2983, 0.3108



4.2246, 0.1577, 0.0877

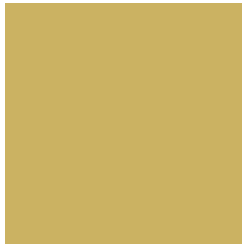


0.3392, 0.1684, 0.1262



# Previews

## White Background



This preview shows how the Yxy color 45.4191, 0.4024, 0.4275 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

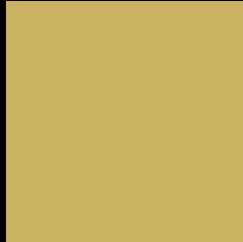
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.4191, 0.4024, 0.4275 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 45.4191, 0.4024, 0.4275**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.4191, 0.4024, 0.4275.



This preview shows how white text looks on a background with the Yxy color 45.4191, 0.4024, 0.4275.

# 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

45.4191, 0.4024, 0.4275

### Protanopia

45.5491, 0.3957, 0.4305

### Deuteranopia

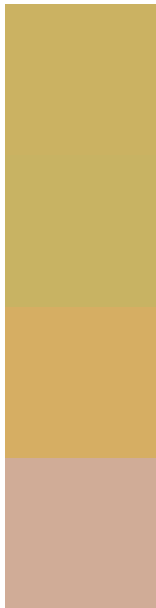
45.2616, 0.4217, 0.4115



## Tritanopia

45.1903, 0.3411, 0.3133

# Trichromacy



## Original Color

45.4191, 0.4024, 0.4275

## Protanomaly

45.4204, 0.3982, 0.4287

## Deuteranomaly

45.4691, 0.4147, 0.4179

## Tritanomaly

45.1493, 0.3648, 0.3554

# Monochromacy



## Original Color

45.4191, 0.4024, 0.4275

## Achromatopsia

43.4154, 0.3127, 0.3290

## Achromatomaly

44.0215, 0.3452, 0.3678

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.4191, 0.4024, 0.4275 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(203, 178, 98)` looks like.

```
.text, #text, p{  
    color:rgb(203, 178, 98)  
}
```

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(203, 178, 98) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 178, 98) }
```

## Border

The CSS property to change the border of an element to Yxy 45.4191, 0.4024, 0.4275 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(203, 178, 98) }
```

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

```
.border{ border-color:rgb(203, 178, 98) }
```

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

Here you see how a box with a 4 pixel `rgb(203, 178, 98)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 178, 98); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 178, 98);  
box-shadow:4px 4px 4px 4px rgb(203, 178,  
98) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.4191, 0.4024, 0.4275 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 178, 98) }
```

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

```
.background{ background-color: rgb(203,  
178, 98) }
```

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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